



Swakop River Wadi, Namibia,
showing folded metasediments.
Courtesy of Thomas D. Barrow.

2000 Newsletter

**The University of Texas at Austin
Department of Geological Sciences
and Geology Foundation**

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Department of Geological Sciences News



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<i>We Need Your Help</i>	INSIDE BACK COVER
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Report from the Chairman

Since 1953, the *Newsletter* has recorded the history of the Department of Geological Sciences by reporting news about students, faculty, staff, and the Geology Foundation. This year, nearly 600 of the alumni sent in news as well. Feature articles highlight our Exploration Geophysics Initiative and the hiring of Robert H. Tatham, two new student exchange programs with Australian universities, and Sharon Mosher's field work on Macquarie Island.

Faculty recognition comes in many forms. Leon Long was elected to The UT Academy of Distinguished Teachers. Assistant Professor Chris Bell received the 2000 College of Natural Sciences Teaching Excellence Award in recognition of his outstanding teaching efforts at both undergraduate and graduate levels. Chris and Research Associate Matthew Colbert received the first-place Innovative Instructional Technologies Award from the University for the CD-ROM they created to assist in teaching courses in vertebrate paleontology. Jay Banner received a College of Natural Sciences Outreach Award in recognition of his efforts to create the new Outreach Lecture series, which is the subject of an article in this *Newsletter*. Emeritus Professor Bill Muehlberger received the NASA Public Service Medal in recognition of his decades of devoted service to the space program. Sharon Mosher is President-elect of the Geological Society of America, and Bill Carlson is the President of the Mineralogical Society of America.

To our knowledge, we continue to maintain the largest enrollments of both undergraduate majors (170) and graduate students (150) of any geoscience department in the United States. The *Newsletter* lists those who have been awarded financial support and those who served as Teaching Assistants or Research Assistants. For more than a decade, approximately 2,500 students were enrolled in our geoscience courses designed for non-majors. These courses, a combination of formal lectures by a faculty member and lab exercises guided by graduate students working as Teaching Assistants, attract some of our majors, but each is really designed to forever open the eyes of students to the workings of science and the wonders of the planet on which they live. Leon Long, Doug Smith, Sharon Mosher, Gary Kocurek, Randy Marrett, Tim Rowe, Jay Banner, Libby Stern, Chris Bell, Earle McBride, Jay Famiglietti, Jim Sprinkle, Jack Sharp, and the 50 graduate student Teaching Assistants who assisted them are to be commended for exemplary efforts during this and past years.

We continue to be one of the flagships for geoscience education in the world. Many of our activities during this past year have been supported by you through the Geology Foundation. It was another good year. We appreciate your support, encouragement, and understanding. Enjoy the *Newsletter*.

—— Mark Cloos ——

P. S. To check on programs, talks, and other events in the Department, see our Web site at www.geo.utexas.edu.



SEE PHOTOS ON FRONT AND BACK COVERS.

Department of Geological Sciences News

Faculty and Staff Listing

PROFESSORS ASSOCIATE PROFESSORS ASSISTANT PROFESSORS AND LECTURERS

JAY L. BANNER

Associate Professor and Dave P.
Carlton Centennial Fellow in Geology

CHRISTOPHER J. BELL

Assistant Professor and John A. Wilson
Fellow in Vertebrate Paleontology

PHILIP C. BENNETT

Associate Professor and John A. and
Katherine G. Jackson Centennial
Teaching Fellow in Geological Sciences

ROBERT E. BOYER

Professor and Peter T. Flawn
Centennial Chair in Geology

RICHARD T. BUFFLER

Professor and Senior Research
Scientist, Institute for Geophysics

WILLIAM D. CARLSON

Professor and William Stamps Farish
Chair in Geology

MARK P. CLOOS

Professor, Getty Oil Company
Centennial Chair in Geological
Sciences, Associate Director, Geology
Foundation, and Chairman,
Department of Geological Sciences

JAMES N. CONNELLY

Assistant Professor and Elf
Aquitaine Petroleum Faculty Fellow
in Geological Sciences

IAN W. D. DALZIEL

Professor and Senior Research
Scientist, Institute for Geophysics

JAMES S. (JAY) FAMIGLIETTI

Assistant Professor and Bill R. Payne
Centennial Teaching Fellow

WILLIAM L. FISHER

Professor, Leonidas T. Barrow
Centennial Chair in Mineral
Resources, Director, Geology
Foundation, and Director Ad Interim,
Bureau of Economic Geology

WILLIAM E. GALLOWAY

Professor and Morgan J. Davis
Centennial Chair in Petroleum
Geology

STEPHEN P. GRAND

Associate Professor and Dave P.
Carlton Centennial Professor in
Geology

MARK A. HELPER

Lecturer

BRENDA KIRKLAND

Assistant Professor and William T.
Stokes Centennial Teaching Fellow
in Geological Sciences

GARY A. KOCUREK

Professor and John E. "Brick" Elliott
Centennial Endowed Professor in
Geological Sciences

J. RICHARD KYLE

Professor and The Third Mr. and
Mrs. Charles E. Yager Professor

LEON E. LONG

Professor, The Second Mr. and Mrs.
Charles E. Yager Professor, and UT
Distinguished Teaching Professor

F. JERRY LUCIA

Senior Lecturer and Senior Research
Fellow, Bureau of Economic Geology

RANDALL A. MARRETT

Assistant Professor and Joyce Bowman
Payne Centennial Teaching Fellow

EARLE F. MCBRIDE

Professor and J. Nalle Gregory Chair
in Sedimentary Geology

SHARON MOSHER

Professor and Wilton E. Scott
Centennial Professor

YOSIO NAKAMURA

Professor and Senior Research
Scientist, Institute for Geophysics

TIMOTHY B. ROWE

Professor and J. Nalle Gregory Regents
Professor in Geological Sciences

JOHN M. (JACK) SHARP, JR.

Professor and Chevron Centennial
Professor in Geology

DOUGLAS SMITH

Professor and Albert W. and
Alice M. Weeks Centennial Professor
in Geological Sciences

JAMES T. SPRINKLE

Professor and The First Mr. and Mrs.
Charles E. Yager Professor

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Assistant Professor and Geology
Foundation Advisory Council
Centennial Teaching Fellow in
Geological Sciences

PAUL L. STOFFA

Professor, Shell Companies
Foundation Distinguished Chair
in Geophysics, and Director,
Institute for Geophysics

ROBERT H. TATHAM

Professor and The Shell Centennial
Chair in Geophysics

WILLEM C. J. VAN RENSBURG

Professor and J. H. Herring Centennial
Professor in Petroleum Engineering

CLARK R. WILSON

Professor and Wallace E. Pratt
Professor in Geophysics

PROFESSORS EMERITI

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Professor and Shell Companies
Foundation Distinguished Chair
Emeritus in Geophysics

DANIEL S. BARKER

Fred M. Bullard Professor Emeritus
in Geological Sciences

LEONARD F. BROWN, JR.

STEPHEN E. CLABAUGH

Fred M. Bullard Professor Emeritus
in Geological Sciences

PETER T. FLAWN

Leonidas T. Barrow Chair Emeritus
in Mineral Resources and President
Emeritus

ROBERT L. FOLK

Dave P. Carlton Centennial Professor
Emeritus in Geology

CLAUDE W. HORTON

EDWARD C. JONAS

LYNTON S. LAND

Edwin Allday Centennial Chair
Emeritus in Subsurface Geology

WANN LANGSTON, JR.

The First Mr. and Mrs. Charles E.
Yager Professor Emeritus

ERNEST L. LUNDELIUS, JR.

John A. Wilson Professor Emeritus
in Vertebrate Paleontology

ARTHUR E. MAXWELL

JOHN C. MAXWELL

William Stamps Farish Chair Emeritus
in Geology

WILLIAM R. MUEHLBERGER

Peter T. Flawn Centennial Chair
Emeritus in Geology

AMOS SALVADOR

Morgan J. Davis Centennial Professor
Emeritus in Petroleum Geology

JOHN A. WILSON

KEITH YOUNG

J. Nalle Gregory Professor Emeritus
in Sedimentary Geology

RESEARCH SCIENTISTS

MATTHEW W. COLBERT

Research Scientist Associate III

WULF A. GOSE

Research Scientist and Senior Lecturer

TODD B. HOUSH

Research Scientist

ERIC W. JAMES

Research Scientist Associate V

RICHARD A. KETCHAM

Research Associate

LAWRENCE E. MACK

Research Scientist Assistant

FRED W. MCDOWELL

Research Scientist and Senior Lecturer

KITTY L. MILLIKEN

Research Scientist and Lecturer

JULIA W. STOWELL

Research Associate

VISITING SCHOLAR

Oscar A. Alcober

University of San Juan, Argentina
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HUGH W. STIMSON

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GREGORY L. THOMPSON

Technical Staff Assistant III

DENNIS R. TROMBATORE

Librarian, Walter Geology Library

CASSIA H. WOLFSON

Research Scientist Associate II

ADMINISTRATIVE STAFF

ARTURO GUTIERREZ, JR.

Administrative Associate

BETTY J. KURTZ

Administrative Assistant

MIRIAM L. PASHBY

Administrative Assistant

JOHN R. READY

Senior Procurement Officer

L. ALICE RENTZ

Administrative Assistant

DEBRA SUE TRINQUE

Accounting Technician

RENEE A. WATERS

Student Development Specialist III

WILLIAM I. WOODS

Executive Assistant

GEOLOGY FOUNDATION

MARY E. KOCH

Senior Administrative Associate ❖

Faculty Personal Notes

DAN BARKER'S first year of retirement was a busy one. In September, he and Rosemary went to France for two meetings. The first was a special meeting of the Geological Society of France in Aurillac, on Cenozoic perialpine volcanism and rifting, with field trips to Cantal and the Limagne graben. Ro's fluent French helped enormously. A few days later they went up the road to Clermont-Ferrand, where Dan presented a poster on his work with the Llano granites at the Fourth Hutton Granite Symposium.

Linked to that conference were field trips in the French Pyrenees and Mont Dore volcano. At the October meeting of the Geological Society of America in Denver, Colorado, they went on a field trip to the Colorado-Wyoming state line kimberlite district and attended the 30th reunion of participants in the American Geological Institute International Field Institute to East Africa, South Africa, and Israel. Dan still considers that seven-week tour in 1969 a high point of his career for its great geology, able leaders, and congenial colleagues.

In February, Dan gave a talk on "Volcanoes: Killers and Creators" as part of the Department's Outreach Lecture Series. In late March and early April, Dan was a co-leader of a Trans-Pecos field trip; then he and Ro

went to the South-Central GSA meeting in Fayetteville to take part in a symposium on alkalic rocks of North America and a one-day field trip in central Arkansas. His guidebook to Tuff Canyon, Big Bend National Park, is in press as one of the Bureau of Economic Geology's *Down to Earth* series for general readers. Three other publications are in press, and another is in review.

By July, Dan plans to have a geochemical data base (more than 800 analyses) of Trans-Pecos Cenozoic igneous rocks on a Web site linked to the Department's home page. It's great to have the time to relax!

BILL FISHER completed his stint as Director ad interim at the Bureau of Economic Geology in January of this year with the naming of Scott Tinker as the new Director. Fisher teaches reservoir geology and sequence stratigraphy, and his host of graduate students are pursuing research topics on four continents, topics including carbonates and clastics and ranging from reservoir to basin scale.

Eight of Fisher's students graduated in 1999-2000: Jose Guzman returned to INTEVER, the research arm of PDVSA in Caracas, Venezuela; Jianchun Dai joined Paradigm Geophysics in Houston; Bruno Courme returned to Total-Fina in

Paris, France; Elsa Jaimes joined Petrobras in Bogota, Colombia; Adriano Lobo returned to Ecopetrol in Bogota; Yong-Joon Park returned to the Korean National Oil Company in Seoul but has since returned to Austin to pursue a doctorate; and Ceniz Vur and Fatma Akyurek both have returned to the Turkish Petroleum Corporation in Ankara, Turkey. Six more students plan to finish this summer: Carlos Fimlay and Josefa Carbon will return to PDVSA in Caracas; Sunday Shepherd will join Chevron Overseas in San Francisco, California; Mike Bradley will join Exxon in Houston; Jaime Castillo will rejoin Ecopetrol in Bogota; and Wade Hutchings will join Marathon in Houston, Texas.

Bill continues to direct the Geology Foundation and work with UT Exes and the Advisory Council. This year he was reappointed to the National Petroleum Council by Secretary Richardson and remains active with the Gas Research Institute Advisory Council and several committees of the National Research Council and the National Academy of Engineering, where he was elected Section 11 liaison to the NRC in Geological Engineering.

PETER T. FLAWN, President Emeritus, continues

to serve on the Board of Southwest Research Institute and on several corporate boards. He is a member of The University Development Board, the Capital Campaign Leadership Council, and advisory councils to the College of Natural Sciences, the Geology Foundation, the Marine Science Institute, and The University of Texas Press. He is also a consultant to the O'Donnell Foundation. In this capacity, he is involved in the construction of the Advanced Computational Engineering and Sciences Building being constructed by the O'Donnell Foundation for the benefit of The University.

The summer of 1999 started off with his annual trip to Italia for **ROBERT L. FOLK**. This time, he traveled with Courtney Turich. Her parents came along for the first two weeks to check out Italy (and Sicily), and they all had a really wonderful time, except for the train line being struck by lightning North of Napoli. Some brave Italians risked death by standing in the middle of the track to halt another train; so they reboarded and were able to make it to Pompeii only a couple of hours late. Later on, the British Broadcasting Corporation spent seven hours filming Courtney and Bob doing experiments in the Viterbo hot springs. The

show, which is on the Discovery Channel under the subject of "Extraterrestrial Life," ultimately showed them for only five minutes of a one-hour program. Of course, they are still pushing the lower limits of "life" down to 0.05 microns, but fortunately a few brave microbiologists have indeed cultured organisms in this size range and have come over to the right side of the argument.

In August, there was a total eclipse of the sun in Bucharest, Romania, and having never seen one, they decided to go. Marge chose to take a pre-eclipse riverboat trip in Russia, from St. Petersburg via Kizhi and Yaroslavl to Zagorsk and

Microscope photos. Besides oolites, hot spring carbonates, and clay minerals, work continues on banded iron formations, jaspers, and the serpentinization process. Unfortunately, all these unresolved problems required further field work in bell'Italia. At the Geological Society of America meeting in Denver, he preached on the smallness of life in the human body, Earth, and Mars, obnoxiousing the biological community both there and in several Astrobiology meetings. In March, Bob and Marge went to a Southeast Section Geological Society of America meeting in Charleston, South Carolina, (sermon on nannobacterial precipitation of iron in modern rust to

what: Scanning Electron Microscope examination showed the diseased parts of her lens were all composed of little 0.1 micron balls—just like those we see in all sorts of rocks. Since they ZAP as Ca and the normal lens do not, this raises the possibility that human cataracts were caused by Ca-diagenesis of the lens driven by nannobacterial reactions. Think that's crazy? Maybe so, maybe not; but nannobacteria have been found in the human blood stream and probably are involved in arterial plaque, dental scum, kidney stones, etc.

This summer Marge is going with Bob to Viterbo, Sicilia, Vulcano, Taormina, etc. They hope for another great field season.

RICH KYLE reports a productive and rewarding year of teaching and research. He taught the undergraduate course on Texas geology and mineral resources and the graduate economic geology course in the fall semester. In the spring semester, he taught the Regional Studies in Mineral Resources geology course that culminated in a two-week trip to Peru. Colleagues Bill Chavez of New Mexico Tech and Erich Petersen of the University of Utah organized this great trip that provided an exceptional educational opportunity for three UT graduate students. Rich also taught the upper division mineral resources elective in the spring and took a combined undergraduate and graduate group on a spring break field trip to New Mexico and West Texas.

Rich and his graduate students continue to conduct research on diverse topics within the broad field of economic geology. Amy Gilmer and Jenny Head are working the silver and copper deposits in the Shafter area of Presidio County. After many years of having research projects around the world, Rich is now supervising three active students who are all working on projects in Texas!

He traveled to Bath, England, in May for a presentation on the Frasch sulfur deposits and industry of the Gulf Coast, followed in quick order by a three-week visit to China, mostly in Xinjiang, related to possible future research projects. He will host his Chinese colleagues for a return visit in August to examine the geology and ore deposits of the southwestern United States.

During the first session of summer school, Rich also taught Physical Geology. Linda published *The Writer's Friend*, as well as fitness and health articles in several countries. Brett advances to his senior year at Connally High School, while Brock prepares for his final year at UT.

Last year was typically stable for **LEON LONG**, who continued as he had done for many years. In the fall semester, he co-taught the introductory high-enrollment course with Libby Stern and teamed on the same course with Steve Grand in the spring semester. Apparently, the Department of Geological Sciences is unique in the very high extent to

*Some brave Italians risked death
by standing in the middle of the track to halt
another train; so they reboarded and were able
to make it to Pompeii only a couple of hours late.*

Moscow, and they really enjoyed Russia. People were very nice, architecture was fabulous, food was good, and chicks were cute. In Bucharest, high morning clouds fortunately cleared just in time for totality, with the corona casting a sinister light. Certainly, the astronomical thrill of a lifetime.

Back at UT, Bob continues to grind out hundreds of Scanning Electron

Archean hematites); they did the lovely sights and great food there as well as in Savannah, Georgia—both very enjoyable cities.

Steve Mann, Bob's graduate student, got a new job with a large environmental firm and will be moving Jenny and three kids from Tuscaloosa to Birmingham, Alabama. It will be quite a change for them. Marge had a cataract out—and guess

which we team-teach our courses whether introductory, upper-division, or graduate, and whether in the classroom or in the field. Team-teaching is a wonderful, natural way for the faculty mutually to mentor one another. Leon also taught the graduate course in isotope geology, and the field course for non-majors with its excited and enthusiastic students.

As Leon continued to be the Department's undergraduate advisor, he worked with students having special problems or requests and counseled those who were thinking about declaring a major in geological sciences. Our Department's population of about 170 undergraduates is the nation's largest, and a prominent task was for Leon and his advisory committee to appropriate about \$150K of scholarship money, mostly from the Geology Foundation, benefiting nearly half of the students.

At last, the lecture and lab material are combined, and the graphics contain color in the latest revision of Leon's textbook, *Geology*. Only one more chapter remains to be rewritten! Leon continues to prepare papers for publication of research, to attend meetings, and to travel. Last summer, he and Mary wandered nostalgically through Great Britain where they had lived in the early 1960's, visiting old friends and field localities in the Highlands of Scotland. It was spooky to discover that a formerly barren mountain slope now supports a mature forest.

ERNIE LUNDELIUS is staying busy in retirement. The work on Australian Pleistocene faunas and the updating and extending of FAUNMAP, the database on North American mammals, continue. He is also involved, with many others, in the revision of a volume on the biostratigraphy and biochronology of North American mammals. Watching his grandchildren grow and ask good questions such as "Why did all the dinosaurs die?" is very entertaining and satisfying. That is the only indication so far that any of them wants to be vertebrate paleontologists! Lots to do!

In the fall semester, **EARLE MCBRIDE** taught his graduate course, Petrology of Sandstones, in addition to the upper-division elective course, Sedimentology. The Sedimentology course has a "substantial writing component," for which students are required to write five or more short reports in which English is evaluated in addition to geologic issues. All students communicate effectively verbally, but some have great difficulty with the written word.

The Geological Society of America meeting, held in Denver, Colorado, provided a break during the fall. Earle attended two field trips, one of which included a visit to the spectacular fossiliferous lake deposits of the Florissant Formation. On the Sunday of the GSA meeting, a special History of Geology session was a remembrance of

Francis Pettijohn, who died in the fall of 1999. Pettijohn was Earle's Ph.D. supervisor at Johns Hopkins University, so this event was particularly significant to Earle. The event was a chance to share anecdotes and remembrances of one of sedimentary geology's great leaders.

This past semester, Earle team-taught his usual spring courses: Introductory Field Methods (with Mark Helper) and Sedimentary Geology (with Brenda Kirkland). Finding safe outcrops suited for groups of 55 students, four teaching assistants, and Earle is no easy task. Also in the spring, Earle served on the committee searching for a new assistant professor in carbonate sedimentology. A planned trip to a sedimentary geology conference in Argentina was cancelled when all field trips of interest to Earle were cancelled.

Two weeks of the summer senior field course in New Mexico and Colorado started off the summer for Earle. At the completion of Earle's participation in the field course in Durango, Colorado, Donna and two grandsons dropped in for several days of exploring, fishing, and hiking. Later in the summer, Earle and long-time collaborator Duke Picard sampled stream and beach sands of a part of Alaska. A trip down the Grand Canyon late in the summer was both productive and enjoyable.

Microbeam imaging and analysis still keep **KITTY MILLIKEN** busy. Both of the

Department's electron microbeam instruments continue to attract users from across a wide range of geological interests. One of this year's challenges has been figuring out how to store and archive the growing mass of digital imaging data collected in the labs. In projects with Earle McBride, Ph.D. student Astrid Makowitz, and colleagues at the Bureau of Economic Geology, Kitty continues her research on the trace element chemistry of authigenic carbonates and on the applications of cathodoluminescence to sandstone diagenesis. Kitty reports that Steve continues to enjoy his work with the Underground Storage Section of the Texas Railroad Commission. Katy (15) still enjoys making naughty horses behave themselves. Her mother is pleased to work with things, like microprobes, that do not buck, kick, or bite.

BILL MUEHLBERGER received the NASA Public Service Medal and Honorary Membership in the Austin Geological Society this past year. "Guess if you hang around long enough," says Bill, "they will reward you!" The National Aeronautics and Space Administration connection still continues for Bill with lectures to Shuttle crews before they fly and in continuing to assemble CD modules for astronaut training. Results of some of these projects can be found on the Web at eol.jsc.nasa.gov.

Travels continue apace: Geological Society of America

meeting in Denver, Colorado, last fall with both talks and poster sessions concerning new opportunities for earth science research and education with the International Space Station; Lunar and Planetary Science Conference in Houston, Texas; and family and Scripps College reunions, Scottsdale, Arizona. Bill co-led a Smithsonian Hiking Adventure to Big Bend National Park, attended the American Association of

As reported before, **AMOS SALVADOR** continues to work in two main areas: stratigraphy and the estimation of the consumption and possible sources of supply of energy during the 21st century. In stratigraphy, he continued to coordinate the efforts of a working group of the International Subcommittee on Stratigraphic Classification, attempting to clearly define some of the concepts and terminology of

Also in the field of stratigraphy, an abridged version of the *International Stratigraphic Guide* (1994) co-authored with Michael A. Murphy was published in the December 1999 issue of *Episodes*, the IUGS journal. Preparation of this abridged *Guide* was in response to persistent demands to make the basic recommendations of the full *Guide* on stratigraphic classification, terminology, and usage, now

hydrates, and gas in geopressured reservoirs) and on oil shales. He is now working on the section on coal, undoubtedly the most difficult part of the study.

This past year was fruitful for **JACK SHARP**. He was awarded a 1999 AT&T Industrial Ecology Faculty Fellowship, and he wants to brag about his wife, Carol, who was teacher of the year at Forest Trail Elementary School. Jack continued as editor of *Environmental and Engineering Geoscience* and was appointed as chair of the “mysterious” Geological Society of America (GSA) Committee on Committees. He also served on several other committees for the Geological Society, American Institute of Hydrology (AIH) and the International Association of Hydrogeologists (IAH), including program committees for international meetings in Australia and Germany. Jack is in his final year as Vice President of the IAH. The National Research Council (WIPP) interim report is out, but the committee is still overseeing the waste emplacement.

Also, at the Geological Society of America and at the National Ground Water Association annual meetings, Jack convened sessions on urban hydrogeology that appear to have been well received. Travel overseas included a trip to Australia to attend the Water 99 conference in Brisbane and meet with Aussie colleagues in Adelaide on several projects. In January, he and Phil



Photograph is taken March 6, 2000, during the Awards Ceremony at Johnson Space Center. The plaque held by Bill Muehlberger is the NASA Public Service Medal given “in recognition of his exceptional contributions to NASA’s Earth Observations from Human Spaceflight and Astronaut training in the Earth Sciences,” signed by Daniel S. Goldin, Administrator, National Aeronautics Space Administration. From right to left are George W. S. Abbey, Director, Johnson Space Center; Sally Muehlberger; Bill Muehlberger; and John Young, Deputy Director (Technical), Johnson Space Center. Photo provided by NASA.

Both John Young and Bill Muehlberger have been interviewed live over the Internet (with a live chat room!) on an hour-long program. (During his years as an astronaut, he was launched into space more times than any other human being: twice during the Gemini Program, twice to the Moon during Apollo, and twice in the Space Shuttle. He commanded the first shuttle mission.) To replay these or other programs in the series, get on the Internet and type in “spacewatch.com,” click on “Mission Control, Over” (name of the series), find the program of interest, click, and watch and hear the interview!

Petroleum Geologists meeting in New Orleans, Louisiana, participated in the Solitario field trip, and made two cruises—a Tahiti cruise followed by five days on Bora Bora (in an over-the-water thatched roof house, and a southern France cruise in July. “What a life!” Bill writes. “Should have done it earlier.”

sequence stratigraphy. A draft of a “Review of the concept and recommended terminology for unconformity-related units” was submitted to the membership of the Subcommittee for their comments. On the basis of the response, the review will be revised as necessary and submitted for publication.

widely accepted and used worldwide, available at a lower cost. Covered reprints of the abridged version of the *Guide* are now available at \$5.00 U.S. In the energy project, Amos completed the sections on “unconventional” gas (coalbed methane, gas in “tight sands” and in “organic black shales,” gas

Bennett traveled to Egypt. They had a fascinating time looking at water chemistry in shallow aquifers in the Nile Delta.

Being accompanied by armed guards was an unusual experience. Several Egyptian colleagues from Tanta University will join them for a week or two next September to continue the project. While in Cairo, Jack met Fifi Abdul, the famous belly dancer. His Arabic, however, is very rudimentary. Several foreign colleagues were able to spend extended time with the physical hydrogeology research group. They were Neville Robinson from CSIRO (Adelaide), Craig Simmons (Flinders University, Adelaide), and Glenn Ledder (Department of Mathematics, University of Nebraska). These foreign scientists have greatly enhanced our programs.

On the publications front, the highlight for Jack was the appearance of the article with Jay Banner, titled "The Edwards Aquifer: Water for Thirsty Texans," published in Jill Schneiderman's book, *Geology's Gaze: Paths to Sustainable Existence*. Just to be in the same volume with John McPhee was a real thrill. Also, the republication of the 1987 article with John LaFave on the springs at Balmorhea in the *West Texas Geological Society Bulletin* was a pleasant surprise.

Work continues on fracture skins, free thermal convection, fractured rock characterization, urban hydrogeology, sustainability issues, and the hydrogeology

of Trans-Pecos Texas. Jack and his colleagues also gave 20 presentations (seven with published abstracts) at local, national, and international meetings.

This past year, two Ph.D's have finished (George Tsoflias and Todd Halihan), and two M.S. students have finished (James Bene and Kaveh Khorzad). Two other Ph.D. and three M.S. candidates are making finishing noises. All nine have found employment or have employment lined up after graduation! This will reduce the student load to single digits. Finally, he was also pleased to see two hydrogeology undergraduates present posters at regional meetings. They were Barbara Lorenzo-Rigney and Marcus Gary.

On the downside, Jack blew out his knee again playing handball (for the last time says the orthopedic doctor), and what was the best duck hunting spot in North America is becoming part of one of Austin's sprouting subdivisions! Who says progress is good?

On the upside, daughter Katie is now working for the Institute for Geophysics at the University of Alaska; son David is learning auto mechanics; daughter Susan is taking ballet 10 hours a week; and friends and colleagues keep him semi-busy hunting, fishing, and going to the theater and football games. Jack and Carol also took a year-long bible study class that was educational and has provided them a repertoire of superb biblical quotations!

JIM SPRINKLE had a fairly normal year, with one major trip overseas. The trip was to attend a five-day International Symposium on the Ordovician System in Prague, Czech Republic, in late June and early July, 1999. Jim presented a paper with American and Russian colleagues on a correlation anomaly discovered on their visit to Russia in 1997, and then went on a five-day post-meeting field trip through the classic Barrandian section (Middle Cambrian to Early Devonian) in the Bohemian countryside southwest of Prague. He also got to visit several medieval castles, early Christian churches, and the famous Narodni Natural History Museum in Prague, where he got to examine the original type specimens of

many of the echinoderms he had studied using a collection of latex casts in the late 1960's.

During the rest of the year, Jim had a full teaching load fall and spring semesters with GEO 422K, Paleobiology, (a writing-component course for 36 majors) and GEO 391S, Current Topics in Paleobiology (seven graduate students) in the fall, plus GEO 404C, Plate Tectonics and Earth History (55 freshmen and non-geology majors) and GEO 383K, Paleoecology (five graduate students) in the spring.

Jim also made two trips to Rockford, Illinois, in July and December to work with coauthor Tom Guensburg, a trip to Cincinnati, Ohio, during spring vacation to work on several papers with



International Geological Congress in Mexico City in 1956 (first row, unidentified person, Bob Folk, and P. Twiss) (second row, unidentified person, D. Winston, unidentified person, R. Grant, and unidentified person). Photo provided by Bob Folk.

museum curator (and former graduate student) Colin Sumrall, and he had a productive week of field work with Guensburg out in western Utah in June.

These visits resulted in a coauthored talk (by Tom) at the Geological Society of America meeting in Denver, Colorado, in October, and a joint poster session sent to the International Echinoderm Conference held in Dunedin, New Zealand, in February. During the year, Jim also published two symposium chapters and two research papers with other authors, making this a very productive academic year.

LIBBY STERN arrived in the Department during fall semester 1998. She is a geochemist specializing in

stable isotopes who has inherited the facility established by Lynton Land. She applies the isotope tracers to understand terrestrial processes in the present and past.

This winter, Libby went to southern Patagonia with a colleague from Potsdam University (Germany) to conduct a research project on the Neogene tectonic and climatic history of this region. The terrestrial sedimentary rocks in the eastern foreland basin are difficult to find in good exposure, but once located, they were spectacular. She hopes to obtain a record of mountain uplift from these sediments by using oxygen isotope ratios as a proxy for climate.

Libby enjoyed co-teaching introduction to geology with Leon Long, who is a

great mentor to her but a hard act to follow with such an audience of critics. She also developed a new course in global biogeochemical cycles, one that focuses on both perturbations to the earth system throughout geologic time and human-induced changes of the atmosphere and hydrosphere. Libby and Jay Banner created a Department outreach lecture series (highlighted elsewhere in this *Newsletter*).

CLARK WILSON and family returned to Austin at the end of summer 1999, after their three-year tour in Washington, D.C., where Clark served as geodynamics program scientist at NASA Headquarters. “I jumped back into teaching,” he writes, “in the fall semester with exploration geophysics and data processing courses, but I found time to travel to a conference in Sardinia in September, as well as to the more typical destinations of Houston, for the Society of Exploration Geophysicists meeting, and to San Francisco for the American Geophysical Union meeting. My spring semester teaching was ‘Geophysics for Geology Majors,’ compressing both global and exploration geophysics topics into a single course.

“Travels included two trips to Washington, D.C., one to NASA’s Jet Propulsion Lab in California, plus a week in Nice, France, at the European Geophysical Society meeting. Summer 2000 will be busy working with visitors from Portugal

and China. Driving our children to their activities has cut into my ability to commute by bicycle as regularly as I used to, but I still manage about two days a week.”

“The other day,” **JOHN WILSON** reports, “I was with some students who inquired, ‘What do you do during retirement?’ I thought for a bit and said, ‘Some of the yard work, some of the housework, go get the mail, and get the paper.’ They persisted: ‘But what do you do?’ I thought a bit more and replied: ‘In the mid-eighties it became easier and easier to do nothing.’ That is only partly true.”

This year, Jack did go to the Society of Vertebrate Paleontology meeting in Denver. It was good to see some old friends, old students, and to catch up on what is going on. In late October and early November, Wann Langston invited Jack to go to Big Bend and help collect a big crocodile.

He grabbed at the chance to get back to the field. They reopened an old quarry and dug out disarticulated vertebrae, limb-bones, and parts of a skull. It was good to sit in the pit and move dirt and chip rock. The getting-up out of the pit, however, was more difficult, and the blocks were heavier than he had remembered. His 85th birthday came along while they were there. He felt mighty lucky to be able to get out in West Texas for that one. ❖



Twentieth Geological Congress General Sessions in Mexico City in 1956. Identified individuals are Andy Ireland, Samuel P. Ellison, Jr., William R. Muehlberger, and Keith Young (all on fourth row from front). Photo provided by Keith Young.

Exploration Geophysics Initiative

The momentum is building. Laboratories are becoming a reality, and additional students are joining the program. Even after this successful first year, we can mimic the football coach and say—wait until next year.

The “Exploration Geophysics Initiative,” established by the Geology Foundation, is progressing, and momentum is building. Dr. R. H. Tatham joined the faculty in the fall term, and several new graduate students will be joining the Department to focus their studies on exploration geophysical technology. The new initiative will center on the creation of a major work station teaching facility connected with a high-speed network to a large file server.

A major symposium with the theme “The Future of Exploration Geophysics: Meeting the Needs of Industry and Academia” was hosted by the Department in December of 1999. Some 16 producing and contracting companies participated, and a direction for industry participation in the Exploration Geophysics program was defined. A clear focus on education in the fundamentals was emphasized. A need for exposure to data acquisition techniques in the field and internship opportunities was stressed for all students.

The symposium also allowed participants to honor Professor Milo Backus and

his work in establishing the reputation of UT in exploration geophysics. The present Exploration Geophysics Initiative will build on the foundation he and his students established.

As a direct result of this symposium, a proposal for the “Forum for Exploration and Development Geophysical Education and Research” was developed and has been presented to members of the industry. Besides soliciting direction for educational and research activities from the potential employers of many of the program’s graduates, the forum will provide funding for educational activities supporting field acquisition and internship opportunities for students, as well as focused student and faculty research activities defined by forum members. Although research is a significant element of the forum activities, the accountability of the faculty and students to the forum sponsors places educational results ahead of actual research results. This forum funding will enhance scholarship, fellowship, and TA support provided by the Foundation and Department and also





awarded the Exploration Geophysics Fellowship, and two more students with a focus on seismic activities will be joining the Department. We also anticipate active use of the 3-D Seismic Interpretation Laboratory by “Soft-Rock” geology students focusing on stratigraphy, sequence analysis, and

basin depositional systems, as well as Petroleum Engineering.

The momentum is building. The Laboratory is becoming a reality and additional students are joining the program. Even after this successful first year, we can mimic the football coach and say—wait until next year. ❖

provide a source of funding for student travel to field experiences.

In the area of equipment development, a 3-D seismic interpretation laboratory is becoming a reality and will be operating as part of the fall 2000 curriculum. Machines are on order, and software is being acquired from industry representatives. The laboratory will consist of six dual-head interpretive workstations linked by a high-speed Ethernet and even faster Storage Area Network. This will allow students to randomly access large 3-D seismic data volumes in just a few minutes and perform a variety of laboratory exercises on data sets donated by industry. Further, the first high-end research workstation for quantitative analysis of data, as well as interpretation, is now on site.

This laboratory will allow undergraduate and graduate students in Geophysics, structural geology, soft-rock geology, and Petroleum Engineering all to work on the same data sets and share their experiences in a multidisciplinary setting. For the fall term, our first choice in graduate students was



ABOVE: Ron Bain (Anadarko Petroleum) (left) and Bob Hardage (Bureau of Economic Geology and Director of Exploration Geophysics Lab) (right) at the symposium.

TOP CENTER: (Left to right) Professor Milo Backus (Honoree), Dr. Thomas Barrow (Keynote Speaker, Geology Foundation Advisory Council), Bob Tatham (Symposium Organizer), and Dr. Tracy Stark (ARCO, past student of Professor Backus) discuss opening of the symposium.

UPPER LEFT: Dr. John Riola (Texaco Exploration) presenting concepts on risk evaluation to participants attending the symposium.

LOWER LEFT: Tom Miskelly (Graduate Student) (left) and Dr. Brian Barley (BP Amoco) (right) discussing vision of the Department's Exploration Geophysics program.

FLINDERS UNIVERSITY— THE UNIVERSITY OF TEXAS AT AUSTIN HYDROLOGICAL EXCHANGE PROGRAM

BY JACK

During the past academic year, a hydrogeological exchange program began between The University of Texas at Austin and Flinders University of Adelaide, Australia. The two schools have been cooperating informally since 1994, when Jack Sharp was a visiting scientist at the Commonwealth Scientific and Industrial Research Organisation (CSIRO) Department of Water Resources on a six-month faculty research leave.

Jack has returned for two short visits since, and recent UT graduate, Todd Halihan (Ph.D., 2000), spent 11 months in Adelaide as a scientist at CSIRO and a lecturer at Flinders. Phil Bennett also visited Adelaide and Flinders/CSIRO on his Darcy lecture tour. Craig Simmons is the primary faculty contact in the hydrogeology program at Flinders. Craig has had two extended stays at UT, first as a graduate student and then after his faculty appointment at Flinders. Other Adelaidian Aussies who have visited our Department since 1994 include Neville Robinson (CSIRO Division of Mathematics and Information Sciences, who has worked with Jack and Gary Kocurek), Peter Cook (CSIRO who was external examiner on Todd Halihan's Ph.D. study and who is collaborating on research projects with Bridget Scanlon of the UT Bureau of Economic Geology and Jack's students), Fred Leaney (CSIRO, who gave an Oliver lecture on isotopic methods in hydrogeology), Andrew Love (PIRSA, this is a counterpart of the Bureau), Tom Wilson (a Flinders undergraduate student working with Halihan and Simmons), and C. R. (Rowley) Twidale (the eminent geomorphologist from the University of Adelaide).

A highlight of this cooperation between the hydrogeology groups at Flinders University and The University of Texas at Austin was the first GSA International Internet Symposium at the 1998 Annual Meeting of the Geological Society of America, entitled "Understanding Ground Water in Arid and Semi-Arid Environments of North America and Australia." This was the brainchild of Todd Halihan and Craig Simmons. A follow-up is being planned for the 2000 GSA annual meeting. A report of the first meeting, its successes, and its failures can be found in: Halihan, T. (Ph.D., 2000), Simmons, C.,

Sharp, J., Jr., Uliana, M. (M.A., 1995, and present Ph.D. student), and Fenstemaker, T. (B.S., 1994, M.S., 2000), 1999, *GSA International Internet Symposium: An Experiment in Scientific Communication: GSA Today*, v. 9, p. 9-10.

Now we shall also exchange students at the undergraduate student level. The exchange students will be given the opportunity to observe different teaching styles and philosophies, see different field settings, and experience new cultures, which will help these students to mature as scientists. We believe that the participating students will be immeasurably richer, and we hope to see more students coming back with those Flinders sweatshirts that have the motto "Have brain, will travel."

Austin and Adelaide are sister cities, and there have been numerous attempts to stimulate interchange of ideas, programs, and business promotions. We think this scientific exchange has been one of the most successful to date. Following is the news item, prepared by Dr. Simmons at Flinders University, demonstrating how some of our Australian visitors have appreciated the culture of Texas, Austin, and The University of Texas at Austin.



New International Exchange in Hydrogeology between Flinders University of South Australia and The University of Texas at Austin Gets Under Way

(Modified from an article by Craig Simmons, Flinders University, which appeared in Centre for Groundwater Studies Bulletin No. 17, March 2000.)

M. SHARP

An international exchange program in hydrogeology has been established between the Earth Sciences Department at Flinders University of South Australia and the Department of Geological Sciences at The University of Texas at Austin, one of Adelaide's sister cities. The program has been designed and established by Dr. Craig Simmons at Flinders University and Professor John M. Sharp Jr., Chevron Centennial Professor of Geology at The University of Texas at Austin, who are the Program Coordinators. This represents an excellent opportunity for both universities with students at both undergraduate and postgraduate levels being able to undertake parts of their hydrogeology degree overseas and receive full status for their studies abroad at their home universities.

The University of Texas at Austin is a major research university that is home to 48,000 students, 2,700 faculty, and 17,000 staff members. The Department of Geological Sciences is a world leader with a strong international reputation in geological research, and its hydrogeology program is one of the very best in

North America. The Department has over 40 professors and affiliated scientists in the geosciences.

The program is well under way. The first student to visit Austin under the new program is Amber Inwood, a third-year hydrogeology student from Flinders University who is scheduled to arrive in Austin in 2000. The Texans have returned the compliment with John Larkin, a third-year hydrogeology student, set to arrive at Flinders for six months starting in July of 2000.

We trust this is only the beginning of what promises to be an excellent exchange program with The University of Texas at Austin. The opportunity to study abroad represents not only an excellent educational experience for students but also an opportunity to experience many of Austin's other offerings such as fine Texan barbecue, endless Tex-Mex food and margaritas, the wonderful views of Lake Travis at the Oasis Bar, Barton Springs (a natural discharge from the karstic Edwards Aquifer that is the most popular swimming hole in the city), the Longhorns, and the scenic countryside just out of Austin and throughout Texas. ❖



LEFT: Bob Folk slides down the slip face of a large dune in Monahans State Park, Texas. "At the time of our visit in 1961, we were able to make the sand generate a loud rumbling sound by starting large avalanches of sand at the dune crest," says Earle McBride. Color streaks on the slip face are the product of recent avalanches. Photo provided by Earle F. McBride.

FAR LEFT: Flutings carved in Cretaceous limestone by windblown sand. Marks on the hammer are 5 cm apart. Road is between Assiut and Kharga, Western Desert, Egypt. Photo provided by Earle F. McBride.

Department Begins a New Outreach Lecture Series



by Jay L. Banner and Libby A. Stern

A number of faculty members and graduate students in the Department of Geological Sciences visit area public schools to lecture about their research and general geology, and all find this a useful and rewarding experience. We have recently begun a unique outreach program in the Department that is centered around an Earth science lecture series. The motivation for starting an outreach lecture series was to create a means to reach many teachers and students—as well as the general public—in one venue about the kind of research going on in the Department. The lectures are given once per month by a faculty member and

are targeted at the public in general and K-12 science teachers in particular.

In order to enable the participating teachers to use the content of the lectures in their own classrooms, we provide each teacher attending (from public, private, and home schools) with a CD-ROM that contains all of the lecture materials. The lectures combine the latest Earth science technology (e.g., space-based Earth observations), the latest scientific theories and research results (e.g., dinosaur extinction theories), and basic scientific principles (e.g., plate tectonic theory). This outreach program also includes opportunities for interaction between the

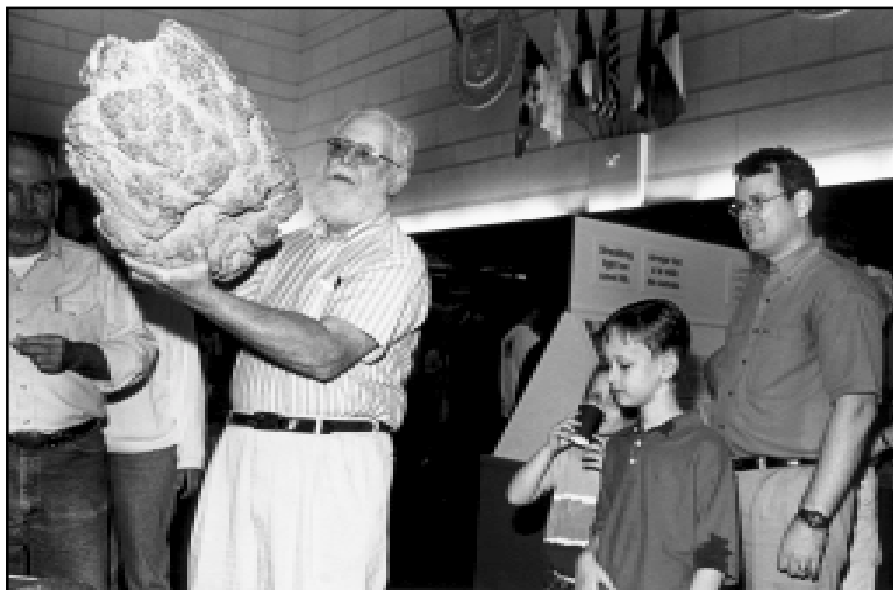
lecture attendees and Geological Sciences faculty and students, by providing hands-on laboratory tours (e.g., Computed X-ray tomography laboratory), guided tours by UT faculty of maps and other exhibits in the Geology Building and the Texas Memorial Museum, and hands-on displays of rock and fossil research collections.

We did not properly anticipate how popular this program would be and scheduled the first lecture by Tim Rowe in the Geology Building's largest lecture hall, room 100, which has a seating capacity of 290. Approximately 500 people came for this lecture. Tim Rowe handled

the hoards of people crowding the floor at his feet with amazing poise and kicked off this series with an inspiring talk on dinosaur extinction theories. Subsequent lectures were held in a larger auditorium in Welch Hall, but the popularity of this program has continued with more than 600 people subscribing to our electronic *Newsletter*. This year's program has included the following lectures:

- November 19, 1999: Dr. Timothy B. Rowe, "What Happened to the Dinosaurs?"
- January 28, 2000: Dr. William Muehlberger, "Studying the Earth from Manned Spacecraft"
- February 25, 2000: Dr. Daniel Barker, "Volcanoes: Killers and Creators"
- March 24, 2000, Dr. Richard Kyle, "The Geologic History of Texas"
- May 5, 2000, Dr. Mark Helper, "True Gems: Origins and Identification."

We plan to expand the scope of this lecture series next academic year to include other natural sciences. The lecture series was launched with funds from the College of Natural Sciences and the Geology Foundation. We hope to continue the program through funding from other agencies. For more information, and to subscribe to our electronic monthly *Newsletter*, visit www.ge.utexas.edu/outreach/lectures. ❖



The motivation for starting an outreach lecture series was to create a means to reach many teachers and students—as well as the general public—in one venue about the kind of research going on in the Department.

PREVIOUS PAGE: There was not an empty seat nor empty spot on the floor in GEO 100 for Tim Rowe's (left center in front) outreach lecture on "What Happened to the Dinosaurs?" Jay Banner is pictured on right center in front.

LEFT, UPPER TO LOWER:

At the post-lecture reception at the Texas Memorial Museum, Rich Kyle (left) answers many questions posed after his comprehensive talk on the geologic history of Texas.

Mark Helper (right) explains the structure of quartz to a visitor following his outreach lecture on gems.

Greg Thompson (right) discusses gem faceting before Mark Helper's outreach lecture.

William Muehlberger wowed the audience with a lecture based on images of the earth acquired by the Space Shuttle astronauts.

IMMEDIATE LEFT: After his outreach lecture on volcanoes, Professor Emeritus Daniel Barker (third from left) demonstrates his new-found strength gained in his recent post-retirement exercise regime (or is that just pumice?).



This spring marked the first field exchange between The University of Texas at Austin and the University of Western Australia (UWA). Chris Powell and Annette George of UWA brought 17 students to the States to join a field excursion across the southwestern United States with Sharon Mosher

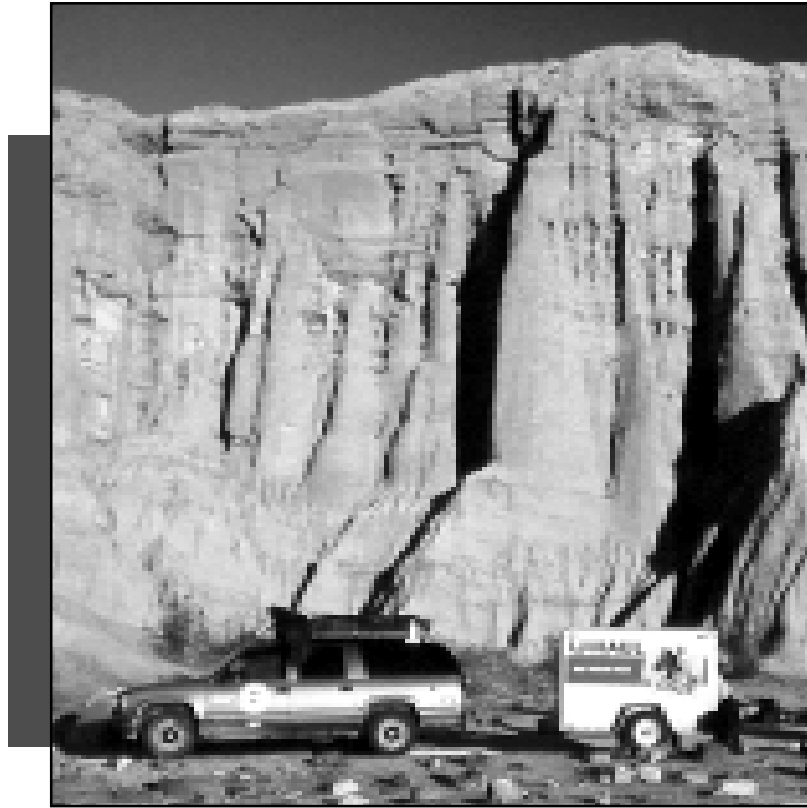
and eight UT Austin students. The group met in Albuquerque, New Mexico, in mid-March and ended up in Los Angeles, California, three weeks later. Although the trip did not focus on any specific discipline, all stops were put into a tectonic framework, giving students an excellent introduction into the tectonic evolution of the southwestern United States. Students at both universities led a seminar discussion and prepared a research paper on one location prior to the trip and gave a presentation in the field at the appropriate stop.

We began the trip in New Mexico looking at recent tectonism with a tour of the northern Rio Grande rift, the Taos Plateau, and the Valles caldera. We also looked at Proterozoic tectonism during a hike through Rattlesnake canyon in the Picuris Mountains, where metasedimentary rocks show evidence of polyphase deformation and high-grade metamorphism. A freshly fallen blanket of snow added to the excitement, as many students hadn't seen snow before. On the cultural side, while camping at Bandelier National Monument, we spent a tourist morning at the Indian ruins in the Bandelier tuff, and a spring blizzard one evening brought us into Los Alamos for the Australians' first Mexican food.

Next, we drove across part of the Colorado Plateau, looking at eolian sandstones, monoclines, and landforms, with brief stops at the Painted Desert, Petrified National Forest, and Meteor (impact) Crater. Two days were spent at the Grand Canyon—again in nearly a foot of snow. It was so cold that hot water froze on the dishes as they were dried! No one was deterred, however, and everyone was truly awed by the grandeur of the Grand Canyon. The relationship between the sedimentary sequences and the tectonic evolution of the southwestern U.S. was discussed, along with the timing of Colorado Plateau uplift. A drive through the same sequence in Owl Creek Canyon to Sedona, Arizona, gave us a chance to see the rocks in more detail.

After that, we explored Quaternary volcanism, at Sunset Crater in the San Francisco volcanic field, exhalative massive sulfide deposits in the Proterozoic near Jerome, and porphyry copper deposits during an excellent tour of the Ray mine, just east of Phoenix provided by Bob Williamson of ASARCO. Eric Force, recently retired from the U.S. Geological Survey, gave us a great introduction to Tertiary metamorphic core complexes in the Catalina Mountains, outside of Tucson. To complement this, Jon Spencer of the Arizona Geological Survey took us through the Buckskin/Rawhide Mountains in western Arizona, showing us spectacular detachment surfaces and upper plate

THE UNIVERSITY UNIVERSITY OF



... EVERYONE WAS TRULY AWED BY THE

deformation. We also explored the older Mesozoic deformation near Quartzite, Arizona, where it was not disrupted by the later Tertiary extension. To do so, we spent a day in the northern Dome Rock Mountains (UT Austin alum Stefan Boettcher's Ph.D. area) looking at regional-scale sheath folding and polyphase deformation of the Grand Canyon sequence that we had just seen as flat-lying beds in the Grand Canyon. The Australians felt much more at home once we hit the desert, which brought out interesting comparisons to Australia. Although snowball fights were missed, the heat was appreciated.

After a day off in Las Vegas (another cultural experience?), the group continued into southern California. The leaders for this last week were Tanya Atwater and John Crowell. This part of the trip concentrated on recent tectonism caused by movement along the San Andreas Fault and Basin and Range extension. Death Valley and the Ridge Basin between the San Andreas

OF TEXAS AT AUSTIN— WESTERN AUSTRALIA EXCHANGE



BY SHARON MOSHER

GRANDEUR OF THE GRAND CANYON. . .

and San Gabriel faults were explored with stops at Marble Canyon, Dantes View, Badwater (deepest spot) Panamint Valley, and the Palmdale roadcut, etc. In addition, the group had a chance to look at the Franciscan *mélange* at San Simeon.

The exchange was a huge success—everyone learned a tremendous amount. Although I had been to most of the places before, it had always been for teaching or research on individual topics. This was the first time I had tried to piece all of these diverse elements into a cohesive tectonic framework, and it was very illuminating. Equally important in the success of this exchange were the strong friendships that formed between students from the two countries. We are all looking forward to the next University of Texas–University of Western Australia field exchange, which will take place in Western Australia, when UT Austin students make a reciprocal trip, hopefully next summer! ❖



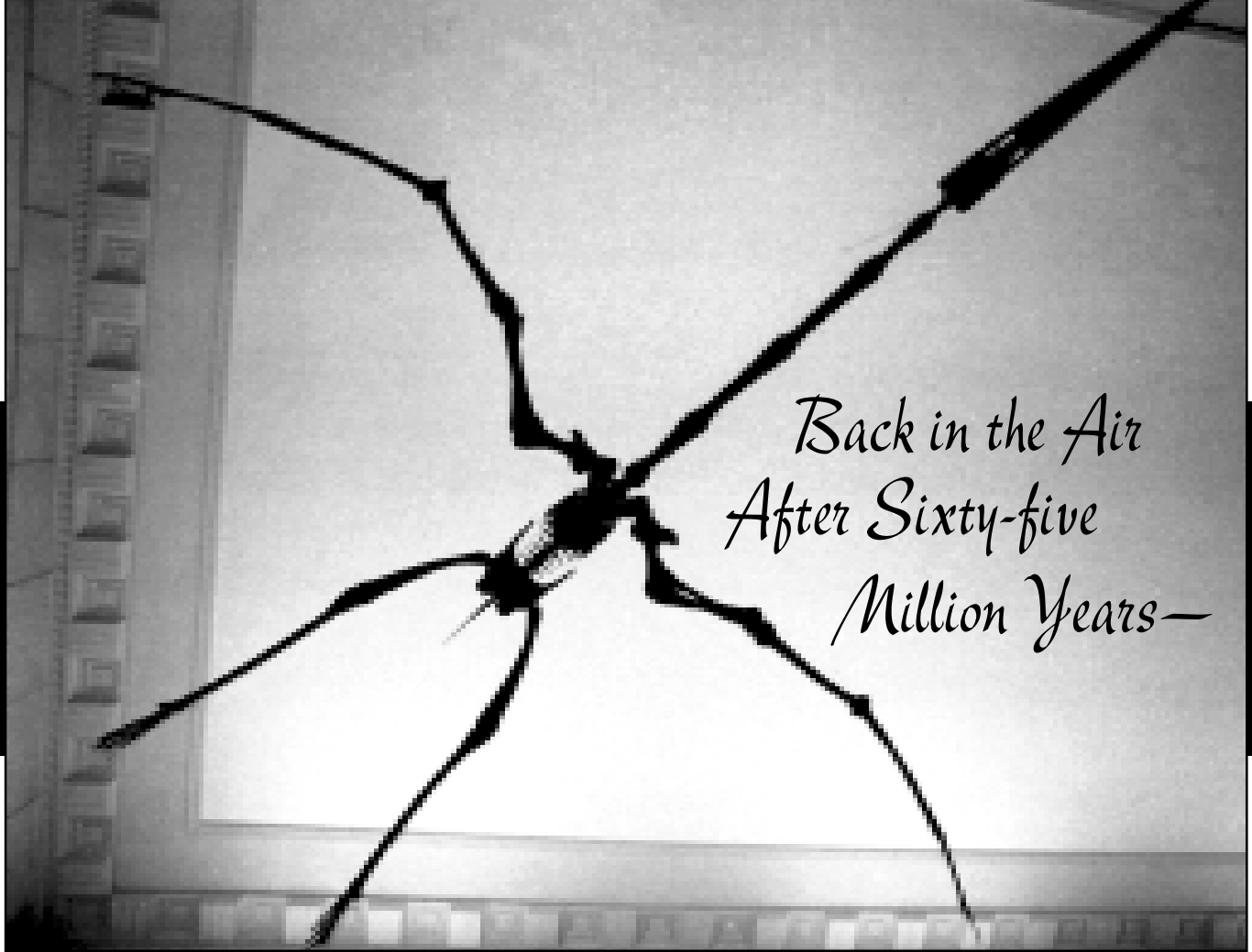
CENTER: Camping at Red Rock Campground, California.

UPPER RIGHT: Tilted beds and fault blocks in the Basin and Range province, Death Valley, California.

ABOVE: Australian and Texas students looking at structural relationships in the Catalina metamorphic core complex.

FAR LEFT: Berhane looking at consolidated alluvial deposits composed of marble boulders within a muddy matrix, Mosaic Canyon, Death Valley, California.

All photos provided by Sharon Mosher.



*Back in the Air
After Sixty-five
Million Years—*

Quetzalcoatlus Northropi, the World's Largest Flying Creature

— BY TIM ROWE —

On September 1, 1999, the Texas Memorial Museum held a gala opening to unveil the complete skeleton of the world's largest flying creature, *Quetzalcoatlus northropi*—a giant pterosaur that lived during the last days of the Mesozoic. This giant was discovered in Big Bend National Park in the 1970's by UT graduate student Douglas Lawson (M.A., 1972), who went on to earn a Ph.D. from the University of California at Berkeley. When he made the tremendous discovery, Dr. Lawson was studying vertebrate paleontology under the supervision of Dr. Wann Langston, Jr., one of Texas' pioneers of vertebrate paleontology.

It is hard to overestimate the importance of *Quetzalcoatlus*. It made newspapers all over the world, and with good reason. Widely regarded as one of the three most spectacular discoveries of the 20th century, it is comparable to the 1930's discovery of dinosaur eggs in Mongolia by Roy Chapman Andrews and the discovery of feathered dinosaur fossils in China that closed out the century.

In subsequent years, Dr. Langston and his other students found many specimens of a smaller pterosaur that closely resembled *Quetzalcoatlus*, and now virtually all parts of its skeleton are known. But *Quetzalcoatlus* itself remains rather enigmatic, being known only

from parts of the neck and wing. Thanks to the more complete smaller specimens, Dr. Langston was able to scale up and restore the missing parts of *Quetzalcoatlus*. This work took several years to accomplish, and it involved consultation with some of the world's leading authorities on scaling and aerodynamic engineering.

The next step was to sculpt the missing pieces, to make molds of all the parts of the skeleton, and finally to cast the complete skeleton in a tough, light material that could be mounted in life-posture and suspended. At this point Dr. Oscar Alcober stepped in to assist. Dr. Alcober was a visiting postdoctoral researcher in the Department and later



Collections Manager at the Vertebrate Paleontology Laboratory, before returning to his native Argentina after a three-year stay. An expert in casting and mounting fossils for exhibit, he was instrumental in getting *Quetzalcoatlus* off the ground.

Together with expert assistant Raul Gordillo, Dr. Alcober welded a steel frame, assembled the giant skeleton, painted it, and finally hung it from the ceiling of the Texas Memorial Museum. More than 300 dignitaries and special guests attended

the opening of the new exhibit, which also kicked off the 50th anniversary of the Vertebrate Paleontology Laboratory. Dr. Douglas Lawson returned to the UT campus to dedicate the new mount of the specimen. The National Geographic Society sent down a photographer to record the event and to take a portrait of *Quetzalcoatlus* for a forthcoming article on pterosaurs.

Following in our footsteps, museums at Texas Tech University in Lubbock, the Minneapolis Museum of Natural History, and the National Museum of Natural History in Mexico City have purchased replicas of *Quetzalcoatlus* for their exhibits. If you have a chance to see *Quetzalcoatlus* flying in any of those museums, just remember that it started here on the UT campus. ❖

OPPOSITE PAGE: A view from underneath *Quetzalcoatlus northropi*.

LEFT, TOP: Dr. Oscar Alcober inspecting the final positioning of the head of *Quetzalcoatlus northropi*.

LEFT, BOTTOM: The giant Texas pterosaur, *Quetzalcoatlus northropi*, suspended from the ceiling of the Main Hall in the Texas Memorial Museum. Dr. Oscar Alcober (on ladder in background) assembled and painted the specimen. The Cretaceous *Quetzalcoatlus* was the world's largest flying creature, with a wingspan of 40 feet.

All photos by Marsha Miller.

Jack Sharp Recognized as AT&T Industrial Ecology Faculty Fellow

This past year, Jack Sharp was recognized as one of six 1999 AT&T Industrial Ecology Faculty Fellows nationwide. This was awarded in recognition of his previous record of environmental studies and the promise of his current research initiative on urban hydrogeology. In this study, Jack and collaborating scientists, John Mather from the University of London, and UT grad student, Norm Hansen (B.S., 1998), are attempting to examine how the installation of utility systems (chiefly water and sewage distribution systems) alter the hydrogeology of an urban setting. Preliminary studies indicate that the permeability structure

can be dramatically altered, and it makes it difficult to predict or remediate groundwater contamination.

In addition, loss of water from water mains and sewage lines, beneath dwellings, and urban irrigation (lawn watering) can be sources of recharge. During recent droughts, they hypothesize that this recharge is a significant percentage of recharge to the Edwards aquifer. The Fellowship carries a stipend of \$25,000, which will be used for equipment, field expenses, travel, and computing supplies. In addition, Jack will receive a two-year subscription to the *Journal of Industrial Ecology*, which will be donated to the

Geology Library. Jack will be developing a graduate-senior seminar course on urban areas and hydrogeology for the spring 2001 semester.

The AT&T Foundation is the principal philanthropic arm of AT&T and its subsidiaries. Its major focus is on education, particularly in the information systems, science, and engineering. The Industrial Ecology Faculty Fellowship Program is intended to stimulate interdisciplinary research and curriculum development that involve social issues, engineering, the sciences, economics, management, business, law, and public policy issues. ❖

From Penguins to Plate Boundaries: Tales from Macquarie Island

by Sharon Mosher

*Macquarie Island is a
very interesting place.
The animals and plants
are as fascinating
as the geology.*



This past fall, I had a rare experience of doing fieldwork on Macquarie Island, which is located in the middle of the Southern Ocean, ~1200 km south of New Zealand, or about half-way between Antarctica and New Zealand (54°30'S). This island is a unique sliver of ocean floor along the Australia-Pacific transform plate boundary that has been uplifted in the last ~300,000 years as a result of shortening (transpression) across this boundary. The island, which is only 3-5 km wide and 34 km long, is a world heritage site because of its geology; it is home to 3-4 million penguins and ~100,000 elephant seals, which makes geological research quite challenging! A small research station allows 40 researchers, mainly biologists and botanists, access to this amazing island during the summer, and a very small complement of people stay the winter to keep the place going. Our field research is the result of collaboration with Mike Coffin at the Institute for Geophysics and is part of a larger marine geophysical investigation of the plate boundary south of New Zealand. We are studying how this plate boundary changed from a paleo-spreading center into a transform boundary during the last 40 million years. Accompanying me were two graduate students (Karah Wertz, UT Austin, and Nathan Daczko, University of Sydney, Ph.D. student of Keith Klepeis (UT Austin alum), who had the incredible experience of staying on Macquarie Island until late spring.

Getting to Macquarie Island is quite a challenge. Usually one ship comes in the fall, drops off scientists, and resupplies the island with the basic necessities. Another ship comes in the spring and picks up the scientists and their specimens. Other than that, a couple of tourist vessels come by the island to view penguins, and if weather permits, tourists take a dinghy to the base for an hour visit. For our trip, an emergency in Antarctica at the last minute kept our ship from making the journey. So, after field training in Tasmania, we were faced with weeks to a month of delay. Fortunately, the Australian Antarctic Division, which was sponsoring all the research, quickly hired a Russian icebreaker to take everyone to Macquarie on the way to Antarctica. This caused some concern, however, as I and several other scientists were only planning on staying on the island for the resupply time and returning to Hobart, Tasmania, on the ship, not on staying until April like my students and the other scientists were. We were told that if all went well, a Russian tourist ship could take us out in about two weeks! This was good news, assuming I could get off, because I would have extra time to explore the island and get my students started. Unfortunately, all the rapid changes in plans left Mike Coffin, who was to join us, on the opposite side of the world with no way to make it to the dock on time.

The geology is fascinating, and much of the topography is preserved from the ocean floor, including conical shaped sea-



mounts with pillows showing flow down all sides and talus deposits off oceanic fault scarps. The rocks include ultramafics, gabbros, and sheeted dikes, but most of the island consists of lavas, mainly pillow lavas, with rare sedimentary layers. We were most interested in the faulting, and the entire spectrum from oceanic faults related to rifting and crust formation to those related to uplift, and the current transform boundary are exposed. Most of the island is a plateau, about 100-350m in elevation that on the top preserves ancient beaches, bogs, and penguin bones from when the island first breached sea level. The entire coastal area is a raised beach with large sea stacks that are now completely on land. Uplift rates estimated for various parts of the island range from 1.5 to 15 mm/year, depending on the fault block. The ophiolite is pristine in terms of being unaffected by other geologic events, but the rocks are mainly covered with moss, lichen, bog, and tussock grasses! Fortunately, the island is too far south for trees or shrubs.

Wet feet were always the order of the day. We had been warned that we would save time traveling on the island if we would just go stand in water first thing every morning to get it over with, and they were right! Much of the island is a bog, and if not a bog, it is tussock grass surrounded by seal wallows, which are always muddy and sometimes filled with deep, foul water. Hopping from tussock to tussock requires a real sense of

balance. If you fall, no one wants to be around you because of the smell! The most unusual terrain is the feather bed. Much of the coastal area is made up of floating vegetation—a thick mixture of mosses and grasses and a few cabbages. It floats on water that ranges from several meters to more than 20 meters in depth. If you tread lightly, you don't sink in—much. When you walk on it, the ground moves up and down like a waterbed. We only went in up to our knees, and not too often, as we learned to search for plants with complex root systems to use as stepping-stones. Some people have gone in up to their waists, and only their backpacks saved them. We found feather bed travel the fastest, although always unnerving, especially if being dive-bombed by birds. We did a tremendous amount of hiking the entire time, usually with all of our gear on our backs.



PREVIOUS PAGE: Macquarie Island from offshore. A major recent fault lies in the linear valley immediately behind the first ridge. The white area on the beach is a large penguin colony.

ABOVE, LEFT: Tussock grass and mosses cover most of the ground, providing nesting areas for individual penguins or colonies.

ABOVE, TOP: Sharon Mosher surrounded by penguins, a common obstacle on Macquarie Island beaches. Note uplifted sea stacks on raised beaches in the background.

ABOVE: Looking for the outcrop? A typical beach scene with Royal penguins and elephant seals in the background.

All photos by Sharon Mosher.

I found tussock hopping quite challenging with a full pack. In climbing, there were only a few scary places, just mainly muddy hills to climb; everything was uphill. One descent—Gadgets Gully—was a bit hairy; we had to use ladders and ropes to get down much of it! Great rock exposure, however!

Macquarie Island is a very interesting place. The animals and plants are as fascinating as the geology, certainly better exposed! The beaches are literally covered with elephant seals of all sizes and shapes. The biggest are the bulls. They are 15-20 feet long and ugly as can be. They are very aggressive and fight with each other by butting heads and biting. Usually when one is with a female, another one tries to take over. The first one roars (a combination between a roar, snarl, and a harrumph). If that doesn't scare the other one off, it charges it, and a fight ensues. The "king" of a particular beach refuses to leave, even to eat. So, eventually it dies from starvation—quite a few very big dead carcasses around! It is the large males that will kill you if they attack. They move incredibly fast! We learned quickly the tricks of getting around them—unreal the slopes you will climb, the bogs you will tread, if necessary! The next size are the cows—not as aggressive unless with an unweaned pup. Then the weaners, the young ones, are about 4 to 7 feet long (depending on age). The beach is covered with these. It is very hard not to step on them because they look like rocks. They either sleep as you go by, or try to bite you as they get older and browner, but they have no teeth. They were cute the first day, then became annoying, then cute the last day. The biologists brand them to keep track of specific ones and pump their stomachs to see what they eat. I was very glad that wasn't what I was doing for my research!

Penguins, the most abundant wildlife, present a different challenge to fieldwork. Trying to cross a beach to look at an outcrop with literally hundreds of thousands of penguins in the way is not possible. Staying close to the water's edge usually works, but with the very large colonies you sometimes just have to give up, especially if male elephant seals line the water's edge. King, Royal, Gentoo, and Rockhoppers are the most common, and I must admit I never got tired of penguins, even though they were very smelly! Every time we went to an outcrop near them, a small contingent would wander over



It is frustrating when key geologic relationships are under a very unhappy bird's nest, but all of my bird-watching geologist friends would have been in paradise!

for a geology lecture! They also harmonized for us as we approached. They sound like someone humming on a comb covered with wax paper. The island is also the home for large numbers of other ground nesting birds, which causes different obstacles to field work. Nesting areas for some birds, such as the wandering albatross, have restricted access. But even the others require large detours around their nests to keep them from losing their eggs or young to airborne predators. The skuas are really aggressive and swoop down on any nest. They will attack a penguin nest while the penguin is sitting on it! The giant petrels scare easily and have trouble taking off, often crash landing in the ocean. So we were required to be extra careful not to scare them off their nests. It is frustrating when key geologic relationships are under a very unhappy bird's nest, but all of my bird watching geologist friends would have been in paradise!

We spent the entire time I was there out in the field, staying at field huts, which are located a little over a half a day apart. The huts range widely in style and quality from true cabins to old water tanks but are well supplied with the essentials—beds, sleeping bags, cooking equipment, stove, food, etc., with catchment pans collecting rain water for drinking and cleaning. Unfortunately, because the resupply hadn't come yet, we had the dregs left over after a year of other people's use. We ate tinned fish in about as many ways as possible! Lots of tomato paste was left. I was very excited when Nathan made bread so I could have a peanut butter sandwich for lunch! (I hate peanut butter!) But the huts were

much better than I expected, some, like the one at Green Gorge, were wonderful.

We had exceptional weather when I was there; generally this is an extreme oceanic climate with heavy cloud cover and strong westerly winds. Most days were sunny, though we did have hail, sleet, snow, and rain—all horizontal from the winds—nearly every day in addition. Amazing how rousing choruses of “Proud Mary” or “Winter Wonderland” can raise your spirits! Our field guide for the first few days said we were the happiest group he had helped. Only two days were the winds strong enough at times to pick us up into the air. They have blown people off cliffs! We also only had a couple days of heavy fog, which made plateau work impossible. Nathan saw his first snow. He got up at 5:00 a.m. the first night in a hut and came in all excited because there was a foot of snow all over; of course, it melted by 8:00 a.m.

After 13 very long days in the field, I did manage to get off the island and home before Christmas (though not before Thanksgiving, as in the original plan). They called us out of the field a day early, and we took a dinghy to the tourist boat as soon as it was sighted—a major storm system was coming. It hit several hours later and lasted for days. If we had missed that small window of opportunity, I would have been there until February or had to spend the winter on a boat cruising the Antarctic. As it was, I had a six-day cruise of the

Southern Ocean visiting the Auckland and Snares Islands and seeing many more penguins, birds, and seals, plus being chased by sea lions!

When I left Macquarie Island, the students began a long field season exploring the geologic development of this unique sliver of oceanic crust. Karah kept all of us in the States amused and informed by a series of “wet feet” e-mails. Now she is back, we are analyzing the data and merging it with the marine geophysical data to understand how strain was partitioned and magma generation ceased as this plate boundary evolved from spreading to oblique spreading to transform motion. When I left, I was ready to go. I was tired of being constantly wet in very smelly stuff, always jumping around animals, and trying to find the way to rocks covered with vegetation. Working there is hard, hard work, just getting around the island. But it was better and safer than we had been told; most of the “stories” we had heard were overblown. But as I am sure you can guess, I, like my students, can't wait to go back! ❖

PHOTO, OPPOSITE PAGE: A sunny day on Macquarie Island. The valley on the right contains a major recent fault cutting volcanic rocks; the large bay contains a major fault that juxtaposes ultramafic rocks forming the hill in the distance with the volcanic rocks. Photo submitted by Sharon Mosher.

Sharon Mosher Elected President of Geological Society of America

Sharon Mosher will be President of the Geological Society of America (GSA) starting this fall at GSA's Annual Meeting in Reno, Nevada; she is currently Vice President. “This is a very exciting and challenging time to be President,” Sharon comments, “as GSA continues to implement its new strategic plan. GSA is moving into

electronic publishing and is developing strategic partnerships with other societies. GSA will be holding its first global meeting in Edinburgh in 2001 on Earth System Processes and is in the process of planning future meetings around the world. GSA is also undertaking major new initiatives in education and outreach.

As Vice President, Sharon has become involved in the Geology and Public Policy Committee and has been actively involved in finding ways for GSA members to become more effective in influencing public policy. This undertaking has greatly broadened her perspective on the role of scientists in government and has resulted

in her making several trips to Washington, D.C. Prior to becoming Vice President, Sharon was Annual Program Chair for three years and oversaw the reorganization of the Annual Meeting program. This first year has involved a tremendous amount of learning about complex, non-geologic issues, preparing her for the many decisions ahead. ❖

Leon Long Inducted into the Academy of Distinguished Teachers

A year ago, Leon Long became the first in the Department to be inducted into the Academy of Distinguished Teachers, a group of UT faculty to which ten new members are added annually until the Academy reaches a full quota of 80. Its members receive a salary increase and are available to consult in matters of undergraduate teaching quality and innovation.



“When I arrived at UT in 1962,” Leon writes, “there had been no interviews, no visit with the Dean, no tour of the Department, nor a seminar. Unlike anyone before or since, I just showed up, sight unseen. It was risky for both the Department and me, but in those days, it was not feasible for me to zip over to Austin from England where I was doing a post-doc. Chairman Steve Clabaugh had inquired if I would mind teaching an introductory class. I had never considered this possibility, but it was intriguing, and I accepted. My first lecture standing before 220 students was a terrifying experience of



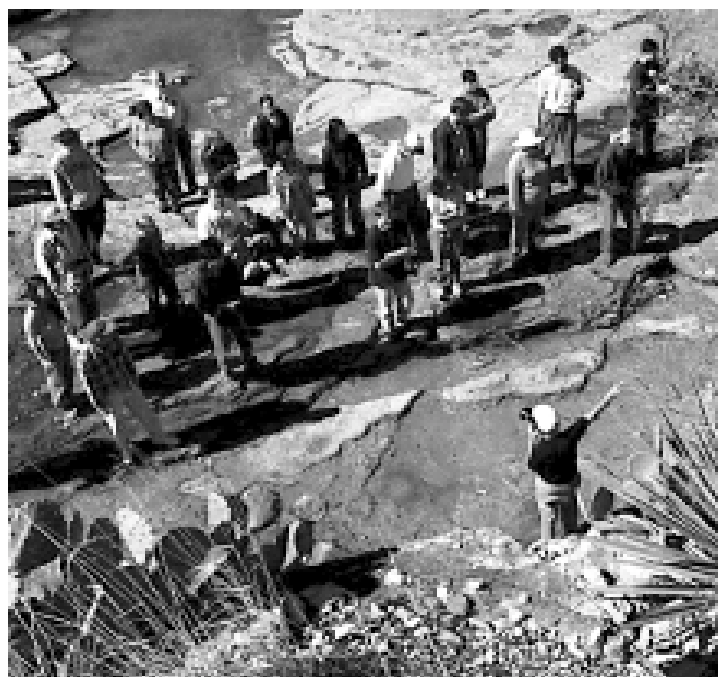
disconnect; I could hear my mouth making sounds, but I was just babbling on, not much in control.

“Soon my teaching fell into a pattern—introductory geology every fall and spring semester, a graduate course or seminar in isotope geology, field courses. Some folks would be terribly bored to teach the same basic ideas over and over to nearly 25,000 students, but for me it was not so. Tracking the subject requires constant reading, and an endless fascinating variety of students keep coming at you.

“A reorganization of the College and of introductory courses in 1968 prompted the initiation of GEO 303, a course that combines both the traditional physical and historical geology. There were to be two professors and two lecture sections, and Al Scott announced that he and I would teach them jointly. It was

an ultimatum. I think Al was rather daunted by the enormous range of subject material, from atoms to tectonic plates, and from cosmic origins to the hurricane that blew in last week. He had a good point; team-teaching would cut some slack for one guy to cram an unfamiliar subject while the other guy was delivering a block of lectures to both sections. Ever since then, GEO 303 has been team-taught generally by me and somebody. Over the years, the ‘somebodies’ have been Al, Steve Clabaugh, Bill Sill, Jim Sprinkle, Earle McBride, and Martin Lago. Lately, there has been a long stretch of teaming with Doug Smith and Steve Grand, and recently with Libby Stern. These good people have acted as mentors to me and I to them. They have inspired me, and they have enriched both lecture and lab with numerous innovations that we have incorporated after testing.

“Apparently, GEO 303 has set an example such that more than half of the Department’s faculty have team-taught courses in the classroom and in the field. The business of mutual



mentoring has such a powerful beneficial impact, and to my knowledge Geological Sciences practices it to an extent unique in the College, if not The University. We take teaching seriously by choice and necessity because, unlike the situation in many other departments, we must recruit our majors. Entering students, knowing nothing about geology, take an

introductory course out of curiosity, and almost without exception that is how they become geologists.

“A current buzzword in education is ‘discovery’ learning or ‘inquiry-based’ learning, referring to a method by which

**Entering students, knowing nothing
about geology, take an introductory
course out of curiosity, and
almost without exception
that is how they become geologists.**

the student internalizes and connects the important principles by doing things him/herself. Some subjects may not be adapted very well to this technique, but discovery learning is perfect for doing field geology. Based upon what you already know, you predict what formation must lie

atop yonder hill, and then you go check it out. In the field course that I teach for non-majors, we continually do that sort of thing, under carefully controlled conditions. Because field work is a wholly novel experience to the students, their learning curves ‘go vertical.’ So much fun, and so much learning!

“Now I am in a position to look back upon a long career with a sense of perspective. I am grateful to the Department of Geological Sciences for providing an environment in which I could interface with all those wonderful students and colleagues. It has been just right for me.” ❖

PREVIOUS PAGE, UPPER LEFT: On a GEO 303 field trip to the Llano Uplift, Leon (right) and teaching colleague Libby Stern (left) explain why upfaulted blocks make low topography and downfaulted blocks make high topography.

PREVIOUS PAGE, LOWER LEFT: While students listen, GEO 303 co-teacher, Steve Grand (holding large drawing in center) participates with Leon (holding smaller paper) on another Llano Uplift field trip.

PREVIOUS PAGE, RIGHT: Leon in the Llano Uplift, orating to students on the Ellenburger.

Robert H. Tatham Hired as Professor in the Department



ROBERT H. TATHAM

The Department welcomes Dr. Robert H. Tatham to the faculty, as Professor and holder of the Shell Oil Company Centennial Chair in Geophysics. He leaves the position of Senior Research Consultant and Research Portfolio Manager for Texaco Exploration and Production Technology Division in Houston, Texas.

Dr. Tatham received a B.S. degree in Physics in 1967 from California State University, Northridge, an M.S. degree in Applied Geophysics in 1970 from the University of Houston, and a Ph.D. in Geological Sciences in 1975 from Columbia University. He was first employed as a geophysicist at Texaco, Inc., from 1975 to 1980. Subsequently, from 1980 to 1986, Dr. Tatham was Senior Research Scientist at Geosource Inc., Petty-Ray Geophysical Division, where his research included the development of 3-D seismic processing capability.

In 1986, Dr. Tatham returned to Texaco, where he was directing a group of 20 research geophysicists developing new seismic acquisition,

processing, and interpretation methods focused on 3-D seismic imaging when he left to join the Department. His innovative leadership was demonstrated by the special recognition he received in 1996, when he was selected for the Texaco Corporate Technology Innovation Award for “the development, commercialization, and implementation of vertical cable technology.”

Robert Tatham is the author or co-author of 30 major papers in professional journals and dozens of expanded abstracts for professional meetings. He is the first author (with M. D. McCormack) of the 271-page research monograph titled “Multicomponent Seismology in Petroleum Exploration,” published by

the Society of Exploration Geophysicists.

Since 1987, Dr. Tatham has been an Adjunct Professor in the Department of Geosciences at the University of Houston, where he supervised or co-supervised 11 M.S. theses and five Ph.D. dissertations. He has also been very active in the professional societies and has served as a recent President of the Geophysical Society of Houston.

Dr. Tatham brings not only the range of proven research expertise expected in academia but also the tempering that comes from 25 years of experience and field testing during exploration and development for oil and gas. We are pleased that he has joined us to expand our programs in exploration geophysics. ❖

TEACHER, LEADER, ADMINISTRATOR: Robert E. Boyer Retires

At the end of the past century, Bob Boyer retired from The University of Texas at Austin after 43 years as a Professor, Chairman, and Dean—completing a truly remarkable and distinguished professional and academic career. Bob joined the Department of Geological Sciences as an Instructor in 1957. On completion of his Ph.D. in geological sciences at Michigan in 1959, he became an Assistant Professor. Three years later he was promoted to Associate Professor and in 1967 to Professor. Bob's dissertation was on the structural geology of the Wet Mountains in Colorado, and his early research interests were in structural geology. This led to work in remote sensing, but his strong interest was to be in earth science education, especially at the secondary school level, an area in which he has become a prominent national voice. He has held a joint appointment in the College of Education since 1965.

In addition to teaching, research, and professional service, Bob Boyer was a respected and effective University administrator. He served the entire decade of the 1970's as Chairman of the Department of Geological Sciences and as Director of the Geology Foundation, a time of critical development and expansion in both the Department and the Foundation. In 1980, Peter Flawn, University President and a geological sciences colleague and a person who knew Bob Boyer's skills and talents well, called him to be the Dean of the College of Natural Sciences. He served 14 years as Dean through times of considerable growth and development of the College. While Dean, Bob served as Executive Director of the College of Natural Sciences Foundation, bringing his savvy and background in directing the long-established and highly successful Geology Foundation.

Bob Boyer has long been active in the professional societies despite his heavy administrative duties at The University.

He served as President of seven professional societies: the American Geological Institute, the National Association of Geology Teachers, the Gulf Coast Association of Geological Societies, the Texas Academy of Sciences, the Texas Chapter of the Society of Sigma Xi, the Central Texas Chapter of the Society of Independent Professional Earth Scientists, and the Austin Geological Society. He served on the Board of Directors of SIPES and on the Advisory Council of the American Association of Petroleum Geologists, and he was a Councilor for the Geological Society of America.

Professor Boyer received the Neil A. Miner Award from NAGT, the Distinguished Service Award and Honorary Membership in GCAGS, the Award for Outstanding Contributions to Public Understanding of Geology and the Heroy Award for Distinguished Service, both from the American Geological Institute. Bob held the Robert E. Boyer Professorship while in the Dean's Office and later the Boyer Chair—a Chair named in his honor and held by the sitting Dean of the College of Natural Sciences. When Bob returned to the Department of Geological Sciences in the fall of 1994, he was appointed to the Peter T. Flawn Centennial Chair in Geological Sciences and is, in retirement, the Flawn Chair Emeritus.

On April 6, 2000, the Advisory Council of the Geology Foundation and the Department of Geological Sciences held a reception and dinner recognizing Bob Boyer for his 43 years of dedicated and distinguished service to The University and the profession of geology. On that occasion, attended by more than 100 Advisory Council members, University officials, faculty, staff, and friends, Bob was elected Honorary Life Member of the Geology Foundation Advisory Council. He is only the third former faculty member so elected in the 47-year history of the Foundation. The



others were Samuel P. Ellison, Jr., and Peter T. Flawn.

We are justly proud of Bob Boyer's many accomplishments and the major contributions he has made to the Department, the College, the Geology Foundation, the College Foundation, and the professional societies. We send him and Betty our best and fondest wishes for the future. ❖

ABOVE, TOP: Peter T. Flawn (right) congratulates Bob Boyer (left) on his retirement.

ABOVE, CENTER: Jim Bob Moffett (center) and Bill Cunningham, Chancellor of UT systems, visits with Bob (left) at the retirement reception.

ABOVE: Dick Bloomer (left) and Bob Boyer (right) at Bob's retirement reception on April 6, 2000, where Dr. Bloomer, Chairman of the Geology Foundation Advisory Council, presented an Honorary Life Membership plaque to Bob.

Bill Fisher Cited as One of 100 Most Influential People in Gas and Electricity of the 20th Century by *Hart Energy Markets*

W. L. Fisher was cited as one of the “100 most influential people in gas and electricity” over the past century in *Hart Energy Markets*, a publication for energy executives. Fisher was noted for being one of the earliest and most effective proponents of technological solutions to perceived

hydrocarbon scarcity problems. His paper written in 1988, titled “The Technological Dependency of the Remaining Oil and Gas Resource Base in the U.S.” was specifically cited.

Others on the Top 100 list include Thomas Edison, Conrad Schlumberger, and George Westinghouse. ❖

Scott Wheeler Tinker Named BEG Director



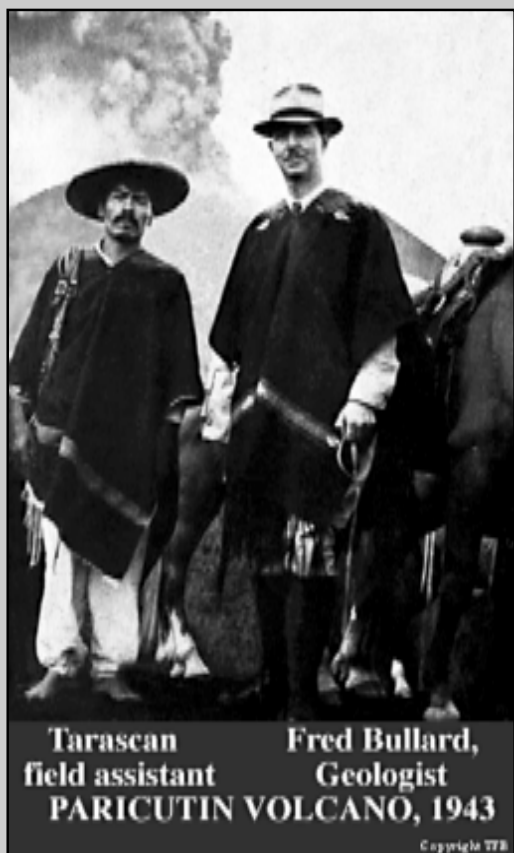
Scott Wheeler Tinker. Photo by Motofoto in Colorado.

In January 2000, Dr. Scott Wheeler Tinker was named State Geologist of Texas and the eighth Director of the Bureau of Economic Geology. At the time of accepting the directorship, Dr. Tinker was an Advanced Geologist with the Marathon Oil Company Petroleum Technology Center in Littleton, Colorado.

Tinker graduated Magna Cum Laude and Phi Beta Kappa with a double major in geology and business administration from Trinity University in 1982. He completed an M.S. in geosciences at the University of Michigan, and he began work with Champlin Petroleum in Denver in 1985. Three years later, he joined Marathon and while working full time completed a Ph.D. degree from the University of Colorado at Boulder. His research at Marathon centered on working in high-tech, integrated teams using sophisticated computers as tools to build 3-D models of oil and gas reservoirs.

Dr. Tinker has received best paper awards from both the American Association of Petroleum Geologists (AAPG) and the Society for Sedimentary Geology (SEPM) for his work with carbonate reservoirs. He has also served as a Distinguished Lecturer with AAPG. He succeeds Noel Tyler, who left the directorship of the BEG to pursue private practice. Tinker is married to Allyson Andrews Tinker. They have three sons, with another child expected in October. ❖

Fred M. Bullard Student Research Fund



Dr. Thais Freda Bullard is establishing a Fund in memory of her father, Dr. Fred M. Bullard, longtime Professor of Geology at UT Austin. The Fund initiation comes from a contribution from Thais, as well as from pledges from her and Dr. Thomas D. Barrow. Funds distributed from the endowment will be used to support student research in Professor Bullard's principal field of study, volcanology and geothermal energy, as well as in related fields of study. We hope the many friends and former students of Professor Bullard will join in this recognition of her father. ❖

Tarascan Indian field assistant (left) with Fred Bullard (right) at erupting Paricutin Volcano, Mexico, 1944. This photograph was used on the jacket-cover of Dr. Bullard's first book, *Volcanoes: In History, Theory, & Eruption*. Photo provided by Thais Bullard.

Staff Awards



Jeffrey S. Horowitz, Computer Illustrator, received the Distinguished Service Award by the Department of Geological Sciences. This award is made in recognition of the most outstanding contribution to the operation of the Department or Department facilities during the academic year. The selection is made on the basis of nominating letters from the faculty, staff, and students.

Ann Nelson, Senior Systems Analyst, and **Harry Sullivan**, Library Assistant III, were both winners of the Thelma Lynn Guion Library Staff Award. The selection is made by the Geology Librarian, Dennis R. Trombatore, and is based on excellent performance by library staff.

LEFT, TOP TO BOTTOM:

Mary E. Koch, Senior Administrative Associate in the Geology Foundation (left) and UT President Larry R. Faulkner (right), as Mary receives 30-year award for service to The University of Texas at Austin at UT ceremony on April 26, 2000. Photo by Alan Smith, UT Photo Services.

Betty J. Kurtz, Administrative Assistant (left), pictured with UT President Larry R. Faulkner (right) as she receives a 30-year award for her service to The University of Texas at Austin at the UT ceremony on April 26, 2000. Photo by Alan Smith, UT Photo Services.

Fred W. McDowell, Research Scientist and Senior Lecturer (left) with UT President Larry R. Faulkner (right), after President Faulkner presented a 30-year service award to Fred for his service to The University of Texas at Austin at UT the ceremony on April 26, 2000. Photo by Alan Smith, UT Photo Services.

Dennis R. Trombatore, Walter Geology Librarian (left), Harry Sullivan, Library Assistant III (center), and Ann Nelson, Senior Systems Analyst (right) at the Department ceremony on May 4, 2000, right after Dennis presented the Thelma Lynn Guion Library Staff Award to Harry and Ann.

Pictured are Mark Cloos, Chairman of the Department (left), and Jeffrey S. Horowitz, Computer Illustrator (right), as Mark presents Jeff the Distinguished Service Award at the Department ceremony on May 4, 2000.

The following staff and research scientists received The University of Texas at Austin Service Awards for years of service to The University:

Wulf A. Gose, Research Scientist and Senior Lecturer (25 years)

Jeffrey S. Horowitz, Computer Illustrator (20 years)

Eric W. James, Research Scientist Associate V (10 years)

Mary E. Koch, Senior Administrative Associate (30 years)

Betty J. Kurtz, Administrative Assistant (30 years)

Fred. W. McDowell, Research Scientist and Senior Lecturer (30 years)

Gregory L. Thompson, Technical Staff Assistant III (10 years).

This group brings a combined total of 155 years of service and experience to The University and the Department. ❖



Martha Vargas (1918–2000).
Photo submitted by Glenn Vargas.

Faculty Awards and Honors

During 1999-2000, several Department of Geological Sciences faculty members and faculty emeriti received recognition and honors:

Jay L. Banner received the Geology Foundation's Houston Oil and Minerals Corporation Faculty Excellence Award for 1999-2000. This award is based on nominations from faculty and students. Jay also received the College of Outreach award in recognition of his efforts to create the new Outreach Lecture series in the Department.

Christopher J. Bell received the 2000 college of Natural Sciences Teaching Excellence Award in recognition of his outstanding teaching efforts at both undergraduate and graduate levels. Chris and research associate Matthew W. Colbert received the first-place Innovative Instructional Technologies award from The University for the CD-ROM they created to assist in teaching courses in vertebrate paleontology.

William D Carlson has been elected President of the Mineralogical Society of America.

William L. Fisher was elected by the students of the Department of Geological Sciences to receive the G. Moses and Carolyn G. Knebel Distinguished Teaching Award. During the year, Fisher

was named an Admiral in the Texas Navy, an honorific commission by Governor George W. Bush for work on Texas water and natural resources.

William R. Muehlberger received the NASA Public Service Medal. The plaque read: "The National Aeronautics and Space Administration presents to William R. Muehlberger, Ph.D. the NASA Public Service Medal in recognition of his exceptional contributions to NASA's Earth Observations from Human Spaceflight and Astronaut Training in Earth Sciences." He also received Honorary Membership in the Austin Geological Society.

John M. (Jack) Sharp, Jr., was awarded the 1999 AT&T Industrial Ecology Faculty Fellowship. This Fellowship carries a monetary award. The program is intended to stimulate interdisciplinary research and curriculum development.

The following faculty received The University of Texas at Austin Service Awards for years of service to The University: F. Jerry Lucia, Senior Lecturer and Senior Research Fellow, Bureau of Economic Geology (15 years) and Paul



L. Stoffa, Professor, Shell Companies Foundation Distinguished Chair in Geophysics, and Director, Institute for Geophysics (15 years). ❖

ABOVE, TOP: Jay L. Banner (left), Associate Professor and Dave P. Carlton Centennial Fellow in Geology, and Mark Cloos, Chairman of the Department (right), as Jay receives the Houston Oil and Minerals Corporation Faculty Excellence Award at the Department ceremony on May 4, 2000.

ABOVE, BOTTOM: Mark Cloos, Chairman of the Department (right), presents to William L. Fisher, Professor and Leonidas T. Barrow Centennial Chair in Mineral Resources and Director of the Geology Foundation (left), the G. Moses and Carolyn G. Knebel Distinguished Teaching Award at the Department ceremony on May 4, 2000.

In Memoriam: Martha Vargas

Martha Vargas, with her husband Glenn, devoted the last 24 years of her life to teaching students the fine art of lapidary as part of the Department's Gems and Gem Minerals course. During four-week, twice-yearly visits, she spent countless hours in the lab using her quiet, inimitable style to pass on her intimate knowledge of mineralogy, gemstones and faceting, and her philosophy of life. She cared deeply about her students and took an active interest in their lives. A large part of her lasting legacy is the generations of students whose lives she so clearly affected.

Another part of her legacy today resides in the beautiful gem and mineral displays that grace the hallways and display room of the geology building. Among many active pursuits, Martha spent a portion of her life assembling collections of minerals and making gemstones. The fruits of her efforts are now visible for all to see and learn from in teaching displays on the second floor of the building. Martha was the driving force behind the displays, offering advice and encouragement on all aspects of their design and providing the specimens that fill the cases.

Her efforts are rewarded daily by the attention of students and visitors, who rarely fail to comment on their beauty and uniqueness. As teaching tools, the Vargas Collection displays are invaluable aids, providing outstanding examples of crystal habits, systematic mineralogy, pseudomorphism, mineral inclusions, gemstone design, and several other aspects of mineralogy/gemology. They will continue to serve as fitting reminders of her devotion to teaching and the Vargas' generosity toward our Department. ❖

Endowed Lecturers

Fall 1999-
Spring 2000



Marcio Rocha Mello



Roberta L. Rudnick



Susan M. Kidwell

Fall 1999

MARCIO ROCHA MELLO

Petrobras
Rio de Janeiro, Brazil
Don R. and Patricia Kidd Boyd Lectureship
in Petroleum Exploration

November 8, 1999:
"Petroleum Systems of Sub-Andean
Sedimentary Basins"

November 9, 1999:
"Comparison Between Brazilian
and West African Petroleum Systems"

November 11, 1999:
"Petroleum Systems of Lacustrine
Sedimentary Basins"

November 11, 1999:
"The Petroleum System Concept
Applied to Reduce Exploration Risk:
Examples from South American
Sedimentary Basins"

Spring 2000

ROBERTA L. RUDNICK

Harvard University
Cambridge, Massachusetts
Judd H. and Cynthia Oualline Centennial
Lectureship in Geological Sciences

March 23 2000:
"Rutile-bearing Refractory Eclogite:
The Missing Link between Continents and
Depleted Mantle"

March 24, 2000:
"Stability of Archean Lithosphere:
A Tanzanian Perspective"

SUSAN M. KIDWELL

University of Chicago
Chicago, Illinois
Edwin Allday Lectureship in Geological Sciences

April 24, 2000:
"Sedimentology of Marine Rift Basins—Some
Outcrop Realities from the Neogene Gulf of
California"

April 25, 2000:
"Fidelity of Fossil Species Abundances:
Good News from Actualistic Tests on Mollusks"

April 25, 2000:
"Phanerozoic Changes in Bioclastic Facies:
Evolutionary Ecology or Evolutionary Geology?"

Speakers —

Faculty and Staff in the Department of Geological Sciences

—Fall 1999—

Mark P. Cloos

September 30, 1999:
"Bubbling Magma Chambers
and Porphyry Cu Deposits"

James N. Connelly

September 21, 1999:
"Formation of a Craton: Evolution
of the North Atlantic Region"

James S. Famiglietti

September 23, 1999:
"Land Surface Hydrology in Climate Models"

Robert L. Folk

November 10, 1999:
"The Moho Exposed: Ophiolites
of Liguria, Especially Ophicalcite-Igneous?,
Metamorphic?, Hydrothermal?,
or (gasp) Pedogenic Rock?"

Richard A. Ketcham

November 3, 1999:
"Heat Production and Heat Flow in the Basin
and Range and Elsewhere: What Do We
Know and Where Do We Go from Here?"

J. Richard Kyle

October 11, 1999:
"Bacteriogenic Calcite-Sulfur Alteration
of Permian Evaporites, Delaware Basin,
West Texas"

Randall A. Marrett

September 16, 1999:
"Scales of Brittle Deformation"

Earle F. McBride

September 3, 1999:
"Sedimentary Clues
to Groundwater Flow Paths"

Dennis R. Trombatore

October 13, 1999:
"New Electronic Library
Resources for the Sciences"

—Spring 2000—

Daniel S. Barker

February 25, 2000:
"Volcanoes—Killers and Creators"

Mark P. Cloos

February 23, 2000:
"Plate Tectonic Controls on
Porphyry Copper Mineralization"

Ian W. D. Dalziel

February 10, 2000:
"Hit and Run Tectonics: What on Earth
Collided with the Texas Margin at the
End of the Mesoproterozoic?"

Mark A. Helper

May 5, 2000:
"True Gems: Origins and Identification"

J. Richard Kyle

March 24, 2000:
"The Geologic History of Texas"

Earle F. McBride

January 25, 2000:
"Evolution of the Marathon Basin—
A Slide and Sound Presentation"

Fred W. McDowell

February 3, 2000:
"U-Pb Geochronology of the
Tarahumara Formation, and Duration
of Late Cretaceous-Early Tertiary
Magmatism in East-Central Sonora, Mexico"

Kitty L. Milliken

February 3, 2000:
"Cathodoluminescence Imaging of
Deformation Bands in Porous Sandstone"

William R. Muehlberger

January 28, 2000:
"Studying the Earth from Manned Spacecraft"

John M. Sharp and Philip C. Bennett

February 18, 2000:
"A Travelogue of Egypt & Manganese
in Waters of the Nile Delta"

Libby A. Stern

April 3, 2000:
"Rainshadow Enhancement Due to Miocene
Uplift of the Southern Patagonian Andes:
A Virtual Field Trip and Preliminary Results"

Robert H. Tatham

February 24, 2000:
"25 years of 'Progress' in Recording Seismic
Shear-Wave Data at Sea"

Robert H. Tatham

May 1, 2000:
"An Informal Discussion of
Seismic Data Processing"



Visiting Speakers

Fall 1999

David N. Awwiller

Exxon Production and Research
Houston, Texas

October 4, 1999:

"Links Between Quartz Cement Abundance and Thermal History: Examples from Northern South America"

James L. Bowdin

Proyecto De Bueco Espeleologico
Mexico y America Central

Austin, Texas

October 15, 1999:

"Adventures in Cave Diving"

Charles G. Groat

United States Geological Survey
Reston, Virginia

October 21, 1999:

"To Survive or Thrive? A USGS Perspective on Geosciences and the Future"

Andrew C. Howley

Water Prospecting, LLC
Arlington, Texas

November 19, 1999:

"Geophysical Methods in Hydrogeology"

Troy M. Kimmel, Jr.

Department of Geography
The University of Texas at Austin
Austin, Texas

September 24, 1999:

"Stormy Weather: The Use of Doppler Radar in 'Nowcasting'"

Ann H. Kristovich

Proyecto De Bueco Espeleológico
México y América Central

Austin, Texas

October 15, 1999:

"Adventures in Cave Diving"

Robert H. Lander

Geologica

Stavanger, Norway

October 22, 1999:

"Kinetic Modeling in Quartz Cementation"

Raymond M. Russo

Northwestern University
Evanston, Illinois

October 7, 1999:

"Slabs, Continental Roots, and Upper Mantle Flow"

Rainer K. Senger

Duke Engineering
Austin, Texas

October 1, 1999:

"Two-Phase Investigations at the Grimsel Test Site and at the Proposed Low/Intermediate Level Waste Site at Wellenberg, Switzerland"

Stephen L. Shaw

Burlington Resources
Midland, Texas

September 27, 1999:

"Karsted Carbonate Gas Play: Applications of Basin Analysis, Hydrodynamics, 3-D Seismic, and Horizontal Drilling"

Bruce M. Simonson

Oberlin College
Oberlin, Ohio

December 3, 1999:

"Evidence of Archean and Paleoproterozoic Asteroid Impacts from Western Australia and South Africa"

Raymond M. Slade

United States Geological Survey
Austin, Texas

October 8, 1999:

"Use of Streamgaging in Assessing Floods and Droughts in Texas"

Andrew R. Thomas

Texaco EPTD
Houston, Texas

September 2, 1999:

"Stylolitization and Porosity Reduction in the Jurassic Norphlet Formation, Offshore Alabama"

Charles M. Woodruff, Jr.

Woodruff Geological Consulting, Inc.
Austin, Texas

October 18, 1999:

"The Glen Rose Limestone: The Marl of the Story"

Spring 2000

E. Scott Bair

Ohio State University
Columbus, Ohio

Birdsall-Dreiss Lecturer

January 28, 2000:

"Contamination of Woburn Wells G&H—What the Experts Said at Trial, What We Know Now"

Myron G. Best

Brigham Young University
Provo, Utah

April 19, 2000:

"Middle Tertiary Volcanism in the Great Basin—the Ignimbrite Flareup"

Donald D. Blankenship

Institute for Geophysics
The University of Texas at Austin
Austin, Texas

April 7, 2000:

"Radar Detection and Characterization of Water Systems beneath Terrestrial (and other) Ice Sheets"

Lars E. Borg

University of New Mexico
Albuquerque, New Mexico

March 9, 2000:

"Constraints on Martian Geologic Processes from Isotopic Analyses of SNC Meteorites"

Randall J. Charbeneau

Department of Civil Engineering
The University of Texas at Austin
Austin, Texas

February 25, 2000:

"Free Product Recovery of Petroleum Hydrocarbon Liquids"

Frank A. Corsetti

University of California
Santa Barbara, California

March 20, 2000:

"Timing is Everything: Precambrian-Cambrian Carbonates of the Southern Great Basin, USA"



M. James Hendry

Geoffrey A. Dorn

Director of Visualization Technology
ARCO
Houston, Texas
February 29, 2000:
"The Role of Visualization in
Modern 3-D Interpretation"

John R. Farver

Bowling Green State University
Bowling Green, Indiana
February 1, 2000:
"Experimental Studies of Diffusion
in Mineral Aggregates: New Insights
into Fluid Transport in the Crust"

David A. Ferrill

CNWRA-SW Research Institute
San Antonio, Texas
April 6, 2000:
"Normal Fault Growth Processes and
Implications for Fluid Flow and Seismicity"

Robert H. Goldhammer

Texaco
Houston, Texas
March 27, 2000:
"Second-Order Supersequences and Points
of 'Stratigraphic Turnaround': Implications
for High-Resolution Sequence Stratigraphy
and Facies Architecture of Upper Jurassic
'Pinnacle Reefs' of the East Texas Salt Basin"

G. Michael Grammer

Texaco
Houston, Texas
April 5, 2000:
"Comparative Sedimentology in the
New Millennium: Recent Advances
and Future Directions"

M. James Hendry

University of Saskatchewan
Saskatoon, Saskatchewan
1999-2000 Darcy Lecturer
March 2, 2000:
"Transport and Geochemical
Controls on Solutes in Clay Aquitards"

Brann Johnson

Texas A&M University
College Station, Texas
April 21, 2000:
"Overview of an On-going, High-
Resolution, Geological and Hydrological
Study of a Normal Fault That Impedes
Cross-Fault Flow in a Semi-confined,
Siliciclastic Aquifer: Emphasis on 3-D,
Hydraulic-Head Distributions"

Barbara J. Mahler

United States Geological Survey
Austin, Texas
April 28, 2000:
"Suspended Sediment Association
of Hydrophobic Contaminates:
Sampling Methods and Applications"

David M. Maidment

Department of Civil Engineering
The University of Texas at Austin
Austin, Texas
February 11, 2000:
"GIS Object Model for Water Resources"

**Jean-Christian Personné
and Claude Drogue**

University of Montpellier
Montpellier, France
May 5, 2000:
"Influence of Structure on the Hydrodynamics
and Microbiology of Karst Aquifers"

Roger Sassen

Texas A&M University
College Station, Texas
February 15, 2000:
"Gas Hydrates of the Northern
Gulf of Mexico"

Geary M. Schindel

Edwards Aquifer Authority
Austin, Texas
February 4, 2000:
"Fear and Loathing on the
Hazardous Waste Trail"

Haraldur Sigurdsson

University of Rhode Island
Narragansett, Rhode Island
February 8, 2000:
"The Destruction of Pompeii
and Herculaneum: A Volcanic
Catastrophe in Roman Times"

James L. Simmons

Bureau of Economic Geology
The University of Texas at Austin
Austin, Texas
March 6, 2000:
"Information Content in Seismic
Reflection Data"

Ana L. Unruh

University of Oxford
Oxford, England
April 11, 2000:
"Provenance Change in
Eurasian Loess: New Observations
through Multi-collector ICP-MS technology"



Robbie Rice Gries Elected President of the American Association of Petroleum Geologists



ROBBIE RICE GRIES

Beginning July 1, 2001, Robbie Rice Gries of Denver, Colorado, will become President of the American Association of Petroleum Geologists (AAPG). She will be the 74th President of the Association, the 6th graduate of The University of Texas at Austin, the 11th Geology Foundation Advisory Council member, and the very first woman to hold this prestigious professional position. Robbie will become President-elect in July of 2000.

“This has to be the highlight of my career as a petroleum geologist. I have never taken on a task for AAPG that I have not thoroughly enjoyed, and I am optimistic that this experience will be rewarding and exciting,” Robbie stated on learning of her election.

Gries is a native of South Texas. She received her B.S. degree in geology from Colorado State in 1966 and her M.S. degree in geology from UT Austin in 1970, working with Charlie Bell on biostratigraphy of the Marble Falls in Central Texas. She began her professional career with Texaco in Denver. She later spent a few years with Reserve Oil also in Denver. In 1980, Robbie began a successful geological consulting career in Denver. Gries is widely recognized for her innovative exploration concepts in the Rockies, and

especially the Rocky Mountain Overthrust play; she has received numerous awards for papers she has presented. Since 1995, she has served as President of her own company, Priority Oil and Gas, LLC, based in Denver. Her company seeks out and evaluates oil and gas prospects, initiates exploration and development opportunities, and has developed an international portfolio, focusing on Northern Ireland.

Robbie will not be a stranger to the Association whose presidency she is assuming. She has long been active in the affairs of the AAPG as well as the Rocky Mountain Association of Geologists (RMAG). She previously served as Secretary of AAPG, was General Chairman of the AAPG Annual Meeting held in Denver in 1994, and has chaired and served on many

committees in AAPG and RMAG. She received the Distinguished Service Award from RMAG in 1985 and was elected Honorary Member in 1989. She received the Distinguished Service Award from AAPG in 1991 and was elected an Honorary Member of the Association (the second highest award of AAPG) in 1998.

Robbie Gries is currently a member of the Geology Foundation Advisory Council. She has established annual awards for best student presentations in UT Austin's Technical Sessions. We are justly proud of this exceptional geologist for her many accomplishments—and for her unique accomplishment of being the first woman elected to the AAPG presidency. We extend our warm congratulations to Robbie and wish her the very best of luck. ❖

Bureau of Economic Geology (BEG) Advisory Committee Formed

At its meeting on October 22, 1999, the Advisory Council of the Geology Foundation created and chartered a standing committee of the Council known as the Bureau of Economic Geology Advisory Committee. The committee meets twice a year and more frequently if called by the Chair. It is established to provide counsel and advice to the BEG Director and staff relative to research programs, mission, research opportunities and directions, and administrative structure. The Committee, which held its first meeting on April 6, 2000, also provides liaison, as needed, with industry, government, and academic entities. Members are appointed by the Chair of the Advisory Council. Current members of the Committee include the following:

- Dr. Peter T. Flawn (Chairman) President Emeritus and former Director of BEG
- Dr. Thomas D. Barrow, Chairman, GX Technology Corporation, and President, Thomson-Barrow Corporation, Houston, Texas
- Mr. Don R. Boyd, Independent Geologist, Corpus Christi, Texas
- Mr. L. Decker Dawson, President, Dawson Geophysical Company, Midland, Texas
- Mr. James A. Gibbs, Chairman, Five States Energy Company, L.L.C., Dallas, Texas
- Dr. Charles G. Groat, Director, U.S. Geological Survey, Reston, Virginia
- Dr. John R. Hopkins, Vice President, Technology/Exploration Production, Conoco, Inc., Houston, Texas
- Mr. Mark S. Leonard, President, Shell EP International Ventures, Inc., Houston, Texas
- Mr. Russell G. Slayback, Chairman, Leggette, Brashears & Graham, Trumbull, Connecticut ❖



SEE PHOTOS ON FRONT AND BACK COVERS.

Student Awards and Activities

Student Awards and Honors

The following students were presented awards at the Department of Geological Sciences ceremony on May 4, 2000:

BEST SPEAKER AWARDS/ TECHNICAL SESSIONS

Jason J. Lundquist

(Ph.D., fall 1999) "Foraminiferal Biostratigraphic and Paleooceanographic Analysis of the Eagle Ford, Austin, and Lower Taylor Groups (Middle Cenomanian through Lower Campanian) of Central Texas"

April M. Hoh

(M.S., fall 1999) "Deformational History of Devil's Waterhole, Inks Lake State Park, Llano Uplift, Texas"

Matthew M. Uliana

(Ph.D., spring 2000) "Delineation of Regional Groundwater Flow Paths and Their Relation to Regional Structural Features in the Salt and Toyah Basins, Trans-Pecos Texas"

Vicky R. Velez

(M.S., spring 2000) "Geometric Analysis of the Reed Wash Detachment Fold Train, West Flank of San Rafael Swell, Utah"

Awarded for superior oral presentations in Technical Session. Selection based on student evaluations.

GRADUATE STUDENT EXECUTIVE COMMITTEE STUDENT SERVICE AWARD

Wade D. Hutchings

Matthew M. Uliana

Awarded for outstanding service by a geology graduate student to the graduate student community. Winner is selected by GSEC.

OUTSTANDING TEACHING ASSISTANT AWARDS

Wade D. Hutchings

Staci L. Loewy

Brook C. D. Riley

Awarded for outstanding performance by a teaching assistant. Selection by the Faculty Review Committee, based on nominations from the faculty and graduate students.

PETROGRAPHY AWARDS

Katherine A. Herrell (Graduate)

Christy M. Kohl (Undergraduate)

Awarded for superior performance in petrographic identification and interpretation in annual contest.

ESTWING HAMMER AWARD

Michael S. Jaffre

Awarded for outstanding performance in field geology course.

RIGHT, TOP TO BOTTOM: ♦♦♦♦♦♦♦♦♦♦

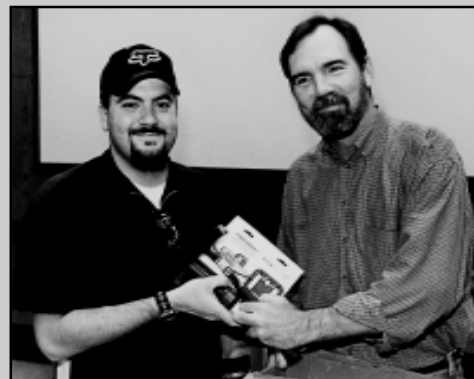
Mark A. Helper (right) presents Michael S. Jaffre (left) the Estwing Hammer Award at Department ceremony on May 4, 2000.

Pictured are (left to right) Mark Cloos, Staci L. Loewy, Brook C. D. Riley, and Wade D. Hutchings. Staci, Brook, and Wade received Outstanding Teaching Assistant Awards at the Department ceremony on May 4, 2000.

James N. Connelly (right) congratulates Jason J. Lundquist (left) as Jason receives the Best Speaker Award at the Department ceremony on May 4, 2000.

Christy M. Kohl (left) receives the undergraduate Petrography Award from Earle F. McBride (right) at Department ceremony on May 4, 2000.

Sunday K. Shepherd (left) presents Matthew M. Uliana (right) the GSEC Student Service Award at Department ceremony on May 4, 2000. Jennifer L. Perry (center) and Mark Cloos (right) are in the background.



Student Scholarship Support from Local Earth Science Organizations



Dave Johns (left), representing the Austin Geological Society, and Brook C.D. Riley, graduate student (right). Brook received the graduate scholarship from AGS.

The Austin Gem and Mineral Society and Austin Geological Society have long been strong supporters of the undergraduate and graduate programs of the Department. For many years, the Austin Gem and Mineral Society has annually awarded scholarships to geology undergraduate students. Last fall, four undergraduate students—Jaime Barnes, Adam Dunn, Heather Good, and Jonathan Skaggs—received \$750 awards at the annual Austin Gem and Mineral Show banquet in November.

The Austin Geological Society initiated a scholarship program for graduate

students at UT Austin. The recipients for this year were Gerald Grellet-Tinner and Brook Riley. The undergraduate to receive a scholarship from this society was Catherine C. Stahn.

The Central Texas Chapter of the Society of Independent Professional Earth Scientists awarded two scholarships for summer 2000 of \$500 each. Recipients were Matthew Uliana (geology) and Eric Matzel (geophysics).

The Gulf Coast Association of Geological Societies awarded graduate students Tarek A. Elshayeb, Dennis A. Sylvia, and Xinxia Wu scholarships during the academic year. ❖

Graduate Student Executive Committee

By Daniel Harrington

The Graduate Student Executive Committee (GSEC), the elected representatives of the Department's graduate student body, once again worked to serve that body during the academic year by fulfilling administrative duties, serving as a liaison between the student body and the faculty and staff, and, moreover, promoting a sense of departmental familiarity and unity.

GSEC was frequently called upon to voice the concerns of the graduate students to the administration. Our major projects included compiling feedback on the new graduate student computer lab, gathering graduate representatives for the Ph.D. written qualifying exam revision committee, and administering surveys to evaluate the adequacy and competitiveness of teaching and research assistant compensation.

As is typical, GSEC assumed the primary responsibility for the logistics of hosting and assisting potential graduate students. We arranged housing and transportation for the prospective students, dispersed information about

the Department and Austin, organized tours of the Department, the Bureau of Economic Geology, the Vertebrate Paleontology Lab, and the Institute for Geophysics, and held several social events. In the end, participation was quite high: 33 prospective students and a large number of Department faculty members and students took part in the activities. Feedback was positive, and we anticipate seeing many of the prospective students join the Department in the fall.

GSEC is preparing to assume full control of the Department's blood drives next year. To this end, graduate student and GSEC Treasurer Jen Perry assisted graduate student Jennifer Rogers with the administration of this year's drives. The drives, as usual, were a success and saw a high participation rate. The amount of blood collected during the year is converted into a "blood credit" at the blood bank, and if Department members or their families were to need a transfusion, that credit could (and would) be used to fulfill it.

GSEC also sent a representative

to the Graduate Student Assembly (GSA), the University's graduate student government. Graduate student and GSEC member Sunday Shepherd attended monthly meetings and served on the GSA Diversity Committee and the selection committee for the annual University Co-op Award for Graduate Student Excellence. To the appreciation of much of our Department, the GSA was able to secure a salary raise and larger tuition waivers for teaching assistants this spring.

Finally, GSEC continued to work to alleviate the oft-lamented lack of social interaction within the Department. Beginning-of-semester cookouts and monthly gatherings were held at the houses of graduate students Timothy Meckel and James Corboy, and the semesters were ended with a party hosted by graduate student Jean-Paul van Gestel in the fall and with the traditional talent show Final Bedlam organized by graduate students Matthew Uliana and Thomas Miskelly in the spring. The social events were overall well attended and seemed to be enjoyed by all. ❖

Student Speakers

FALL 1999

BRUNO COURME

M.S. Candidate

"Forward Seismic Modeling of a Shelf-to-Slope Carbonate Depositional Setting from Outcrop Data and Comparison to Its Subsurface Equivalent, the Abo Formation of Apache Canyon, West Texas, and Kingdon Abo Field, Midland Basin"

November 2, 1999

CATHERINE L. SCHUUR DUNCAN

Ph.D. Candidate

"Tracking the Last Sea-Level Cycle: Seafloor Morphology and Shallow Stratigraphy of the New Jersey Continental Shelf"

October 12, 1999

TAREK A. EL-SHAYEB

M.S. Candidate

"The Significance of Secondary Porosity in Reservoir Quality of the Upper Bahariya Clastic Reservoir, Northwestern Desert, Egypt"

September 20, 1999

STEPHEN T. GRAHAM

Ph.D. Candidate

"Continental River Routing for Fully Coupled Climate System Models"

December 1, 1999

GERALD GRELLET-TINNER

M.S. Candidate

"Eggs and Eggshells: Their Phylogenetic Implications"

November 30, 1999

J. JAVIER HERNANDEZ-MENDOZA

M.S. Candidate

"Interpretation and Distribution of Depositional Systems: Oligocene Frio Formation in the Subsurface of Burgos Basin, Northeastern Mexico"

November 16, 1999

APRIL M. HOH

M.S. Candidate

"Deformational History of Devil's Waterhole, Inks Lake State Park, Llano Uplift, Texas"

November 30, 1999

BRIAN B. HUNT

M.S. Candidate

"Structural Investigation of the Packsaddle Schist, Lost Creek Gneiss and Valley Spring Domains, Western Llano Uplift, Texas"

September 14, 1999

IAN C. JONES

Ph.D. Candidate

"Geochemical Evolution of Groundwater in the Pleistocene Limestone Aquifer of Barbados"

September 28, 1999

KAVEH KHORZAD

M.S. Candidate

"Land Subsidence along the Texas Gulf Coast Due to Oil and Gas Withdrawal"

November 2, 1999

MICHAEL T. LANDRUM

M.S. Candidate

"Effects of Fracture Skins on Solute Transport in Fractured Rock"

November 4, 1999

SARAH R. LINDSAY

M.S. Candidate

"Investigation of the Relationship between Fracture Surface Roughness and Fracture Inducing Stress"

September 14, 1999

JASON J. LUNDQUIST

Ph.D. Candidate

"Foraminiferal Biostratigraphic and Paleocceanographic Analysis of the Eagle Ford, Austin and Lower Taylor Groups (Middle Cenomanian through Lower Campanian) of Central Texas"

October 5, 1999

THOMAS E. MACRINI

M.S. Candidate

"High-Resolution X-ray Computed Tomography (CT) of the Skull of an Extant Opossum (Monodelphis Domestica) and a Comparison of its Ontogeny to Synapsid Phylogeny"

November 2, 1999

MARYLYNN MUSGROVE

Ph.D. Candidate

"Temporal Links between Climate and Hydrology: Insights from Central Texas Cave Deposits and Groundwater"

September 9, 1999

ROSARIO V. SCHEERHORN

Ph.D. Candidate

"Regional Geochemical and Hydrogeological Study of the Great Plains Aquifer System and the Western Interior Plains Aquifer System, Midcontinent, USA"

October 19, 1999

N. OZGUR SIPAHIOGLU

M.S. Candidate

"Facies Architecture and Depositional History of the Upper Miocene Genetic Sequence, South Marsh Island Area, Gulf of Mexico"

November 23, 1999

ROGERIO S. SOUZA

Ph.D. Candidate

"Reservoir Quality Assessment and Prediction through Regional-Scale Integrated Diagenetic Modeling"

November 18, 1999

COURTNEY H. TURICH

M.S. Candidate

"Petrographic and Geochemical Study of Paleocology in the Lower Capitan Reef, Slaughter Canyon, Guadalupe Mountains, New Mexico"

October 14, 1999

MATTHEW M. ULIANA

Ph.D. Candidate

"Identifying the Source of Saline Contamination in Shallow Groundwater: A Case Study"

November 12, 1999

D. SHANE VALENTINE

M.S. Candidate

"Wind Ripple Formation: Wind Tunnel Experiments and Computer Simulations"

November 23, 1999

JEAN-PAUL VAN GESTEL

Ph.D. Candidate

"Structure and Tectonics of the Puerto Rico-Virgin Islands Carbonate Platform and Multi-Configuration Ground-Penetrating Radar Data"

November 9, 1999

— Technical Sessions

SPRING 2000

JOEY J. BARKER

M.S. Candidate
"Hydrocarbon Biodegradation Rates as a Function of Mineral Nutrient Content"
April 18, 2000

JAMES E. BENÉ

M.S. Candidate
"Non-Darcy Flow through Porous Media"
February 29, 2000

MICHAEL H. BRADLEY

M.S. Candidate
"3-D Seismic Stratigraphic Analysis of South Timbalier Block 54, Gulf of Mexico"
April 11, 2000

JOSEFA CARBON

M.S. Candidate
"Miocene Stratigraphy and Depositional Environments of Southwest Anzoátegui, Orinoco Oil Belt, Venezuela"
April 20, 2000

JAIME O. CASTILLO

M.S. Candidate
"Reservoir Characterization in Guadalupe Formation, Cusiana Field, Colombian Foothills"
April 20, 2000

CARLOS J. FIMLAY

M.S. Candidate
"Advance Seismic Interpretation of Shore-Zone Reservoirs in Corpus Christi Bay, South Texas"
April 27, 2000

JOY D. GRIFFIN

M.S. Candidate
"Alluvial Architecture and Tectonic Setting of the Mangas Conglomerate in the Mangas Graben, Tyrone Mine Area, Southwestern New Mexico"
May 2, 2000

TODD HALIHAN

Ph.D. Candidate
"Permeability Structure in Fractured Aquifers"
February 17, 2000

JASON G. JOHN

M.S. Candidate
"Stratigraphic Relationship between the Entrada/Todelto Formations of Northwest New Mexico and Entrada Formation of Utah"
February 22, 2000

KAREN I. MOHR

Ph.D. Candidate
"An Investigation of Land/Atmosphere Interaction: Soil Moisture, Heat Fluxes, and Atmospheric Convection"
March 30, 2000

AYSEN OZKAN

M.S. Candidate
"Diagenesis and Porosity Evolution of the Flathead Sandstone"
April 11, 2000

MATTHEW RODELL

Ph.D. Candidate
"Estimating Changes in Terrestrial Water Storage"
March 7, 2000

JENNIFER ROBERTS ROGERS

Ph.D. Candidate
"Alteration of Silicates by Microorganisms: Are All Minerals Created Equal?"
March 21, 2000

MICHELLE A. ROTH

M.S. Candidate
"Comparison of Two Orthogneiss Suites in the Paleoproterozoic Nagsugtoqidian Orogen of West Greenland"
February 22, 2000

R. BRIAN SCHLOTTMANN

Ph.D. Candidate
"A New Technique for Computing Synthetic Seismograms and Its Implications for Discerning Fine-Scale Mantle Structure"
April 4, 2000

JOHN S. STACKOWIAK

M.S. Candidate
"Nature and Causes of Backstop Deformation in the Northern Lesser Antilles"
February 29, 2000

MATTHEW M. ULIANA

Ph.D. Candidate
"Delineation of Regional Groundwater Flow Paths and Their Relation to Structural Features in the Salt and Toyah Basins, Trans-Pecos Texas"
March 28, 2000

VICKYE R. VELEZ

M.S. Candidate
"Geometric Analysis of the Reed Wash Detachment Fold Train, West Flank of San Rafael Swell, Utah"
April 27, 2000

PATRICK M. WALSH

M.S. Candidate
"Numerical Modeling Demonstrates the Controlling Mechanisms for the Evolution of Graben Faulting in Canyonlands National Park, Utah"
April 18, 2000

HELENA H. ZIRCZY

M.S. Candidate
"Multicomponent Seismic Characterization of the Secard-Wind (Morrow) Field, Cheyenne Co., Wyoming"
May 2, 2000



Research and Teaching Assistants and Assistant Instructor, 1999-2000

RESEARCH ASSISTANTS

Bureau of Economic Geology

Andren, Robert W.
Badescu, Adrian C.
Castillo, Jaime O.
Chen, Jinghua
Doherty, Eloise H.
Fimlay, Carlos J.
Gipson, Jeff B.
Gomez, Leonel A.
Keirstead, Robert F.
Kilic, Cem O.
Le Calvez, Joel H.
Mosley, Kenneth M.
Muzaffar, Asif
Ozkan, Aysen
Palachek, Susan C.
Rassi, Claudia
Rush, Jason W.
Troutman, Tony J.
Walsh, Patrick
Wang, Chengshu
Young, Joshua J.

Institute for Geophysics

Burger, Robert L.
Davis, Marcy B.
Duncan, C. Laurie
Ghebretensae, Berhane N.
Lu, Hongbo
Meckel, Timothy A.
Mukherjee, Anubrat
Rogers, Robert D.
Stachowiak, John S.
Wang, Chengshu

Department of Geological Sciences

Barker, Joey J.
Berg, Aaron A.
Christian, Lance N.
Corboy, James J.
Engel, Annette S.
Feseha, Mulugeta Y.
Gao, Wei
Gomez, Leonel A.
Graham, Stephen T.
John, Jason G.
Martinez, Christine R.
Matzel, Eric M.
Meth, Charna E.
Ortega, Orlando J.
Owen, Pamela R.
Schlottmann, R. Brian
Shi, Mingjuan
Sylvia, Dennis A.
Turich, Courtney H.
Wu, Xinxia
Zirczy, Helena H.

TEACHING ASSISTANTS

Ahmed, Imtiaz
Anderson, Susan D.
Barker, Joey J.
Berg, Aaron A.
Bradley, Michael H.
Cerdeira, Fernando A.
Chatawanich, Kirk
Christian, Lance N.
Cooke, M. Jennifer
Corboy, James J.
Dotter, Kara R.
Dufeu, David L.
Dunn, Dennis P.
Elshayeb, Tarek A.
Fenstermaker, Thomas R.
Feseha, Mulugeta Y.
Franzosa, Jonathan W.
Ghosh, Ayati
Gilmer, Amy K.

Grellet-Tinner, Gerald
Griffin, Joy D.
Hamman, Russell R.
Hansen, C. Norman
Harrington, Daniel F.
Head, Jennifer A.
Herrell, Katherine A.
Hoh, April M.
Hutchings, Wade D.
John, Jason G.
Khorzad, Kaveh
Knight, Brian D.
Landrum, Michael T.
Loewy, Staci L.
Macrini, Thomas E.
Makowitz, Astrid
McFarlane, Christopher R.
Meckel, Timothy A.

Meth, Charna E.
Miskelly, Thomas E.
Murray, Lyndon K.
Perry, Jennifer L.
Ressler, Theodore R.
Riley, Brook C.D.
Roth, Michelle A.
Ruez, Dennis R.
Schneider, Christie L.
Shepherd, Sunday K.
Souza, Rogerio S.
Tykoski, Ronald S.
Uliana, Matthew M.
Valentine, D. Shane

ASSISTANT INSTRUCTOR

Hirsch, David M. ❖



Student Officers for Fall 1999 and Spring 2000

Graduate Student Executive Committee (GSEC)

Chair	Daniel F. Harrington
Vice Chair	Christie L. Schneider
Secretary	Leonel A. Gomez Torres
Treasurer	Jennifer L. Perry
Board Member at Large	Sunday K. Shepherd
Board Member at Large	Astrid Makowitz
Board Member at Large	Charna E. Meth

American Association of Petroleum Geologists, Student Chapter (AAPG)

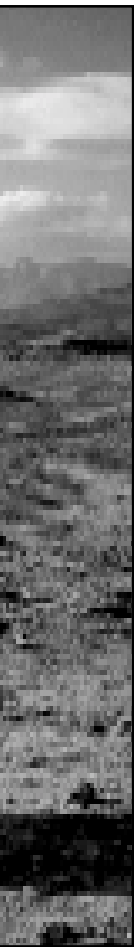
President	Dennis A. Sylvia
Past President	Russell R. Hamman
Vice President	Wade D. Hutchings
Secretary	Ricardo I. Combellas Bigott
Treasurer	Sunday K. Shepherd
Foreign Student Liaison	Claudia Rassi
Undergraduate Student Liaison	Abigail L. Watkins
Faculty Advisor	William L. Fisher

Undergraduate Student Geological Society (USGS)

President	Brian B. Andres
Vice President	Melissa A. Gunter
Secretary	Makenzie M. Smith
Treasurer	Danielle E. Schleman



Placement Office Update: 1999-2000



Two old bone diggers in West Texas, Jack Wilson (left) and Wann Langston (right) in November 1999. Photo provided by Phil Koepf.

The 1999-2000 academic year was an active one for the Geological Sciences Placement Office. In the fall and spring semesters, 108 students used the services, coordinated by Miriam Pashby. Of these students, 41 were candidates for B.S. or B.A. degrees, 28 for M.S. or M.A. degrees, and 39 for the Ph.D. degree.

Fifteen organizations used the services of the Placement Office. Representatives from Anadarko, BP Amoco, Burlington Resources, Chevron, Conoco, Exxon Exploration, Exxon Production and Research, Marathon Oil, Phillips, Radian, Schlumberger, Texaco, Union Pacific Resources, Unocal, Vastar, and Veritas visited the Department.

In the spring, a survey was taken by the Placement Office wherein 87 responses were returned out of 108 mailed. According to this survey, 15 full-time positions and 26 summer jobs/internships were offered to undergraduates and graduate students by various companies this past year.

The following salaries were offered by the companies interviewing through this office:

FULL-TIME JOB SALARIES:

B.S./B.A.	\$39,996 - \$55,800/year
M.S./M.A.	\$43,560 - \$55,992/year
Ph.D.	\$66,000/year

SUMMER JOB/INTERNSHIP SALARIES:

M.S./M.A.	\$3,600 - \$4,500/month
Ph.D.	\$4,200 - \$4,500/month



Thomas R. Banks Memorial Scholarship

Peter B. Abel	Fall 1999
	Spring 2000
Scott W. Bale	Fall 1999
	Spring 2000
Jaime D. Barnes	Fall 1999
	Spring 2000
David M. Burns	Summer 2000
Rebecca A. Fusee	Fall 1999
	Spring 2000
Fabienne M. Grellet-Tinner	Fall 1999
	Spring 2000
Eric R. North	Fall 1999
	Spring 2000
Douglas S. Sassen	Fall 1999
	Spring 2000
Dennis S. Settemeyer	Summer 2000
Sunny B. Simpkins	Fall 1999
	Spring 2000
Jim O. Vasquez	Fall 1999
	Spring 2000
Brian M. Whitenight	Summer 2000

Burke Student Job Program

Miriam R. Akselrad	Fall 1999
	Spring 2000
	Summer 2000
David M. Eglsaer	Fall 1999
	Spring 2000
	Summer 2000
Justin T. Hall	Fall 1999
	Spring 2000

Burlington Resources Scholarship

Nathan J. Andrews	Summer 2000
Sean P. Chapman	Summer 2000
Adam M. Dunn	Summer 2000
Jason R. Jones	Summer 2000
Amanda J. McCutcheon	Summer 2000
Kenneth M. Mosley	Summer 2000
Jonathan M. Skaggs	Summer 2000

Guy E. Green Endowed Presidential Scholarship

Aaron P. Abel	Fall 1999
	Spring 2000

Charlie and Eunice Haas Endowed Presidential Scholarship

Fabienne M. Grellet-Tinner	Fall 1999
	Spring 2000
Christy M. Kohl	Fall 1999
	Spring 2000

Fred and Nora Haas Endowed Presidential Scholarship

Calvin A. Lee	Fall 1999
	Spring 2000

Undergraduate Scholarships

Bloomer Fund For Motivated Students

Sean P. Chapman	Spring 2000
Leighton L. Devine	Fall 1999
Adam M. Dunn	Fall 1999
	Summer 2000
Jaime Fernandez	Spring 2000
Amanda J. McCutcheon	Spring 2000
Christi G. Nutter	Spring 2000
David P. Rodriguez	Fall 1999
	Spring 2000
Chaitanya Velaga	Spring 2000
Stephanie D. Wise	Fall 1999

Wayne Franklin Bowman Endowed Presidential Scholarship

Kelly E. Keese	Fall 1999
	Spring 2000
Kristie L. Persky	Fall 1999
	Spring 2000
Brian M. Whitenight	Fall 1999
	Spring 2000

Brahman Energy Company Scholarship Fund

Roman C. Pineda	Summer 2000
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Dorothy Ogden Carsey Memorial Scholarship Fund

Fabienne M. Grellet-Tinner	Summer 2000
Amanda J. McCutcheon	Summer 2000
Makenzie M. Smith	Summer 2000
Christopher B. Strganac	Summer 2000
William W. Wiggins	Summer 2000

W. Kenley Clark Memorial Endowed Presidential Scholarship

Calvin A. Lee	Fall 1999
	Spring 2000

Robert H. Cuyler Endowed Presidential Scholarship

Austin K. Baldwin	Fall 1999
	Spring 2000
Dennis S. Settemeyer	Fall 1999
	Spring 2000

Karl Frederick Hagemeyer, Jr. Memorial Endowed Presidential Scholarship

Amy M. Balanoff	Fall 1999
	Spring 2000

Allen C. and Nancy Locklin Scholarship

Christy M. Kohl	Spring 2000
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John H. and Lujza McCammon Endowed Scholarship

Sherri K. Randal	Fall 1999
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Mr. and Mrs. L. F. McCollum Scholarship in Geology

Rebecca A. Fusee	Summer 2000
Marcus O. Gray	Spring 2000
John N. Hooker	Summer 2000
Jennifer E. Pollom	Summer 2000
Catherine C. Stahn	Summer 2000

Michaux Scholarship Fund

Chadwick A. Hintz	Summer 2000
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Joan A. Middleton Endowed Scholarship in Geology

Heather R. Good Fall 1999

Carroll C. Miller Endowed Presidential Scholarship

Emily L. Lu Fall 1999
Spring 2000

Wes Ogden Memorial Scholarship in Geophysics

Jaime Fernandez Spring 2000
Romy D. Schneider Fall 1999

Phillips Petroleum Company Scholarship

Aaron P. Abel Summer 2000
Robert W. Andren Summer 2000
David M. Burns Summer 2000

and Awards

David M. Eglsaer Summer 2000
Chadwick A. Hintz Summer 2000
Reilly J. Holmgreen Summer 2000
Emily L. Lu Summer 2000
Dennis S. Settemeyer Summer 2000
Jonathan M. Skaggs Summer 2000
Brian M. Whitenight Summer 2000

Louis and Elizabeth Scherck Geology Scholarship

David M. Eglsaer Summer 2000
Heather R. Good Fall 1999
Spring 2000
Ross J. Holden Spring 2000
Christy M. Kohl Spring 2000
Susan K. Schneider Spring 2000

F. W. Simonds Endowed Presidential Scholarship

Christopher B. Strganac Fall 1999
Spring 2000

John and Elizabeth M. Teagle Scholarship in Petroleum Geology

Robert W. Andren Summer 2000
Nathan J. Andrews Fall 1999
Bryan P. Bailey Spring 2000
Jennifer K. Dickinson Spring 2000
Ellen C. Harris Spring 2000
Gregory A. Hodge Fall 1999
Frank R. McGilvery Spring 2000
Christi G. Nutter Fall 1999
Lauren V. Reis Spring 2000
Jonathan M. Skaggs Fall 1999
Chi-tseng Wu Spring 2000

Texaco, Inc. Scholarship

Aaron P. Abel Summer 2000
Emily L. Lu Summer 2000

David S. Thayer Memorial Scholarship Fund

Mary M. Harrison Summer 2000
Jason R. Jones Summer 2000

Udden Memorial Scholarship Fund

Nathan J. Andrews Summer 2000

Glenn and Martha Vargas Gemological Scholarship in Geological Sciences

Romy D. Schneider Fall 1999

Albert W. and Alice M. Weeks Fund in Geology

Hayden J. Bray Spring 2000
Christina J. Brister Summer 2000
David M. Burns Spring 2000
John N. Hooker Fall 1999
Robert F. Kierstead Summer 2000
Roman C. Pineda Summer 2000
David P. Rodriguez Summer 2000
Adrienne U. Ruppelt Summer 2000
Douglas S. Sassen Summer 2000
Jonathan M. Skaggs Spring 2000
Makenzie M. Smith Fall 1999
Matthew C. Van Wie Summer 2000
Erik D. Wofford Summer 2000
Kathryn Woodruff Summer 2000

Francis L. Whitney Endowed Presidential Scholarship

Brian B. Andres Fall 1999
Spring 2000

Addison A. and Mary E. Wilkinson Endowed Presidential Scholarship in Geological Sciences

Claudia E. Robinson Fall 1999
Spring 2000

Charles E. Yager Undergraduate Field Scholarship Fund

Hayden J. Bray Summer 2000
Jennifer L. Delk Summer 2000
Mary M. Harrison Summer 2000
Riley J. Holmgreen Summer 2000
Stephanie D. Wise Summer 2000

SCHOLARSHIPS AND GRANTS FROM OTHER AGENCIES

American Association of Petroleum Geologists L. Austin Weeks Undergraduate Grant

David C. Dunbar

Austin Gem and Mineral Society Scholarship

Jaime D. Barnes
Adam M. Dunn
Heather R. Good
Jonathan M. Skaggs

Austin Geological Society

Catherine C. Stahn

Almetris M. Duren Endowed Presidential Scholarship

Jaime D. Barnes

Barry M. Goldwater Scholarship

Calvin A. Lee

Houston Geological Society Scholarship

Scott W. Bale
Fabienne M. Grellet-Tinner

UT Austin Vice President for Research Undergraduate Research Fellowship

Jaime D. Barnes



Graduate Fellowships,

Mary and Ben Anderson Endowment for Graduate Studies in Geology

Daniel F. Harrington	Fall 1999
	Spring 2000
Joel H. Le Calvez	Spring 2000

Thomas R. Banks Memorial Scholarship

James J. Corboy	Spring 2000
Thomas Macrini	Fall 1999
Jennifer L. Perry	Spring 2000
Michele A. Roth	Spring 2000
Christie L. Schneider	Fall 1999
Matthew M. Uliana	Fall 1999
Jean-Paul Van Gestel	Fall 1999
Rosario Vasquez-Scheerhorn	Fall 1999

Laura Thomson Barrow Graduate Fellowship

Marcy B. Davis	Spring 2000
Amy K. Gilmer	Spring 2000
Jennifer A. Head	Spring 2000
Sunday K. Shepherd	Summer 2000
Karah L. Wertz	Fall 1999
	Summer 2000

Leonidas T. Barrow Centennial Chair in Mineral Resources

James J. Corboy	Spring 2000
Wade D. Hutchings	Spring 2000
Cem O. Kilic	Fall 1999
	Spring 2000
Diego Van Berkel	Spring 2000

Wayne Franklin Bowman Endowed Presidential Scholarship

William H. Asquith	1999-2000
Brook C.D. Riley	1999-2000

British Petroleum/Amoco Exploration Scholarship

Theodore R. Ressler	Spring 2000
Brook C.D. Riley	Summer 2000
R. Brian Schlottmann	Summer 2000

Jesse L. Brundrett Memorial Endowed Presidential Scholarship

Donna L. Cathro	1999-2000
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Hal H. Bybee Memorial Fund

Jason G. John	Summer 2000
Sunday K. Shepherd	Fall 1999

Dorothy Ogden Carsey Memorial Scholarship Fund

David L. Dufeu	Summer 2000
Gerald Grellet-Tinner	Summer 2000
Courtney Turich	Summer 2000

Chevron USA, Inc., Scholarship

R. Brian Schlottmann	Fall 1999
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Conoco, Inc., Scholarship

Jaime O. Castillo	Summer 2000
Wade D. Hutchings	Summer 2000

Joseph S. Cullinan Memorial Scholarship in Geological Sciences

Stephen T. Graham	Fall 1999
Wade D. Hutchings	Fall 1999
	Summer 2000

Morgan J. Davis Centennial Chair in Petroleum Geology

N. Ozgur Sipahioglu	Spring 2000
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Ronald K. DeFord Field Scholarship Fund

Joy D. Griffin	Spring 2000
C. Norman Hansen	Fall 1999
Daniel F. Harrington	Summer 2000
Jason G. John	Fall 1999
Brian D. Knight	Summer 2000
Dennis A. Sylvia	Spring 2000
Patrick M. Walsh	Spring 2000

Michael Bruce Duchin Centennial Memorial Endowed Presidential Scholarship

Vickeye R. Velez	1999-2000
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Dupont/Conoco

Karah L. Wertz	Spring 2000
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William Stamps Farish Chair in Geology

Susan D. Anderson	Fall 1999
David M. Hirsch	Summer 2000
Christopher R. McFarlane	Summer 2000

Getty Oil Company Centennial Chair in Geological Sciences

Joel H. Le Calvez	Fall 1999
Daniel F. Harrington	Summer 2000
Brian D. Knight	Summer 2000
Timothy Meckel	Spring 2000

J. Nalle Gregory Chair in Sedimentary Geology

Tarek Elshayeb	Fall 1999
Ricardo Torres Vargas	Fall 1999

F. Earl Ingerson Graduate Research Assistance Fund in Geochemistry

Dennis P. Dunn	Spring 2000
Ayati Ghosh	Spring 2000

John A. and Katherine G. Jackson Fellowship in Geohydrology

Aaron A. Berg	Summer 2000
Annette S. Engel	Summer 2000
Stephen T. Graham	Fall 1999

Martin B. Lagoe Student Research Fund for Micropaleontology

Jason J. Lundquist	Fall 1999
Courtney Turich	Summer 2000

George W. Marshall, Jr. Memorial Endowed Presidential Scholarship

Karen I. Mohr	1999-2000
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Mobil Foundation, Inc. Fellowship

Cory L. Hoffman	Spring 2000
Dennis A. Sylvia	Fall 1999

William R. Muehlberger Field Geology Scholarship Fund

Juan Bermudez Santana	Fall 1999
James Corboy	Fall 1999

Pennzoil and Pogo Producing Companies-William E. Gipson Scholarships

Russell R. Hamman	Fall 1999
Brian B. Hunt	Spring 2000
Bradley H. Reid	Summer 2000

Phillips Petroleum Company Fellowship

Junru Jiao	Spring 2000
Vickeye R. Velez	Spring 2000

Louis and Elizabeth Scherck Geology Scholarship

C. Norman Hansen	Summer 2000
April M. Hoh	Spring 2000
Matthew Rodell	Summer 2000
Karah L. Wertz	Fall 1999

Wilton E. Scott Centennial Professorship

Karah L. Wertz	Fall 1999
Justin A. Zumbro	Fall 1999

Scholarships and Meeting Support, Various Donors

Ricardo Combellas Bigott	Spring 2000
Donna L. Cathro	Spring 2000
Deanna M. Combs	Spring 2000
James J. Corboy	Spring 2000
Dennis P. Dunn	Fall 1999
	Spring 2000
Alejandro Escalona	Spring 2000
Joy D. Griffin	Spring 2000
Russell R. Hamman	Spring 2000
Wade D. Hutchings	Spring 2000
Jason G. John	Spring 2000
Sussane Kvarsvik	Spring 2000
Roy B. Luck	Spring 2000
Christopher McFarlane	Fall 1999
	Spring 2000

Scholarships, and Awards

Simona Melappioni	Spring 2000
Jose J. Mendoza	Spring 2000
Thomas E. Miskelly	Spring 2000
Assif Mussaffar	Spring 2000
Sylvia Nordfjord	Spring 2000
Jennifer L. Perry	Spring 2000
Claudia Rassi	Spring 2000
Marel A. Sanchez	Spring 2000
Sunday K. Shepherd	Spring 2000
N. Ozgur Sipahioglu	Spring 2000
Leonel A. Gomez Torres	Spring 2000

Walter Benona Sharp Memorial Scholarship in Geological Sciences

Michael H. Bradley	Summer 2000
Wade D. Hutchings	Fall 1999

William T. Stokes Centennial Teaching Fellowship in Geological Sciences

Jason G. John	Spring 2000
Courtney H. Turich	Fall 1999

Harlan Tod Sutherland Memorial Scholarship

Wade D. Hutchings	Summer 2000
Sunday K. Shepherd	Summer 2000
Courtney Turich	Summer 2000

John and Elizabeth M. Teagle Scholarship in Petroleum Geology

Wade D. Hutchings	Fall 1999
	Summer 2000
Thomas E. Miskelly	Fall 1999
Asif Muzaffar	Spring 2000
Sunday K. Shepherd	Spring 2000
N. Ozgur Sipahioglu	Spring 2000
Rosario Vasquez Scheerhorn	Spring 2000

Texaco Inc. Scholarship

Joy D. Griffin	Spring 2000
Daniel F. Harrington	Fall 1999
Thomas E. Miskelly	Summer 2000
Dennis A. Sylvia	Spring 2000

Glenn and Martha Vargas Endowed Presidential Scholarship

Dennis P. Dunn	1999-2000
Christopher R. McFarlane	1999-2000

Albert W. and Alice M. Weeks Fund in Geology

Kirk Chatawanich	Spring 2000
MaryLynn Musgrove	Summer 2000
Jennifer Roberts Rogers	Summer 2000
R. Brian Schlottmann	Summer 2000

Arno P. (Dutch) Wendler Professional Development Fund

Robert L. Burger	Fall 1999
Donna L. Cathro	Fall 1999
	Spring 2000
James J. Corboy	Spring 2000
David L. Dufeu	Fall 1999
Catherine L.S. Duncan	Fall 1999
Gerald Grellet-Tinner	Fall 1999
Jeffrey S. Harrison	Fall 1999
Wade D. Hutchings	Fall 1999
Kaveh Khorzad	Fall 1999
Michael T. Landrum	Fall 1999
Roy B. Luck	Fall 1999
MaryLynn Musgrove	Fall 1999
Matthew Rodell	Fall 1999
	Summer 2000
Matthew M. Uliana	Fall 1999
Jean-Paul Van Gestel	Spring 2000

Francis L. Whitney Endowed Presidential Scholarship

Ronald S. Tykoski	1999-2000
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SCHOLARSHIPS, FELLOWSHIPS, GRANTS, AND OTHER AWARDS FROM OTHER AGENCIES

American Association of Petroleum Geologists Grants-in-Aid, 1999-2000

James J. Corboy
Tarek A. Elshayeb
Wade D. Hutchings
Asif Muzaffar
Sunday K. Shepherd
Tony J. Troutman

American Association of Petroleum Geologists Jules Braunstein Memorial Award for Best Poster

Eloise H. Doherty

American Federation of Mineralogical Societies Scholarship Foundation, 1999-2000

Dennis P. Dunn
Christopher R. McFarlane

Austin Geological Society

Gerald Grellet-Tinner
Brook C. D. Riley

Dallas Geological Society Helsewick Scholarship

Charna E. Meth

Department of Energy Graduate Research Environmental Fellowship

Marcia L. Bransetter

Environmental Protection Agency Science to Achieve Results, 1999-2000

MaryLynn Musgrove

Geological Society of America

David L. Dufeu
Joel Le Calvez
Timothy A. Meckel

Gulf Coast Association of Geological Societies

Tarek A. Elshayeb
Dennis A. Sylvia
Xinxia Wu

NASA Fellowship, 1999-2000

Marcia L. Bransetter
Stephen T. Graham
Matthew Rodell

National Science Foundation Graduate Research Traineeships, 1999-2000

Deanna M. Combs
Todd Halihan
Mary S. Lear
Patrick Mickler

Society of Economic Geologists

Amy K. Gilmer
Jennifer A. Head

Society of Exploration Geophysicists Award of Merit

Jean-Paul Van Gestel

Society of Independent Professional Earth Scientists

Eric M. Matzel
Matthew M. Uliana

UT Austin Graduate School Continuing University Fellowship, 1999-2000

Karen I. Mohr

UT Austin Graduate School Tuition Fellowship, 1999-2000

Dennis A. Sylvia



GRADUATE DEGREES IN GEOLOGICAL SCIENCES CONFERRED BY THE UNIVERSITY OF TEXAS AT AUSTIN, 1999-2000

MASTER OF SCIENCE AUGUST 1999 (3)

Luck, Roy B.

B.A., Geology, 1995, Carleton College
Structural Geology of the Grasberg Lime Quarry and Amole Drift: Implications for Emplacement of the Grasberg Igneous Complex, Irian Jaya, Indonesia
Supervisor: Mark P. Cloos
Committee Members: Sharon Mosher, James N. Connelly

Park, Yong-Jong

B.S., Geology, 1990, Yonsei University
Depositional Facies Analysis from Seismic Attributes in the Pattani Basin, Gulf of Thailand
Supervisor: William L. Fisher
Committee Members: William E. Galloway, Bob A. Hardage

Rico, Laura

B.A., Geology, 1995, Macalester College
Geometric and Kinematic Evolution of a Complete Detachment Fold in a Natural Cross-Section
Supervisor: Randall A. Marrett
Committee Members: Sharon Mosher, Mark A. Helper

DOCTOR OF PHILOSOPHY AUGUST 1999 (4)

Aljuhani, Salem G.

B.S., Geology, 1989, King Fahd University of Petroleum & Minerals
M.S., Geology, 1992, University of Southern California
Data Integration for Reservoir Characterization: A Central Arabian Oil
Supervisor: Milo M. Backus
Committee Members: Paul L. Stoffa, William E. Galloway, Bob A. Hardage, Larry W. Lake, Clark R. Wilson

Colbert, Matthew W.

B.A., Zoology, 1986, University of California, Berkeley
M.S., Biology, 1993, San Diego State University
Patterns of Evolution and Variation in the Tapiroidea (Mammalia: Perissodactyla)
Supervisors: Timothy B. Rowe, E. L. Lundelius, Jr.
Committee Members: Richard L. Cifelli, James T. Sprinkle, David M. Hillis

Liu, Faqi

B.S., Mathematics, 1986, Qufu Normal University
M.S., Geology, 1989, Chinese Academy of Sciences
Surface Multiple Attenuation Operators in the Plane Wave Domain: Theory and Applications
Supervisors: Paul L. Stoffa, Mrinal K. Sen
Committee Members: Stephen P. Grand, Milo M. Backus, Guillaume Cambois

Reed, Robert M.

B.S., Geology, 1985, The University of Texas at Austin
M.S., Geology, 1993, University of Massachusetts, Amherst
Emplacement and Deformation of Late Syn-Orogenic, Grenville-Age Granites in the Llano Uplift, Central Texas
Supervisor: Sharon Mosher
Committee Members: Calvin G. Barnes, Daniel S. Barker, William D. Carlson, T. Kenneth Fowler

MASTER OF SCIENCE DECEMBER 1999 (7)

Beall, Jennifer L.

B.S., Geology, 1995, The University of Texas at Austin
Wolfcampian (Lower Permian) Platform and Basin Carbonates: Hueco Mountains and Midland Basin, West Texas
Supervisor: Brenda L. Kirkland
Committee Members: Charles Kerans, William L. Fisher

Clark, Stephen A.

B.A., Geophysics, 1996, Rice University
Along-Strike Variation of a Non-Volcanic Rifted Margin: A Concurrent MCS and OBS Investigation of Galicia Band and the Iberia Abyssal Plain
Supervisors: James A. Austin, Paul L. Stoffa
Committee Member: Yosio Nakamura

Courme, Bruno

B.S., Geology, 1996, Ecole Nationale Supérieure des Mines de Paris
Forward Seismic Modeling of a Shelf-to-Slope Carbonate Depositional Setting from Outcrop Data, the Abo Formation of Apache Canyon, West Texas, and Comparison to Its Subsurface Equivalent, Kingdom Abo Field, Midland Basin
Supervisors: William L. Fisher, Charles Kerans
Committee Member: Bob A. Hardage

Faulkenberry, Laura L.

B.S., Geology, 1994, University of Houston, University Park
Sedimentology and Depositional History of the Miocene Gila Group in the Mimbres Basin Grant County, New Mexico
Supervisor: Richard T. Buffler
Committee Members: William E. Galloway, William L. Fisher

Harrison, Jeffrey S.

B.A., Geology, 1995, Colby College
Hydrothermal Alteration and Fluid Evolution of the Grasberg Porphyry Cu-Au Deposit, Irian Jaya, Indonesia
Supervisor: J. Richard Kyle
Committee Members: Libby A. Stern, William D. Carlson

Moros, Javier G.

B.S., Geology, 1986, Universidad Nacional de Colombia
Relationship between Fracture Aperture and Length in Sedimentary Rocks
Supervisor: Randall A. Marrett
Committee Members: Stephen E. Laubach, William L. Fisher

Zumbro, Justin A.

B.S., Geology, 1997, University of Florida
A Structural, Petrologic, and Geochemical Investigation of the Valley Spring Gneiss of the Southeastern Llano Uplift, Central Texas
Supervisor: Sharon Mosher
Committee Members: Mark A. Helper, James N. Connelly

AWARDED

DOCTOR OF PHILOSOPHY DECEMBER 1999 (6)

Gournay, Jonas P.

B.S., Geology, 1983, University of Louisiana, Lafayette

Phylloid Algal Bioherms and Ooid Grainstones: Characterization of Reservoir Facies Utilizing Subsurface Data from the Aneth Platform and Outcrop Data along the San Juan River,

Paradox Basin, Southeastern Utah

Supervisor: Brenda L. Kirkland

Committee Members: Lawrence J. Weber, Jay L. Banner, Lynton S. Land, Earle F. McBride, Kitty L. Milliken

Guzman Espinal, Jose I.

B.A., Geology, 1980, University of Colorado at Boulder

M.S., Geology, 1995, Universidad Central de Venezuela

Miocene Stratigraphy and Depositional

Framework of Northeastern Maracaibo

Basin, Venezuela: Implications for Reservoir

Heterogeneity Prediction in Tectonically

Active Settings

Supervisors: William L. Fisher, Noel Tyler

Committee Members: Shirley P. Dutton,

Christopher D. White, William E. Galloway,

Milo M. Backus

Hamlin, H. Scott

B.A., Anthropology, 1975, The University of Texas at Austin

M.S., Geology, 1984, The University of Texas at Austin

Syn-orogenic Slope and Basin Depositional

Systems, Ozona Sandstone, Val Verde Basin,

Southwest Texas

Supervisor: William E. Galloway

Committee Members: George B. Asquith,

Earle F. McBride, William L. Fisher,

Larry W. Lake

Nuth, Vannaroth

B.S., Aerospace Engineering, 1989,

The University of Texas at Austin

M.S., Aerospace Engineering, 1991,

The University of Texas at Austin

The Analysis of Radar Altimeter Waveform

Reflections over Continental Ice Sheets

Supervisor: Clark R. Wilson

Committee Members: James S. Famiglietti,

Donald D. Blankenship, Milo M. Backus,

Byron D. Tapley

Souza, Rogerio S.

B.S., Geology, 1980, Universidade do vale do Rios de Sinos

M.S., Geology, 1989, Universidade de Federal do Rio de Janeiro

Integrated Diagenetic Modeling and Reservoir

Quality Assessment and Prediction of the Agua

Grande Sandstones, Early Cretaceous, Reconcavo

Basin, Northeast Brazil

Supervisor: Earle F. McBride

Committee Members: Shirley P. Dutton,

Robert L. Folk, William L. Fisher,

Kitty L. Milliken

Tsoflias, Georgios P.

B.S., Geology, 1989, Virginia Polytechnic Institute & State University

M.S., Geology, 1991, Virginia Polytechnic Institute & State University

Hydrogeologic Characterization of

Fractured Carbonate Aquifers Employing

Ground-Penetrating Radar

Supervisor: John M. Sharp, Jr.

Committee Members: Paul L. Stoffa,

Donald D. Blankenship, Jeffrey G. Paine,

Clark R. Wilson

MASTER OF SCIENCE MAY 2000 (10)

Bené, James E.

B.S., Geology, 1997, The University of Texas at El Paso

Non-Darcy Flow through Porous Media

Supervisor: John M. Sharp, Jr.

Committee Members: James S. Famiglietti,

Kamy Sepehrnoori

Hernandez Mendoza, Jose J.

B.S., Geology, 1986, Instituto Tecnológico de Ciudad Madero

Interpretation and Distribution of Depositional

Systems: Oligocene Frio Deposition in the

Subsurface of Burgos Basin, Northeastern Mexico

Supervisor: William E. Galloway

Committee Members: William L. Fisher,

Randall A. Marrett

Hoh, April M.

B.S., Geology, 1997, Trinity University

Deformational History of the Valley Spring Domain

in the Northeastern Llano Uplift, Devils Waterhole,

Inks Lake State Park, Burnet County, Texas

Supervisor: Sharon Mosher

Committee Members: Mark A. Helper,

James N. Connelly

Hunt, Brian B.

B.S., Geology, 1996, The University of Texas at Austin

Mesoproterozoic Structural Evolution and

Lithologic Investigation of the Western Llano

Uplift, Mason County, Central Texas

Supervisor: Sharon Mosher

Committee Members: Mark A. Helper,

James N. Connelly

Khorzad, Kaveh

B.S., Geology, 1998, The University of Texas at Austin

Land Subsidence along the Texas Gulf

Coast Due to Oil and Gas Withdrawal

Supervisor: John M. Sharp, Jr.

Committee Members: James S. Famiglietti,

Jeffrey G. Paine

Lambert, Cori A.

B.S., Geology, 1996, The University of Texas at Austin

Subsurface Meso-Scale Structural Geology

of the Kucing Liar and Amole Drifts and

Petrology of the Heavy Sulfide Zone, South

Grasberg Igneous Complex, Irian Jaya, Indonesia

Supervisor: Mark P. Cloos

Committee Members: William D. Carlson,

Randall A. Marrett

Landrum, Michael T.

B.S., Geology, 1997, The University of Texas at Austin

Hydrogeologic Properties of Fracture Skins

and Their Effects on Radionuclide Transport

Supervisor: John M. Sharp, Jr.

Committee Members: Philip C. Bennett,

Randall A. Marrett

Roth, Michelle A.

B.S., Geology, 1997, University of Arizona at Tucson

Comparison of Two Archean Orthogneiss

Suites in the Paleoproterozoic Nagssugtoqidian

Orogen of West Greenland

Supervisor: James N. Connelly

Committee Members: Leon E. Long,

Sharon Mosher

Sipahioglu, Nazim O.

B.S., Geology, 1995, Middle East Technical University

Facies Architecture and Depositional History of the Upper Miocene Genetic Sequence, South Marsh Island Area, Gulf of Mexico

Supervisor: William E. Galloway

Committee Members: William L. Fisher, J. Richard Kyle

Stachowiak, John S.

B.S., Geology, 1997, Colorado School of Mines

The Nature and Causes of Backstop Deformation in the Northern Lesser Antilles Subduction Zone

Supervisors: Paul L. Stoffa, Nathan Bangs

Committee Member: Stephen P. Grand

DOCTOR OF PHILOSOPHY MAY 2000 (5)

Halihan, Todd

B.A., Physics, 1992, Monmouth College (IL)

M.S., Geology, 1996, University of Missouri Columbia

Permeability Structure in Fractured Aquifers

Supervisor: John M. Sharp, Jr.

Committee Members: Peter Cook, Larry W. Lake, Philip C. Bennett, Randall A. Marrett

Hoffman, Cory L.

B.S., Geology, 1992, Virginia Polytechnic Institute and State University

Evidence for Milankovitch Orbital Forcing in the Cretaceous Upper Glen Rose Formation of the East Texas Basin and the Fort Terrett Formation of the Central Texas Platform

Supervisor: Brenda L. Kirkland

Committee Members: Charles Kerans, Susan D. Hovorka, Jay L. Banner, Michelle A. Kominz, Richard T. Buffler

Liu, Qunling

B.S., Geophysics, 1984, China University of Geology

M.S., Geology, 1987, China University of Geology

Post Mid-Cretaceous Sequence Stratigraphy and Depositional History of Northeastern Gulf of Mexico

Supervisor: Richard T. Buffler

Committee Members: William E. Galloway, Milo M. Backus, Hilary C. Olson, Craig S. Fulthorpe

Lundquist, Jason J.

B.S., Geology, 1988, Old Dominion University

M.S., Geology, 1993, Old Dominion University

Foraminiferal Biostratigraphic and Paleocyanographic Analysis of the Eagle Ford, Austin, and Lower Taylor Groups (Middle Cenomanian through Lower Campanian) of Central Texas

Supervisor: Brenda L. Kirkland

Committee Members: R. Mark Leckie, Charles Kerans, William E. Galloway, Hilary C. Olson, Keith Young

Owen, Pamela R.

B.S., Biology, 1987, California State University-Long Beach

M.S., Biology, 1994, California State University-Long Beach

Phylogenetic Relationships among American Badgers (Taxidinae) and Evolution of the Badger Ecomorph

Supervisors: Timothy B. Rowe,

Ernest L. Lundelius, Jr.

Committee Members: Richard H. Tedford, James T. Sprinkle, John W. Kappelman, Jr.



UNDERGRADUATE DEGREES IN GEOLOGICAL SCIENCES CONFERRED BY THE UNIVERSITY OF TEXAS AT AUSTIN, 1999-2000

BACHELOR OF ARTS AUGUST 1999 (1)

Angela D. Masloff *Honors*

BACHELOR OF SCIENCE AUGUST 1999 (6)

Eleanor J. Camann *Highest Honors*

Deanna M. Combs
Thomas A. Golden
Barbara L. Lorenzo-Rigney *Honors*
Charna E. Meth
Raphael M. Schmitz

BACHELOR OF ARTS DECEMBER 1999 (3)

Jerome J. Pesek
Nancy S. Ragland
Candyce D. Smelser

BACHELOR OF SCIENCE DECEMBER 1999 (13)

Jullie N. Craun
Gregory A. Hodge
Donald B. Pairsh
Garner J. Peterson
Melanie A. Humphrey
Brenda D. Koch *Honors*
Holly J. Nichols
Sherri K. Randal
Christopher P. Riley
Romy D. Schneider *Special Honors in Geological Sciences*

Cody M. Simmang
Aubrey L. Waddail
Jennifer L. Weber

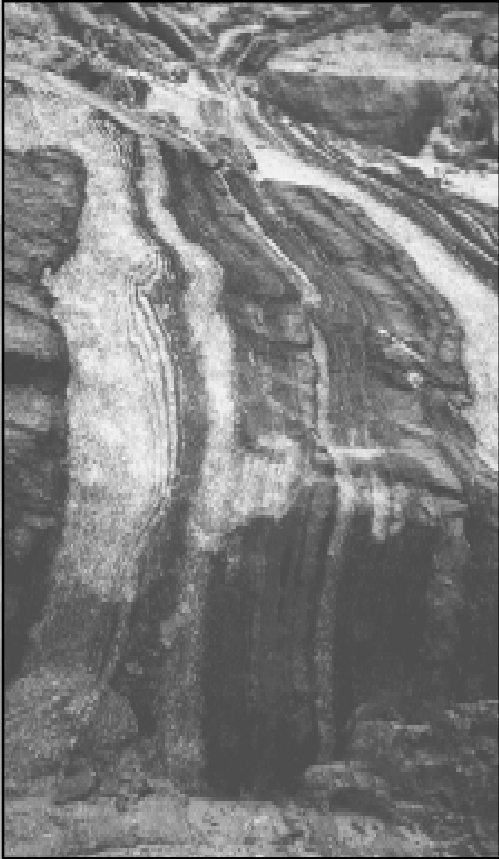
BACHELOR OF ARTS MAY 2000 (4)

Scott W. Bale
John N. Hooker
Christi G. Nutter
Laurie D. Powery

BACHELOR OF SCIENCE MAY 2000 (11)

Brian B. Andres
Amy M. Balanoff
Jaime D. Barnes *Special Honors in Geological Sciences*

Iliana M. Delgado
Heather R. Good
Michael S. Jaffre
Eric R. North
Kristie L. Persky
Danielle E. Schleman
Sunny B. Simpkins
Jim O. Vasquez ❖



SEE PHOTOS ON FRONT AND BACK COVERS.

Other Geoscience Units of The University

Bureau of Economic Geology

Using a full array of geologic and geophysical data, Bureau researchers are identifying new development opportunities and developing new methodologies to aid in the search for reserves in Miocene strata in the northern Gulf of Mexico.

BY TUCKER F. HENTZ

The Bureau of Economic Geology entered 2000 under new leadership, as Scott W. Tinker was appointed the Director in late January. Long-time Director William L. Fisher served the Bureau once again as Interim Director at the request of University administration when former Director Noel Tyler stepped down in June. Formerly with Marathon Oil Company, Tinker brings to the Bureau extensive experience in designing and managing multidisciplinary studies of large hydrocarbon fields. Tinker is enthusiastic about forging new bonds with the Department as opportunities arise for cooperative, interdisciplinary studies.

In 1999-2000, the Bureau conducted 91 geoscientific and environmental research projects, both abroad and within the United States. A discussion of selected projects follows.

Development of innovative geologic strategies for hydrocarbon exploration and development is the primary emphasis of Bureau energy-resources investigations that are supported by industrial consortia. The Reservoir Characterization Research Laboratory is integrating detailed outcrop-analog and subsurface reservoir studies to reexamine fields in the Permian Basin, such as the

Horseshoe Atoll and the giant fields in the North Caspian Basin. The Applied Geodynamics Laboratory's ongoing program of tectonic modeling is now complemented by an investigation of salt tectonics along the Angolan margin, West Africa, in which scientists are examining clearly imaged structural systems to help resolve poorly imaged subsalt structures in the Gulf of Mexico. The Exploration Geophysics Laboratory continued its intensive efforts to develop cutting-edge technologies, particularly of multicomponent data-processing and imaging technologies, that will image reservoirs using all components of the seismic wavefield. Researchers of the Fracture Imaging Laboratory are striving to understand and successfully characterize, predict, and simulate reservoir-scale fractures and faults by means of electron microscope-based imaging devices, quantitative descriptions of how structures of differing scales are related, and innovative geomechanical modeling techniques.

Bureau investigations of domestic siliciclastic and carbonate oil reservoirs continued to stress advanced research approaches to optimize hydrocarbon-recovery strategies. Using a full array of

geologic and geophysical data, Bureau researchers are identifying new development opportunities and developing new methodologies to aid in the search for reserves in Miocene strata in the northern Gulf of Mexico. In an effort to develop fluid-flow simulators to predict performance of carbonate reservoirs, Bureau geologists are applying modeled rock-fabric and natural-fracture data derived from Clear Fork outcrops in the Sierra Diablo Mountains, West Texas, to the South Wason Clear Fork reservoir, a major reservoir in the Permian Basin. Bureau researchers are also focusing on the use of geomechanical modeling to improve prediction of fracture attributes in the interwell region.

The Bureau's international program involved five reservoir-characterization and basin-analysis projects in Austria and Venezuela. The Bureau's work on Matzen field, Vienna Basin, on behalf of OMV Aktiengesellschaft, has been completed, and as a result of the study, OMV has seen tangible improvements in reservoir production. Identification and mapping of remaining oil and the development of reservoir-management strategies for more efficient recovery were the primary objectives of four Bureau investigations in Venezuela:

Mara Este field in the Maracaibo Basin, western Venezuela; the Mioceno Norte area of Lake Maracaibo; the Roblecito and La Pascua reservoirs in the East Guarico Unit, eastern Venezuela; and the Sanvi-Guere Unit in eastern Venezuela.

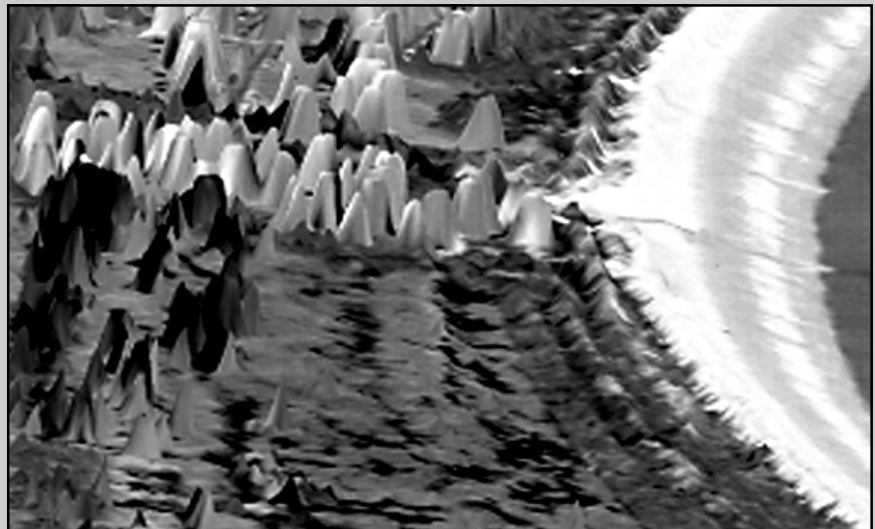
The Bureau also has world-class expertise in hydrology and environmental programs where efforts addressed a diverse array of geoenvironmental topics, such as ground-water management, subsurface waste containment, and CO₂ sequestration. Bureau researchers and staff from the Texas Water Development Board are applying advanced airborne and ground-based geophysical methods to assist South Texas communities in locating new aquifers and assessing the water quality of potential resources. Bureau scientists are

also developing long-term sets of field data that can be used to verify and validate numerical simulations and to develop a better understanding of the performance of reliable engineered covers for waste-disposal facilities in arid environments. Two Bureau projects are evaluating the suitability of hydrocarbon reservoirs that are nearing their economic limit and saline aquifers for sequestering the greenhouse gas CO₂.

Nine projects composing the Bureau's coastal investigations program this year stressed historical trends in coastal shoreline change, wetland creation and preservation, and coastal processes and their influence on coastal management. Among these projects, Bureau coastal scientists are conducting a regional study to characterize and map

different shoreline types that occur along the Gulf of Mexico, in the interior bays, and along the Gulf Intracoastal Waterway. Using topographic transects of beach profiles and airborne laser terrain mapping (ALTM) surveys, researchers are also documenting changes in beach and dune topography to provide base-line present conditions of the Galveston County beach and dune system to anticipate the effects of future hurricanes. To more fully understand the dynamic processes of coasts, Bureau scientists are developing and applying the latest survey technologies, such as ALTM, to study 150 km of the southeast Texas coast. All these findings will provide coastal scientists critical guidance in predicting future shoreline change and storm hazards. ❖

Digital elevation model (DEM) of a portion of Bolivar Peninsula on the southeast Texas coast textured with an infrared digital orthophoto. Vegetation is shown in various darker shades, whereas barren areas, such as the beach, are shown in lighter shades. White buildings and dark trees show up as sharp protrusions because vertical exaggeration is about 15 times. This perspective distinctly shows subtle beach and dune topography. The DEM is developed from data acquired during an airborne laser terrain mapping (ALTM) survey. Bureau researchers are combining highly detailed and accurate topography from ALTM surveys with other remote sensing imagery to map coastal environments and monitor topographic change.



Making a Difference

A Look at the Work Accomplished by Undergraduate and Graduate Geological Sciences Students in the Collections of

Texas Memorial Museum

by Ann Molineux



Have you ever wondered what happens to your specimens after you complete your thesis or dissertation? Some of you took these prime specimens with you, but many of you left them with your supervisor, or perhaps just “in the drawer.” In the past, most such specimens were destined for the basement of the Geology building, there to be cataloged by Keith Young into the Adkins or UT Collections. Other specimens went into the collections of the Bureau of Economic Geology (BEG). Type specimens, newly described genera and/or species, were placed in a third “itinerant” collection under the care of the Curator of Geology at the Texas Memorial Museum (TMM).



These collections, now estimated at four million specimens, and consisting of invertebrate fossils, rocks, minerals, and even fossil plants, are now under TMM’s care. They are distributed among several buildings at the J. J. Pickle Research Campus (PRC) be-

cause the museum building itself has virtually no behind-the-scenes space. Most are stored in a warehouse, with no climate control, frequent exposure to truck emissions, and a great deal of dust. The rest (primarily type specimens) are housed under better conditions in two other buildings. The many moves the collections have endured over the years, together with a decades-long lack of funds for their management, have resulted in specimens scattering, damage, or complete loss, and a general state of disarray. Although most specimens are cataloged and

individually numbered, there is no centralized inventory to give quick access to specific parts of the collection. Finding any particular specimen can be a difficult task in real time (if we were considering geologic time, of course, it would be another matter). In essence, those specimens you spent so much time on are buried in dust and lost to further research. Or should we say “were lost and buried?” Over the last year and a half, remarkable changes have taken place, through the combined efforts of TMM, UTDGS, and the Geology Foundation. Starting in January 1999 with the establishment of the Non-vertebrate Paleontology Laboratory (NPL) and the hiring of these collections’ first full-time manager, work has begun to transform these collections into the fully accessible research resource they should be.

In pursuing this mammoth task, NPL has benefited from three major sources of help. An 18-month-long grant from the Institute of Museum and Library Services (IMLS) provided salaries for a student assistant and modest funding for equipment and materials. TMM provided matching funds for 16 new dust- and insect-proof metal cabinets, as well as ongoing funding for computer equipment, general operating funds, the collection manager’s salary, and parts of several students’ salaries. Chronologically last, but by no means least, is the Thomas and Ray Burke Student Job Program, an endowment for undergraduate employment, which has funded a number of additional student workers. This last source is especially important because it enables us to retain student input at a level above that which the modest income of TMM could support.

In many ways, the most valuable of all these contributions have been the students themselves. They form a vital part of a small team that is actively coping with a curation and conservation problem of enormous proportions, and their interest and enthusiasm have been of tremendous benefit. Undergraduate students Miriam Akselrod, David Eglsaer, and Justin Hall were employed all of this schoolyear through the Burke program, and Melissa Gunter has been employed since last June courtesy



of the IMLS grant and TMM funds. Scott Bale worked last summer, also on Burke funds, and Tim Gibbons joined our undergraduate workers this semester. Graduate student Lyn Murray worked with us last summer, succeeded by Courtney Turich in the fall and Gerald Grellet-Tinner in the spring. Through these students' combined efforts we have been able to inventory more than 41,000 specimens, match them with 9,500+ computerized catalog records, and clean and relocate about 6,000 lots into the new metal cabinets, and we hope to accomplish even more this summer, when several of our students will continue their work for us on a combination of TMM and Burke (and hopefully other sources of) funding.

This sort of hands-on experience can be extremely exciting and worthwhile for any geology student, providing them with an incalculable enrichment in geology. The students handle a huge number of samples and a vast range of species, receiving more exposure to specimens than they would in several semesters-worth of formal classes. They become familiar with

WEB LINKS

Main NPL Home Page:

<http://octopus.npl.utexas.edu/npl/>

Gems and Minerals:

<http://octopus.npl.utexas.edu/npl/mineralogy/>

the stratigraphy of the section being worked on (currently the Cretaceous of central Texas), the groups, formations, and members that it includes, and any changes in nomenclature. They learn how to recognize, clean, and curate specimens, to interact with and add to a computer database, to scan specimen labels, and to clean and catalog thin sections, microfossil slides, and acetate peels. They discover how easily beautiful specimens can be rendered scientifically useless by the lack of labels or information regarding provenance. They also learn how carefully specimens must be treated, in terms of chemical cleaning, and

how they may easily become worthless (especially to geochemical analyses) because of hasty varnishes or improper handling.

Students also meet and interact with our small but growing band of dedicated volunteers and with researchers who use the collections, and they see how their own efforts can benefit visitors to the collections. In the fall semester, for example, we hosted a French graduate student, Emmanuel Robert, who was working in Peru on early Albian ammonites; we were able to find the relevant specimens for this research much more easily thanks to the diligent computer inventory and catalog entries done by our students. When Andre Soloviev, a Russian echinoid specialist from Moscow, visited during the fall, that growing database provided essential information. Ethan Grossman, an isotope geochemist from Texas A&M, came to select suitable Tertiary gastropods for a study on seasonal patterns as reflected in the stable isotope variations, and Charles Finsley, the author of a guidebook to Texas fossils, came to start research for his new edition of the volume.

Fall semester's high point was an opportunity for the students to join a group of distinguished stratigraphers (Dave Amsbury, Bill Ward, and Bob Scott) in the field for an exploration of the Hensel-Glen Rose contact in Blanco County. In the spring, a visit from German coral expert Hannes Loeser and consulting bio-stratigrapher Bob Scott was the occasion for another field trip. By the end of the school year students felt comfortable enough with their jobs to demonstrate their work for and field questions from a visiting group of amateur paleontologists.

The initial call for student workers at NPL generated 15 applications from UTDGS students and several from students in physics and engineering, proving that there is a real interest in and need for this type of employment, especially at the undergraduate level. The students learn to perform sometimes-complex tasks reliably and competently, and gain experience in a real job environment. Their presence has been instrumental in the increased momentum of the whole project, and as the year progressed, each of them has added his or her personal imprint. They fulfill a critical role in our drive to make these valuable, and in many cases irreplaceable, geological collections accessible once again for research and education. ❖

The Non-Vertebrate Paleontology Lab will pursue grants and other sources of funds to continue collections improvements. However, to provide long-term curation an endowment is appropriate. Dr. Ann Molineux, a UT Austin graduate and Manager of the Lab, is pledging \$5,000 as a challenge donation for the development of an endowment in the Geology Foundation. It will be known as the Non-Vertebrae Collections Fund; when fully endowed, a name in accordance with the wishes of the donors will be selected.

CENTER: Investigating the suture pattern of an ammonite helps Melissa Gunther check the identity of a specimen.

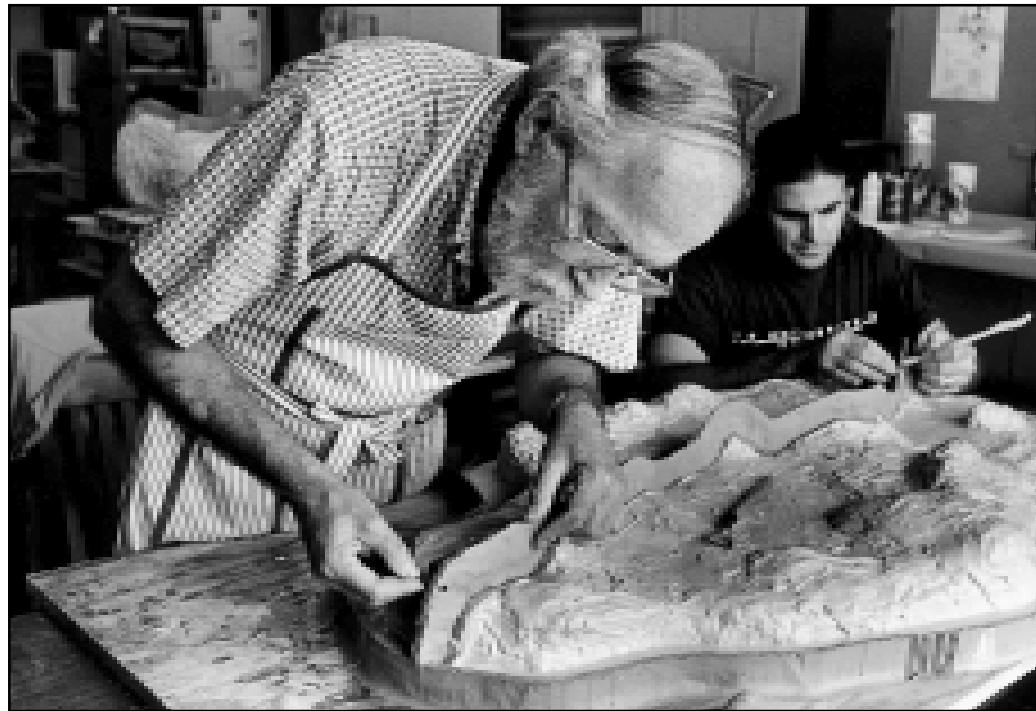
OPPOSITE PAGE: Deciphering specimen numbers, Miriam Akselrod (left) and Tim Gibbons (right) are at work in the warehouse.

Vertebrate Paleontology Laboratory Collections—

As any UT graduate in vertebrate paleontology will tell you, the greatest strength of our graduate program in vertebrate paleontology is the huge collection of fossils housed in the three-story building known as the Vertebrate Paleontology Laboratory. Professor Emeritus John A. Wilson founded the Vertebrate Paleontology Laboratory in 1949, but the history of the collections started almost a century before that.

Fossil bones were first collected from rocks in Texas as early as 1853, but whatever happened to those bones is no longer known. Over the next half-century, modest but important collections were made in the state, some of which were sent to O. C. Marsh of Yale University and some to Edward Drinker Cope of the Philadelphia Academy of Sciences. The infamous Cope-Marsh battle was inflamed partly over these fossils, as the mutual jealousy of these great paleontologists spurred a race to be the first to publish on the Permian rocks of Texas. Cope was the first to present his findings on the Texas Permian to a scientific meeting, but Marsh scooped him and was first in print. In 1890-1894 the Texas Geological Survey, under the direction of E. T. Dumble, employed E. E. Cummins to collect, and E. D. Cope was retained to study and report on Permian, Triassic, and Cenozoic fossils from the northern part of the state. Among the specimens collected were several new species, which Cope named and described a few years before his death in 1897. Cope's type specimens were eventually repatriated and are now housed at the Vertebrate Paleontology Laboratory.

For several more decades, museums from across the country continued to collect in Texas and hauled away tons of important specimens before vertebrate paleontology was systematically undertaken by a Texas State agency. Finally in



1935-1937, the first modest collections to remain in the state were made by Dr. H. B. Stenzel, whose aim was to assemble displays for the Texas Centennial Exposition. Although most of the specimens accumulated by Dr. Stenzel were from other parts of the country, some noteworthy specimens of scientific interest were collected from the rocks of Texas, and they were eventually turned over to the Texas Memorial Museum, which was then under construction on the campus of The University of Texas at Austin.

The first significant organized explorations for fossil vertebrates to be made under state sponsorship were begun in 1940, by E. H. Sellards. At that time, Sellards was Director of the Texas Bureau of Economic Geology, and he had become an eminent vertebrate paleontologist. Sellards obtained a Federal grant through the Works Progress Administration for a statewide paleontological and mineralogical survey that lasted roughly two and a

half years. The project employed an average of 25 men in addition to supervisory personnel, and it operated in 22 different counties across the state. By its end, the program had accumulated approximately 11,000 vertebrate specimens, at a cost of approximately \$300,000. At the time, this was the largest and most diversified collection of fossil vertebrates in the south-central United States. It included the largest assemblage of Triassic vertebrates from Texas ever made, an important collection of Permian vertebrates, and many other specimens. During World War II, however, most of the collection had to be put

ABOVE: Master preparator Bob Rainey (foreground) and exhibit designer John Maisano (background) prepare a mold of one of VPL's giant turtle specimens for a special kid's exhibit being built at the Austin Science and Nature center. The new exhibit will be a "Dino Pit" that kids can visit to excavate concrete replicas of some of VPL's finest specimens.

RIGHT: Tim Rowe (left) and Chris Bell (right) examine an amphibian skull in the basement of VPL.

into storage, and the head of paleontological steam that Dr. Sellards had built up was all but lost. A few display-quality specimens were transferred to the Texas Memorial Museum, and the rest were scattered about various labs, basements, closets, and attics on the UT campus.

When Dr. Wilson arrived in the Geology Department after the War, he met a situation that was rather difficult. Most of the fossils belonged to the Bureau of Economic Geology, which had neither paleontologists nor technicians that could be dedicated to work with vertebrate fossils. The Texas Memorial Museum had a technician but no collection or paleontologist. The Geology Department now had a vertebrate paleontologist, who offered courses on the subject, but the Department had neither a collection nor a technician. Dr. Wilson negotiated a partial solution by proposing to organize and direct the Vertebrate Paleontology Laboratory. It was at first unofficial, and no budget was provided

until 1967. For almost two decades, the Vertebrate Paleontology Lab's success was entirely contingent upon Dr. Wilson's skill at negotiating assistance from the three parent organizations. With the help of his students over the next two decades, Dr. Wilson restored the earlier collections and assembled them together under a single roof, in a yellow brick warehouse at Balcones Research Center labeled Building 6, now officially named the Vertebrate Paleontology Laboratory.

Unlike the stillborn efforts of his predecessors, Dr. Wilson's operation really took off. In 1969, Dr. Wann Langston, Jr., joined the University of Texas to become the second Director of the Vertebrate Paleontology Laboratory. Dr. Langston retired in 1986, and Dr. Ernest Lundelius, Jr., became the third Director, eventually handing the directorship over to me when he retired in 1998. Collectively, we have now supervised 68 graduate theses and dissertations that are based to greater or lesser extents on the

collections of the Vertebrate Paleontology Laboratory. As I write this letter, Dr. Pamela Owen became number 68, submitting her completed dissertation to the Graduate School earlier today. On the "backs" of all these students, the Vertebrate Paleontology Laboratory collections have grown at an average pace of somewhere between 2,000 and 10,000 specimens per year. The VP Lab now has 107,700 cataloged specimens, but this number probably represents only one-third or one-fifth of our total holdings. Hundreds of papers have been published on our specimens. Nearly 1,800 specimens are out on loan to other researchers and museums. Dozens of visiting researchers from all over the world visit the VP Lab every year to study our collections.

Most of the tremendous labor of collecting, preparing, curating, and cataloging this collection has been carried out by those 68 students who have earned graduate degrees at the Lab. The undisputed champion of our collections is Dr. Rickard Toomey, III (Ph.D., 1993), now a Curator at the Illinois State Museum, who earned the title in his dissertation research on the Neogene fauna of Hall's Cave. At present, our catalog records 12,194 specimens, most of which Rick personally excavated, recorded, screen-washed, picked, sorted, identified, and cataloged. Dr. Jim Stevens (Ph.D., 1969) and his wife, the virtuoso collector Margaret Stevens, together hold the endurance record, having contributed specimens to the Lab over more than three decades of grueling work in West Texas.

Those of you who worked at the Vertebrate Paleontology Laboratory or studied field geology in Trans-Pecos Texas can begin to appreciate the tremendous scale of these accomplishments. As the fourth director of the Vertebrate Paleontology Laboratory, I hope that I live to see these records broken. And I am hopeful, because we now host what is probably the largest paleontology graduate program in America, and some of the top students in the field today. Still, what I tell them is that I'm betting against all contenders. They will have to prove that

51 Years Old and Counting

by Timothy Rowe



they can catalog more specimens than Rick Toomey or find more bones than Jim and Margaret Stevens.

The Vertebrate Paleontology Lab collections are continuing to grow. Our latest addition to the vertebrate paleontology faculty, Dr. Chris Bell, has already shown himself to be a tremendous collector, and with his students, he is fast making good his threat to fill Building 6 beyond its capacity. As the collections move ahead, we will be mounting our

catalog on the Web, along with imagery of the fossils and reprints of some of the research conducted by our alumni. Even if you have graduated and moved away from Austin, you will soon be able to share in our latest projects via the Internet.

Tragically, one thing that hasn't accumulated is a formal Vertebrate Paleontology Lab Archive. Of course, the collections catalog is an archive of sorts and our most valuable record. But we have little in the way of photographs of our

students in the field, pictures of the Lab from their time, and records of their daily experiences. I know that those pictures, press clippings, and other memorabilia must exist. I write this letter in the hope that those of you who have them will think of the Lab and find them for us. We would like to put them on the Web, to convey to future generations what your experience here was like, and so that the Lab's history will be recorded along with the history of Life in Texas. ❖

Walter Geology Library

By Dennis Trombatore

In 1999-2000, change began to take hold in the Walter Geology Library in a big way. Virginia Phillips, for many years Associate Director for Branch Services, retired, and Susan Ardis, Head of the Engineering Library, was appointed as head of the Science Library Division.

Meanwhile, the long-awaited coming of e-journals and e-books to the collections began in earnest. Consortial agreements have been reached between the UT Austin and/or UT System libraries and several academic publishers: Elsevier, Academic Press, Wiley, Oxford University Press, and *Science* magazine. Other publishers are in testing and in negotiations with the System, such as Springer and the magazine *Nature*. In addition, improved, Web-based access to major scientific indexes has been made available, including Web of Science, and several publishers are attempting to cross-link these databases and e-journals to provide a seamless electronic pathway to the full text of materials for which we have paid electronic site-licenses.

Now new challenges await the Libraries. As more and more dollars are locked into state-wide consortial agreements, resolving the inevitable discrepancies between rising costs and static state budgets becomes more difficult. Nevertheless, faculty, students, and administrators have indicated their preference for information delivered to the desktop, so the transformation of our collections and

services will proceed accordingly. Another new challenge is wringing the best value from these new media. Now that researchers spend most of their information-seeking time in their offices and at their desks, reaching them for demonstration and teaching becomes difficult. Also,

The Walter Library remains strong with the assistance of alumni friends and donors, the strong support of library administration, faculty, and students, and the great contributions of our staff.

as more technological challenges arise, continual investment in support equipment and personnel to maintain a highly complex computer network is required.

On the preservation side, Abbott and Woodruff's *The Balcones Escarpment* has taken its place on our Web site, as we continue to seek funding to convert the Dumble Survey materials and other classic works of Texas geology for full Web access. Cataloging of the Tobin Map Collection is virtually complete to the first level of access. Almost all Tobin collection materials are now at least coded for on-line circulation, and most have full cataloging. Many thanks to Carol Russell for her years of work on this project. The library continues to have the benefit of Jo Soto for two days a week

for improving catalog access for a number of types of materials, and the constant selection of materials to place in storage goes on. The General Libraries are in the planning stages for an addition to the Library Storage Facility, which, barring new space in the Walter Library, will be required as collections continue to grow.

As a temporary solution to staff crowding, the General Libraries are planning a renovation project, which will improve computer workstation layout and will provide two new secure offices for staff to process gifts and exchanges as well as providing more space for cataloging, acquisitions, and binding. This will be especially helpful to our night supervisor, Melissa Van Ostran, as she works to integrate new automated binding procedures into her work flow.

The Walter Library remains strong with the assistance of alumni friends and donors, the strong support of library administration, faculty, and students, and the great contributions of our staff. Congratulations to Jim McCulloch for 20 years of service, and special again thanks this year to Rosemary Barker for another year of volunteer service. Harry Sullivan, head of Catalog Maintenance, and Ann Nelson, systems analyst with primary responsibility for UTCAT, are the winners of this year's Guion Award for their efforts to improve our collection access. Many thanks to them and all the others who help keep our library strong. ❖

INSTITUTE FOR GEOPHYSICS

BY KATHERINE ELLINS

The University of Texas at Austin's Institute for Geophysics (UTIG) is known internationally as a leading research group in geology and geophysics. The Institute's primary mission is to carry out pioneering research that extends the frontiers of knowledge in Earth science, has societal and economic relevance, and is of human interest. UTIG carries out research activities all over the world, which often involve large-scale, multiinstitutional field programs and require international scientific collaboration.

Notable 1999-2000 research efforts include the following:

ODP LEG 183, KERGUELEN PLATEAU

In 1999, UTIG scientist Mike Coffin served as co-chief scientist on an Ocean Drilling Program (ODP) Leg 183 to the Kerguelen Plateau, a large igneous province in the southern Indian Ocean. Cores retrieved by drilling into the plateau provided evidence that the plateau existed as a continent above sea level at times during an 80-million-year period, before subsiding below the waves 20 million years ago. This startling discovery generated a flurry of media interest and earned science writer Alexandra Witze the AGU's prestigious Walter Sullivan Award for science journalism for her 1999 *Dallas Morning News* article "Paradise Submerged: Sunken Plateau Provides Clues to Earth's History."

AFAR TRIPLE JUNCTION, AFRICA

UTIG researcher and DGS faculty member Richard Buffler and graduate student Berhane Negassi Gherbretensae were part of an international team that unearthed ancient stone tools from a raised Pleistocene coral reef on the Red Sea coast of Eritrea, Africa. These findings push back by 10,000 years the date for the earliest known human consumption of shellfish and thus record the onset of a new human feeding strategy. They generated much media interest (see the UTIG Web site www.ig.utexas.edu, and select "Eritrea"). The Eritrean project will also investigate the interplay of tectonics, volcanism, and sedimentation in an active plate boundary setting, the northern Afar triple junction.

EAST COAST TSUNAMIS

In May 2000, UTIG scientist John Goff, together with colleagues at the Woods Hole Oceanographic Institution and the Lamont-Doherty Earth Observatory, conducted an NSF-sponsored geophysical survey of the Atlantic continental shelf on the R/V *Hatteras*. This was a follow-up to previous research to determine whether cracks on the shelf had the potential to trigger tsunamis, which might endanger cities in the eastern United States. This research received widespread media coverage, including articles in the *New York Times* and the *Washington Post*, as well as interviews on National Public Radio and NBC. Preliminary results from the May cruise indicate the cracks appear to be a system of large depressions that have been excavated by eruptions of natural gas. The scientists speculate that the ongoing process of such blowouts could contribute to submarine landslides, which may cause tsunamis. More information on this project is available on the UTIG Web site.

CANTERBURY BASIN, NEW ZEALAND

In January 2000, UTIG scientist Craig Fulthorpe led an NSF-sponsored cruise on the R/V *Ewing* to collect high-resolution, multichannel seismic (MCS) data in the Canterbury Basin offshore of New Zealand. Researchers will combine forward stratigraphic modeling with MCS data interpretation to distinguish between the local and global controls on the sea-level record contained in the sediments. Understanding global sea-level is important to the world's future, as sea-level rise that may occur in the 21st century may affect hundreds of millions of people, including inhabitants of the Gulf Coast of Texas.

BRANSFIELD STRAIT, WEST ANTARCTICA

UTIG investigator Jamie Austin led an expedition using the icebreaker *Nathaniel B. Palmer* to collect high-quality seismic reflection data to study the deep structure of an actively extending “marginal” basin in the Bransfield Strait offshore of West Antarctica. For data collection, the research team used ocean-bottom seismographs designed and maintained by UTIG’s technical staff. By studying the evolution of the Bransfield Strait, UTIG scientists will gain a better understanding of the role of similar marginal basins in the development of the Andes mountain chain and in the breakup of the supercontinent Gondwana.

The Bransfield cruise represented a unique opportunity for Texas high school teacher Stanley Treanor to participate in a field program as part of the “Texas Teachers in the Field” project, a collaborative effort involving UTIG and UT’s Charles A. Dana Center for Educational Innovation. For more information about Stan’s experience, visit the UTIG Web site (www.ig.utexas.edu) and select “Teacher on Board.”

SPECIAL EVENTS AND AWARDS

UTIG participated in one of five regional colloquia to celebrate the 50th anniversary of the United States Navy Office of Naval Research (ONR). The colloquium, entitled “Oceanography—the Making of a Science: People, Institutions, and Discovery,” took place in College Station, Texas, and honored the achievements of Arthur Maxwell, UT Professor Emeritus and former UTIG Director (1982-1989).

In March 2000, UTIG Senior Research Scientist Lawrence Lawver was elected a Fellow of the Geological Society of America.

In August 2000, DGS/UTIG student researcher Jean-Paul van Gestel received an SEG Award of Merit for his paper presented at the Calgary meeting, titled “Multi-Configuration Ground Penetration Radar Data.”

CLIMATE CHANGE INITIATIVE

UTIG received a generous gift from the George Unger Vetlesen Foundation to initiate a new research effort in quantitative climate modeling based on the climate variations preserved in the geologic record. This initiative will exploit UTIG’s existing expertise concerning climate change observations and computational modeling and provides a unique opportunity to develop more powerful and more accurate climate prediction models. As part of this new initiative, climate modeler Charles Jackson joined the UTIG staff in September 2000.

K-12 EDUCATION

In collaboration with UT’s Charles A. Dana Center for Educational Innovation, UTIG is engaged in K-12 geoscience education by providing professional enhancement training for K-12 science teachers through two programs:

- **The sponsorship of a TEXTEAMS** (Texas Teachers Empowered for Achievement in Mathematics and Science) leadership training course for Texas high school science teachers entitled “Geology, Meteorology, and Oceanography” (GMO);
- **The “Texas Teachers in the Field” project.**

More than 50 Texas teachers participated in the GMO training courses; their success is embodied in this participant’s comment: “Thank you so much for the best professional growth experience I’ve ever had.” “Texas Teachers in the Field” is a project designed to provide selected K-12 science educators with authentic scientific research experiences by allowing them to participate as bona fide members of the science party in field programs headed by UTIG scientists.

NANKAI 3-D SEISMIC SURVEY, JAPAN

In 1999, UTIG researchers, Nathan Bangs and Tom Shipley, led a team of students, technicians, and scientists on a two-month NSF-sponsored 3-D seismic survey offshore of Japan to study subduction zone processes in the Nankai Trough. Collaborators on the survey included scientists from two other U. S. and five Japanese academic and governmental institutions. The results from this project will be used to determine drilling sites for a new Japanese academic riser-drill ship, which will sample the seismogenic zone at a collisional plate boundary fault. The new ship is currently under construction for the Integrated Ocean Drilling Program (IDOP), which will begin in 2003.

Processing the huge volume of data from the Nankai project—covering 640 square km, and the largest-ever academic 3-D survey of its type—would be impossible without the generous support of Schlumberger Technology Corporation and the Shell Oil Company. Schlumberger donated Quest software for the processing, and Shell provided funds so that UTIG could configure an Alpha processor-based Beowulf PC cluster for 3-D prestack seismic imaging.





SEE PHOTOS ON FRONT AND BACK COVERS.

Geology Foundation News

Geology Foundation Advisory Council

NEWS

The Geology Foundation, the oldest foundation at The University of Texas at Austin and the only existing one at the Department level, was created 47 years ago by the Board of Regents. Its purpose, as defined by industry leaders and as chartered by the Board, was to enhance and enrich geological education and training at The University. It now stands as one of the best endowed geologic foundations in the nation, with 117 accounts having a market value of \$50.8 million as of May 31, 2000.

Governance of the Foundation is provided by the Faculty Review Committee (FRC) consisting of, under Foundation by-laws, the Foundation Director, the Department Chairman, the Director of the Bureau of Economic Geology, and two additional faculty, appointed by the Chairman of the Department, one of whom must be a non-tenured member of the faculty. The Foundation Director, who is appointed by the FRC with the approval of the Foundation Advisory Council and the Department Chairman, chairs the Committee. William L. Fisher, Barrow Chair and Professor, has served as Director of the Foundation since 1984.

The Advisory Council, currently consisting of 48 members, including Honorary Life Members, from industry, government, and academia, supports and counsels the Faculty Review Committee and the Department of Geological Sciences. The current Chairman is Dr. Richard R. Bloomer, an independent geologist formerly of Abilene but now of Lago Vista. Mr. L. Decker Dawson, President of Dawson Geophysical Company of Midland, is Vice



Dick Bloomer (left) congratulates and thanks Harry Miller (right) for his many years of service to the Geology Foundation Advisory Council at spring meeting.

Chairman. Eight individuals serve as Honorary Life Members. Most recently elected to this prestigious position is Dr. Robert E. Boyer, who, as noted elsewhere in this *Newsletter*, retired from The University this year. The Advisory Council meets twice yearly, in the spring and in the fall.

At the spring 2000 meeting, the Advisory Council elected six new members. With University administrative approval, they will join the Council for a three-year term, beginning September 1, 2000. They are Dr. Ronald A. Bain, Manager, Technology and Exploration Planning, Anadarko Petroleum Corporation in Houston; Mr. Kenneth T. Barrow, Chief Geologist, Western Region, Calpine Natural Gas Company in Denver; Mr. James W. Farnsworth, Vice President, Gulf of Mexico-Deepwater, BP Amoco in Houston; Mr. Stephen L. Shaw, Senior Geological Advisor, Mid Continent Division, Burlington Resources in Midland; Mr. Joseph C. Walter III, President and CEO, Walter Oil and Gas Corporation in Houston; and Mr. Addison A. Wilkinson of Lafayette,



Ronald A. Bain



Kenneth T. Barrow



James W. Farnsworth



Stephen L. Shaw



Joseph C. Walter, III



Addison A. Wilkinson

Louisiana (formerly Vice President, Division General Manager, Eastern Gulf of Mexico with Tenneco Oil Company and founding partner of Newfield Exploration Company).

Five members completed their terms as of the end of August 2000. They are: Mr. Keith R. Brownlee, Ms. Pamela Luttrell, Mr. Vance M. Lynch, Mr. George W. Schneider, Jr., and Mr. Richard R. Standaert. In addition, Mr. Harry A. Miller, Jr., submitted his resignation from the Council after 21 years of service, and Mr. George M. Harwell, Jr., after 18 years of service. To all these outgoing members, we express our sincere appreciation for their service, support, and counsel.

At the spring meeting, a plaque of appreciation was presented to outgoing Chancellor Dr. William H. Cunningham by Chairman Bloomer. During his tenure as UT Austin President and as UT System Chancellor, Bill was a great supporter of the activities and efforts of the Advisory Council, attending and reporting to the Council at more than 30 meetings. He and his wife, Isabella,

were gracious hosts to the Advisory Council at Bauer House on the occasion of the Council's 45th anniversary.

Gifts to the endowments of the Geology Foundation through May 31, 2000, have amounted to approximately

As noted elsewhere in this Newsletter, Ms. Robbie Gries, a member of the Advisory Council from Denver, Colorado, was elected the first woman President of the American Association of Petroleum Geologists. Also, Council member Toby Carleton has been installed as the new President of the Society of Independent Professional Earth Scientists; Toby is a former President of AAPG, as is current Council member Jim Gibbs of Dallas.

Advisory Council member Russell G. Slayback, Chairman of the Board of Leggette, Brashears & Graham of Wilton and Trumbull, Connecticut, will receive the Ben H. Parker Medal, the highest award of the American Institute of Professional Geologists, at the Institute's Annual Meeting this fall. Russ has been a member of the Advisory Council since 1994.

\$760,000, including major gifts from Richard Adloff to the Virgil E. and Mildred L. Barnes Distinguished Lecture Series in Geology, Thomas D. and Janice Barrow for remodeling of the Conference Room, Ray Burke to the Thomas and Ray Burke Student Job Program, Decker Dawson to the L. Decker Dawson Fund in Exploration Geophysics, J. D. and V. L. Langston Foundation for the J. Donald Langston Special Operations Fund, Jack Mayfield for various programs in the Department, James C. and Marjorie Patterson for the James C. Patterson Fund for Excellence in the Geophysical Sciences, Glenn Vargas for the Glenn and Martha Vargas Fund for Gem and Mineral Curation, and the estate of Ray Woods to the Fred M. Bullard Professorship in Geological Sciences and the Leslie Bowling Professorship. We also received income in the form of scholarships from the Dorothy Banks Trust created in memory of her husband, Thomas R. Banks. Companies providing non-endowed scholarships and enrichment funds in the amount of \$150,500 included BP Amoco, Burlington Resources, Chevron, Conoco, Exxon, Marathon, Phillips, Shell, Texaco, Unocal, and Vastar. ❖



ABOVE: Dick Bloomer (left) and Bill Cunningham (right) right after Chairman Bloomer presented plaque of appreciation to Chancellor Cunningham at spring meeting.

RIGHT, TOP TO BOTTOM:

Bill Stokes (left) and Dave Story (right) visit during break at the meeting of the Geology Foundation Advisory Council on October 22, 1999.

Jim Connelly (left) and Tim Denison (right) visit during break at the Geology Foundation Advisory Council fall meeting.

(From left to right) Bill Fisher, Mary Ann Faulkner, Dr. Larry Faulkner, President of UT Austin, Peter T. Flawn, and Mrs. Marilee Fisher visit during the fall reception of the Geology Foundation Advisory Council on October 21, 1999.

Mark Leonard (left) and Tom Fanning (right) during break of the Geology Foundation Advisory Council fall meeting.



Gifts to the Geology Foundation

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GEOLOGY FOUNDATION ENDOWED ACCOUNTS

Values as of May 31, 2000

	BOOK VALUE	MARKET VALUE		BOOK VALUE	MARKET VALUE
Edwin Allday Centennial Chair in Subsurface Geology <i>Income supplements salary and supports research of recipient</i>	\$838,449	\$1,789,228	Leslie Bowling Professorship <i>To attract persons from industry and government for short-term appointments of the faculty</i>	\$165,098	\$346,585
Edwin Allday Lectureship in Geological Sciences <i>To provide for guest lectures in geological sciences</i>	\$176,402	\$330,111	Wayne Franklin Bowman Endowed Presidential Scholarship <i>Unrestricted geology scholarships</i>	\$118,883	\$297,282
Mary and Ben Anderson Endowment for Graduate Studies in Geology <i>To support graduate students and graduate programs in geology</i>	\$43,132	\$77,178	Don R. and Patricia Kidd Boyd Lectureship in Petroleum Exploration <i>To provide for guest lectures in petroleum exploration</i>	\$56,440	\$127,018
Millard B. Arick Memorial Fund in Petroleum Geology <i>Support of students to further interest in finding and producing more oil in Texas</i>	\$12,561	\$16,006	Brahman Energy Company Scholarship <i>Senior field course scholarship</i>	\$20,240	\$52,052
Virgil E. and Mildred L. Barnes Distinguished Lecture Series in Geology <i>To provide for guest lectures in geological sciences</i>	\$45,869	\$54,287	Charl A. M. Broquet Memorial Endowed Scholarship Fund <i>Graduate student scholarship</i>	\$13,403	\$15,402
Col. E. M. Barron Trust Account <i>For support of the Barron Mineral Collection</i>	\$131,818	\$310,612	Jesse L. Brundrett Memorial Endowed Presidential Scholarship <i>Graduate student scholarship</i>	\$50,390	\$97,544
Leonidas T. Barrow Centennial Chair in Mineral Resources <i>Development of programs of excellence in mineral resources; income supplements salary and supports research of recipient</i>	\$1,129,127	\$2,742,762	Fred M. Bullard Professorship in Geological Sciences <i>Excellence in teaching, income supplements salary and supports research of recipient</i>	\$132,903	\$273,710
Laura Thomson Barrow Graduate Fellowship <i>To support graduate students specializing in natural resources; special consideration for female students and students concentrating in field-oriented studies</i>	\$249,476	\$496,475	Thomas and Ray Burke Student Job Program <i>Jobs for students in geologic work related to faculty research</i>	\$130,175	\$177,684
Barrow Periodical Fund <i>For purchase of periodicals for the Walter Geology Library</i>	\$213,458	\$317,417	Hal H. Bybee Memorial Fund <i>Student field support or support of students researching geologic issues related to public policy</i>	\$114,950	\$199,337
Bloomer Fund for Motivated Students <i>Financial aid for students not qualified for scholarships</i>	\$129,663	\$265,652	Hal P. Bybee Memorial Fund <i>Faculty use for research, travel, study, etc.</i>	\$611,504	\$1,458,150
			L. W. Callender Memorial Fund <i>Department use, unrestricted</i>	\$61,030	\$158,068
			Dave P. Carlton Centennial Professorship in Geology <i>Income supplements salary and supports research of recipient</i>	\$660,504	\$1,638,893

	BOOK VALUE	MARKET VALUE		BOOK VALUE	MARKET VALUE
Dave P. Carlton Centennial Professorship in Geophysics <i>Income supplements salary and supports research of recipient</i>	\$568,002	\$1,418,695	Michael Bruce Duchin Centennial Memorial Endowed Presidential Scholarship <i>Scholarship for Master's candidate with preference toward general geology</i>	\$51,263	\$113,127
Dorothy Ogden Carsey Memorial Scholarship Fund <i>Geology scholarships, any level, special consideration to micropaleontology students</i>	\$223,111	\$397,125	Elf Aquitaine Petroleum Faculty Fellowship in Geological Sciences <i>Income supplements salary and supports research of junior faculty member</i>	\$205,032	\$404,019
J. Ben Carsey, Sr. Special Maintenance Fund <i>To maintain teaching and research equipment</i>	\$199,483	\$324,233	John E. "Brick" Elliott Centennial Endowed Professorship in Geological Sciences <i>Income supplements salary and supports research of recipient</i>	\$350,410	\$888,949
Chevron Centennial Professorship in Geology <i>Income supplements salary and supports research of recipient</i>	\$284,569	\$660,277	Samuel P. Ellison, Jr. Fund <i>For Department Newsletter and support of faculty-alumni functions</i>	\$99,911	\$228,037
S. E. Clabaugh Fund in Hard-Rock Geology <i>To support research in hard-rock geology</i>	\$43,433	\$94,803	Energy and Mineral Resources Fund <i>Support of programs and student in energy and mineral resources</i>	\$33,519	\$84,949
W. Kenley Clark Memorial Endowed Presidential Scholarship <i>Geology scholarships, any level</i>	\$51,972	\$124,733	William Stamps Farish Chair in Geology <i>Income supplements salary and support research of recipient</i>	\$433,278	\$1,092,324
Joseph S. Cullinan Memorial Scholarship in Geological Sciences <i>Scholarship in petroleum or field geology</i>	\$45,957	\$121,763	Peter T. Flawn Centennial Chair in Geology <i>Income supplements salary and supports research of recipient</i>	\$824,307	\$1,909,478
Robert H. Cuyler Endowed Presidential Scholarship <i>Undergraduate (upper-division) and graduate scholarships</i>	\$67,885	\$163,674	Robert L. Folk Excellence Fund in Geological Sciences <i>To support excellence in geological sciences</i>	\$73,157	\$92,796
Morgan J. Davis Centennial Chair in Petroleum Geology <i>Income supplements salary and supports research of recipient</i>	\$928,337	\$2,141,580	Geology Foundation Advisory Council Centennial Teaching Fellowship <i>Income supplements salary and supports research of junior faculty member</i>	\$114,475	\$234,788
L. Decker Dawson Fund in Exploration Geophysics <i>Support activities in Exploration Geophysics</i>	\$703,856	\$760,796	Geology Foundation Various Donors Fund <i>Unrestricted funds for any purpose of the Foundation</i>	\$100,289	\$182,265
Ronald K. DeFord Field Scholarship Fund <i>Field studies for graduate students</i>	\$221,604	\$514,432	Getty Oil Company Centennial Chair in Geological Sciences <i>Income supplements salary and supports research of recipient</i>	\$976,194	\$2,373,676

	BOOK VALUE	MARKET VALUE		BOOK VALUE	MARKET VALUE
Graduate Fellowship in Exploration Geophysics <i>Provide one graduate fellowship in exploration geophysics</i>	\$500,000	\$549,603	John A. and Katherine G. Jackson Centennial Teaching Fellowship in Geological Sciences <i>Income supplements salary and supports research of junior faculty member</i>	\$171,054	\$365,303
Miss Effie Graves Scholarship Fund <i>Geological Sciences student scholarships</i>	\$29,395	\$83,110	John A. and Katherine G. Jackson Exploration Geophysics Fund <i>Supports Department's activities in the area of exploration geophysics</i>	\$25,337	\$27,816
Guy E. Green Endowed Presidential Scholarship <i>Geology scholarships, any level</i>	\$35,348	\$88,908	John A. and Katherine G. Jackson Fellowship in Geohydrology <i>Graduate fellowships in geohydrology</i>	\$277,481	\$416,432
J. Nalle Gregory Chair in Sedimentary Geology <i>Development of program of excellence in sedimentary geology, income supplements salary and supports research of recipient</i>	\$755,945	\$1,625,890	G. Moses and Carolyn G. Knebel Teaching Fund <i>To promote teaching excellence in geological sciences</i>	\$100,769	\$245,297
J. Nalle Gregory Regents Professorship in Geological Sciences <i>Income supplements salary and supports research of recipient</i>	\$331,268	\$642,994	Martin B. Lagoe Student Research Fund for Micropaleontology <i>Support of students studying in the area of micropaleontology</i>	\$33,143	\$44,717
Thelma Lynn Guion Geology Library Staff Award <i>For recognition of excellence by Geology Library Staff</i>	\$14,362	\$20,662	Clara Jones Langston Centennial Lectureship in Vertebrate Paleontology <i>To provide for guest lectures in vertebrate paleontology</i>	\$25,583	\$60,586
Karl Frederick Hagemeyer, Jr. Memorial Endowed Presidential Scholarship <i>General geology scholarships, any level, with preference to students from Brazoria or Kerr Counties</i>	\$45,586	\$90,793	J. Donald Langston Special Operations Fund <i>Purchase teaching and research equipment</i>	\$286,285	\$516,310
George S. Heyer Memorial Fund <i>Any purpose of the Foundation</i>	\$103,149	\$280,441	Wann and Marietta Langston Research Fund in Vertebrate Paleontology <i>Faculty research in vertebrate paleontology</i>	\$124,465	\$295,208
Bill D. Holland Endowed Presidential Scholarship in Geological Sciences <i>Scholarship for a Texas student who plans to pursue a career in the oil and gas industry</i>	\$33,576	\$42,753	Jack K. Larsen-Mesa Petroleum Company Fund in Sedimentary Geology <i>Support of student fieldwork in sedimentary geology</i>	\$160,663	\$393,858
Houston Oil and Minerals Corporation Faculty Excellence Awards <i>In recognition of outstanding service and special contributions to the teaching and research programs</i>	\$58,375	\$144,358	Howard R. Lowe Vertebrate Paleontology Endowment <i>Support of student fieldwork in vertebrate paleontology</i>	\$36,912	\$89,909
F. Earl Ingerson Graduate Research Assistance Fund in Geochemistry <i>Research assistance to graduate students in geochemistry</i>	\$59,848	\$110,731	J. Hoover Mackin Memorial Scholarship Fund <i>Graduate geology scholarship</i>	\$27,216	\$66,639
			George W. Marshall, Jr. Memorial Endowed Presidential Scholarship <i>Graduate scholarships in general geology</i>	\$40,375	\$71,649

	BOOK VALUE	MARKET VALUE		BOOK VALUE	MARKET VALUE
Jack H. Mayfield, Jr. Fund for Excellence in Geological Sciences <i>For innovative projects in geoscience instruction and research and for unrestricted support for continuing programs of teaching and research</i>	\$474,093	\$880,349	Judd H. Oualline Endowment Fund <i>For special needs of the Department</i>	\$22,317	\$51,245
John H. and Lujza McCammon Endowed Scholarship <i>Upper-division undergraduate scholarships</i>	\$13,272	\$34,167	Ed Owen-George Coates Fund <i>Publication of geological research by faculty and graduate students</i>	\$123,662	\$308,839
Mr. and Mrs. L. F. McCollum Scholarship in Geology <i>Geology scholarships, any level</i>	\$26,911	\$63,380	James C. Patterson Fund for Excellence in the Geophysical Sciences <i>To support excellence in the geophysical sciences</i>	\$60,970	\$69,329
Michaux Scholarship Fund <i>Geology scholarship, any level</i>	\$12,727	\$31,651	Bill R. Payne Centennial Teaching Fellowship <i>Income supplements salary and supports research of junior faculty member</i>	\$105,741	\$232,888
Joan A. Middleton Endowed Scholarship in Geology <i>Geology scholarship to students, especially hydrogeology students</i>	\$10,780	\$14,680	Joyce Bowman Payne Centennial Teaching Fellowship <i>Income supplements salary and supports research of junior faculty member</i>	\$106,944	\$222,666
Carroll C. Miller Endowed Presidential Scholarship <i>Geology scholarship to students pursuing careers in energy industries, preference to students from South Texas</i>	\$35,986	\$90,805	Pennzoil and Pogo Producing Companies-William E. Gipson Scholarships <i>Scholarships for UT graduates seeking Master's degrees at UT</i>	\$194,639	\$389,630
William R. Muehlberger Field Geology Scholarship Fund <i>To support field studies at graduate or undergraduate levels</i>	\$101,923	\$161,753	O. Scott Petty Geophysical Fund <i>Development of program of excellence in geophysics</i>	\$218,376	\$507,146
Wes Ogden Memorial Scholarship in Geophysics <i>Geophysics scholarships to students pursuing careers in energy industries</i>	\$13,590	\$26,224	Wallace E. Pratt Professorship in Geophysics <i>Development of program of excellence in Geophysics, income supplements salary and research of recipient</i>	\$227,743	\$526,453
Fred L. and Frances J. Oliver Lectureship in Texas Hydrology and Water Resources <i>To provide for guest lectures in water resources</i>	\$74,280	\$154,220	Louis and Elizabeth Scherck Geology Scholarship <i>Undergraduate (upper-division) and graduate scholarship</i>	\$115,242	\$241,402
Judd H. and Cynthia Oualline Centennial Lectureship in Geological Sciences <i>To provide for guest lectures in geological sciences</i>	\$99,614	\$189,831	Wilton E. Scott Centennial Professorship <i>Income supplements salary and supports research of recipient</i>	\$297,077	\$740,343
Judd H. and Cynthia Oualline Centennial Lectureship in Petroleum Geology <i>To provide for guest lectures in petroleum geology</i>	\$92,187	\$176,903	Walter Benona Sharp Memorial Scholarship in Geological Sciences <i>Scholarship in petroleum or field geology</i>	\$45,177	\$120,532
			Shell Companies Foundation Centennial Chair in Geophysics <i>Income supplements salary and supports research of recipient</i>	\$1,235,635	\$2,687,235

	BOOK VALUE	MARKET VALUE		BOOK VALUE	MARKET VALUE
Shell Companies Foundation Distinguished Chair in Geophysics <i>Income supplements salary and supports research of recipient</i>	\$1,054,990	\$2,363,870	Glenn and Martha Vargas Gemological Scholarship in Geological Sciences <i>Scholarships for students interested in gemology or mineralogy</i>	\$19,041	\$39,551
F. W. Simonds Endowed Presidential Scholarship <i>Scholarship to undergraduate (upper division) and graduate students</i>	\$31,689	\$87,300	Joseph C., Jr., and Elizabeth C. Walter Geology Library Fund <i>Acquisition of books, maps, and other library materials</i>	\$723,264	\$1,193,298
William T. Stokes Centennial Teaching Fellowship in Geological Sciences <i>Income supplements salary and supports research of junior faculty member</i>	\$167,707	\$388,194	Albert W. and Alice M. Weeks Centennial Professorship in Geological Sciences <i>Income supplements salary and supports research of recipient</i>	\$223,267	\$478,850
Structural Geology and Tectonics Fund <i>For support of faculty and student research in structure and tectonics</i>	\$125,906	\$246,521	Albert W. and Alice M. Weeks Fund in Geology <i>Scholarships in geological sciences, any level</i>	\$595,414	\$1,091,124
Harlan Tod Sutherland Memorial Scholarship Fund <i>For summer research support for graduate students</i>	\$46,491	\$93,845	E. A. Wendlandt Fund <i>Purchase of books and journals in German or English translations</i>	\$9,288	\$22,575
John and Elizabeth M. Teagle Scholarship in Petroleum Geology <i>For scholarships to students with interest in petroleum geology</i>	\$728,447	\$1,433,707	Arno P. (Dutch) Wendler Professional Development Fund <i>Support of graduate student presentations at professional meetings</i>	\$125,007	\$300,079
David S. Thayer Memorial Scholarship Fund <i>Senior field course scholarship</i>	\$31,871	\$81,333	Francis L. Whitney Endowed Presidential Scholarship <i>Geology scholarships, any level, paleontology and stratigraphy preferred</i>	\$49,853	\$127,847
Tobin International Geological Map Collection Fund <i>For purchase of maps and photos, storage and viewing facilities for these items</i>	\$87,643	\$236,009	Francis L. Whitney Memorial Book Fund <i>Purchase of paleontological books for library</i>	\$48,519	\$88,760
Udden Memorial Scholarship Fund <i>Geology scholarships, any level</i>	\$19,068	\$38,678	Addison A. and Mary E. Wilkinson Endowed Presidential Scholarship in Geological Sciences <i>Geology scholarships for graduate and undergraduate students</i>	\$55,157	\$72,058
Glenn and Martha Vargas Endowed Presidential Scholarship <i>Graduate-level scholarship in geological sciences</i>	\$40,334	\$70,749	John A. Wilson Professorship in Vertebrate Paleontology <i>Development of program of excellence in vertebrate paleontology, income supplements salary and supports research of recipient</i>	\$191,058	\$417,578
Glenn and Martha Vargas Endowment for Gems and Gem Minerals Instruction <i>For course-related materials and instruction on gems and gem minerals</i>	\$74,405	\$142,579	Charles E. Yager Undergraduate Field Scholarship Fund <i>Support for students taking GEO 660</i>	\$58,879	\$146,190
Glenn and Martha Vargas Fund for Gem and Mineral Curation <i>For curating and maintaining the gem and mineral collections of the Department</i>	\$42,660	\$52,535	The First, Second, Third Mr. and Mrs. Charles E. Yager Professorships <i>Three professorships in any discipline for faculty who participate in field instruction</i> ❖	\$511,921	\$1,313,009

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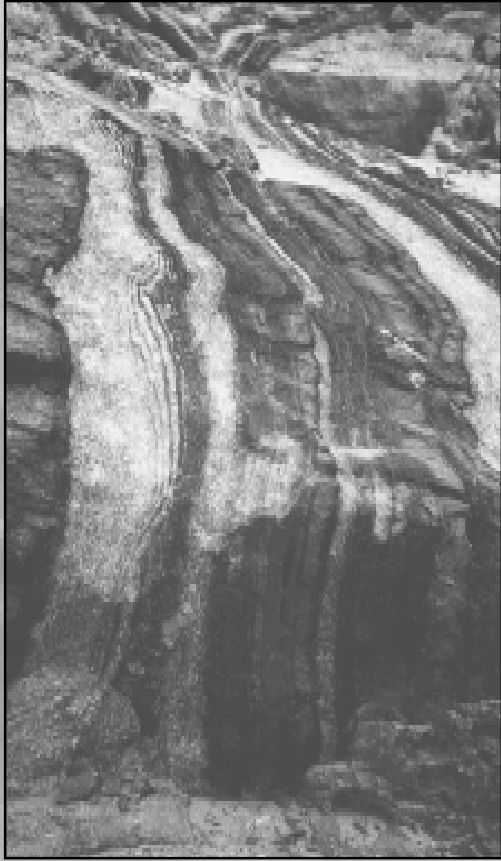
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DIRECTOR

William L. Fisher ❖



Dr. and Mrs. Hal P. Bybee. (From an undated Christmas card.)
Photo provided by Jack Wilson.



SEE PHOTOS ON FRONT AND BACK COVERS.

Memorials

Memorials

Benjamin Louis Barrow

Benjamin Louis Barrow died on July 9, 1999, at his home in Utopia, Texas, at the age of 68. He was born on July 28, 1930, in Houston and received a B.A. in geology in 1951 from the University of Texas, Austin. He was a retired geologist and was one of the founders and directors of the Sabinal Canyon Museum and active in the Utopia Lions Club. He is survived by numerous friends. He was preceded in death by his wife, Kay.

Arthur Vallen Bradshaw

Arthur Vallen Bradshaw, age 81, formerly of Smithville, Texas, passed away on January 12, 1999. Born on February 14, 1917, in Red Rock, he received a B.S. in geology from the University of Texas, Austin in 1942, spent most of his life in the petroleum industry, and worked with his son as a private consultant. He was a member of the Eastern Star and past Master of the Smithville Masonic Lodge. He is survived by his wife, Bessie Volcik Bradshaw, and one son, Arthur L. Bradshaw.

Patrick Henry Byrd

Patrick Henry Byrd of Bullard, Texas, died on May 30, 2000, at the age of 77. He was born on July 16, 1922, in Midlothian, Texas. He received a B.S. in geology from the University of Texas, Austin, in 1949 and was a retired geologist. He was also a Marine pilot during World War II. Survivors include his daughter and son-in-law, Polly and Roger Filson of Pleasanton; a sister, Grace Hardison of Dallas; and three grandchildren, Jenny, Patrick, and Michael.

Carroll Edward Church

Carroll Edward Church, the son of Walter Lee Church and Edith Glenn Inman, passed away on January 13, 2000. He was born on August 11, 1918, in Humble, Texas. He later lived in Houston and received a B.S. in geology in 1940 from the

University of Texas, Austin, where he was a member of Sigma Chi Fraternity. In addition, he attended the University of California Berkeley from 1940 to 1942, after which he served in the U.S. Navy during World War II. He was the owner and President of Pioneer Centrifuging and President of Pioneer Well Tools. Preceded in death by his parents and brothers, Robert Carnal Church and Walter Lee Church, he is survived by his daughters and sons-in-law, Barbara Edith Church McIver and husband, Jim, of Raleigh, North Carolina; Diana Smith Church of Halifax, Nova Scotia; Elizabeth Carroll Church of New York, New York; Mary Elizabeth Church Weyel and husband, Steven Louis; and Jean-Marie Church Dina of Houston and husband, Tony; and several grandchildren.

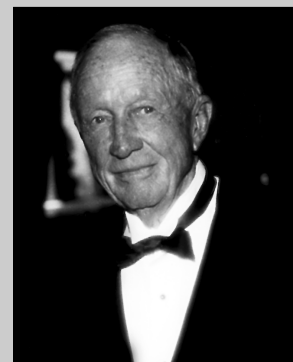
Kenneth Stewart Cronin

Kenneth Stewart Cronin, formerly of Dallas, Texas, passed away on May 15, 2000. He was born in Woodsfield, Ohio, on June 26, 1909. He was educated at the University of Texas, Austin, receiving a B.A. in geology in 1931 and an M.A. in geology in 1932. Mr. Cronin was preceded in death by his wife, Helen, and grandson, Jacob. He is survived by his sons and daughters-in-law, Timothy and Lisa Cronin of Dallas and Thomas and Beth Cronin of Oklahoma City, Oklahoma, and four grandsons, Ben Romans, Shawn Cronin, Michael Cronin, and Joseph Cronin.

Max M. Crunk, Jr.

Max M. Crunk, Jr. passed away on October 20, 1999. He received a B.S. in geology from the University of Texas, Austin in 1951. Mr. Crunk lived in Midland, Texas, most of his life but was born on October 3, 1924, in Nixon, Texas. He attended Texas A&M University and served in World War II. He was employed by oil companies, including Gulf Oil

Corporation, Warren American Oil Company, and Mitchell Energy Corporation, and as a consulting geologist. He was a Certified Professional Geologist and a Certified Petroleum Geologist. He was a member of several societies: National Society of Independent Professional Earth Scientists, Friends of the Library Board, Midland County Library Board, West Texas Geological Society, American Institute of Professional Geologists, American Association of Petroleum Geologists, Society of Exploration Geophysicists, Permian Basin Geophysical Society, American Institute of Mining, Metallurgical, and Petroleum Engineers, National Rifle Association, Texas and Southwestern Texas Cattle Raisers Association, Midland Petroleum Club, Greentree Country Club, and the Exchange Club. He was preceded in death by his wife, Kathryn Dugan, and is survived by his daughter and son-in-law, Kathryn and Russell Laughlin, and his grandchildren, Russell and Kate Laughlin of Dallas.



Irion G. Davis (1908-1995)

Irion G. Davis

Irion G. Davis of Boca Raton, Florida, passed away on September 29, 1995, at the age of 87. Retired from Gulf Oil Corporation since 1973, he served as Executive Vice President of that corporation and on its Board of Directors. In Venezuela, he was President of Mene Grande Oil Company, a subsidiary of

Gulf Oil, from 1953 to 1958. He was born in 1908 in Cistern, Texas, and received a B.A. in geology in 1929 from the University of Texas, Austin. Mr. Davis is survived by his wife, Janice Gautreau Davis; two daughters, Sara Davis Gump of Bluffton, South Carolina, and Nancy Davis Alley of Reading, Pennsylvania; and eight grandchildren.

Paul Stephen Fuqua

Paul Stephen Fuqua, age 72, died July 19, 1999. He was born in Dallas, Texas, on December 23, 1926, and was a veteran of World War II. Having received a B.A. in geology from the University of Texas, Austin, in 1951, he cofounded the Geological Information Library of Dallas, a large archive of oil and gas well logs. He was active in the oil business and the owner of Plaza Health Food Store. He is survived by his three children, Stephen, Max, and Brenda; and his brother, William H. Fuqua.

Walter Louis Furche

Walter Louis Furche, of Midland, Texas, since the 1950's, was born on December 7, 1924, in Sherman and passed away on August 24, 1999. He received a B.S. in geology from the University of Texas, Austin in 1951. Mr. Furche was preceded in death by his brother, Jim Furche. He is survived by his wife, Jane Furche; stepsons, Tony Armstrong of Austin and Brad Armstrong of Boulder, Colorado; stepdaughter, Liz Armstrong of Aspen, Colorado; two grandchildren; and two brothers and a sister.

Lee Edwin (Ed) Garner

Lee Edwin (Ed) Garner passed away at his home on September 3, 1999, in Austin, Texas. Ed was born in Stephenville, Texas, in 1935, to Ruth and Howard Garner. He received a B.S. in geology in 1962 and an M.A. in geology in 1973 from The University of Texas at Austin. Ed's career in geology lasted 40 years, more than 30 of which was spent at the Bureau of Economic Geology at The University of Texas at Austin as a Research Associate and as a public information specialist, where he thor-

oughly enjoyed sharing his knowledge of geology with anyone who inquired whether grade school children or a high government official. He is survived by his wife of 34 years, Cheryl; sons, David of Dripping Springs and his wife, Rachel, Mark of Stephenville and his wife, Carole, Kevin, of San Diego, California, and his wife, Lisa, and Christopher of Austin; grandchildren James, Travis, Brandy, Jason, Shawna, Shannon, Briana, Elizabeth, Julia, and Hope; great-grandchildren, Angelina, Dalton, Dakota, Allison, Kaitland, and Taylor; and his mother.

George David Glover

George David Glover was born on September 18, 1920, in San Angelo, Texas, and passed away on August 28, 1999. He served in the Army during World War II. Mr. Glover received a B.A. in geology in 1949 from the University of Texas, Austin. He was employed with Sun Oil Company for 36 years and was a member of the North Dallas Golden K Kiwanis Club. He is survived by his wife, Helen; son, Michael Glover and wife, Carol; daughter, Pat Bridges, and husband, John; stepsons, Russell Clark and wife, Patty, Michael Clark and wife, Donna; grandchildren, Trish Johnson, David Brown, Barbara Clark, Melissa Steen, and Jason Clark; and one great-granddaughter.

Riley Hagan, Jr.

Riley Hagan, Jr., age 63, died December 9, 1998, in Jackson, Mississippi. He was born on August 16, 1935. He received a B.A. in geology in 1958 from the University of Texas, Austin, and graduated from Mars Hill College. Mr. Hagan was a native of Asheville, North Carolina. His career was in oil and gas exploration, and he was a certified professional geologist. Membership in societies included the American Association of Petroleum Geologists, Mississippi Geological Society, Mississippi Association of Petroleum Landmen, Sigma Alpha Epsilon Fraternity, a founding member of Annandale Golf Club, Jackson Country Club, and the University Club. He is survived by his wife, Mary Lea Hagan; two sons,

Riley Hagan III of Shreveport, Louisiana, and Bradley Charles Hagan of Missoula, Montana; one granddaughter, Allison Marie Hagan; his mother; and his sister.

Richard Finley Hare

Richard Finley Hare, formerly of Fort Worth, Texas, died on May 1, 2000, at the age of 81. He was born on April 13, 1919, in Denton, received a B.S. in geology in 1941 from the University of Texas, Austin, and was an independent geologist. He was also a veteran of World War II and a member of the American Association of Petroleum Geologists, Petroleum Club, Ridgela Country Club, and Fort Worth Genealogical Society. He was preceded in death by his son, Richard F. Hare, Jr., and two sisters. He is survived by his wife, Blanche Patterson Hare; son, Robert W. Hare and wife, Carol; grandchildren, Jeanice and Jack Hare of Fort Worth; one sister; three nephews; and one niece.

John Duncan Henderson

John Duncan Henderson, age 84, a long-time resident of Dallas, Texas, died on January 10, 2000. Mr. Henderson was born on July 14, 1915, in Taylor to Julius and Stella Pumphrey Henderson and received a B.S. in geology in 1937 from the University of Texas, Austin. During his career, he worked at various oil companies. He was a veteran of World War II and received several Bronze Stars while in the service of his country. He is survived by one brother, Adrian Henderson of Fort Worth, one nephew, one niece, one grand-nephew, and one grand-niece.

Richard Harding Hewitt

Richard Harding Hewitt, formerly of Houston, Texas, died on February 11, 1999, at the age of 75. Born on June 14, 1923, in Hawaii, he attended New York University, where he received a B.A. in economics, and later a B.S. in geology in 1952 from the University of Texas, Austin. He was a veteran of World War II. Working in oil and gas exploration in the Texas and Louisiana Gulf Coast Region most of his life, he retired in 1982. He is survived by his wife, Jane Owen Hewitt, and sons, L. Scott Hewitt and Sam T. Hewitt.

Lyllian Lucille Blain Hix

Lyllian Lucille Blain Hix, age 73, died in Houston, Texas, on November 22, 1999. She was born on August 2, 1926, to John Van and Geneva Brown Blain in Terrell, Texas. Mrs. Hix received a B.A. in geology from the University of Texas, Austin, in 1946, where she graduated magna cum laude with highest honors. She married William E. Hix, Jr., while attending the University in March 1946. She then moved to Dallas, where she was employed by Hunt Oil Company and Atlantic Richfield Company. She later moved to Houston and continued her education at University of Houston, from which she received a Master's and Ph.D. in psychology. She is survived by her husband; one son, William E. Hix III of Houston; her mother of Terrell; and her brother, John V. Blain, Jr., and his wife, Nakita of Terrell.

Dorothy Lou Holden

Dorothy Lou Holden, age 71, passed away on June 9, 1999. A graduate of Corpus Christi High School, she attended the University of Texas, Austin, in 1951. She was a member of the Assistance League of Houston, the Delphian Society, and ARCS Foundation. Survivors include her daughter and son-in-law, Helen and Scott Bryan, and grandson, Jeffrey Michael Bryan, all of San Antonio.

Friedrich Hoeninghaus, Jr.

Friedrich Hoeninghaus, Jr., born on December 21, 1918, to F.A. Hoeninghaus, Sr., and Willie Callaway Hoeninghaus in Eagle Lake, Texas, passed away on June 29, 2000. He served in the Air Force during World War II. He is a Mason for 50 years. He graduated from the University of Texas, Austin with a B.S. degree in geology in 1949, and spent 37 years working for Exxon Corporation. He is survived by his wife, Mildred Frnka Hoeninghaus; children, Friedrich Alexander Hoeninghaus, III, and wife, Vicki Shell; Julie Poche and husband, Edward; and Sarah Hardy; grandchildren, Michele Weathers Kimberly Poche, Jeffrey Poche, Russell Hoeninghaus, Joseph Hoeninghaus, Ashley Hoeninghaus,

Margaret Hardy, Grace Hardy, Friedrich Alexander Hoeninghaus IV, Elisabeth Lauren Hoeninghaus, Matthew Shell, and Rachael Shell.

Eric Howard Jager

Eric Howard Jager passed away on March 6, 2000, in Dallas, Texas. He was born on July 29, 1918, in Wichita, Kansas, and graduated from Harvard cum laude in 1939. He later received an M.A. in geology and petroleum engineering from the University of Texas, Austin, in 1941. Mr. Jager received the Silver Star, Bronze Stars, and five Campaign Stars for his service in the Army during World War II. He was the President of Petroleum, Inc., for 36 years, a company that drilled oil wells worldwide. He is survived by his wife, Emma Jager of Dallas; son and daughter-in-law, Eric and Alison Jager of Mission Hills, Kansas; daughter, Karen Jager Graves and son-in-law, Lee Graves, of University Park, Texas; daughter, Jan Martin and son-in-law, Theodore Martin, of Tucson, Arizona; and six grandchildren. He was a member of Northwood Club of Dallas, Wichita Country Club, and the Petroleum Club of Wichita.

William James John

William James John, born March 24, 1923, to Loye Fay and Robert John, died in Dallas at the age of 76 on March 10, 2000. Mr. John graduated from the University of Texas, Austin, with a B.A. in geology in 1950. He was a veteran of World War II, where he served in the Navy. He belonged to the Brookhaven Country Club. He was preceded in death by his wife, Greta, his parents, and his brother, Robert John III and is survived by two daughters, Christye and Robin John of Dallas; sisters, Caroline John Prickett and Loye Fay John Bushong; three nephews; two nieces; three great-nephews; and two great-nieces.

James D. Kallina

James D. Kallina, age 68 of Sugar Land, Texas, passed away on July 19, 2000. He was born on July 16, 1932, and received his B.S. in geology from the

University of Texas, Austin, in 1953. He was a geophysicist for 25 years with Petty Geophysical Engineering Company. In 1973, he formed Geophysical Services/Omega and in 1976 JDK Incorporated. He was a member of the American Association of Petroleum Geologists, Society of Economic Geologists, and Houston Geophysical Society. He is survived by his wife, Doris; daughter, Teresa Ann Kallina, of Austin; sons Stephen D. Kallina and wife, Libby, and Michael J. Kallina; and grandchildren Steven, Shaun, Seth, J. Nicole, and Marci and husband Ricky John Nentwig.

Royce E. Lawson, Jr.

Royce E. Lawson, Jr., born in Brownwood, Texas, on June 29, 1921, to Lilly and Royce E. Lawson, Sr., died on May 25, 2000. After serving in World War II, he received a B.S. in geology from the University of Texas, Austin in 1949. He married June Anderson on August 28, 1946 and was employed as an Exploration Geophysicist with Humble Oil and Refining Company, where he explored the Texas Gulf Coast, Louisiana, Mississippi, Alabama, Florida, West Texas, and New Mexico. In 1966, he resigned from Humble to work for Roden Oil Company as a consultant, later forming Centurion Oil and Gas Corporation. He was a member of the Society of Exploration Geophysicists, American Association of Petroleum Geologists, Society of Independent Professional Earth Scientists, New Mexico Geophysical Society, Permian Basin Geophysical Society, Confederate Air Force, National Rifle Association, and The John Birch Society. He is survived by his wife; his son and daughter-in-law, Kyle R. and Diane C. Lawson; his grandchildren, Andrew and Travis Lawson, all of Midland; two sisters, Julia Hooper of San Antonio and Ruth Daffern of Victoria; one niece; and four nephews.

Mary Gene Blackburn Longenecker

Mary Gene Blackburn Longenecker of Jackson Hole, Wyoming, passed away on October 18, 1998, at her daughter's home in Castle Rock, Colorado. She was born in Dallas on June 2, 1927, the daughter of Glen Raymond and Allie Gene (Stringfellow) Blackburn, and married

Donald R. Longenecker on March 19, 1949, in Houston, Texas. Mary Gene graduated from the University of Texas, Austin, with a B.A. in geology and a minor in anthropology in 1949 and completed graduate work at the University of Wyoming in Laramie, where she received primary education certification. Mary Gene was an accomplished author-writer with primary interests in the settling of the West and a geologist for Exxon Oil Corporation in Houston. After moving to Wyoming, she taught at Garfield Elementary School for years before retiring. She was a member of St. Mark's Episcopal Church in Casper, Wyoming, and St. John's Episcopal Church in Jackson, Wyoming. She dearly loved the outdoors, taking advantage of the open spaces Wyoming offered the adventurer, and excelled in golf, cross-country skiing, fishing, and fencing.

Herman C. (Joe) Luther

Herman C. (Joe) Luther, born on August 15, 1924, to Herman and Iona Luther in Hattiesburg, Mississippi, passed away on October 10, 1999. He was preceded in death by his parents; one brother, Denny Luther; and one sister, Burl Bauerle. He is survived by his wife, Corrine; his daughters, Cheree Smith and husband, Billy, of Midland, Sheila McCright and husband, Dan, of Midland, and Lisa Jolley of Scottsdale, Arizona; nine grandchildren; and two great-grandchildren. Mr. Luther was a veteran of World War II. He married Corrine Covington in San Antonio on March 6, 1948. He graduated from the University of Texas, Austin, in 1950, where he received a B.S. degree in geology. He worked for Chevron as a geologist and retired after 28 years to do independent consulting.

Robert L. Makins

Robert L. Makins, formerly of Wichita Falls, Texas, died July 18, 1999, at the age of 73. Mr. Makins was born on June 29, 1926 in Orange, moved to Port Arthur in 1929, and received a B.S. from the University of Texas, Austin, in 1949, where he was a member of Kappa Alpha Fraternity. He married Ruth Berry on June 3, 1948. Mr. Makins was employed

by R. Clay Underwood, Underwood Drilling Company, and later with Perkins-Prothro Company, from which he retired in 1991 as Manger of Exploration and Production. He was a member of the American Association of Petroleum Geologists, served on the AAPG Committee on Statistics of Drilling, wrote about developments in North Texas in the drilling activity issue of the *AAPG Bulletin*, was a member of the Department of Professional Affairs of AAPG, served the Southwest Section of AAPG on the Honors and Awards Committee, was on the AAPG Bylaws Committee, and Cochairman of the Services Committee at the AAPG annual convention in 1990. He was a certified petroleum geologist. He was Treasurer, then President and Honorary Lifetime Member of North Texas Geological Society, wrote a paper on the Ada Strawn Field in the Symposium of North Texas Oil Fields, which was published by the North Texas Geological Society. He served on the Board of Directors and the Executive Committee of the North Texas Oil and Gas Association and was Vice President. He also served as a member of the Midwestern State University Advisory Council on Geology and was a founder and President of the Oil Information Library. Survivors include his wife; his daughter, Carol Marshall of Plano; two brothers; a sister; and two grandchildren.

Hugh Thomas Mann

Hugh Thomas Mann passed away on February 17, 2000, at the age of 75 in Houston, Texas. Mr. Mann was born in Fort Worth on April 23, 1924, and served his country in the Army during World War II. He received an M.A. from the University of Texas, Austin, in 1951. He married Emarie L. Luton on February 2, 1952, and they lived in Fort Worth prior to residing in Houston. He was a member of the American Association of Petroleum Geologists and of the Houston Geological Society. He had been retired after 41 years as a geologist with Gulf/Chevron Oil Company. He was preceded in death by his parents, C. Dudley and Margaret Mann; a brother,

Neil Mann; and a brother-in-law, Robert M. Luton. He is survived by his wife; brothers- and sisters-in-law John and Doris Luton of Granbury, Louise and Giles McCrary of Post, and Genell Luton of San Antonio; three nieces; four nephews; and 11 great-nieces and -nephews.

W. E. (Bill) McBroom

W. E. (Bill) McBroom received a B.S. in geology from The University of Texas, Austin, in 1940. He was born on June 21, 1918, in Lehigh, Oklahoma, and died on November 25, 1999, in Wichita Falls, Texas. He was a flight instructor for the United States during World War II, after which he worked for Union Producing Company until going to work for Frank Wood, an independent oil operator in Wichita Falls. He left Wood to go to Vernon, Texas, to become the manager of the oil and gas division of the vast 500,000 plus acre W. T. Waggoner Estate Ranch, for 30 years from 1949 to 1979. For the last two years, he had been working with Preston Lewis and the Heritage Museum Library at Texas Tech University compiling the history of early ranching and oil and gas development in Texas. He is survived by his wife, Erma Dee of Wichita Falls; his son, Bill, Jr., of Vernon; his two daughters, Dee Ann Bertram and Kay Hannah of Wichita Falls; his brother, Robert L. McBroom, Sr., of Wichita Falls; and one grandson, Brandon McBroom, of Dallas, Texas.

Edward (Ted) McFarlan, Jr.

Edward (Ted) McFarlan, Jr. was born on March 24, 1921, in Brooklyn, New York, and died on July 18, 2000. He moved to Greenwich, Connecticut, in 1921 and graduated from Williams College in 1942 with a B.A. in Geology and later a master's degree in geology from the University of Texas, Austin in 1948. He began work at Humble Oil & Refining Company in Houston and retired from that company in 1986. His jobs with Humble included principal research investigator for coastal studies from Laguna Madre Texas to the Mississippi Delta in Louisiana and

supervisor of the exploration teams in the Gulf Coast from Texas to Florida. He also managed the research effort at EXXON Production Research Company, was Manager of the Stratigraphic Geology Division, and principal investigator with EXXON Headquarters. Results of some of his work were published in AAPG's Memoir 26. He was a member of AAPG, serving on the Research, Technical Program, Membership, and Publication Committees. He is survived by his wife, Ann; his son, Ed McFarlan, and wife, Julie, and their two children of San Francisco; and his daughter, Kathleen Pellicer, and husband, Manuel, and their daughter, Mariah, of Houston.

Christopher Joseph McShane

Christopher Joseph McShane died on June 24, 2000, at the age of 28 in Austin, Texas. He was born August 10, 1971, in El Centro, California. He moved to Austin in 1976, received a B.S. in geology from The University of Texas at Austin and a Masters in geology from Texas A&M University, and was employed as a hydrologist at M.F.G., Inc. He was a talented musician and songwriter and a lover of the outdoors. Chris is survived by his parents, Michael B. McShane and Susie Madere of Austin and Cheryl and Ron Hole of McAllen; his brothers, Michael B. McShane, Jr., of Baltimore, Maryland, Lt. John P. McShane of California, and Bryan G. Hole of McAllen; his sister, Patricia Hole of McAllen; and many uncles, aunts, cousins, and friends.

Jack Waddington Mears

Jack Waddington Mears, age 82, of Wichita Falls, Texas, died January 9, 1998. Mr. Mears was born in Bosque County, Texas, on April 21, 1915. He received his education from the University of Texas, Austin, where he obtained a B.A. in geology in 1938 and an M.S. and a Ph.D in education. He and Anna Mary Bevill were married July 12, 1941, in Denton. A veteran of World War II, he served in the Navy. During his career in education, he served as Dean of Personnel at Eastern New Mexico University in Portales, New Mexico, and

as President of Arkansas A&M in Monticello, Arkansas, and Cerritos College in Norwalk, California. He later became Chairman of the Education Department at Highlands University in Las Vegas, New Mexico. He was named to *Who's Who in the South and Southwest*, *Who's Who in America*, *Who's Who in California*, and *Who's Who in College and University Deans*. He received two Freedom Foundation Awards for Americanism speeches. Survivors include his wife; his son, Don Stanley of Des Moines, Iowa; his sister, Dorisgean Gray of Concan, Texas; and five grandchildren.

Alice G. Kleberg Reynolds Meyer

Alice G. Kleberg Reynolds Meyer died on June 28, 2000, in San Antonio, Texas. She was born on September 26, 1928, in Corpus Christi to Richard M. Kleberg, Jr. and Maimie Searcy Kleberg. She was a Phi Beta Kappa honors graduate of the University of Texas, Austin, where she received a B.A. in Geology in 1949 and was a member of the Kappa Kappa Gamma. She moved to San Antonio in 1969 and was appointed a Lifetime Trustee of the San Antonio Museum of Art. She was preceded in death by her son, Richard Reynolds, Jr., and is survived by her children, Chula and Mike Reynolds of Austin, Alice K. Reynolds of San Antonio, and Kitty Lang, and Beverly Meyer of San Antonio; and grandson, Kleberg Collin Reynolds, of Austin

Mary Katherine McDonald Mobley

Mary Katherine McDonald Mobley, formerly of Kilgore, Texas, died on September 21, 1999, at the age of 93. She was born on August 4, 1906, in Van Wert, Ohio. Mrs. Mobley was a graduate of the University of Texas, Austin, where she received a B.A. in geology in 1928. She was preceded in death by her husband, John A. Mobley, and grandson, Mark Mobley. Her survivors include three sons and daughters-in-law, John and Ann Mobley of Austin, David and Nancy Mobley of Lake Cherokee, and Tom and Betty Mobley of Kilgore; two daughters and sons-in-law, Jean and Clifton Grunwald of Corpus Christi, and Ann and Jack Bixby of Houston; a brother and

sister-in-law, Bill and Doris McDonald of Amarillo; 11 grandchildren; 20 great-grandchildren; and three nieces.

Dave Howard Novy

Dave Howard Novy, age 76 of Austin, Texas, died October 16, 1999. He attended the University of Texas, Austin, in 1940. Preceded in death by his wife, Sylvia L. Novy, and his parents, Jim and Edna Novy, he is survived by two sons, Jeffrey L. Novy and wife, Peggy, of Sugar Land, and Brian M. Novy and wife, Ilene, of Austin; one daughter, Allene Novy-Portnoy and husband, Michael, of Fountain Valley, California; one sister, Elaine N. Shapiro and husband, Morris, of Austin; and seven grandchildren.

L. W. (Dub) Owens

L. W. (Dub) Owens of Houston, Texas, passed away February 9, 1999, at the age of 71. He had previously lived in Temple. Born in Mt. Pleasant on December 11, 1927, to A. I. and Dovie Smith Owens, he graduated from the University of Texas, Austin, with a B.S. in geology in 1951, utilizing that degree to work as a geologist for 40 years. He also served in the U.S. Marine Corps during World War II. Mr. Owens was preceded in death by his wife, Mary Hervey Owens, and infant daughter, Vicki. He is survived by daughter Beth Gerdes of Temple; sons, Mark Owens of Boise, Idaho, and Matt Owens of New Philadelphia, Ohio; and five grandchildren.

William McCormick Reid, Jr.

William McCormick Reid, Jr., age 58 of Austin, Texas, passed away on November 3, 1999. Will was born in Corpus Christi, Texas, and graduated from the University of Texas, Austin, where he received an M.A. in 1968 and a Ph.D. in 1973. He was also an A&M graduate. His career included employment by the Environmental Protection Agency, Earth Satellite Corporation, and Condon, Reid and Associates. Dr. Reid was preceded in death by his grandfather, Wallace E. Pratt; his mother, Nancy Jane Tucker; his father, William McCormick Reid, Sr.; and brother, Jenkins Reid. The Wallace

E. Pratt Professorship in Geophysics was established in the Geology Foundation in 1973 with major contributions raised by the Geology Foundation Advisory Council. The Professorship was created for stipend and research of a faculty member and is currently held by Dr. Clark Wilson. Dr. Reid is survived by his son, Wally Reid; daughter-in-law, Kim Reid; daughter, Jennifer Reid; brother, Ed Reid, and his wife, Ellen Bradbury Reid; sister, Tia Tucker; brothers, Austin and Martin Tucker; and many nieces and nephews.

Ewald R. Sauermilch

Ewald R. Sauermilch passed away on November 2, 1998. He was born in Yorktown, Texas, to Isabella Metz and E. R. Sauermilch, Sr., on April 1, 1920. He was a graduate of the University of Texas, Austin, where he received a B.S. in geology in 1943. On March 6, 1943, he married Dora Gras, who survives him. He is also survived by his son and daughter-in law, Peter William and Sally Sauermilch; his grandchildren, Willow and Matthew Sauermilch; his brother-in-law, Ernie Gras; his nieces, Gail and husband, Roland Riedesel, Lynn and husband, Dalton Janssen, and Page Graves; and nephew, John Hohn. He served his country in the U.S. Army Air Corps. Mr. Sauermilch was employed by and retired from Shell Oil Company in 1983.

Billy S. Shipley

Billy S. Shipley, of San Angelo, Texas, was born on July 24, 1923, in Valley Station, Kentucky, to John Selmon and Sarah Gross Shipley. He passed away on November 10, 1999. On September 2, 1946, he married Nelle Taylor in San Angelo, where he attended San Angelo Junior College before transferring to the University of Texas, Austin. He was a graduate of UT with a B.A. degree in geology, which he received in 1950. He then went into the service and retired from the Air Force in 1972. In December 1997, a street in San Angelo, Bill Shipley Way, was named after him. He was preceded in death by his parents and brothers, Allen G., John S., Charles C., and Byron W. Shipley. He is survived by his wife, ten nieces and nephews, and numerous great-nieces and great-nephews.

William R. (Bud) Smith

William R. (Bud) Smith, 67 years of age, and formerly of Tyler, Texas, passed away on August 29, 1996. He was born on September 13, 1928, in Tokio. He attended Texas A&M University and was a graduate of the University of Texas, Austin, receiving a B.S. in geology in 1956. A veteran of the Korean War, he worked as an independent petroleum geologist, with Creole Oil Company in Venezuela for 17 years, with Exxon for two years, and as a partner with Geotec Exploration until retirement. His survivors include his wife, Mary Frances Smith of Tyler; sons William P. Smith of Houston and Richard D. Smith of Tyler; brothers, T. J. Smith of Olton and Norman Smith of Peoria, Illinois; sisters, Neva Wade of Tyler and Norma Kennedy of Olton; and one grandson.

James Harry Stitt

James Harry Stitt passed away on September 17, 1999, at his home in Columbia, Missouri. He was born on December 13, 1939, in Sellerville, Pennsylvania, to James Wilson and Dorothy Gladys Jewett Stitt. In 1964, he married Betty Marlene MaGee. They had two daughters, Tanya Stitt Heath and Merilee Stitt Barta. He was educated at Rice University, where he received a bachelor's degree in 1961 and the University of Texas, Austin, where he received a Master's in geology in 1964 and a Ph.D. in geology in 1968. He joined the faculty as an Assistant Professor at the University of Missouri, Department of Geology in September 1968 and rose to the rank of Full Professor in 1977. During his career, he was Director of Graduate Studies, Chairman of the Department of Geology, Graduate Advisor, and taught classes in Paleontology, Dinosaurs, and Introductory Geology. His specialty was the identification of fossils—trilobites from the Upper Cambrian and Lower Ordovician periods. He published numerous papers with the Oklahoma Geological Survey and the *Journal of Paleontology*. He was a member of the Paleontological Society, the Geological Society of America, and a board member of the Institute for Cambrian Studies. Survivors are his parents, his wife, his two

daughters, one brother, and numerous relatives in Pennsylvania and Texas.

Leslie Armour Taylor

Leslie Armour Taylor passed away on December 13, 1999, in Round Rock, Texas. He was born to Creed and Alline Evans Taylor on May 19, 1920, in Van Alstyne, Texas. He received a B.S. in geology in 1941 from the University of Texas, Austin. During his career, he was a petroleum geologist in South America and Texas and then entered the School of Library Service at Columbia University, obtaining a Master's degree. Mr. Taylor is survived by his sister, Ruth Lee Cason of Van Alstyne; his sister and brother-in-law, Marjorie Creed and Jimmy DeFord of Garland; as well as several nephews and nieces.

Raymond R. Trollinger, Jr.

Raymond R. Trollinger, Jr. was born on January 5, 1932, in Burlington, North Carolina, and passed away on April 11, 2000. He was a graduate of Duke University with a degree in economics and the University of Texas, Austin, with a B.S. in geology, which he received in 1960. He was a veteran of the Korean War serving in the Army. He is survived by his wife, Sharron S. Trollinger of Dallas; his sons, Raymond R. Trollinger III of North Carolina and Robert M. Trollinger and wife, Stacey, of Dallas; his daughters, Gay Hibdon of San Antonio and Tona Trollinger of Kansas; and his cousin, Richard Moore and wife, Ann, of North Carolina.

John Edwin Turner, Jr.

John Edwin Turner, Jr., of Midland, Texas, passed away on April 19, 1995, at the age of 75. Born June 25, 1919, in Hagerman, he moved to Midland in 1924. He served his country in the U.S. Army Air Corps. and married Geneva Campbell on October 4, 1948, in Burkburnet. Receiving a B.S. in geology from the University of Texas, Austin, in 1950, he became employed by the consulting firm Lloyd, Penn, and Hills and a partner in Penn, Hills, and Turner. He was a member of the American

Association of Petroleum Geologists, West Texas Geological Society, and Ranchland Hills Country Club. He is survived by his wife, Geneva Campbell Turner of Midland; a brother, Norman B. Turner of Kerrville; six nieces; and three nephews.

LeeRoy Jerome Tydlaska

LeeRoy Jerome Tydlaska, of Metairie, Louisiana, a retired petroleum geologist with Amoco, died on May 23, 2000, at the age of 76. He was born in Temple, Texas, and received a bachelor's degree in 1949 in geology and a master's degree in geology in 1951. He was a member of the American Association of Petroleum Geologists, the Southeastern Geophysical Society, and the New Orleans, Lafayette, and Houston Geological Societies. He is survived by his wife, Kathleen Colbert Tydlaska; two sons, Lee R. Tydlaska of San Diego and Michael J. Tydlaska; two daughters, Maureen E. Tydlaska and Laurie T. Baham; a brother, Joseph Tydlaska of Dallas; a sister, Wilma Frazer of Fort Worth; and six grandchildren.

Robert Melton Watkins

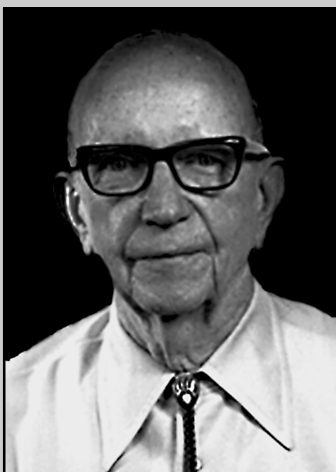
Robert Melton Watkins, age 51, of Harlingen, Texas, and formerly of Houston, passed away on July 10, 2000. He received a bachelor's degree in geology from The University of Texas at Austin in 1976. He was employed in the oil business.

Charles Freeman Word

Charles Freeman Word was born in Falfurrias, Texas, on January 25, 1914, to Mary Kilmer and Freeman Word, and died in Houston on June 22, 1999. He earned a B.S. in geology in 1937 from the University of Texas, Austin. In 1938, he married Davida Graham in Abilene. In 1941, he joined the U.S. Navy during World War II. During his career, he was a consulting geologist. In 1959, he moved to Conroe and served on the City Council and as a member of the Tax Evaluation Board. He is survived by his wife; daughters, Barbara Fisher and husband Rick of Austin, Elizabeth Drapela

of Kerrville, Cynthia Word and husband Danny Banner, of Chevy Chase, Maryland; three grandsons, Eric Paul Fisher and Charles Andrew Fisher of Austin and Charles David Drapela of Houston, two step-grandsons, Joseph Drapela of Houston and William Drapela of Lago Vista, Texas; great-granddaughter, Kathryn Davida Fisher of Austin; step-great-

granddaughter, Jessica Nicole Drapela of Lago Vista; brother, James Havens Word and wife, Margarette of Floydada, Texas; sister, Mary Ellen Petty of Fort Worth; sisters-in-law Mozelle Scarborough of Abilene and Helena Word of Austin; and numerous nieces and nephews. He was preceded in death by his brother, Robert E. Word. ❖



Raymond Douglas Woods (1910-2000)
Photo provided by American Association of
Petroleum Geologists.

Raymond Douglas Woods

Raymond Douglas Woods was born on September 14, 1910, in Evangeline, Louisiana. He died in Austin on April 6, 2000, at Westminster Manor, where he had lived since his retirement. Ray received a B.A. in geology in 1931 and an M.S. in geology in 1934, both from the University of Texas, Austin. Mr. Woods served in the U.S. Army during World War II. After the war, he began a long-time career with Humble Oil and Refining Company, later Exxon USA. Ray held several positions in the

research labs of both Humble and Carter and did several international stints. The last years of his career with Exxon USA were as assistant chief geologist in Houston, Texas.

Ray was a member of several professional geological societies, including the American Association of Petroleum Geologists and the Geological Society of America. He was a trustee associate of the AAPG Foundation. He was a staunch and continuing supporter of geology at UT Austin. He was a generous contributor to several endowments of the Geology Foundation. His gifts established the Fred M. Bullard Professorship in Geological Sciences in 1973, the Leslie Bowling Professorship in 1978, and the Arno P. (Dutch) Wendler Professional Development Fund for graduate student support in 1981. The remainder of two unitrusts were added to the Bullard and Bowling Professorships upon his death. The endowments established by initial gifts of Ray Woods now have a market value of about \$1.4 million.

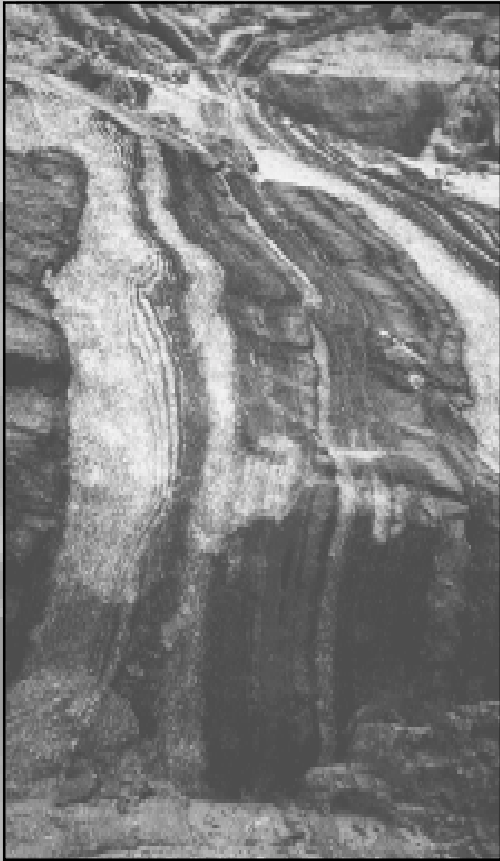
Ray is survived by his sister, Nina Huntsman, of Sun City, Arizona. He leaves a host of friends.

We have learned of the death of the following persons but have no additional information:

Helmut Alfred Lenert (B.S., 1938)

A. G. McCarver (Attended 1938)

Harry Graham Peterson (B.S., 1940)



SEE PHOTOS ON FRONT AND BACK COVERS.

Notes from the Alumni

Notes from the Alumni

Alumni Honors

A. T. (Toby) Carleton was awarded the Honorary Membership Award by the American Association of Petroleum Geologists and is President of the Society of Independent Professional Earth scientists.

Robert H. Fakundiny is President-Elect of American Institute of Professional Geologists.

Robbie Gries is President-Elect of American Association of Petroleum Geologists.

Richard T. (Red) Houser was awarded the 1999 Senior Landman of the Year by the Houston Association of Professional Landmen.

Charles J. Mankin was awarded the Honorary Membership Award by the American Association of Petroleum Geologists.

Robert T. Sellars, Jr. was awarded the Distinguished Service Award by the American Association of Petroleum Geologists.

Pinar O. Yilmaz was awarded the Distinguished Service Award by the American Association of Petroleum Geologists.

PAT ABBOTT (Ph.D., 1973) is a Professor of Geology in the Department of Geological Sciences at San Diego State University in San Diego, California, with an e-mail address of pabbott@geology.sdsu.edu, and writes, "Still personally teaching 1,200 students per year in natural disasters at SDSU. Latest book is entitled 'The Rise and Fall of San Diego.' It covers 150 million years of history recorded in sedimentary rocks and fossils. Have just begun making first one-half-hour video with hope that it will be broadcast nationally on television."

EDWIN V. ACKER, JR. (B.S., 1956), of Tilden, Texas, is retired and writes to tell us, "Bev and I are enjoying the good life here in McMullen County. I have taken up offshore fishing, if the weather permits."

J. WESLEY ADAMS (B.A., 1948), a retired Exxon geophysicist in Conroe, Texas, writes, "Enjoy getting the yearly *Newsletter*. It's good

to hear from my colleagues who have gotten their second wind pursuing the \$30 oil."

JIM W. ADAMS (B.S., 1951), of Midland, Texas, is a consultant. His e-mail address is JWAdams2@aol.com. He writes to report, "Enjoy running field trips to the Guadalupe, Franklin, Glass, and Sacramento Mountains. The count now stands at one wife, five kids, and seven grandchildren, which are the center of our universe. Enjoyed three glorious weeks driving in Norway and Sweden."

FLOYD J. ADCOCK (B.S., 1955) is the owner and geologist of Saltdome Exploration in Kilgore, Texas, and writes, "I still enjoy slipping loose and looking for that elusive bonanza."

E. GAYLE ALBRECHT (B.S., 1960), who resides in Corpus Christi, Texas, is a Landman with EOG Resources, Inc.

KEG ALEXANDER (M.A., 1990), of Oakland, California, has an e-mail address of keg@hydroanalysis.com, and informs us, "New job as principal hydrogeologist with Hydro Analysis, Inc., in El Cerrito, a small environmental consulting firm in the San Francisco Bay area."

JEFFREY A. AMBROSE (B.S., 1982) resides in Cypress, Texas, and is Director of Midstream Business Development in Houston, Texas.

GENE AMES, JR. (B.S., 1955) is Chief Executive Officer for Venus Exploration and writes, "Howdy pals. We are still here in San Antonio making the same play. Expanded Yegua and Cotton Valley with some success in every aspect except stability. Come see us!"

NANCY JENSWOLD ANDERSON (B.A., 1950), e-mail address of njand@wans.net, resides in Cedar Hill, Texas, and writes, "Finally retired from my urban and environmental planning consulting business last summer. Celebrated with a wonderful trip to England, France, and Austria including one week on a luxury canal boat in Burgundy. In spite of retirement, I am staying busy with interests in music, architectural history, and antiques."

PAYTON V. ANDERSON (B.S., 1945) lives in Midland, Texas, is an independent for oil and gas exploration, and tells us, "Evelyn and I have been married 54 years. We have three daughters and six grandchildren. Present operations are in most of U.S.A. except Far West. Main interest is travel both U.S. and worldwide."

CARL E. ANDREWS (B.A., 1958) resides in Dallas, Texas, and is with Andrews Properties, Inc.

JAMES M. ARMSTRONG (B.S., 1978) writes to inform us, "I am still with Huntsman Petrochemical in Houston, Texas, and continue to enjoy a busy life with friends and relatives. I was in the Provence region of France last June and would like to say the wines and scenery are excellent and the food mediocre."

JOHN ATKINS (M.A., 1989), of Dallas, Texas, is a management consultant with McKinsey and Company. E-mail address is John_Atkins@McKinsey.com.

GERALD LEE ATKINSON (B.S., 1983), of Kingwood, Texas, is a Senior Exploration Geologist with ExxonMobil and informs us, "Busy with ongoing ExxonMobil merger. Still working deepwater Gulf of Mexico." E-mail address is JerryAtkin@aol.com.

EDWARD ROBERT (BOB) ATWILL (M.A., 1960), of Tubac, Arizona, is a rancher on the Serendipity Ranch and informs us, "Helen and I are well. Ranch is still bumping along. Five acres of wine grapes are gone! Too much work! Adding to permanent pasture for the cow/calf operation. Price of beef looking up. Went to Antigua, Guatemala, last year for a month—Spanish lessons. Hello to friends."

GENE M. AUSTIN (B.S., 1951), a petroleum geologist in Houston, Texas, tells us, "Shallow, low risk. Close-in, that's my current type of prospect to originate and sell. Equally, I enjoy visiting with classmates of old. Office: 713-228-8303."

ALANA HAVEMAN AVERY (B.S., 1989) is a teacher at J. J. Pearce High School in Richardson, Texas, has an e-mail address of avery@gateway.net, and reports, "After seven years in the oil industry, I am now teaching geology and environmental science to high school students. Lots of work, but very rewarding. We have been in Plano for two years now, and Emily is three."

JACQUELINE AVVAKOUMIDES (B.S., 1997) completed an M.S. in Science and Technology Commercialization at UT in 1998 and is now a hydrogeologist in Austin, Texas, with Duke Engineering and Services and Coordinator of SEAR Technology Alliance, a research and development full-scale application strategic alliance for surfactant-based subsurface remediation. E-mail address is javvakou@dukeengineering.com.

WALTER AYERS (Ph.D., 1984) is a principal consultant in College Station, Texas, and has an e-mail address of ayers@college-station.oilfield.slb.com.

T. DALE BAGWELL (B.S., 1979), e-mail address of dbagwell@lgc.com at the office in Houston, Texas, and dbagwell@houston.rr.com at home in Spring, is a Geoscience Systems Analyst and tells us, "I picked a 'heck' of a time to get back in the

'oil business.' I did three months training on all Landmark's G&G software, seven months unemployment at \$10/barrel, eight months contract, and now employed on their help desk. I love it! Much better pay than teaching high school physics."

CAROL SWENUMSON BAKER (B.S., 1984) is a geophysicist with ExxonMobil in Houston, Texas, and writes, "Rodney and I stay busy with our boys, Grant (10) and Andrew (4)."

ERNEST T. BAKER, JR. (B.S., 1955) lives in Austin, Texas, is a Senior Staff Geologist with U.S. Geological Survey, and tells us, "Lu and I have been married now for 39 years. Ken (38) is a Cisco Systems instructor in Austin, and Laura (34) is a government-documents librarian at Abilene Christian University." E-mail address is etbaker@usgs.gov.

and Department of Energy work and recently performed an extensive coring project that truly made me appreciate the fundamentals of geology. (If only I had paid attention in class!) All of the technology in the world cannot replace physically looking at the rock. With the recent move, I stumbled across my old 660 trip photos and had quite a trip down memory lane. For anyone who remembers, I found a great photo of our group doing the Aztec Sun God somewhere in New Mexico. You guys will have to wait till next year to get a copy for the *Newsletter*. I may never be finished unpacking. Big Hellos to Uncle John and Durbo. I hope all is well with you and yours. Feel free to e-mail me. Paul Neumann and I have developed quite the tawdry e-mail exchange and would love to forward his missives to anyone interested."



The personnel of the geology field camp of the University of Texas for the first six weeks of summer 1932. Most members of this group were on the tour of the Central Mineral Region. Photo provided by Ernest T. Baker, Jr., from the Tom Shelby, Jr., collection.

LINDA BALCOM (B.S., 1987), of Colorado Springs, Colorado, has the present position of a Senior Geologist with Harza Engineering, has an e-mail address of lrbalcom@uswest.net, and writes with the following news: "1999/2000 was a very busy year for us here in Colorado! Mark started his own business, I went full time with Harza, and we moved because Mark and I are expecting our third child in August of 2000. Speaking of children, Helen is 3^{1/2} years old, and William is almost 2. They are perfect children with ogres for parents and only occasionally drive us insane. Work continues to be busy. I am still very involved with Department of Defense

BENNIE K. BALKE (M.A., 1958), of Niwot, Colorado, is retired from Shell Oil Company and states, "Having another look at the tectonics of the Ouachita Mountains after 40 years with colleague Kasper Arbenz."

JAMES M. (JIM) BALOGH (B.S., 1972), a senior geologist in business development with Coastal Oil and Gas in Houston, Texas, lives in Bellaire, has an e-mail address of james.balogh@coastalcorp.com or jamesbalogh@juno.com, and tells us, "Working in the Acquisition Department of a company that was just acquired is an uneasy feeling. I'm not sure if Coastal or El Paso is the bigger fish, but looks like I'll have

plenty of time in the future for fishing. I've been practicing singing for the next career, a full circle."

CHRIS BARKER (B.S., 1978) has an e-mail address of cbarker@sfasu.edu and lives in Nacogdoches, Texas. He writes, "After finishing my Ph.D. at the University of South Carolina, I'm now teaching structural geology at Stephen F. Austin State University and having a wonderful time. My colleagues are just great, and the geology majors are full of spirit. I'm also co-teaching the field course, which means a working trip to the Rockies each June. My wife, Anne, a native South Carolinian, is trying to adjust to Texas and to her job as Assistant Director of the public library. Our daughter, Louisa, is in her second year at Wesleyan University in Connecticut. I'd love to hear from old friends. Yes, I still bang on the bongos."

CHARLES (SANDY) BEACH (B.S., 1987) is a geologist with Beach Exploration, Inc., in Midland, Texas.

JOE BEARD (B.S., 1942) is retired in Wichita Falls, Texas.

ROBERT E. BEATTY (B.S., 1954) writes that he is retired in San Antonio, Texas, and that, "I lost the love of my life, Marilyn, last year. Her first husband was Thomas McGuire, second highest WWII Air Ace; McGuire Airforce Base in New Jersey, etc., etc. named after him. I am coping and recovering!!"

BRYAN D. BECK, JR. (B.S., 1939) lives in Beaumont, Texas, is retired from petroleum geology and engineering, and states, "Remember, buy low, sell high, slow dance longer and show no fear. That's the enemy's problem. What fond memories of University of Texas, especially the Geology Department, Dr. Bullard, Dr. Cuyler, and summer camp at Brady, Texas in 1938. Regards to all."

R. L. BECKELHYMER, JR. (B.S., 1952), retired in Lakeway, Texas, writes, "Taking several trips a year, otherwise, hanging out in Lakeway and rooting for the Longhorns."

TERESA (HARKRADER) (B.S., 1982) and **FRED BECKER** (B.S., 1983) reside in Slidell, Louisiana, and write, "Fred is still with Shell, and Teresa is working part time as a consultant in New Orleans. Our two daughters, ages 9 and 10, keep us busy with soccer and homework. We're enjoying

Fred's new boat, taking some overnight trips in it." Fred is a Staff Geophysicist, and Teresa is an independent consultant. E-mail address is thbeck@bellsouth.net.

ADRIENNE BEEDE (B.S., 1998) is a geologist in San Antonio, Texas, with an e-mail address of abeede@rkci.com, and resides in Helotes.

LYNN S. BEELER (B.S., 1962), a programmer for tax returns in the Dallas area, lives in The Colony, Texas.

SID BELL (B.A., 1946), of Fort Plain, New York, writes, "I had thought before now I'd be able to go south to Texas and not only visit UT but also my daughter, who lives out by Lake Travis. However, my physical problems continue to pile up, so a delay in the trip this summer will probably stretch on to infinity. Several months ago, my heart stopped three times, to be restarted by the electric paddles. Luckily, I was in the VA Hospital when it happened (for cancer, not heart). I have always been proud of my UT association. Early on, I went to the Canadian bush and arctic for uranium prospecting and never tucked into any mining firm long enough to become one of the family. My spine has been fused, so I can't walk except with two canes. So the likelihood of a Texas visit gets dimmer."

RICHARD B. BENDER, II (B.A., 1967) is Vice President of Thermacor Processing in Fort Worth, Texas.

JAMES B. (B.S., 1961) and **KATHRYN G. BENNETT** (B.A., 1961) live in Houston, Texas. James is President of B&S Exploration, Inc. Their e-mail address is jbbennett1@aol.com. "We always enjoy the *Newsletter*," and they report, "Thanks to all of you for your successful effort in putting it together. Well, 1999 was a particularly interesting year for those of us who generate drilling deals. We did get one prospect drilled. We were pleased with that and have high hopes for another prospect that will be drilled this summer. Kathryn is co-chairman of the spouse events for the Gulf Coast Association of Geological Societies' 50th anniversary convention in Houston this October. James is currently serving on the Advisory Council of the DPA."

DON G. BILBREY (B.S., 1953, M.A., 1957), retired in New Orleans, Louisiana, from Gulf Oil Corporation, with an e-mail address of donbilbrey@webtv.net, notifies us, "I still play a lot of golf, but not as well as I did a couple of years ago. I'm around Palmer's

age and we've both seen better days on the course. He's still richer than I am, though."

ANDRIA BILICH (B.S., 1999) resides in Durango, Colorado. Her e-mail address is fuzzygirl@frontier.net. Her news for us is, "A year off (at least) before graduate school is the best idea a human being could possibly have, trust me!"

SEVIN BILIR (M.A., 1992) lives in Livermore, California, is a hydrogeologist with Weiss Associates at Lawrence Livermore National Laboratory, and has an e-mail address of sevinb@yahoo.com.

GALE A. BISHOP (Ph.D., 1971), e-mail address of gabishop@mato.com, lives in Spearfish, South Dakota, and informs us, "Retired on June 1, 1999, from 29 years at Georgia Southern University. Will continue teaching two Sea Turtle courses and co-direct St. Catherine's Sea Turtle Conservation Program through Georgia Southern University. Moved to Black Hills of South Dakota in January, where I will establish GeoTrec, a geology and science education consulting business."

WILLIAM T. BISKAMP (B.A., 1954), retired in Dallas, Texas, with an e-mail address of 7bilbis@airmail.net, writes, "No change. Still helping Mona in real estate, traveling, and watching 7 grandkids grow."

JOHN BISSELL (B.S., 1976) is Senior Vice President, Onshore Division, with EEX Corporation, has an e-mail address of Jbissell@eexsat.com, and writes, "After 19 years in San Antonio, Texas, with Tesoro E&P Company, we have survived being sold off. Our whole E&P team is fortunate to remain together as a team working onshore Gulf Coast for EEX without leaving San Antonio."

TOM BJORKLUND (M.A., 1962), of Houston, Texas, is a retired student, and writes, "I hope to finish my dissertation on the deformation history of the Whittier Fault in the Los Angeles Basin by the end of 2000." E-mail address is tbjorklund@uh.edu.

JEFF BLACK (B.S., 1985, M.A., 1993), a hydrogeologist, recently began working at ThermoRetec Corp. in Golden, Colorado. He lives nearby in Lakewood in the Denver metro area. Jeff is involved in an investigation and cleanup at a former refinery in Casper, Wyoming, where he'll be spending some weeks in the early summer supervising the fieldwork."

ASA LEE BLANKENSHIP (B.A., 1950, M.A., 1952) is a retired Vice President of Bank of America (Trust Investments) in Houston, Texas, and tells us, "Enjoying retirement. Twelve-year-old granddaughter lives in Hilo, Hawaii. Good excuse to check out lava beds and local flora. Love to visit old friends in Houston area."

ROBERT H. BLODGETT (Ph.D., 1990), e-mail address of rblodget@austin.cc.tx.us, lives in Austin, Texas, is a Professor at Austin Community College, and lets us know,

*Greetings to old classmates/survivors that
are still around and flourishing.
Best of luck to you in all your projects.*

—Silverio Bosch

"The past year was a full one with landscaping at home and a year of service as President of the Austin Geological Society. Work continues on an automated monitoring well in the Edwards Aquifer for ACC, and I received ACC's equivalent of tenure (a perpetual three-year contract). I attended the Geological Society of America meeting in Denver, Colorado, and had a wonderful visit with Steve Cumella and his family."

RETHA BLOODWORTH (B.S., 1939) is a retired petrographer in Denver, Colorado.

PATRICIA BOBECK (M.A., 1985) lives in Austin, Texas, and works in the Remediation Division of the Texas Natural Resource Conservation Commission, where she oversees hazardous waste cleanups. She writes, "My second job, the translation business, is booming due to increased oil exploration in Africa and Latin America. It helps me put up with higher gasoline prices at the pump! Last year, I translated a book from French, to be called something like '1000 Photos of Minerals and Fossils,' when it is published by Barrons. In addition to spectacular photographs, the book contains short narratives about gems, minerals and fossils, and many photo captions. In November 1999, I stepped down after four years as head of the Science and Technology Division of the American Translators Association. My son,

Dennis, is now 13 years old and taller than me! My new challenge is to 'just say no' as I'm looking up into his face. I'm still desperately seeking Anna Chappell. Any news of her would be much appreciated and phone number would be wonderful."

SILVERIO (SIL) BOSCH (B.S., 1974, M.A., 1975), an independent exploration geologist in Corpus Christi, Texas, has an e-mail address of sboschatcc@aol.com and writes, "Continue to consult and prospect for Esenjay Exploration in South Texas Wilcox.

Have had extremely busy drilling year with success. No long and adventuresome vacation past year because of work (shame on me!). Extremely busy at home with Matthew (12), Eric (10), and Lisa (39 plus) and soccer, basketball, et al. Continue to compete in 'Old Farts' track meets (I am one.), chasing a world record high jump in my age division. Need four inches to break an eight-year-old record, perhaps this year. Don't fail me now, knees—6'4" is all I need. Greetings to old classmates/survivors that are still around and flourishing. Best of luck to you in all your projects."

DOUGLAS L. BOSTWICK (M.A., 1953) notifies us, "We moved from Santa Fe, New Mexico, to Albuquerque in December 1999. I can see the geology much better from our new home. All is going well in retirement. Retired from Exxon in 1986 (along with many others)." E-mail address is jdbostw@aol.com.

ANDREW BOWEN (B.S., 1991) is a marketing manager with Vignette in Austin, Texas, and lets us know, "Recently completed M.B.A. at UT and have made a jump to the software industry; however, I still consider my undergrad education at UT Geological Sciences the best learning experience and fun I've ever had."

WALTER A. BOYD, JR. (B.S., 1953), retired from Columbia Gas in Houston, Texas, writes, "Dorothy and I are still traveling and enjoying life." E-mail address is wildbill@p38.com.

WALT V. BOYLE (B.S., 1954, M.A., 1955) resides in Houston, Texas, is a consulting geologist, and informs us, "During 1999, I enjoyed travels to Russia and in the 'states' to Colorado, New Mexico, and Texas with wife, Vada Marie. Life is very good to both of us."

PHILIP BRAITHWAITE (M.A., 1958) is retired from Mobil in Dallas, Texas, and writes, "Still enjoying the more relaxed pace of retired life and catching up with things I have put off for 20 years! It looks like the last of the major oil companies will leave Dallas this year. It's sad to see the end of a great era. The family is all in good health." E-mail address is pxbraith@swbell.net.

SUSAN (B.S., 1985) and **MARK BRIGGS** (B.S., 1985) live in Seabrook, Texas, where Susan is a therapist and Mark a business owner of KEI. They write, "We have moved from San Antonio to the Houston area so Mark could develop business prospects at the Houston office (construction recycling and a waste water deal). Susan is a therapist at a battered women's shelter. Our son, Clay, is 12 years old. We feel extremely blessed!" Their e-mail address is mmbriggs@flash.net.

BEN (BUD) BRIGHAM (B.S., 1983) is a Chief Executive Officer of Brigham Exploration in Austin, Texas, and writes, "Anne and I are doing great as are our children." E-mail address is bbrigham@bexp3d.com.

BUDDY BROCK (B.S., 1956) resides in Edna, Texas, works in Ganado, and reports, "It appears my grandkids' numbers have leveled off and remain constant at nine. That keeps us busy enough. We spend a lot of time with them. Remaining time is filled with church and civic activities. We follow the Horns faithfully."

KEN BROOK (B.S., 1967) is President of Desert Ventures, Inc., lives in Reno, Nevada, has an e-mail address of ken@desven.reno.nv.us, and tells us, "Still looking for that gold mine. Family is fine. Time does fly."

GERALD R. BROOKS (B.S., 1958), of Bossier City, Louisiana, informs us of his e-mail address of grb97@WEBCV.Net and tells us, "Retiring in May to follow grandchildren's athletic careers."

C. DOUGLAS BROWN (B.S., 1984) has an e-mail address of BXPCO@AOL.COM and is President of BXP Company, L.L.C. in Dallas, Texas.

GIB BROWN (B.S., 1976), whose e-mail address is gibbrown@hotmail.com, who resides in Amarillo, Texas, and is a partner in H&L Operating Company, writes us, "By God's grace, I still have my job, my wife, my kids, and my sanity."

WALLACE E. BRUNSON (B.S., 1942, M.A., 1954) is retired in Houston, Texas, and writes, "Went to Whistler, B.C., Canada, in January 1999 and to Vail, Colorado, over Christmas. Been there and done that so at 80 I'm hanging up the skis."

JAMES ELWOOD (WOODY) BRYANT (B.S., 1943, M.A., 1948), of Fredericksburg, Texas, is an independent geologist and tells us, "We are thankful for being reasonably healthy. Jen is off on the Vanishing River Cruise today to look at the bald eagles. I am still working on drilling prospects, with more enthusiasm since the increase in oil and gas prices."

LEONARD C. BRYANT (B.A., 1957), an independent in Helotes, Texas, writes, "We still travel to Topeka, Kansas, to visit our daughter and her family about four times a year and then over to our condo in Branson, Missouri, to see some shows."

THAIS FREDA BULLARD (M.A., 1951) writes, "Aloha from Hawaii! My winter vacation at my home in Honolulu is always wonderful. And I have been traveling around to again see the Hawaii volcanoes that long ago inspired my father to become a volcanologist—albeit while teaching at The University of Texas!

"This year, I have been working through the assistance of Dr. Tom Barrow and other students of my father to initiate a new Fred M. Bullard Fund to honor my father's professional legacy and to support students. During his career of 70 years on the Geology Department faculty (1924-1994), Fred Bullard was eminently dedicated to teaching, and he so loved his students. You may recall that upon his retirement, his students established the FMB Professorship in the Geology Foundation to contribute to teachers' salaries. Now, our intent is to establish this new Fund in his memory to support students. I have received many notes from you, his students, recalling his wonderful input into his students' lives,

and I appreciate these comments. They will be preserved.

"The new FMB Fund for student support could sponsor projects that would utilize his professional legacy: such as producing a history of the Geology Department, using materials collected by FMB during his 70 years in the Department, and also geology research projects involving the use of his large documentary film collections, both black-and-white prints from the old days, and his extensive collections of 35-mm slides and 16-mm movie films—depicting volcanoes and other geologic phenomena all over the world, which he took during the entire career, and other research that may be of interest. For the project on a history of the Geology Department, any personal recollections you care to offer about your days in Geology at UT—stories, events, memories, and any photos you may find—will be added to the information base that will offer dimension and enjoyment to a history of Fred Bullard's time, and your times, in the Geology Department.

"So, please send in your memories! All contributions will be immensely appreciated. For information about Fred Bullard's career, see <http://www.gslis.utexas.edu/-bullard/FMBbio.html> and <http://www.gslis.utexas.edu/-bullard/thais.html>. If you are in Hawaii during fall, winter, or early spring, please contact me at 66 Queen Street, Suite 1501, Honolulu, Hawaii 96813, telephone and fax 808-536-5773." Her e-mail address is bullard@gslis.utexas.edu.

THOMAS M. BURKE (B.S., 1949) lives in Houston, Texas, where he is a retired petroleum consultant. He writes to tell us, "Happy to report that several geology students are using the 'Burke Student Job Program' to earn and learn while studying at UT. Mae Dell and I enjoy watching our eight grandchildren grow up. One is a freshman at A&M. Can't win 'em' all." Mr. Burke is a member of the Geology Foundation Advisory Council.

ROBERT W. (BOB) BYBEE (B.A., 1941), retired in Houston, Texas, says, "We spend summer in Wyoming and winter in Texas. A good routine. No more world travels. In good health for age 80 plus. Still hunt ducks, fish, and golf. Have not mastered e-mail dot.command online and other mysterious languages. Regards to all."

LEON G. BYERLEY (B.S., 1952), of Midland, Texas, is an independent, and reports,

"There seems to be "a bit of cautious optimism here in Midland—something we have not experienced in some time. Hope it lasts."

GARY LEE BYRD (B.S., 1984) is a roofing contractor in Rockwall, Texas, and writes, "Too much work and family to look for new fossils. Son, Jesse (16) is driving!! Son, Zachary (14), is into jazz band. Daughter, Georgia (7), is into everything!"

SUSAN KIEFNER CAGE (B.A., 1950) and **WARREN JACKSON (JACK) CAGE, JR.** (B.S., 1950) live in Georgetown, Texas. They report they are retired and enjoying life in Sun City with all its recreational and educational facilities and its many Texas Exes.

FRANK KELL CAHOON (B.S., 1957) writes, "I have been working with the 'SAOE Domestic Oil' initiative for the last year. I don't know if it caused the sudden increase in oil prices, but it sure didn't hurt." He is an independent oil operator in Midland, Texas.

DEAN L. CALLENDER (B.S., 1956, M.A., 1958), of Houston, Texas, is a Senior Vice President with Morgan Stanley Dean Witter, has an e-mail address of demacall@aol.com, and writes, "When the genuses in Washington consider getting into the strategic petroleum reserve to bring down prices and the world is consuming 28 billion barrels of oil a year and we're finding 5 billion barrels, it may be time for students to consider geology and geophysics as a major. Keep the faith. The crisis is coming!"

ELEANOR CAMANN (B.S., 1999) reports, "Studying coastal sedimentology at the University of North Carolina at Chapel Hill. Working toward my Ph.D. Advisor is Dr. John Wells." Her e-mail address is ecamann@email.unc.edu, and she lives in Chapel Hill.

AMY L. CAMPBELL (B.S., 1997), of Austin, Texas, is a financial advisor with Morgan Stanley Dean Witter. E-mail address is Tleec@hotmail.com.

DONALD H. CAMPBELL (M.A., 1962), of Dodgeville, Wisconsin, is a geologist with Campbell Petrographic Services, Inc., has an e-mail address of campbell@mhtc.net, and reports that "Second edition of my book on portland cement and clinker was published by Portland Cement Association (www.portcement.org), and yet much remains unsaid and not researched. Happy times to all."

DONALD M. CAMPBELL (B.A., 1955) writes, "Having 'retired' in 1988 after 31 years as a geologist and geophysicist, I am residing at Lake Langanore about six miles east of Frederick, Maryland. I am currently employed in special education at Deer Crossing Elementary School, about two miles from my home and also working for the Eaglehead Company, Lake Langanore's largest builder and developer. My granddaughter, Kimberly, now in first grade and living nearby, rides to school with me each day. She is my pride and joy and, of course, is the smartest and prettiest girl at school. Since I've been working in special ed, I have a new-found respect for that type of work as well as for all the regular teachers I associate

A. T. (TOBY) CARLETON (B.S., 1951, M.A., 1952) lives in Midland, Texas. His e-mail address is Toby@marshill.com. He writes to tell us, "I continue in the oil and gas and ranching businesses. I stay pretty busy, but am not sure that I am accomplishing much of anything. Now that oil and gas prices are up (as of this writing), all I can do is hope that they stay that way and pray for rain!!" He is a member of the Geology Foundation Advisory Council.

MARVIN T. CARLSEN (B.S., 1952), a retired geologist in Midland, Texas, tells us, "Wife and I try to walk each day, though she still works several times a week at our church nursery, mostly in the evenings. Had no

Israel in the past two years, with China, Cambodia, and Vietnam scheduled. I wish I could take my boys, Ian and Austin, with me."

JOHN CAIN CARTER (B.A., 1989), who is a rancher residing in Brazil and has an e-mail address of JCarter@zaz.com.br writes, "Having great fun taking small groups on Brazilian adventure trips. Great fishing, day trips to see native Indians, and fabulous experiences in the marshlands of Brazil. Come see us!"

JACK C. CARTWRIGHT (B.S., 1951, M.A., 1955), e-mail address of JCCART@ATTGLOBAL.NET, lives in Midland, Texas, and tells us, "I made the first step toward a less active career by closing my downtown office and establishing a home office. Still doing the same thing, managing my business interests. Barbara and I are well and look forward to a new phase of our lives."

LEE CASE (B.S., 1971) has the present position of Intermountain West Liaison with U.S. Geological Survey in Salt Lake City, Utah, lives in Park City, Utah, and informs us, "Back in Utah after four years of working at U.S. Geological Survey Headquarters in the Director's Office of Strategic Planning. I'm now focusing on geographic information and applications throughout the intermountain West area." E-mail address is hlcase@usgs.gov.

DWIGHT E. CASSELL (B.S., 1955, M.A., 1958), of Austin, Texas, is a petroleum geologist who is self-employed. He reports his e-mail address as being declsc@flash.net. He comments, "The recent rise in crude prices has lifted the hopes of future stability above the \$20 level. Locations that were marginal last year are now waiting on rig availability. Life is returning to the oil patch. Landa and I try to take two 'serious' travels each year, with the great majority of time spent working out of our home."

WALTER CHATHAM, JR. (B.A., 1948, M.A., 1950), is retired in Mineral Wells, Texas, and tells us, "I have been out so long I don't recognize many people anymore but do find the information interesting."

TOM H. CHESNUT (B.S., 1959), a sales manager with Texas Industries, writes to us, "Finally made it back to Austin, Texas. Life is good." E-mail address is tchesnut@dallas.txi.com.

For the project on a history of the Geology Department, any personal recollections you care to offer about your days in Geology at UT—stories, events, memories, and any photos you may find—will be added to the information base that will offer dimension and enjoyment to a history of Fred Bullard's time, and your times, in the Geology Department.
—Thais Bullard

with. They are not overpaid and under worked for this so very important a profession. As you can see, I'm not ready for the retirement of golf, fishing, traveling, etc. I traveled plenty in my career both domestic and foreign. My wife, Carol, is from this area, and that is why I am here. It's very pretty in this location, and we really do not have any severe weather including winters. But, of course, I still miss Texas, especially the San Antonio Hill Country area. So salutes to all the geology alumni. And if you are ever this way, look us up." He lives in New Market, Maryland.

JIM CAREW (M.A., 1969, Ph.D., 1978) is a Professor of Geology at the Department of Geology at the College of Charleston in South Carolina, has an e-mail address of carewj@cofc.edu, and writes, "Continuing active research in Cenozoic carbonates of carbonate islands. Currently working on a USGS grant to study the carbonate geology and hydrogeology of Guam."

serious illnesses except a bout with bronchitis. Trying to find someone who can make it rain! Very dry here in West Texas. My best wishes to alumni and faculty."

PAUL CARPENTER (B.S., 1986, M.A., 1990), e-mail address of pcarpent@dtsc.ca.gov, lives in Sacramento, California, is an engineering geologist with California EPA, and informs us, "Last year I visited and explored some spectacular active volcanoes—St. Helens, Crater Lake, Mono Craters, and Kilauea. My goal this year is to climb Mt. Shasta."

RICHARD F. CARROLL (B.S., 1980) is a geologist with ExxonMobil Production in Houston, Texas, with an e-mail address of richard-f-carroll@email.mobil.com, and reports, "I have now made the full transition from small independent to world's largest oil company, ExxonMobil. The only problem was I did it backwards. Did a little traveling also—Nepal, India, Egypt, Jordan, and

C. A. CHIMENE (B.S., 1950) is retired in Houston, Texas, and writes, "Now writing books (fiction). Check out my name on the Chimene Web page at www.Chimene.com for books." E-mail address is cchimene@juno.com.

STEPHEN E. CLABAUGH (B.S., 1940, M.A., 1941), of Spicewood, Texas, is Professor Emeritus (retired) with the Department of Geological Sciences, The University of Texas at Austin. He writes, "I am happy to spend most of my time at the family lake place on the Pedernales arm of Lake Travis, which many former graduate students will remember. Family members, now including four great-grandchildren, visit often. A dozen of them accompanied me to Lake Powell for a week-long houseboat vacation in July 1999. I hope to travel to Australia with oldest daughter and husband in the fall."

UEL S. CLANTON (B.S., 1955, M.S., 1960, Ph.D., 1968) lives in Kerrville, Texas, and writes, "Retired and enjoying it. I am doing a lot of wood turning and a little consulting."

KELTON CLOUD (B.S., 1973) resides in Granbury, Texas, where he is a geological consultant. He writes, "Holding my breath with everybody else in the oil patch that OPEC does not open the 'tap' too much. Our daughter, Kristin, was married in July. Our son, Joel, bought a house in Fort Worth, Texas. Jo Beth and I continue to enjoy 'country' life." His e-mail address is kcloud@itexas.net.

D. B. CLUTTERBUCK (M.A., 1958) is retired in McAllen, Texas. He states, "After 42 years in the energy business, it was time to turn in the keys and spend some time with wife, children, and grandchildren, sniff the flowers, travel, and enjoy the free time."

JOEL COFFMAN (B.S., 1983), e-mail address of jcoyote@innercite.com, lives in Cameron Park, California, with the present job of senior geologist with Tetra Tech EM, Inc., in Rancho Cordova, California, and lets us know, "What a year! The end of the century represents many changes for me. I now am working for a very nice firm and a great group of people at Tetra Tech EMI on Navy projects. I am no longer a slave to the oil companies, and thank goodness, after ten years of playing in that thankless role! Had a business associate run off with a bunch of money from my previous company, and then

the company was the victim of a hostile takeover, but it has all worked out for the best. My daughter and I live alone (Amber is 16 now!) here in beautiful Cameron Park, and life is very good, as are the local Margaritas! My buddy and fellow 1983 grad, Kyle Cockerham, moved out here and lives in the Bay Area, and we actually work on some of the same projects as he is with Uribe and Associates, one of Tetra Tech's main partners on the Navy jobs. He now has three children including a new addition. We are both proud members of the California Registered Geologists Club (who would have thought it from a couple of die-hard Texans). The golf game is improving. I got myself back into good physical shape, am still major friends with the Sacramento Kings, and hope to go to the UT football game out here against Stanford this fall to see the Horns beat up on some California boys! Look me up if you are in the area, 1983 grads!"

RICHARD B. COIT (B.A., 1930), of Dallas, Texas, is retired from Texas Instruments, and writes, "Employed by Texas Instruments (Geophysical Service, Inc.) doing seismic exploration in Texas, Oklahoma, Arkansas, Louisiana, and Alberta, Canada. Retired in 1973."

ANNETTE (PELOQUIN) (B.S., 1991) and **GENE COLGAN** (Attended 1990) write, "The newest Colgan, William Daniel, was born January 2, 2000, weighing 8 pounds, 8 ounces, and was 21 inches long, two inches longer and half a pound heavier than his older brother, Charlie. (Charles Dennis was born on June 29, 1997.) We are all happy and healthy. Annette is staying home with the boys, after four years with Phillips Petroleum Company, while Gene toils away at work. He is with Newfield Exploration now still working Gulf of Mexico, and loving it. If you make it to Houston, Texas, look us up and we'll pop a home-brew and relax on the deck." E-mail address is colgans@houston.rr.com.

H. GRADY COLLIER, JR. (B.S., 1949), an independent consultant writes, "I will formally retire and move to another address this year. My health is not what it used to be prompting the move. When in New Orleans, Louisiana, drop by the office or call at 504-581-7602. I'd love to have you any time for a long visit."

JAMES W. COLLINS (B.S., 1956) is President of Collins Resources, Inc., and reports, "Oil and gas prices are so good that I just drilled a well. Is great as long as it will last."

DEANNA MARIE COMBS (B.S., 1999), e-mail address dcombs@mail.utexas.edu, is a graduate student in the Department of Geological Sciences at UT Austin.

WILLIAM VAN CONOVER III (M.A., 1987), of Houston, Texas, has an e-mail address of wvconover3@msn.com, is President of Laginappe Interests, Inc., and writes, "After many years of working in the oil and gas business I am finally working in southern Louisiana, the area of my UT Master's thesis."

FRANK G. CORNISH (M.A., 1975), a division geologist, lives in Corpus Christi, Texas, has an e-mail address of fcornish@interconnect.net, and writes, "Got married on January 1, 2000 to Diann Howard Newhouse. All kids in college, mine at University of Georgia, hers at UT. Still enjoying reunions at G. Stantons in fall. Still drilling wells at SW Speaks field. Looking for more big ones in Wilcox, Frio, and Vicksburg."

AUGUSTUS S. COTERA, JR. (B.S., 1952, M.A., 1956, Ph.D., 1962), of Avondale, Arizona, is retired from Northern Arizona University, has an e-mail address of ascotera@worldnet.att.net, and writes, "Still doing research and writing on two books, autobiography and historical fiction novel set in 16th century Spain. Going back to Spain this fall for more research on family history, now back to 1575!"

JERRY COVINGTON (B.S., 1943) is an independent geologist in Midland, Texas, and writes, "Greetings to my classmates, those who are still here."

R. WILSON COZBY, JR. (B.S., 1961), a pediatric dentist in Tyler, Texas, informs us, "Still like to read Geological Sciences *Newsletter* about old friends. Am still active and enjoying my practice."

RAYMOND W. COZBY III (B.A., 1983), of Tyler, Texas, is an attorney and trust officer and has an e-mail address of rcozby@regionsbank.com.

FREDERICK E. CRAWFORD (B.S., 1983) is Manager of the Surveying, Mapping, and GIS Department at Lower Colorado River Authority, has an e-mail address of frederick@texas.net or fred.crawford@lcra.org, lives in Buda, and tells us, "All is well in Austin, Texas! Enjoying gardening, hiking, and kayaking, and work allows me to dabble in my other hobby, maps."

STEVEN CREWS (B.S., 1982) resides in The Woodlands, Texas, has an e-mail address of steven_crews@anadarko.com, is a Staff Geologist, and writes, "After nearly ten years at the ARCO Research Lab in Plano, my family and I have moved to Houston, where I am starting a new job with Anadarko. Best wishes to all my classmates!"

JOHN C. CROWELL (B.S., 1939), an Emeritus Professor of Geology at University of California at Santa Barbara, tells us, "I am pleased to see my Geological Society of America memoir on Pre-Mesozoic ice ages finally published. In mid-March, I led

HARRIS P. DARCY (B.S., 1951), an independent in Houston, Texas, writes to inform us, "I hope everyone will visit the Creation Evidences Museum in Glen Rose, Texas, (3102 FM 205). They have the world's first Hyperbaric Biosphere. They can also take any organic material and turn it into coal in two hours. Also, visit the Institute for Creation Research, (10946 Woodside Avenue N, Santes, California 92071)."

MIKE DARR (B.S., 1981), of Albuquerque, New Mexico, e-mail address of mjdarr@nmia.com, and tells us, "An independent hydrogeologist/environmental scientist

published my four-volume *Earth Sciences for Students*, and I received a Distinguished Alumnus Award from North Dallas High School."

JOE DAVIS (Ph.D., 1981), a consultant, lives in Dallas, and has an e-mail address of davisexp@attglobal.net.

LINDA L. DAVIS (Ph.D., 1993), e-mail address of linda.davis@pnl.gov, lives in Richland, Washington, is a postdoctoral research associate with Pacific Northwest National Laboratory, and writes, "Still getting to do fun science with lots of toys in the Lab."

MARY O. DAVIS (B.S., 1948) resides in Tyler, Texas, and tells us, "I am still retired, doing a lot of working in the yard, visiting children and grandchildren, and some other traveling."

WILLIAM H. DAVIS (B.S., 1941) is retired in San Antonio, Texas, and writes, "Retired with macular degeneration."

CARLOS DEERE (B.S., 1950), of Bellville, Texas, is retired and states, "My first screenplay was about a woman under the midnight sun in Sweden. My current one is about a woman geologist under the hot sun of West Texas oil fields. If business doesn't pick up, I'm going to write one about a woman under the influence in a submarine."

FREDERIK E. DEKKER (M.A., 1966), e-mail address fdekker@wt.net, is managing director of Wessex Exploration Limited in Houston, Texas, lives in Katy, and writes, "Have set up Wessex to bid in the UK onshore bid round on a very interesting exploration play. Also, having great fun marketing international oil and gas farm-out projects."

CHARLES J. DELANCEY (B.S., 1940, M.A., 1942) is retired from Exxon in Houston, Texas. He writes, "Living in same house since 1960. Wonder if I can outlast it. Wife, Eleanor (Baylor), keeps me busy. But we have cut down on our extensive foreign travel."

PAUL E. DEVINE (M.A., 1980) and **VICKI VERROSS DEVINE** (M.A., 1980) write that their e-mail address is VVDevine@aol.com and to tell us, "Well, it's been 20 years now, and we thought it time to put something in this *Newsletter*. Paul is with Key Production in Denver, Colorado, and Vicki is consulting when she has time and clients. It's the anniversary of PD's Wingding '80—how about Wingding 2000?"



This T.rex was the creation of Randy Rosenberger (B.S., 1973) on the left, Kelton Cloud (B.S., 1973) on the right, and Jo Beth Van Winkle (Education, 1973) photographer. The Snow.rex was built after a rare wet snow in March 1973 that caused school to be closed. The location is in front of the Geology Building. The detailed work would have made

Dr. Lundelius and Dr. Sprinkle proud. However, it reminds me of "Barney" now. Randy is a medical doctor living in Temple. Kelton is a geological consultant living in Granbury, Texas. Jo Beth is a science teacher and has been married to Kelton for 26 plus years. Photo submitted by Kelton Cloud.

a UT geology group around Ridge basin and the San Andreas fault for a couple of fun field days." E-mail address is crowell@magic.geol.ucsb.edu.

THOMAS M. CULBERTSON (M.A., 1948), retired in San Antonio, Texas, writes us, "Water problems will be solved by scientists not politicians."

CHARLES V. (VAN) CULLAR (B.A., 1958) is a retired President of Western Mining Consultants in Central City, Colorado.

STEVE CUMELLA (B.S., 1977, M.A., 1981), e-mail address scumella@brr.com, is a senior geologist with Barrett Resources and lives in Evergreen, Colorado.

working on pipelines in Mexico and water resources at home. Saludos to all the Geo 660 buds! The phantom rules!!"

W. G. DARSEY III (B.A., 1957) lives in Sugar Land, Texas, is the owner of Oil Exploration Company in Houston, has an e-mail address of bdarsey@alltel.net, and writes, "Enjoying looking for oil and gas with better technology. Working Texas and Louisiana Gulf Coast, soft rocks."

E. JULIUS DASCH (M.A., 1959), a resident of Washington, D.C., has an e-mail address of sj.dasch@hq.nasa.gov, and writes with the news, "I continue to manage the NASA Space Grant and NASA EPSCoR programs at NASA Headquarters. (UT serves as the lead for the Texas Space Grant Consortium.) Since the last *Newsletter*, Macmillan USA

JANE ORMOND DINKINS (B.S., 1938) is retired in Houston, Texas, and still has a ranch at Chapel Hill.

DAVID R. DIPPEL (B.S., 1997) is a geologist with ARCADIS Geraghty and Miller in Austin, Texas, has an e-mail address of ddippel@GMGW.com, and writes, "I'm enjoying the field of environmental consulting very much. I can't believe it's been almost three years since GEO 660. What a crazy six weeks! At least I can look back and smile."

WILLIAM R. (BILL) DIXON (M.A., 1958) is President of Dixon Exploration, Inc., in Dallas, Texas, and writes, "Also President of DXN Associates, an international management consulting firm specializing in business development initiatives in the petroleum sector." E-mail address is bill-dxn@worldnet.att.net.

JOHN D. DOEHRING, JR. (B.S., 1982), is Vice President of Marketing, has an e-mail address of jdoehring@aol.com, and writes, "Have relocated to Charlotte, North Carolina, with Windward Petroleum executive team. Business developing well. Windward is orchestrating a consolidation in petroleum lubricants distribution. Miss Austin, Texas, and UT."

JENNIFER (KRAFT) (M.A., 1984) and **GARY DONNAN** (B.S., 1984) live in Houston, Texas, where Gary is a partner with ERM SW, and Jennifer is at home. Their e-mail address is jkdonnan@pdg.net. They write, "Gary and I had a great year so far. Had dinner with Ann Worrel, Cornelia Henderson, and CeCe Bennig back in January. Then Gary surprised me for my 40th birthday with a big party. He hired Shake Russell and Dana Cooper to play at the party. Awesome!"

GEORGE DONNELLY (B.S., 1940), of Midland, Texas, is "Still learning as much geology as possible." He is a member of the Geology Foundation Advisory Council.

GENE C. DOTY (B.S., 1954) is a retired hydrologist in Las Vegas, Nevada, and writes, "Mopsy, two children, three grandchildren all well. Had pacemaker emplaced last year with no complications except for a strong interest in Energizer Bunny[®] commercials."

MICHAEL L. DOUGLAS (B.S., 1980) lives in Houston, Texas, is a consulting geologist with Texas Crude, and lets us know, "Still out there dreaming of hitting the big one."

Hope 2000 will be the year. It is sure starting out good. Playing golf, drinking beer, and acting like a kid again. Will we see Wild Dick Bob this year?"

LARRY DOYLE (B.S., 1950), from San Antonio, Texas, states, "I am consulting in groundwater and environmental doing business as HydroGeology International. I reward myself for 50 years of practice by doing research in geomorphology. Giovanna and I keep our passports current for our eventual, we hope, return to foreign work."

JOHN DRAKE (B.S., 1974) is a Senior Vice President with EPIC Oil and Gas, Inc., in Irving, Texas.

COLBY DRECHSEL (B.S., 1994) serves as an Exploration/Resource Enhancement Geologist with Smith Ranch Uranium ISL Facility, Rio Algom Mining Corporation in Glenrock, Wyoming, and writes, "I have survived six years without a miss in paychecks as a geologist with a fine B.S. Geology degree from UT. I have survived three winters in Wyoming, mining uranium in-situ and live in Casper with my wife and dog. Before this, I lived in Oregon and prior to that in Texas and traveled extensively."

DANIEL D. DROLL (B.S., 1949), retired in McAllen, Texas, writes, "Recovering from a bout with pneumonia. In the hospital for 30 days. Still walking with oxygen tank. Call it my dog. Hobby is wood carving. Don't even think about work."

PHILIP V. DUGGAN (B.S., 1982) lives in Houston, Texas, is Executive Vice President at INEXS, has an e-mail address of pduggan@inexs.com, and writes, "Repurchased INEXS back in August and went back to work. Needed a new lawn chair anyway."

DAVID E. DUNN (Ph.D., 1964) is Dean Emeritus of The University of Texas at Dallas, lives in Richardson, Texas, has an e-mail address of ddunn@utdallas.edu, and writes, "I'm about 90 percent retired but still teach one course, Geology Refutes Creationism, which is loads of fun. There is plenty of time to work on my handicap, which currently stands at 2.2. Anyone for a game?"

BOBBY G. DUPREE (B.S., 1954) lives in Huntsville, Texas, is retired, has an e-mail address of granbob@lightnetinternet.com, and writes, "Happily settled in Huntsville, Texas. Lerla and I are enjoying our 16

grandchildren who are all within easy travel distance within the state. I'm still very much into prison ministry and church-related work. The only kind of 'rock' I get involved with any more is like the kind found in Luke 6:48. Best wishes to all!"

WILLIAM DURAN (B.S., 1983) lives in Pearland, Texas, is a hydrologist in Houston, and reports, "Still studying groundwater/surface water interaction in the Gulf Coast region. Family is well."

STEVE DWORKIN (Ph.D., 1991), a Professor in the Department of Geosciences at Baylor University, writes, "Unlike my graduate studies at The University of Texas at Austin, where I was on the cutting edge of diagenetic kinematics, my research is now focused on local surface groundwater interactions at my home in China Springs, Texas. I have demonstrated a strong, tripartite, positive correlation between the concentration of coliform bacteria in my spring-fed water supply, catastrophic leaks in my hand-dug septic system, and explosive bouts of diarrhea." E-mail address is Steve-Dworkin@Baylor.edu.

CONNIE MAYES DYER (B.A., 1958), of Houston, Texas, writes, "All is well here. Grandchild count is up to six. Byron and I are enjoying his semi-retirement. I look forward to a trip with Texas-Exes this June. I hope to make it to New Orleans, Louisiana, for AAPG." E-mail address is bdyer@pdg.net.

FRED A. EALAND (B.S., 1948) is retired from Exxon since 1986 and resides in Houston, Texas. He reports, "Both wife Dottie and I are enjoying good health, children, and grandchildren in our golden years."

KATHERINE ECKENROD (B.S., 1980) resides in Austin, Texas, and is a principal geologist.

MARK EIDELBACH (B.S., 1951), from San Antonio, Texas, is the owner of Mark IV Energy and reports an e-mail address of M.Eidelbach@AOL.com.

G. K. EIFLER, JR. (B.A., 1929, M.A., 1930), of Austin, Texas, is retired.

ARTHUR BEVERLY ELLIOTT III (B.S., 1955, M.A., 1958) is enjoying retirement on the coast, is active in genealogical and historical societies, church, library, and community service work primarily through Rotary and Georgia-South Carolina historic

preservation groups. Currently is retired from Mobil Oil Corporation and lives in Hilton Head, South Carolina. E-mail address is artbelliott@hargray.com.

JAMES PAUL (PABLO) ELLIOTT (B.S., 1978), of Houston, Texas, writes, “I have worked as a Geologist/Log Analyst for various companies such as Inexco, Bass, Tenneco, Phillips 66, and now work for Halliburton Energy Services as a Senior Log Analyst, both

nine years ago, I had a hunch about a chemical in gasoline because the properties of the chemical just looked like real trouble for groundwater (high solubility, high mobility, low degradability, and stinky and raunchy tasting). My continuing research and interest in this chemical, Methyl tertiary-butyl ether, or MTBE, got me appointed to an EPA Blue Ribbon Panel to assess the use of oxygenates in gasoline. After six months of hearings and research,

Katie. In my ‘personal’ free time, I read mysteries and make quilts.”

JOE ELO (B.S., 1956) lives in Fort Worth, Texas, is a retired consultant, and tells us, “Enjoy doing nothing but glad oil price has improved. Occasionally, see old UT grads in Fort Worth.”

FRANKLYN R. ENGLER (B.S., 1958), of Harlingen, Texas, is retired and writes, “After spending 35 years working in the Appalachian Basin, I have returned to South Texas. We don’t miss the cold winters at all.”

ROJELIO P. ESPINOSA (B.S., 1985) has an e-mail address of rpe95@aol.com, lives in San Antonio, Texas, is a senior explorationist, and tells us, “Currently employed by EEX Onshore. Branch office is in San Antonio and the main office is in Houston.”

DAVID A. EVANS (B.S., 1988), e-mail address of dlevans@cybrquest.com, lives in Kooskia, Idaho, and writes, “Made the big move to Idaho in October 1999. Got tired of living in a large city (Houston, Texas) with traffic and smog. Work for ATC Associates, Inc., as a senior geologist/project manager. I work out of the home and travel all over the United States assisting our office with their environmental needs. Spend much time with retail petroleum environmental issues. Moved to a five-acre hillside home in the Columbia Plateau—Bitterroot Mountain. Love the country life.”

RIZER EVERETT (B.A., 1937, B.S., 1937) lives in Austin, Texas. He writes to tell us, “Hildegard and I are living in a retirement facility. We enjoyed visits with friends, children, grandchildren, and great-grandchildren who stopped by last year. Please select the good jokes you receive on the Internet and send them to rizere@swbell.net.”

ROBERT H. FAKUNDINY (M.A., 1967, Ph.D. 1970) is the State Geologist in Albany, New York, lives in Rensselaer, New York, has an e-mail address of rfakundi@mail.nysed.gov, and tells us, “As President-Elect of the American Institute of Professional Geologist, I’m looking forward to the presidency next year. But it will be difficult, if not impossible, to follow the likes of Bill Fisher, Past President. The national Geologic Mapping Act has been reauthorized. We’re looking forward to working with Chip Groat and his U.S. Geological Survey gang during the next five years.”



LEFT: PD’s Wingding, 1980, the party in the park Paul held when he turned in his thesis. He had tee shirts printed with “PD’s Wingding ‘80” printed on them and invited the whole fourth floor. Left to right: John Herber, Suzy Elder Gorham, Dave Budd, and Joe Sullivan.

ABOVE: PD’s Wingding, 1980, Another shot from the party in the park Paul held when he turned in his thesis. Left to right: Vicki Verrass Devine, Bob McDermott, Dr. Al Scott, and Paul Devine.

Photos submitted by Paul and Vicki Devine.

domestic and international. I also consulted along the way and had a pretty good time when the booms were on, but watch out for the busts, and this oil business has them. Keep your horns up.” Pablo’s e-mail address is paul.elliott@halliburton.com.

PATRICIA MENCH ELLIS (Ph.D., 1985) lives in Newark, Delaware, with the present job of Senior Hydrologist, State of Delaware, Department of Natural Resources and Environmental Control, Division of Air and Waste Management, Underground Storage Tank Branch in New Castle, Delaware, has an e-mail address of pellis@dnrec.state.de.us, and writes with the news, “I’ve been a hydrologist with the Delaware Underground Storage Tank Program for ten years, during which time I have been responsible for the investigation and remediation at almost 500 leaking UST sites. About

the panel recommended that the use of MTBE in gasoline be significantly reduced. In March 2000, EPA Administrator Carol Browner recommended the elimination of MTBE in gasoline. Now we’ll see which of the many pieces of pending legislation will finally move ahead in Congress. In addition to the Blue Ribbon Panel, I serve on several other EPA workgroups dealing with MTBE issues. I co-edit a quarterly newsletter dealing with MTBE, am involved with MTBE projects with ASTM and ITRC, and manage a caseload of about 100 active LUST (leaking underground storage tank) projects.

“In my ‘free’ time, I share chauffeur-ing duties with my husband, four karate classes/week, two guitar lessons, one voice lesson, assorted lacrosse of field hockey games, and school musical rehearsals, etc. for sixth grader, John, and high school freshman,

GEORGE H. FALK (B.S., 1957) is an independent in Seguin, Texas, with an e-mail address of GeorgeFDF@AOL.com, and writes, "Still living on the lake but spending more and more time at our place in Santa Fe, New Mexico. Getting ready to drill another horizontal well in Central Texas. Hope the prices hold."

JAMES C. FARMER (B.S., 1994) is a geoscience consultant with Landmark Graphics Corporation, e-mail address is jfarmer@lgc.com, and writes, "Presently enjoying life and work here in Jakarta, Indonesia. Stop by on your way to Irian. I'll buy the first Bintang."

DRAKE FASON (B.S., 1989), e-mail address fason@qwestinternet.net, gives us the news, "Kristin and I are enjoying living in Austin, Texas, again after an eight-year absence. We moved back this summer with our two children, Sam (3) and Claire (1), where I have joined Austin Anesthesiology Group. We would enjoy hearing from others from 1989. Tom? Pat?"

IRMA MORGAN FEIBELMAN (B.S., 1959) lives in Canyon Lake, Texas, and is retired. Her e-mail address is jimirma@gvtc.com.

W. M. FELKNOR, JR. (B.A., 1958) has an e-mail address of billf2k@yahoo.com and states, "After 30 years in quality management, I retired in Fort Worth, Texas, and am looking after investments. Gratia and I are enjoying life."

GOLDONI E. FLACK (B.S., 1951) is retired from Manager of Production Geology of Gulf Oil/Chevron and reports, "Moved from New Orleans, Louisiana, to Sun City, Georgetown, Texas. Living the good life with all these retired people."

TED FLANIGAN (M.A., 1980), of Carson City, Nevada, has an e-mail address of Flanigan@intercomm.com.

JORGE A. FLORES (B.A., 1996), a Project Manager/Geologist in Houston, Texas, has an e-mail address of purohorn@netzero.net and writes, "Presently living in Pearland, and have been working at BNC Environmental Services, Inc., since graduating in 1996. I did a lot of traveling during the first two years and enjoyed it. Not married YET, but I know something great is in the making. Donnie Barnes, where the hell are you?"

JOSE A. (TONY) FLORES, JR. (B.S., 1990), lives in Rosenberg, Texas, is a project manager in Houston, and writes, "Enjoying family life and seeing son and daughter growing up. Work is going great, and life is good." E-mail address is tflores@bncenv.com.

CYNTHIA LEE FONG (B.S., 1988) lives in Hilo, Hawaii, and has an e-mail address of clfong@aol.com.

CHARLES M. (CHUCK) FORNEY (B.S., 1947) is a geologist with Forney and Company in Corpus Christi, Texas, has an e-mail address of ChuckForney@SPRYNET.com, and states, "We plan a reunion of the 1947-1948 geology class (the Brady Bunch) in Corpus on the OU-UT weekend in October. Hewitt Fox, Lawrence Hoover, and myself are making arrangements. Have about 50 alumni to attend. Still doing prospects and drilling. South Texas Frio and Vicksburg Zones are looking good."

HEWITT B. FOX (B.A., 1947, B.S., 1948, M.A., 1948) lives in Corpus Christi, Texas, is an independent oil and gas producer, and writes, "I am putting together a very attractive exploratory prospect in Utah and hope to have a well started on it this year. Although I know it will not last, I am enjoying a decent price for oil and gas for a change."

CURTIS C. FRANKS (B.S., 1950) is retired (almost), lives in Boerne, Texas, and writes, "Nothing new here except wrinkles. I continue to be amazed at the technological advances we are witnessing."

WILLIAM (DICK) FRAZELL (M.A., 1935) of Lafayette, Louisiana, is no longer looking for oil and is retired.

TODD FREEMAN (B.S., 1978) is Pastor at Bethany Presbyterian Church, has been an ordained Presbyterian minister for seven years now, pastors an inclusive, multicultural congregation in the Oak Lawn area of Dallas, Texas, and loves it. E-mail address is RevToddF@aol.com.

ANNABELLE BANNAHAN FRIDDLE (B.A., 1945, M.A., 1950), of Aztec, New Mexico, reports, "I have been in New Mexico for 29 years, but I'm still Texan at heart. Still skiing, doing oil and watercolors, and serving on San Juan College Foundation Board."

JACK Q. FRIZZELL (B.S., 1950), President of

Enrich Oil Corporation in Abilene, Texas, with an e-mail address of enrich@bitstreet.com, tells us, "Actively exploring for oil and gas in Utah and Arizona (Precambrian), New Mexico and West Texas (Paleozoic), East Texas (Cretaceous), and South Texas (Cenozoic). Geology 101 all over again. Still involved with family operations. Sons Allan and Lane, wife Pat, son-in-law Bill Wood, and I are having more fun than ever. \$25-oil helps us have fun."

JAMES B. FURRH, JR. (B.A., 1947, B.S., 1950), of Jackson, Mississippi, is the owner of James B. Furrh, Inc., and writes, "Still looking in East Texas, Louisiana, and Mississippi. Hope the good price stays with us."

RIMAS GAIZUTIS (B.S., 1991) writes us, "My wife, Dana, and I recently moved to Lafayette, Louisiana, following a six-month assignment in Bangkok, Thailand. Dana became a 'professional' shopper while I was doing wellsite geology offshore. Two assignments in a row where they speak a funny language, and the food is spicy! Currently, working on a new acquisition at South Timbalier 26." His e-mail address is rgaizutis@unocal.com.

DOUGLAS GALE (B.S., 1997), of Denver, Colorado, is a hydrogeologist with Tetra Tech EM, Inc. E-mail address is galed@ttemi.com.

GERARDO H. (JERRY) GARCIA (B.S., 1982) serves as a consulting hydrogeologist in Houston, Texas, lives in The Woodlands, has an e-mail address of Austinflyr@aol.com or jerrygarcia@associates.pzlqs.com, and states, "Continue working as a ratbert temporary for Search Consultants International, assigned to Pennzoil-Quaker State Company. I hope the G&A axe lops other heads than my own."

CAMERON H. GATES (B.S., 1960, M.A., 1962) is self-employed in Corpus Christi, Texas, and writes, "I think Corpus Christi is the final destination for a while, after four moves in five years."

THURMAN GEDDIE (B.S., 1945), a petroleum geologist in Austin, Texas, has an e-mail address of tggp1@aol.com and states, "Still investing in a few drilling deals. Hope the price of crude stays up for a change."

JOHN GENUISE (M.A., 1991) has an e-mail address of johnjg@airmail.net and lives in Plano, Texas.

JAMES A. GIBBS (Attended 1959 to 1961) is Chairman, Five States Energy Company, L.L.C. in Dallas, Texas. He is a member of the Geology Foundation Advisory Council.

FRED M. GIBSON (B.A., 1951), of Austin, Texas, is still semi-retired and doing statistical work for the Internal Revenue Service.

gation the First United Methodist Church, the oldest in Waco. However, my husband and I are taking 'time out' in October for a Caribbean cruise. Reading the *Newsletter* makes me very proud to have my geology degree from UT. Congratulations to the many faculty, staff, and students who received many honors!" She also reports that she is a community volunteer.

IAN T. GORDON (M.A., 1997) lives in Mountain View, California, and writes, "In March, I resigned from my position as geologist at Texaco Midland and took a job as a Web Producer at ConsumerREVIEW.com in Sunnyvale, California. So far, Silicon Valley has been very good to me. The job is incredibly challenging, the hours are long, but we still find the time for two company-wide mountain bike rides a week. I just competed in a 24-hour mountain bike race in Monterey, and I'm licking my chops for the upcoming snowboarding season. I was lucky enough to score free Sunday tickets to the U.S. Open at Pebble Beach, where I saw Tiger's historic victory firsthand. I am also looking forward to seeing the UT football team at Stanford this September. I would love to hear from any of my UT Geo cronies at ian@ian-gordon.com."

JAMES E. (JIM) GORDON (M.A., 1951), e-mail address of barjpl@icsi.net, is an independent in Wrightsboro, Texas, and informs us, "We had our first great-grandchild this past year. Pat and I spend a lot of time at our stock farm in Gonzales County and enjoy this activity very much."

RONALD L. GRANER (B.A., 1958), of Brentwood, Tennessee, is presently retired, has an e-mail address of rgraner@juno.com or rgraner@NetZero.Net, and tells us, "I retired from my position as geologist with the U.S. Department of Agriculture—Soil Conservation Service (Natural Resource Conservation Service) six years ago. My, how time flies when you are having fun. I am enjoying golfing, travel, yard work, and visiting friends, relatives, and grand children. Don't know how I ever had time to work 40 hours a week and get everything done."

VOLKER C. GRASSO (B.S., 1949) is a retired geologist and writes, "Still in Oklahoma City, Oklahoma. Would like to hear from any old friends."

ROY WILLIAM GRAVES, JR. (Ph.D., 1949), sends greetings to all and is still trying to play golf twice each week, but says the wind does present problems at times. Currently is retired in Desert Hot Springs, California.

ROBERT W. GRAYSON (B.S., 1948), of Austin, Texas, is retired and says he is looking forward to the proposed 1947-1948 reunion in Corpus Christi, Texas. His e-mail address is R.W.Grays@aol.com.



ABOVE: Photo taken in San Antonio at the 1999 AAPG convention. From left to right, front row, are Chris Reed, Bonnie Weise, Carol McDonald Lucas, Leslie Grohe, Ray Pilcher, and Doug Toepperwein; left to right, back row, unidentified person, John Drake, and John Griffiths.

Photo from GEO 320K 1973 in Fredericksburg, Texas. From left to right are C. V. Dickson (PLM), John Drake (B.S., 1974), Chris Reed (B.S., 1974), Leslie Jones (B.S., 1975), Jay Brown (PLM), and Marty Halseth (B.S., 1975). P.S. One or more of these students were responsible for the disappearance of Al Scott's suburban. Photos submitted by John G. Drake.

JERRY R. GIPS (B.S., 1970), a consulting geologist in Houston, Texas, has an e-mail address of jerrygips@aol.com and writes, "Oldest son enrolled at UT. He is the fifth generation on his mother's side to attend The University of Texas at Austin. I told him to go out of state as we might be becoming a little inbred."

PAUL GIRAUDIN (B.S., 1948), e-mail address of pgiraudin@juno.com, is retired in Corpus Christi, Texas, and writes, "At nearly age 80, I continue to do architectural woodwork and specialties in my shop."

GEORGETTE COVO BROWDER (MRS. JOHN E.) GOBLE (B.A., 1944) lives in Waco, Texas. She writes to tell us, "I am very involved with the 150th anniversary celebration of the congre-

LISA (RUSTY) GOETZ-MARKLEY (M.A., 1977), a Senior Geological Explorationist states, "Still with Conoco, Inc., in Houston, Texas, but I changed hats (again). Now working on field acquisition/redevelopment opportunities. The new job has me traveling and has provided the chance to see some really interesting corners of the globe." E-mail address is rustygm@attglobal.net.

TINA R. GONZALEZ (B.A., 1994), of Round Rock, Texas, is Director of Credit for Protect America, Inc.

W. LEONARD GOODE (B.A., 1953) lives in Midland, Texas, and is a consulting geologist.

CHARLES GREENE (B.S., 1975) has an e-mail address of cgreene@TNRCC.state.tx.us, is a geologist with Texas Natural Resource Conservation Commission, and writes, "Working in underground injection control with Class I, III, and V wells. Observing construction, workovers, and plugging operations. Still enjoying the good life in Austin, Texas."

BRYAN GRIFFIN (B.S., 1996), a Project Coordinator with Veritas DGC in Houston, Texas, has an e-mail address of Brygriff81@aol.com and writes, "Finished school four years ago and still learning new things every day. Married now and starting a family in west Houston. Visited an old 660 map site with my granddad, a graduate of geology in 1947."

FRED E. GRINSTEAD (B.S., 1950) is an independent geologist and tells us, "Still living in Tyler, Texas. Still looking for prospects in East Texas. Family doing well. Recently moved two blocks."

DENEICE COLLERAIN GUEST (B.S., 1987), of Greenville, South Carolina, is Director of Research and Development with Precision Agriculture Research and writes to inform us, "Love running my own business. I feel I've finally reached the top. Having a great time with new toys and sea kayaking in Puget Sound and Pacific Rim National Park. Plus, I now have two grand babies. Can you believe it?" E-mail address is DeNeiceCG@aol.com.

ROSEMOND ALLEN HAERTLEIN (B.A., 1947) is retired and writes, "It has been a little over four years since we moved to Fredericksburg, Texas. We enjoy the friendly people here. Jim and I will celebrate our 50th anniversary in May."

BILL F. HALEPESKA (B.S., 1952) is self-employed as a geologist and petroleum engineering consultant in Midland, Texas, and writes, "My beloved spouse and partner of 49 years passed away in September. I am lucky to still be active in work and can stay busy. Expecting our second great-grandchild in May. Expect to travel less and fish more."

CURRY W. HALL (B.A., 1954) is retired in Houston, Texas, and lets us know, "Keeping busy, enjoying life, was back in Austin last fall for Oak Grove Co-Op Reunion. Would like to hear from classmates at e-mail address curryh@juno.com."

WARD L. HALL (B.S., 1950, M.A., 1952), of Oklahoma City, Oklahoma, is an independent petroleum geologist who has made reservations for the 1950 reunion and will see some of you there.

C. CLYDE HAMBLIN (B.S., 1950) is a retired petroleum Landman in Midland, Texas, and writes, "Holding on for the balance of the year to get granddaughter (who we have raised) to adulthood. Survived the oil bust. Best wishes to all old friends."

HENRY HAMMAN (B.S., 1960) is President of Hamman Oil and Refining Company and writes from Houston, Texas, "Maybe this current cycle will get me to the end zone!" E-mail address is HHamman@hammanoil.com.

WELDON W. HAMMOND, JR. (B.A., 1960, M.A., 1969, Ph.D., 1984), e-mail address of whammond@utsa.edu, informs us, "Good news is that I was named the inaugural recipient of the Amy Shelton and V. H. McNutt Distinguished Professorship in Geology at The University of Texas at San Antonio. The other news is that I moved to the Dean of the College of Sciences and Engineering at UTSA."

JOHN H. HANSEN (B.S., 1978) resides in Shreveport, Louisiana, is President of Hansen Oil Corporation, has an e-mail address of hansenoil@aol.com, and writes, "Have been drilling shallow oil wells with difficult sand control—clay migration into gravel pack problems. Is there anyone out there that can help? If so please e-mail me. Thanks."

MARC HARDER (B.S., 1983), e-mail address of mharder627@aol.com, lives in Charlotte, North Carolina, and is a geologist there.

RICHARD L. HARDING (B.A., 1981) is President of Harding Consulting, Inc., and Vice President of Exploration, E V Seis Geophysical Services, Inc. in Graham, Texas, with an e-mail address of thor@wf.net.

ROBERT W. HARE (B.S., 1979) is a geologist with Producers Service Company in Fort Worth, Texas.

LOUIS H. HARING, JR. (B.S., 1938), lives in San Antonio, Texas, is President of Haring Energy Company, and writes, "I closed my office after 50 years and moved to the house. We still participate in a few drilling deals

each year. I continue to travel and enjoy my three grandchildren."

YEMIA TURNAGE HASHIMOTO (B.S., 1995) is a hydrogeologist with GeoSyntec Consultants in Walnut Creek, California.

KEITH HAUN (B.S., 1974), of Houston, Texas, is a senior geologist and states, "I've been working for Duncan Energy/Oil for almost nine years, definitely a record in longevity for me. Paul Hoffman is Vice President of this office, and Bob Lentz is in Denver, Colorado, so we have a good UT concentration on the geological staff."

KAREN HAVHOLM (M.A., 1986, Ph.D., 1991), e-mail address of havholkg@uwec.edu, is an Associate Professor in the Department of Geology at the University of Wisconsin at Eau Claire and states, "Recently tenured and promoted. Spent fall 1999 in the Edinburgh area of Scotland on a West Virginia teaching program. Enjoyed teaching from classic outcrops."

LAURENCE H. HAWES (B.S., 1951) is retired from ARCO and informs us, "I am living in Midland, Texas. Recovery of oil prices in recent months has meant a great deal to those of us in the oil industry. Let us hope for a return to price stability. I very much appreciate the *Newsletter*. Many thanks to the staff."

HUGH HAY-ROE (Ph.D., 1958) is Senior Vice President with BPZ & Associates (consultants) in Houston, Texas, has an e-mail address of hhr@hal-pc.org, lives in Kingwood, Texas, and writes to tell us, "Oil and gas exploration and production in Latin America still ensures consultants never a dull moment. During 1999, concluded as coauthor of a series of five *Oil & Gas Journal* articles on Peru's offshore potential. Also, celebrated arrival of fourth grandchild."

MILES O. HAYES (Ph.D., 1965), Chairman of the Board for Research Planning, Inc., in Columbia, South Carolina, writes, "In February 2000, UT Press published my book, *Black Tides*, an autobiographical account of experiences combating most of the major oil spills on record, *Ixtoc*, *Exxon Valdez*, Gulf War spills, etc." E-mail address is miles@researchplanning.com.

NICK HAZEL (B.A., 1993) informs us, "My wife, Lee, and I are presently working in our passions. I have been designing and making jewelry for a high-end store in

Scottsdale, Arizona, and Lee is painting for the Phoenix art group." He lives in Paradise Valley, and his e-mail address is nicklee@extremezone.com.

LEIPIN HE (M.A., 1996) is a geophysicist in New Orleans, Louisiana, with an e-mail address of leih@Chevron.com.

ARCH H. HEIM (B.S., 1950) is retired and lives in Nelson, Missouri.

JAMES H. HELLAND (Attended 1939 to 1943) is from San Antonio, Texas, is President of Inland Ocean, Inc., has an e-mail address of inland@tx.Freei.net, and writes, "We finally got our wish, \pm \$28 oil, \pm \$3 gas. Now all we have to do is find it."

ALISON HENNING (M.A., 1997), e-mail address alison@henning.com, a geophysicist at Statoil in Houston, Texas, reports, "I am still enjoying the excitement of working in the oil industry after three years. Houston is great and there are many other Texas Exes here."

PETER HENNINGS (Ph.D., 1991) has an e-mail address of phhenni@ppco.com and writes, "In late 1999, Peter resigned from ExxonMobil Corporation to assume the role of Structure and Tectonics Technology Leader for Phillips Petroleum Company in their Bartlesville, Oklahoma, headquarters. But Peter, Celia, and son, Gus, will always be Texans."

LARRY R. HENSARLING (B.S., 1956), of San Antonio, Texas, is the owner of Independent Oil and Gas Corporation in Lafayette, Louisiana. He tells us, "Excellent *Newsletter* coming from the best Geology Department in the United States. Retired from the Geology Foundation Advisory Council after 14 years of service. Still active in exploration in South Louisiana."

REVEREND REID HENSARLING (M.A., 1981) lives in Cordova, Tennessee, where he is Rector of the Church of the Redeemer in Germantown. He writes, "It is very interesting to see the high oil prices (\$30/barrel) in late February. I vividly remember an expanding oil and gas economy in Lafayette, Louisiana, in the early 1980's. I wonder what the future holds? Will there be another oil and gas boom?"

CHARLES W. HENSLEE (B.S., 1951), of Houston, Texas, is retired and tells us,

"Nothing new, golf, travel, bridge, doctors, and eight grandkids, one at A&M and one at Air Force Academy."

JON HERWIG (M.A., 1982), of Kailua, Hawaii, is Vice President of International Operations in Honolulu, has an e-mail address of jcherwig@oees.com, and informs us, "Still involved in management of large Navy environmental cleanup projects in the Pacific and developing business operations in Frankfurt, Germany, and Tokyo, Japan. Interesting, but lots of travel. Aloha to all our UT friends."

CHRISTOPH HEUBECK (M.A., 1988) lives in Calgary, Alberta, has the position of exploration geologist/petrophysicist, Western Canada with Amoco Canada Petroleum Company, and tells us, "After being nearly laid off in the aftermath of the BP Amoco merger, I was transferred from Amoco's Research Center in Tulsa, Oklahoma to Calgary, one of the 'garden spots' of the oil patch. My family and I are once again enjoying mountains, skiing, hiking, and a welcome change from Houston's Gulf Coast climate."

CHARLIE (B.S., 1988, M.A., 1990) and **SUZANNE HEWITT** (B.S., 1989) write, "It has been another busy year in the Hewitt household. Charlie still works in the Marketing and Sales Group at TXU Electric and Gas. He now covers the retail grocery market segment. Suzanne is busy with the two girls, Margaret (4) and Elizabeth (18 months). We did a little traveling this year. We made our annual trip to the Texas Gulf Coast—sun, seafood, and depo dump! In the fall, we packed up the family and took the perfect 'Griswald' vacation to Los Angeles, California. We enjoyed seeing mountains, lava flows, and the Grand Canyon. The girls were more interested in the final destination, Disneyland. We had a great year and are looking forward to another exciting year ahead of us. We love hearing from our old friends, so e-mail us at: suzmeister@juno.com."

JOHN D. HILL (B.S., 1949) of Dallas, Texas, is owner of Hill Energy Company and writes to tell us, "Still looking for oil and gas."

NOLAN HIRSCH (B.S., 1944), an independent in Midland, Texas, writes, "Still keep my hand in exploration. Not originating too much anymore. Take an interest in various projects started years ago."

S. DAVE HIXON (M.A., 1959), e-mail address hixon@hal-pc.org, lives in Friendswood, Texas, is a consultant, is a volunteer at the Guadalupe Mountains National Park, and this is his first visit to this Permian reef.

DAVID S. HOLLAND (B.S., 1957) lives in Houston, Texas. He reports, "Still staying active in the exploration field although retired. Enjoy volunteer work and spending more time at home." Mr. Holland is a member of the Geology Foundation Advisory Council.

WILLIAM C. (BOOMER) HOLLAND (B.S., 1981) is a principal geologist in Missouri City, Texas, who is enjoying the oil business and geology, whose family is healthy and doing fine, and who misses friends from UT.

BEN P. HOOPER (B.S., 1980), of Houston, Texas, is an exploration manager with Joy Resources, Inc., has an e-mail address of JoseyHoop@msn.com, and lets us know, "We are currently generating 3-D prospects in the Texas onshore. Debbie, Mary (13), and Kelly (11) are doing well."

CHARLES J. HOOPER (B.S., 1950) lives in Houston, Texas, and is retired from Dresser Industries. He is a member of the Geology Foundation Advisory Council.

ELEANOR M. (ELLIE) HOOVER (B.S., 1956) lives in Conroe, Texas, is a consultant and Exxon annuitant, and writes, "Continue to take several excursions per year. Also go to all Longhorn home games. Hook 'em Horns!"

COLONEL JON W. HOUSE (B.S., 1957), of Ruidoso, New Mexico, is an oil and gas production owner, with an e-mail address of ColHouse@2iznat.com, and writes, "All of my operators are working and spending to get the most out of the current price of oil."

RICHARD T. (RED) HOUSER (B.A., 1949), semi-retired in Houston, Texas, writes, "Slowing down a bit after 50 years in the oil patch. Been thinking about the good old days under Gus Eifler, Sam Ellison, and others and the tools they provided for a successful career in an exciting profession. A highlight of the journey has been the business associations developed with geology alumni, many of whom are close personal friends. Notes from the Alumni Section in the *Newsletter* keep me posted on their current activities. On a personal note, I was awarded the 1999 Senior Landman of the Year by the Houston Association of Professional Landmen."

G. T. (BILL) HOWARD IV (B.S., 1982) is President of Flare Resources, Inc., in Houston, Texas.

GAVIN HUDGEONS (M.S., 1999) is an environmental consultant with E.R.M. in New Orleans, Louisiana, with an e-mail address of ghudgeons@ermsw.com.

JOHN (M.A., 1992) and **EDNA (YEH) HUELSENBECK** (M.A. 1990), of Rochester, New York, inform us that John is an Assistant Professor in the Biology Department at the University of Rochester. His research interests have shifted from invertebrate paleontology to phylogenetics and experimental molecular evolution. Edna is working part time as a Web site designer and pursuing her musical interests. They have two children: Matt was born in December 1996 and Beth in April 1999. Please feel free to e-mail them at johnh@brahms.biology.rochester.edu or edna@brahms.biology.rochester.edu.

JACK T. HUGHES (B.A., 1941) is an Emeritus Professor of Anthropology, lives in Canyon, Texas, has an e-mail address of 102443.3442@compuserve.com, and writes, "In my day, many geology majors minored in anthropology and vice versa, and some of us became geoarcheologists before the word was invented."

EMMETT A. HUMBLE (M.A., 1951) is retired with an e-mail address of humble@halpe.org in Houston, Texas, and informs us, "Phasing out consulting business but still traveling. Lorine and I will be in North Africa, China, Mongolia, Eastern Siberia, and Uzbekistan this year. We are blessed with a great family: sons, grandsons, and a great-grandson. My compliments on the news from the Department of Geological Sciences and the Exes!"

GARY HUMMEL (M.A., 1982), e-mail address of ghummel@westportog.com, is a geologist in Houston, Texas, and reports, "Our sons Max (7) and Kurt (3) keep Kiki and myself busy."

ELVIN M. HURLBUT, JR. (B.S., 1943) lives in Tyler, Texas, is retired, and writes, "Last time, I said I was going to spend the whole year reducing stuff. Have only learned that the stuff reduces you. Still have one cat, no hobo cats. Virginia and I still functioning. Regards to all."

DANIEL C. HUSTON (M.A., 1987) is an independent geophysicist in Sugar Land, Texas,

with an e-mail address of hunter3d@wt.net. Dan has formed a new corporation called Creekside Exploration to develop and market oil and gas investments. His previous company, Hunter 3-D, Inc., is still going strong with help from wife, Holly.

JIM IMMITT (M.A., 1981), a manager of financial analysis for AMD, has an e-mail address of Jim.Immitt@AMD.com and writes to tell us, "Pam, Adrian, Angela, and I continue to enjoy Austin, Texas. We had a wonderful time traveling during my eight-week sabbatical, a truly rewarding work benefit at AMD. We went to the Yucatan, New York, and New Hampshire and really enjoyed all three. Hello to all!"

DWIGHT A. INGRAM (B.S., 1977), of Golden, Colorado, is a geologist, has an e-mail address of di@dwrightIngram.com, and informs us, "Still looking for oil and gas in the Rocky Mountain Basins. Visit me at www.dwrightIngram.com."

JOE L. JACKSON (B.S., 1956), e-mail address of winifred@netmdc.com, is a retired former regional geologist with Bureau of Reclamation, lives in Alamogordo, New Mexico, and reports, "Still at the 3R ranch with rocks, rabbits, and rattlesnakes. Great fossil collecting at the west side of the Sacramento Mountains."

RUSSELL W. JACKSON (B.S., 1976), a geologist with Tyler Oil and Gas, Inc., in Tyler, Texas, writes, "Wow! We really have a boom going on now. If your business brings you to East Texas, give me a call. Had a great time catching up with UT-Exes at NAPE in Houston." E-mail address is rwjtogi@ballistic.com.

S. LANCE JACKSON (B.S., 1979), of Kingwood, Texas, is an Offshore Director of Exploration with J. M. Huber Corporation in Houston, has an e-mail address of htlxj@huber.com, and tells us, "This industry continues to be a tough business even at \$30 a barrel. We all need to pray for cold winters and hot summers."

JIM JANSSEN (B.S., 1979) lives in Houston, Texas, is a geologist with Walter Oil and Gas, and states, "No big changes from last year. Everything is going well at Walter. Can't help but enjoy these high prices and low costs. Taking the boys to Europe this spring to visit Linda's sister and to tour around a bit. I think they would rather go to Disney World."

KAREN JAROCKI (B.S., 1992, M.A., 1994) is a project geologist/manager in Albuquerque, New Mexico. E-mail address is jarocki@thuntek.net.

KENNETH LEE JARRATT (B.S., 1957) is owner of Jarratt Realty in Edna, Texas, has an e-mail address of jarratt@ycc.com, and is "Still selling real estate, hunting, fishing, and looking at a few cows. Family all fine and all four grandkids growing too fast. Got to hear from Bob Sellers (B.S., 1957). He's in Denver, Colorado."

LES JESKE (B.S., 1984) is a hydrogeologist with ETTL Engineers and Consultants, Inc., has an e-mail address of Thejetskis@aol.com, and informs us, "All is well in Tyler, Texas. The kids Abbey (8), Walker (6), Martha (4), and Ginnie (1^{1/2}) continue to grow and show Wendy and me how much we're unable to keep up with their pace. The positive side of that is it seems to be keeping us young. Environmental business continues to grow with new opportunities every day. Please call me or stop by if ever in East Texas."

ALICE DOMINGUES JOBES (B.A., 1923), of Kerrville, Texas, states "At 97, I would be very surprised if anyone is left to recognize my name, except perhaps a Bybee great-grandchild."

CHARLES B. JOHN (B.S., 1951), a geologist in Tulsa, Oklahoma, with U.S. Bureau of Land Management is, "Still conducting investigations into the frontal and central thrust belts of the Ouachita Mountains of Southeast Oklahoma. Norma and I have been married 53 plus years and in reasonably good health. I thank God for his mercies."

CHARLES G. JOHNSON (B.S., 1983), of Jackson, Mississippi, is a geologist with McGowan Working Partners and tells us, "Still buying and reworking old oil fields. Perhaps at these prices some of these projects will actually pay out." E-mail address is charlieg@aol.com.

L. CHRIS JOHNSON (B.A., 1974, M.A., 1980) lives in Shreveport, Louisiana.

GENE FUNKHOUSER (KEYSER) JONES (B.S., 1948) is retired (sort of) in Midland, Texas, and writes, "Along with other Midlanders, Phil and I are surviving the millennium 'dust bowl' in West Texas and smiling at the sight of a few more rigs lighting up the horizon at night. We're well and busy. Losing some of

our family and friends has made staying in touch even more important. So we try to suit up and show up at friend and family happenings. I look forward to news of friends. You do a great job!”

HAROLD E. JONES (B.S., 1941) is a semi-retired independent geologist in Midland, Texas. He writes, “Enjoying life and doing some traveling from time to time with my wife, Anna Mae. However, the high price of oil (\$27.25/BO) as of 2/17/00 may convince me to get active again as a geological consultant.”

J. PHIL JONES (B.S., 1964), e-mail address of philj@flash.net, is a consultant with Classic Exploration Trades, Inc., in Edmond, Oklahoma, and lets us know, “Currently working a project at Devon Energy in Oklahoma City. The news from Oklahoma is that the improved prices of oil and gas have only recently provided enough encouragement to get the rig count moving upward. Much concern here for the huge demand increase for natural gas and the necessity for capital to drill to meet (on a national level) that demand with supply. Where is it all to come from? Regards.”

EDWIN N. KASPER, JR. (B.S., 1951), from Houston, Texas, states, “Enjoying retirement and good health in the family, and in June 2000, I am hoping to be in Austin for the Ex-Student’s Up-date 2000. RC Aircraft flying and building have taken up a good bit of my time, and it has been fun. Best wishes!”

STEVEN G. KATZ (Ph.D., 1975) is a managing partner with G. Lieberman and Sons, Ltd., and tells us, “I recently left the plastics consulting field, inherited a family business, and am reinventing it as an Internet e-commerce venture. Constance and I continue to enjoy living in Granville, Ohio. Regards to everyone at UT.”

DANIEL N. KEELER (B.S., 1980), a geologist in Midland, Texas, is currently working at EnerQuest Oil and Gas, L.L.C., as a contractor. E-mail address is dnkeeler@apex2000.net.

EDWARD KENNEDY (B.S., 1948, M.A., 1949), a consulting geologist in Midland, Texas, is still involved in the Delaware Basin.

ROBERT F. KENT (B.S., 1952) is retired since 1986 in Bullard, Texas.

shellus.com, and lets us know, “I am consulting throughout Shell in the areas of organizational systems design, building effective teamwork and leadership coaching.”

HOWARD W. KIATTA (B.S., 1958), an independent geologist in Houston, Texas, states, “I am looking for oil and gas along the Texas Gulf Coast, while Ada and I enjoy our 11 grandchildren.”

WILTON KILLAM (B.S., 1949) resides in Lufkin, Texas, is part-time college teaching at Angelina College, is a retired dean, is a rancher, and has an e-mail address of wkillam@lcc.net.

ROBERT J. KILLIAN (B.S., 1977), a geologist with Global Resource Management in downtown Houston, Texas, has an e-mail address of MAVRAH@yahoo.com, and reports, “Working with a financial company and doing geological consulting as well. Recently acquired a workstation and licensed seismic technologies 20/30 pack. Cheers to all.”

DAVID L. KIRCHNER (B.S., 1973) writes with the news, “I am living in Phoenix, Arizona, with my wife, Kathy, and our two sons, Kory (8) and Kody (6). Having founded Basin & Range Hydrogeologists, Inc., in 1987, I am well entrenched in the great Sonoran Desert—providing environmental geological, engineering, and natural resources consulting services. Most of our clients are in the private sector, and most of our projects are located in Arizona. Arizona’s population is growing quite rapidly, and the quality of life is being strained. But I am certain that similar conditions also are present in the Austin Hill Country, so I should not complain. Please send me an email, and let us know how ya’ll are doing: kirchner@basin-and-range.com or David@Kirchner.com.”

DON L. KIRKSEY (B.S., 1960) is a waste management consultant in Oklahoma City, Oklahoma. He writes to tell us, “My wife, B.J., and I are enjoying our three grandchildren, time at the lake in our R.V., and working on a project to offer education to those who would like to enter the waste management consulting business. Give me a call at 405-722-2389 if you are interested in being self-employed in an environmental business. I still reflect on a wonderful career of 30 years in geology.” His e-mail address is kirksey@flash.net.

*Wow! We really have a boom going on now.
If your business brings you to East Texas,
give me a call. Had a great time catching
up with UT-Exes at NAPE in Houston.*

—Russell W. Jackson

WAYNE E. JONES (B.A., 1972) is owner of WESCO and states, “I’m still an independent explorationist working out of Canyon Lake, Texas. Primarily, generated overpressured gas prospects in South Texas. I have full 3-D capabilities here, and am enjoying the opportunities in an upbeat market. My wife, Gwen, is the middle school librarian in New Braunfels, and our son, Alex, is at UT as a sophomore in communications.” His e-mail address is waynej@wesco-online.com, and he lives in New Braunfels.

GEORGE L. KEPRTA (B.S., 1952), of East Bernard, Texas, is retired and writes, “Most of this year will be spent watching our grandchildren participate in scholastic and sport activities. In December, we plan to visit in Nashville, Tennessee.”

DON KERR, JR. (B.S., 1960), lives in Houston, Texas, and is President of Kerr Construction Services.

RALPH S. KERR (M.A., 1976), of Houston, Texas, is an organizational consultant with an e-mail address of rskerr@

RADIM A. KOLARSKY (M.A., 1992) resides in Pearl River, Louisiana, is a chief geophysicist in Metairie, and writes, "Moved from Shell offshore to Watson Energy, Inc., to lead the geophysical effort, drill wells, interpret 3-D's, and generally have fun. E-mail address is rkolarsky@wogc.com."

LIS KONNECKE (M.S., 1997), e-mail address of lkonnecke@hotmail.com, is a field geophysicist with Geco-Prakla/Schlumberger based in Austin, Texas.

JAKE KONS (B.A., 1989), of Reno, Nevada, is an independent filmmaker/producer and tells us, "I shot the movie preview "Cheerleader Tales," which screened before packed houses at the 2000 Sundance Film Festival in Park City, Utah. Now my objective is to shoot the full-length feature film in Texas as soon as the project is financed."

ERWIN K. KRAUSE (B.S., 1949, M.A., 1954) writes, "Retired in Houston, Texas, trying to keep my moving parts moving."

KAREN E. CARTER KROGH (M.A., 1985, Ph.D. 1990), of Apex, North Carolina, is a mother. Her e-mail address is kkrogh@attglobal.net.

LOU W. KRUEWIG (B.A., 1991), a housewife in Marshall, Texas, writes, "Presently I am raising five children, ages 12, 8, 5, 4, and 2^{1/2}, a full-time job. Hopefully, in 2^{1/2} years, I will be able to become active again in geology." E-mail address is kruewig@shreve.net.

J. SCOTT KUYKENDALL (B.A., 1975) is a project manager in San Antonio, Texas.

TED B. LACAFF (B.S., 1950) writes from Santa Fe, New Mexico, "Going first class and spending the kids' inheritance! Really enjoyed hearing (via e-mail) from O'Donohoe and Pichel. There must be some others out there somewhere. If you don't e-mail me, then e-mail the *Newsletter*." E-mail address is tedlatx@aol.com.

GEORGE LAGUROS (M.A., 1987), an advanced geophysicist with Marathon Oil Company in Houston, Texas, lives in Katy and informs us, "We're all doing well. Between school, basketball, and soccer, Michael (10) and Daniel (7) stay busy. Virginia volunteers at the school, is in a book discussion group, and takes

Greek lessons. I'm still with Marathon after 13 years, working deepwater Gulf of Mexico." E-mail address is galaguros@marathonoil.com.

JAMES L. LAMB, JR. (B.S., 1956), e-mail address JLLAMBJR@aol.com, is an oil and gas producer in Austin, Texas.

LEON M. LAMPERT (B.S., 1951, M.A., 1953), a consultant operator in Dallas, Texas, writes, "Still working South Texas and Southeast New Mexico out of Corpus and Dallas offices. Have bought a few oil and gas properties this last year. Two granddaughters in Dallas and two grandsons in Denver, Colorado. Skied in 1999 in Colorado and Utah, but old age has overtaken me with a vengeance. I enjoy reading the alumni magazine. Keep up the good work!!"

CONNIE MARK LANE (B.A., 1999), of Daleville, Alabama, is a Second Lieutenant in the U.S. Army, Aviator. E-mail address is cmlane76@aol.com.

ROBERT K. LATTIMORE (B.S., 1956, M.A., 1962), a retired part-time consultant for geophysical operations of Walnut Creek, California, with an e-mail address of robertlattimore@worldnet.att.net, informs us, "Enjoying our new granddaughter, retirement, and two to three weeks a year working as a consultant, in that order."

THOMAS B. (M.A., 1987) and **ROSA L. LAYMAN** (B.S., 1985) report they are alive and well in Midland, Texas. Tom has an e-mail address of TLayman@BR-inc.com and is a Division Geoscientist with Burlington Resources.

BILL LAYTON (B.S., 1981) is a petroleum geologist, lives in San Antonio, Texas, and writes us, "Exploring for oil and gas along Texas Gulf Coast with Burk Royalty Company. Daughter Jessica is two years away from college, and son Jordan (11) is busy with Little League baseball. Enjoyed seeing UT buddies at NAPE 2000. Still remember the water balloon wars between Phantom Riders and Youth Gang members at 660 camp in 1981. (Boogie till you puke....)"

LOUIS LEE (B.A., 1954, M.A., 1958) resides in Austin, Texas, is a consulting geologist, and writes, "Work continues on 3-D projects in the Texas Gulf Coast. Having a ball getting wells drilled and making discoveries. Hope the oil and gas prices stay up."

DAVID J. LEEDS (B.A., 1939), e-mail address of davidleeds@compuserve.com, is an engineering seismologist in Los Angeles, California.

G. WARREN LEVE (M.A., 1952), of Ponte Vedra, Florida, is retired and tells us, "No work, just golf, fishing, and travel. Very tough life here in Florida. Regards to my 'old' classmates. Hope you are all doing well."

DAVID LEVIN (B.A., 1978) has an e-mail address of adoptez@netxpress.com, is President of Power Petroleum, and lets us know, "Not many oil and gas people left in San Antonio, Texas. Strange for such a nice town. South Texas still an exciting province for E&P. Climbing the 3-D technical ladder challenging. Hello Max in Midland."

WALTER S. LIGHT, JR. (B.S., 1977), is owner and geologist of Thunder Exploration, Inc. in Houston, Texas, has an e-mail address of wthunderx@aol.com, and tells us, "Still working the Wilcox-Yegua-Frio in District 2. Have had an Edwards Project going for a couple of years. Three-D on everything and more 3-D shoots planned."

TUNG-HUNG THOMAS LIN (M.A., 1984), e-mail address of tlin@samson.com, is a senior geophysicist with Samson Resources Company in Tulsa, Oklahoma.

NANCY ELIZABETH (GREEN) LISTER (B.A., 1955) is a housewife in Houston, Texas. She reports, "Ray is still working hard in real estate development. We are all enjoying our new granddaughter born last year. Emily is Jennifer and Gregg's daughter. Ray and I had several nice trips last year. Hello to everyone."

LARRY D. LITTLEFIELD (B.A., 1957) lives in San Ramon, California, has an e-mail address of larrylittlefield@home.com, and writes, "Still living in the San Francisco Bay area. Doing regular consulting work on Calinda."

ERWIN R. (E. R.) LOCHTE, JR. (B.S., 1956), a petroleum geologist from San Antonio, Texas, writes, "Still enjoying a semi-retired life. Spending a considerable amount of time at our Hill Country ranch and doing a lot of praying for rain. Still have plans to pursue some drilling prospects."

ALLEN C. LOCKLIN (B.S., 1954) is an independent exploration geologist in Tyler, Texas. He writes us, "Turned 70, four days before the

year 2000. Where did it all go? In great health. Nancy (Summers) and I have been married 45 years. Great family. Love returning to Austin/UT and reliving four of the most wonderful years of my life. Oldest granddaughter, Lindsey, is at Austin Community College but living the UT life. World is in a moral mess, but young people will have to make it change. You guys, keep up the good work.”

JOHN L. LOFTIS, JR. (B.S., 1940), reports he is retired in Houston, Texas. He is an Honorary Life Member of the Geology Foundation Advisory Council.

LADDIE LONG (B.S., 1952) is retired with an e-mail address of laddielong@aol.com and states, “Life goes on in Midland, Texas, but at a slower pace. Ever notice how much older your friends are getting?”

T. E. (TED) LONGGOOD (B.S., 1958), a former Exxon geologist, lives in Austin, Texas, and states, “Enjoying retirement and living in the Texas Hill Country, attending Austin Geological Society meetings, and seeing some old school pals and work associates from time to time.” E-mail address is longgood@ecpi.com.

E. W. LONGMIRE (B.S., 1950), of Carrollton, Texas, with an e-mail address of Blongtx@aol.com, is retired, enjoying the grandkids, playing golf, and says it’s a good life.

MARK W. LONGTINE (M.A., 1991), of Seattle, Washington, has an e-mail address of mlongtine@ene.com and is a geologist with Ecology and Environment, Inc.

JAMES LUNDY (M.S., 1998), e-mail address of jlundy@wyoming.com, is a design engineer in Sheridan, Wyoming.

BARBARA LUNEAU (M.A., 1984), of Longmont, Colorado, is a principal consultant with Schlumberger Data and Consulting Service in Denver and writes, “Working for Schlumberger Holditch-Reservoir Technologies as a geological consultant. I look forward every year to seeing other UT-exes at AAPG and other events.” E-mail address is bluneau@denver.oilfield.slb.com.

PAM LUTTRELL (B.A., 1973, M.A., 1977) is Vice President of Global Opportunities in Dallas, Texas, has an e-mail address of anahata4@yahoo.com, and tells us, “The

universe has been kind! The severance package offered by the ExxonMobil merger was just too enticing, and I took the leap. I started 2000 by going to India for five weeks, and I’m off to Egypt in March. I love being free and deciding how I spend my time. Hope you folks are as happy.” She is a member of the Geology Foundation Advisory Council.

VANCE M. LYNCH (B.S., 1951), of Liberty Hill, Texas, is a retired Vice President of Unocal Corporation. He tells us, “Still enjoying retirement in the Hill Country near Austin. Living close enough to attend UT athletic events and Geology Foundation Advisory Council meetings, yet far enough away to avoid daily traffic problems.” His e-mail address is vancesarah@aol.com.

BARBARA MAHLER (M.A., 1991, Ph.D., 1997) is a research hydrologist with U.S. Geological Survey in Austin, Texas.

CRISTOPHER MARSHALL (B.S., 1997), e-mail address of crism@iglobal.net, lives in Plano, Texas, is a high school geology/oceanography teacher in The Colony, Texas, and writes, “I’m finishing up my second year of teaching in the Dallas area. Having summers off is great! I was able to meet up with Dr. Helper and 660 in Montana while on vacation last June. I’ve also added coaching soccer to my responsibilities to keep me busy.”

SABIN W. MARSHALL (B.S., 1952) is retired in Houston, Texas, and writes, “We took a trip to Turkey visiting archaeological sites from Istanbul along Black Sea to Van and returned along Mediterranean to Istanbul.”

OWEN MARTIN (B.A., 1990), e-mail address of omartin@NexTecGroup.com, a Resource Manager with NexTec Group, writes us, “Received an M.S. in Environmental Science in 1997. Spent my last Navy tour in Europe during 1998. Currently, working for a consulting company in Houston, Texas. I’m out of the Navy and finally back with my family.”

PAUL A. MARTINEZ (B.S., 1984), of Houston, Texas, is a manager of New Ventures in Latin America with Occidental Oil and Gas. E-mail address is paul-martinez@oxy.com.

MICHAEL J. MATTALINO (B.S., 1981) is a senior geologist with Louis-Dreyfus Natural Gas in Houston, Texas.

ROBERT L. MCBROOM, JR. (B.A., 1951), lives in Wichita Falls, Texas, is a consulting geologist and Adjunct Professor of English at Midwestern State University, e-mail address is macescoba@aol.com, and writes, “Working on prospects in North Texas area and Utah. Hope crude prices stay stable enough and long enough to sell them.”

ROBERT B. MCCARTY (B.S., 1950) is retired from Exxon since 1986, lives in Lakeway, Texas, has an e-mail address of rbmccarty@msn.com, and writes, “Still enjoying good general health while traveling, or playing golf or bridge. Have fond memories of the day of oil exploration and love to visit with fellow geologists from the oil patch.”

MATT LOUIS MCCULLOUGH (M.A., 1990) resides in Houston, Texas, is a geologist with Marathon Oil, and informs us, “I’m either fighting in traffic or still being in over my head in the deepwater Gulf of Mexico.” E-mail address is mlmccullough@marathonoil.com.

KATIE JOE MCDONOUGH (B.S., 1980), of Pine, Colorado, is consulting in geology and geophysics (seismic stratigraphy and sequence stratigraphy) and tells us, “The ‘ordered chaos’ typical of the first 15 years after UT (Exxon geophysicist, Colorado School of Mines grad student, Ph.D., 1997, Elf Aquitaine seismic stratigraphy consultant) has settled down to a ‘second-order chaos’ admiring Pikes Peak granite out of my living room while studying seismic lines stretched out on the Lyons Sandstone countertop while also studying my three sons, Stephen (8), Sean (5^{1/2}), and Evan (3). Whew!” E-mail address is kjmcdonough@prodigy.net.

CYNTHIA C. (M.A., 1981) and **KENNETH O. MCDOWELL** (M.A., 1983) live in Houston, Texas. Kenneth is with Vastar.

RICHARD MCGLATHERY (B.S., 1976), e-mail address of dmccglathery@panr2.com, is Manager of Acquisitions in Oklahoma City, Oklahoma.

BILL JUDSON MCGREW (B.S., 1954, M.A., 1955) is retired in Mena, Arkansas. He reports that his wife, Joan, died on November 22, 1999, of cancer after a five-year fight, and that this is a lonesome place now with just his old dog.

WAYNE EUGENE MCINTOSH (B.S., 1956), an engineering and geology consultant writes, "After 15 years in Rockwall, Texas, we are moving to Albuquerque, New Mexico, where we have three children and a granddaughter living. But for about one year we plan on traveling to see other siblings in our motor home. We hope to have a permanent address soon." E-mail address is wemhuz1@aol.com.

CHARLES MCKEMIE (B.S., 1979), of Griffin, Georgia, works as Global Sales/Service Manager for Dow Automotive in Auburn Hills, Michigan, and writes, "Looking forward to the global challenges with the newly merged Essex and Dow Automotive companies." E-mail address is cemckemie@dow.com.

THOMAS E. MCKENNA (Ph.D., 1997) is a hydrogeologist and writes, "Kim, Jillian, and I are settled in Newark, Delaware, and I have a research position (hard money, yahoo) at the Delaware Geological Survey at the University of Delaware. While it is nice to be back with our families, we do miss all the good times and good friends back in Austin, Texas." E-mail address is mckennat@udel.edu.

W. N. (MAC) MCKINNEY, JR. (B.A., 1960, M.A., 1963), a consulting geologist in Oklahoma City, Oklahoma, has an e-mail address of WMcKinney@mmcable.com and informs us, "The consulting business has slowed down for me in spite of higher prices. I've got a drilling deal that may happen this year. Otherwise, I'm spending more time in the stock market and playing with my new computer. Hope to see many friends in New Orleans, Louisiana."

MIKE MCLEOD (B.S., 1986) lives in Concord, California, is a geologist with Kennedy/Jenks Consultants, and tells us, "Still doing the environmental geology gig. Life is fine, although expensive out here."

JERELD E. MCQUEEN (B.S., 1961, M.A., 1963), of Kingwood, Texas, is a consultant and has an e-mail address of jemc@kingwoodcable.com.

A. D. MCRAE (B.S., 1942) is still enjoying retirement and the Texas Hill Country in Horseshoe Bay, Texas.

LEE I. MEADOR (B.A., 1957) is retired in Anacortes, Washington, and is still enjoying the beautiful Pacific Northwest.

JOE N. MEADOWS (B.A., 1962), of Waco, Texas, with an e-mail address of MeadowsJoe@aol.com reports that he is "Trying to practice just enough law to afford my scuba diving trips. Enjoying grandchildren and watching kids, to my amazement, succeed."

JOHN A. MEANS (M.A., 1948) is retired in Richardson, Texas, and tells us, "Still a lounge chair lizard. Feeling great, still with the Sunniland LS in South Florida. Al Candela, call me at 972-234-0168."

PETER MEGAW (BA., 1976, M.A., 1979), e-mail address of pmegaw@imdex.com, is President of IMDEX, Inc., in Tucson, Arizona, and states, "Mexico and minerals still going strong. Lauren is 6 and a budding mineral collector along with everything else. Happy 25th to the class of 1976."

JOHN MERCK (Ph.D., 1997) writes, "We bought a new house in Arlington, Virginia, and have actually moved in. I have been working at the University of Maryland, College Park, as Assistant Director of College Park Scholars, Earth, Life, and Time. Betty continues to thrive at the Kennedy Center."

CHARLES M. MERRILL (B.S., 1956) writes, "Still enjoying retirement living in far south Austin, Texas, attending Geological Society of America meetings, playing handball at UT, and hiking the trails and mountains of the national and state parks in the Hill Country and West Texas with number two son, all while awaiting arrival of fifth grandchild in early May, courtesy of number one son."

HEIDI MERTIG (M.A., 1995) is an engineering geologist, lives in Spring Creek, Nevada, and writes, "I'm currently working on year two at Barrick Goldstrike Mines, Inc., but my responsibilities have migrated from geologic to geotechnical concerns. Meanwhile, I'm taking classes toward an elementary education certification, something to keep in my back pocket. Otherwise, Spud, Knuckles, and Max are still keeping me in line, as they are high-energy little girls."

MARIO L. MESSINA (B.S., 1959), of Nouomis, Florida, is the Chief Executive Officer of Messina Incorporated in Dallas, with an e-mail address of messinamud@aol.com, and writes, "Spending a portion of our time in Dallas, Texas, Casey Keg (Florida), and London (United Kingdom), involved in oil industry, property development, and community projects."

ANNE SMITH MILLER (B.A., 1983), of Austin, Texas, is a project manager with Texas Natural Resource Conservation Commission and informs us, "Our second son, Forest, joined our family in August of 1999. Our five-year-old and his kindergarten pal have been diligently digging on the school playground during recess with hopes of encountering the earth's core. Watch your favorite science journal for news of any monumental discoveries."

HARRY W. MILLER (B.S., 1950) is retired and writes, "I have lived in Seguin, Texas, the past 20 years. I spend my time fishing, hunting, and playing dominoes. Also, work with a home and commercial development project on land my wife, Chy, and I purchased."

MICHAEL REED MILLER (B.S., 1980) has a present job in the environmental field at City Survey in Austin, Texas, has an e-mail address of Mike@CitySurvey.com, and writes, "Happy New Year/millennium to everyone. GDS 2000? Calling all Department of Geological Sciences scum. Hope to travel down-under later this year to investigate the difference in a 'swirlie' below the equator."

R. DICK MILLER (B.S., 1951) is retired and writes, "Pat and I are still enjoying life in Georgetown, Texas. We travel in our motor home and keep busy in volunteer activities."

WAYNE D. MILLER (M.A., 1957), a consulting geologist in Midland, Texas, reports, "Continuing to stay busy consulting. With the higher oil prices, I may even have some of my prospects drilled (which for a couple of years have been 'back-burnered'). Everyone is doing fine, and I am looking forward to the *Newsletter*."

BILL MONROE (B.S., 1963), e-mail address of bmonroe@jettapc.com, is a senior geologist with Jetta Production Company in Fort Worth, Texas, and lets us know, "Enjoyed watching the Horns compete this year in football and basketball and the class exhibited by The University at College Station in November."

WAYLAND P. MOODY (B.A., 1954) lives in Fort Worth, Texas, and lets us know, "Retirement is still great. Spend most of the summers in Lake City, Colorado. All are welcome to come by anytime. Hook 'em Horns!"

CHARLES GARDLEY MOON (B.S., 1940, M.A., 1942, Ph.D., 1950), retired from Exxon and living in Houston, Texas, tells us, "I presently walk at least one mile per day and am in good physical condition."

MIKE MOORE (B.S., 1980) is Vice President of Esenjay Exploration, Inc., in Corpus Christi, Texas, and writes, "Good year with the drill bit, however, am dealing with some 'heavy' political animals. Good to visit with fellow scum members at Nape 2000. Camped at Paleface Park last week, and I am saddened by all the lights in the hills. My girls are growing like weeds." E-mail address is moiceman@msn.com.

R. MCKAY MOORE (B.A., 1952) is self-employed in Shreveport, Louisiana.

TERRY L. MOORE (B.S., 1980) lives in Sugar Land, Texas. He is a senior geophysical specialist with Phillips Petroleum Company in Houston. His e-mail address is tlmoore@ppco.com. He reports, "I am still exploring Brazil. My wife, Beverly (B.A., 1979 in Sociology), teaches a

derived from our recently acquired 30 shoot, which took over two years of hard work filled with ups and downs."

CHARLES MOTZ (B.S., 1960), retired in New Braunfels, Texas, writes, "A new grandson and great-granddaughter in 1999. The family has been busy, but I've been taking it easy."

MICHAEL F. MURRY (B.S., 1982), a chief geologist with Yuma Petroleum in Houston, Texas, notifies us, "Still generating, marketing, and drilling prospects in the Gulf Coast, primarily southeast Louisiana."

KENNETH E. NEMETH (M.A., 1976), of Houston, Texas, is employed as a senior geoscientist with Schlumberger/GeoQuest and writes, "I found a transfer more suitable than a mid-life career change. I am back in Houston after 8^{1/2} years in Dallas. Things sure have changed. I now support Geophysical Interpretation Products (IESX). I moved from marketing computer services to customer support. There is a whole lot more to managing a computer

BOB R. O'BRIEN (B.S., 1952, M.A., 1956) is a Professor in the Geography Department of the San Diego State University in San Diego, California, has an e-mail address of Bobrien@mail.sdsu.edu, and states, "I'm semi-retired and having fun. Africa and Europe last year. Australia and the Alps this year."

MICHAEL A. OCHOA (B.S., 1985) is in administration with the San Antonio Independent School District and writes to tell us, "Greetings to all! My job is a trip. Everything happens here. Truth is much stranger than fiction. Our children are doing well. All in gifted programs at school. I'm still brewing up micro brews, and they are finally clear! Till next year, cheers!" E-mail address is uramazing@earthlink.net.

JOHN F. O'DONOHUE (B.S., 1950) is President and Chief Executive Officer of Coastline Exploration, Inc, in Houston, Texas.

CHRIS OSBURN (B.A., 1987), President of Global Tech 2000 in Arlington, Texas, lives in Mansfield, Texas, has an e-mail address of sales@globaltech2000.com, and informs us, "We welcomed the arrival of our first child, Ashleigh Ann, this past August. She will undoubtedly become a future Longhorn and hopeful geologist."

PHILIP M. OVIATT (B.A., 1978) lives in Isle of Palms, South Carolina, has an e-mail address of philip.oviatt@centigram.com, and is in communication sales in San Jose, California.

KENNETH I. OWENS (B.A., 1954) is retired in Austin, Texas, and writes, "Still in relatively good health. Enjoy watching UT sports, mainly baseball. (Pitching is much improved at start of season. Ryan France's no-hitter, too.) Next year will be 50 years since I set foot upon the Austin campus."

ROBERT M. OWENS (B.S., 1951), an independent geologist in Cypress, Texas, lets us know, "Enjoying working with other UT geologists—F. B. (Bill) Lacy and R. (Chan) Tysor."

JACK M. PARK (B.S., 1950) lives in Lindale, Texas, and is retired.

ROBERT TIMOTHY PARKS (B.S., 1988), a geologist with Contour Energy in Houston, Texas, writes, "Kids: Meg is 6, Steele is 4. Dogs: Charlie is 10, Lucy is 8. Parents: Mom is still older than dad." E-mail address is Tparks@contourenegy.com.

*While it is nice to be back with our families,
we do miss all the good times and
good friends back in Austin, Texas.*

—Thomas E. McKenna

special ed class for Houston Independent School District. Our son, Cyrus, is participating in Special Olympics. Our daughter, Sarah, is attending Austin Community College and may transfer to Southwest Texas State University. Our daughter, Jessica, is in Health Care in San Antonio and is raising my first granddaughter, Jenna."

JULIAN MORGAN (B.A., 1949) is retired in Houston, Texas.

MICHAEL MORRIS (B.S., 1975), of Fort Worth, Texas, is President of Redwall Mining, has an e-mail address of mmscuba@msn.com, and reports, "I am excited about our multi-well drilling program in St. Martin Parish, Louisiana. The prospects were

exploration system than I had known before. We are trying to revive the new house, unpack the boxes, and watch the daughter grow up much too quickly. If you call on the phone, you may speak with me."

JAMIE NIELSON (Ph.D., 1986), an oil and gas attorney in Austin, Texas, writes us, "My wife, Mary, and I are in our third year of marriage and expect our first child in April. In early 1999, I entered the private practice of law in Austin after almost ten years with the Railroad Commission."

ISAAC W. NORMAN (B.S., 1948), of Taylor, Texas, is retired.

MATTHEW J. PARSLEY (M.A., 1998) is President of Parsley Resources, Inc. in Midland, Texas. E-mail address is mparsley@iglobal.net.

J. F. PATTERSON (B.S., 1952) lives in Bellaire, Texas, and is retired.

FREDERICK J. PEARSON, JR. (M.A., 1962, Ph.D., 1966), lives in New Bern, North Carolina, is employed by Ground-Water Geochemistry, has an e-mail address of FJPearson@attglobal.net, and writes, "We have returned to the United States after four gratifying years in Switzerland. I continue to consult in Ground-Water Geochemistry, principally to groups in the U.S., France, and Switzerland concerned with planning for the underground storage or disposal of radioactive waste."

ROBERT B. PERRY (B.S., 1984), of Elko, Nevada, is currently employed by Newmont Mining Corporation in Carlin, Nevada, has an e-mail address of rbperry@cyberhighway.net, and writes, "Still plugging away in the mining industry."

LOREN PHILLIPS (B.S., 1982), a geologist with the U.S. Army, lives in Bel Air, Maryland, reports an e-mail address of Loren.Phillips@AMEDD.APG.Army.Mil and says, "I am enjoying life in Maryland. Traveling a lot, too much. Son, Adam, is 11. Won grand championship in Pinewood Derby Race. Would like to see comments/articles in *Newsletter* about evolution/creationism controversy the Kansas Board of Education stirred up."

GEORGE B. PICHEL (B.S., 1951), retired in Dana Point, California, with an e-mail address of GPichel2@cs.com writes, "Still sailing and seeing old friends."

WILLIAM R. PICKENS (B.S., 1957, M.A., 1959) lives in Columbus, Texas, and has in the nine years of retirement gone from land reclamation/restoration to representing the county as an alternate to a regional water planning group to chairing a county advisory board to forming a Groundwater Conservation District. E-mail address is gravel@wcnet.net.

JOHN D. PIGOTT (B.S., 1974, M.A., 1977), of Norman, Oklahoma, is an Associate Professor of Geology and Geophysics and writes, "Still an Oklahoma University Professor, still a consultant, recently appointed an advisor to the Prime Minister

of Yemen, and am in the first year of a three-year program to become a Deacon, perhaps, the greatest challenge of my life thus far." E-mail address is jpigott@ou.edu.

JAMES N. PIPER (B.A., 1988) is a Research Scientist in Austin, Texas, last October celebrated 20 great years at the Applied Research Laboratories, and along with Marine Science duties is now the Diving Safety Officer for the Lab. E-mail address is piper@arlut.utexas.edu.

GERALD S. (JERRY) PITTS (B.S., 1954), retired in Midland, Texas, e-mail address of cjpittsA903@cs.com, writes, "Oil prices are attractive enough to generate exploration activity at this time. Hope this holds so we can drill some wells."

PHILLIP PITZER (B.S., 1954), e-mail address of philpita@pccr@Excite.com, lives in Breckenridge, Texas, and tells us, "I am trying to keep up with the Internet and all its fast forward developments. Still having a race between bald and gray with gray in the lead."

NICK POLLARD (B.S., 1984), of Tyler, Texas, has the present job of geologist in Longview, and writes with the news, "I have been working for C W Resources for a year and a half, primarily exploring in East Texas. We have also taken some interest in Gulf Coast deals. Currently drilling a salt dome overhang, my first. Read next year's *Newsletter* to see the results." E-mail address is nick@cwresources.com.

KEITH S. POLLMAN (M.A., 1983), of Gainesville, Florida, is a principal scientist with an e-mail address of kpollman@bellsouth.net and tells us, "After a lot of soul-searching, I decided to move my family to Florida so the kids could be closer to their grandparents. I am still in environmental consulting, operating a one-man office from my home. This allows me to swim every day at lunch time, just like at UT; however, the pool isn't quite as large. Recently took the Florida Professional Geologist exam, which required me to study up quite a bit on carbonates, quite a divergence from my interests of 18 years ago."

JOHN M. POPE (B.S., 1986), a Senior Account Executive with Travelers in Houston, Texas, reports, "I continue to use all the geology I learned at UT in my career with the insurance industry. My daughter has been setting the world on fire in kindergarten! Paula and

I are very pleased. Hello to all my fellow alumni. 'Hook 'Em."

ROBERT B. (BOB) PORTER (M.A., 1951) reports, "Semi-retired from RBP Land Company in Midland, Texas. Renewed inspiration with improved oil prices. Polly, kids, and grandkids are all doing great. Rob Roy, our youngest McDonald grandson, will graduate from UT this year. Polly and I will join the hard-core, die-hard surviving Texas Exes for the Hawaii trip this September. Wish the Longhorns could have joined us, but I understand."

J. THOMAS PORTWOOD (B.S., 1989), of Keller, Texas, has the present job of Southern Region Manager with TIORCO, Inc., in Fort Worth. E-mail address is jtportwood@mindspring.com.

J. DAN POWELL (Ph.D., 1961) lives in Grand Junction, Colorado, is retired (sort of) since 1999, but is staying busy with gas reservoirs, fisheries, projects, and research. Dorothy is well. E-mail address is dandorth@aol.com.

LUKE PRIMROSE (B.S., 1983), of Santa Fe, Texas, has the present position of Commercial Analysis Advisor with Enron Global Exploration and Production in Houston, has the e-mail address of Luke.Primrose@Enron.com, and writes, "Still working the international arena, this time from the business end. Looking for good opportunities that require the expertise (or money) that Enron can provide. Any old acquaintances having such opportunities are invited to drop me a line. Still miss Austin a bit, but at least I'm living in the country now; even run a few head of cattle."

JOSEPH L. (JOE) PRITCHETT (B.A., 1946) is a consulting geologist in Lafayette, Louisiana.

JOHN PROCTOR (B.A., 1950) is retired in New Braunfels, Texas, and writes, "Last September, I visited the Alps again. In addition, I participated in the Oktoberfest. Sitting next to me was a Bavarian who apologized for his inadequate English. However, he made a comment that after two liters of Munich beer, he could speak English, French, Turkish, or any other language."

LEO PUGH (B.S., 1952) is retired in Galena Park, Texas. Leo reports in from Houston, where he is assisting his wife with her flea market operation. He states that the junk

business may be better than the energy business. Sends his regards to all his old friends.

JAMES RAGSDALE (M.A., 1960), of Houston, Texas, reports, "After 16 years with Agip Petroleum, I left the company in August of 1999. I am now doing petroleum geology as a consultant and love it." E-mail address is jar1642@aol.com.

WALTER K. RAINBOLT, JR. (B.A., 1957) is President of Dynamic Exploration, Inc., in Lafayette, Louisiana.

NATHAN RAKESTRAW (B.S., 1980) of Bridgeport, West Virginia, is a senior drilling engineer with CNG Producing Company. His e-mail address is cnrakestraw@citynet.net. He tells us, "Have been in West Virginia for 13 years now. Have been enjoying the outdoors with wife Paula and kids Ryan and Rebecca."

CLYDE M. RASCOE (B.S., 1949) is President of Merit Oil Company in San Angelo, Texas, and states, "Not doing much in the oil business, semi-retired, and still remodeling my old house."

M. ALLEN REAGAN (B.A., 1950) lives in Houston, Texas, is retired, and writes, "Sue Ann and I are still enjoying travel (Egypt last year) and having great times with nine grandchildren. Pleased that the Department is flourishing."

JAMES TROY REID (B.A., 1988), a pilot in Austin, Texas, has an e-mail address of JTReid3421@aol.com.

KEVIN REID (B.S., 1992) writes us, "Thanks for putting together the *Newsletter*. I do enjoy reading about the Department and especially about the alumni. For the last two years, I have been working as an agriculture extensionist and living in Itá Azul (blue rock) Paraguay. I have been helping Paraguayan farm families increase their incomes by teaching crop diversification and soil conservation methods. This spring, I plan to return to the Western United States to work as a natural resource manager. Greetings to the 1992 field campers and old blue. You may e-mail me at Kevin-d-reid@yahoo.com."

JAMES V. RICHARDS (B.S., 1956), of Houston, Texas, with an e-mail address of JR1934@aol.com, writes, "Now that the oil price is up, I am originating several new projects. Continuing as a consultant with

Genesis Producing Company in Houston. Still playing my tenor sax with the Longhorn Alumni Band every year."

GENE RICHARDSON (B.S., 1958), e-mail address of generich7@worldnet.att.net, lives in San Antonio, Texas, and reports, "Retired from IBM and just enjoying Texas, hunting, fishing, collecting fossils and rocks, and visits to Big Bend."

BRIAN RICHTER (B.S., 1978) is President of U.S. Capital Energy, Inc., lives in Littleton, Colorado, and states, "Business is good, and Julie and the kids are great. It's always wonderful to hear from classmates. Please call if you're in the Denver area."

WADE C. RIDLEY (B.S., 1953, M.A., 1955), President of Ridley Oil Corporation in Tyler, Texas, is "Still poking around in my ever smaller niche in the oil business and watching the stock market on the Internet. Seems like all this new technology is finding smaller and smaller prospects." E-mail address is 73065.10@compuserve.com.

JESS ROACH (B.A., 1941) is retired in Austin, Texas, and writes to us, "Age finally catching up with me. Have been in and out of hospital three times recently, none serious. So, I can't complain. Was restricted in activity for seven weeks, but am now back to normal."

EDWIN C. ROBINSON (B.S., 1950) writes that he is still kicking, has six children, 12 grandchildren, and wife, Edith. He lives in Carlsbad, California, and is retired.

RON ROBINSON (B.S., 1958), of El Dorado, Arkansas, is a partner in Robinson-Buchanan Realty and writes, "Carolyn and I attended the reunion of geologists and petroleum engineers (1958 grads) in Houston, Texas, following Christmas. First visit in a long time, and a good time was had by all. Fond memories of UT were relived, and plans made to repeat next year." E-mail address is Ron1s6s@wertv.net.

WILLIAM B. RODAN (B.S., 1942), of Metairie, Louisiana, writes us, "Recently retired for the second time. Fifty-three years of work is enough. My first retirement was from Amoco (BP-Amoco) and now from an independent (Crutcher-Tufts) here in New Orleans."

HARLAN H. (HAL) ROEPKE (Ph.D., 1970), of Muncie, Indiana, is retired after 33 years of teaching petrology, field camp, etc., at

Ball State University, and now says, "Volunteering in international, church, state, and community organizations is keeping me busy, alert, and content. When I get my back fixed in late February 2000, I hope to do more traveling." E-mail address is hroepke@bsu.edu.

SHARON (BRUYERE) ROERICK (B.S., 1994) is teaching geology and biology in Springfield, Missouri, lives in Forsyth, Missouri, and lets us know that, "In 1997, I got married, and now I have a wonderful two-year-old son named Garrett. Teaching high school science has been very fulfilling for me. I miss everyone at UT, and hope all are doing well!!" E-mail address is sroerick@pop.orion.org.

WILLIE J. ROPER (B.S., 1948), of Kingman, Arizona, is retired and reports, "Play golf, cut and polish stones, and nugget hunting in Gold Basin, Arizona."

SALLY ROTHWELL (M.A., 1987) is a project manager with Jacobs Engineering in Anchorage, Alaska, and informs us, "I'm working under contract to ARCO Alaska, Inc., doing environmental permitting and compliance for exploration oil and gas wells on the North Slope. Work two weeks on, two weeks off, a great deal!"

PHILIP ROWELL (Ph.D., 1993) lives in Houston, Texas, is a geophysicist with Marathon Oil Company, has an e-mail address of prowell@marathonoil.com, and writes, "Happy to be still employed in a steadily shrinking oil industry. Battling to keep depositional systems analysis an integral part of prospect evaluation in an 'amplitude/AVO' driven world. A common phenomena these days: fundamentals versus high-tech."

PETER D. ROWLEY (Ph.D., 1968) resides in New Harmony, Utah. He is a geologist in Cedar City, Utah, and informs us, "I continue with the U.S. Geological Survey, working out of an office in the Department of Physical Science, Southern Utah University. My wife and I live nearby in New Harmony, in southwest Utah. Our little ranch of six acres includes five horses, four cats, and a dog!"

MARY DALTON RUCKMAN (M.A., 1938) resides in Karnes City, Texas.

TONY RUNKEL (Ph.D., 1988) resides in Shoreview, Minnesota, is a head stratigrapher, and writes with the news, "My position here at the Minnesota Geological

Survey affords me the opportunity to correct many misconceptions about cratonic sandstones without the fear of ridicule. I am convinced, and have been crusading for the past seven years, that the Saint Peters sandstone is much younger than previously thought. Additionally, the geometry of the sandbody leads me to believe that it was deposited in a fluvial environment rather than marine, as several foolish previous workers have suggested. My fight goes on, although I am finding fewer and fewer people who will listen to my ideas. Everything else goes well. I continue to raise muskrats and now have the largest farm of any of the Great Lake states. I use the hides to make coats and ear muffs. I have developed a Web site to sell these products but have had little success. Regards to all my old friends."

MRS. CHRISTIE MORGAN RUSHING (B.A., 1994), of Imperial Beach, California, is a Naval Aviator at Naval Air Station in North Island in San Diego, with an e-mail address of cmrushing@aol.com, and tells us, "Since graduating in 1994, I've either been in the intelligence or flying career field and was married in June of 1998 to Kent Rushing of Redlands, California."

JIMMIE NORTON RUSSELL (B.A., 1952, M.A., 1954), of Austin, Texas, is an Educational Assistant III with the GOALS Learning Center with Round Rock Independent School District in Round Rock, Texas, and states, "After having retired from 'normal' geological activities, I am continuing with my career in public education. I am currently teaching environmental science, geography, and history to emotionally disturbed middle and high school special education students."

CAROLYN RUTLAND (M.A., 1979) is an environmental engineer with the Department of Public Services in Kalamazoo, Michigan. Her e-mail address is geneand3cs@juno.com. She tells us, "This year at work, I'll start supervising/managing construction of a cap on an old landfill cum Superfund site, ground water monitoring, and technical support in a lawsuit. I'll manage remedial design and a cap on some old sewage lagoons and other stuff. My family is great. My husband spends more time restoring antique guns than doing geology, which is refreshing, in my opinion. My children show no interest in geology. One wants to be a computer scientist and the other an astrophysicist. I am still knitting multi-colored socks and building/

restoring dollhouses. I am looking for a simple knit pullover vest pattern. Last year we planted shrubs in front of the house. This year we may bet gold and go for flowers."

FLOYD SABINS (B.S., 1952), e-mail address of ffsabins@home.com, is President of Remote Sensing Enterprises, Inc., in Fullerton, California, and states, "I am commencing my 25th year as Adjunct Professor at University of California at Los Angeles Earth and Space Science Department. We received a NASA contract to use remote sensing for landslide monitoring and susceptibility in South Carolina. I don't let those activities interfere too much with my fly fishing."

RAUL M. (MIKE) SAENZ (B.A., 1988), of Corpus Christi, Texas, is a certified petroleum geologist with Bahia Exploration Company, and writes, "Recently selected as a Regent for Del Mar College, partly as a result of my work with continuing education and 3-D interpretation classes for our local geological society. Hook 'em Horns!"

MICHAEL A. SALAFIA (B.S., 1978), e-mail address of msalafia@aol.com, lives in Dallas, Texas, and is an independent.

PHILIP K. SAMPLER (B.S., 1951), of Richardson, Texas, is President of Sampler Oil and Gas, Inc., with an e-mail address of psampler@hotmail.com, and writes with the news, "The low oil prices just about put us out of business. We have been on hold for almost three years now. With the upswing, things should start to pick up now. The bad thing is that we had to plug many of our marginal wells when the price was in the \$9.00 to \$10.00 range. If there are any old alumni out there with e-mail addresses in the class of 1951, I would love to hear from you. Hope next year will be better!"

JACK SANDERS (B.S., 1957), e-mail address of jlsanders7@juno.com, is retired in Dallas, Texas, and reports that, "I am enjoying traveling, seeing the seasons change, and just being alive. There is not enough time for all endeavors. I wish y'all well."

KEN SANDS (B.S., 1978) is a geological specialist in Borger, Texas, has an e-mail address of kmsands@PPCo.com, and tells us, "I think we have a new classification of geologists, retreats. Started my career in 1978 with a major and ended up working for an independent. The change has been challenging."

FRANCIS X. SCHLOEDER III (B.S., 1978), of Tulsa, Oklahoma, has an e-mail address of xavthree@aol.com and states, "Making headway exploring the Mid-Continent. Pam promoted to Senior Vice President with Bank of Oklahoma. Two opposite ends of a magnet, a banker and a wildcatter."

GEORGE W. SCHNEIDER (B.S., 1958) is retired in Metairie, Louisiana, and tells us, "I have enjoyed my 21 years serving on the Geology Foundation Advisory Council. I wish them continued success in the 21st century."

LOUIS I. SCHNEIDER, JR. (B.S., 1960), is still working in the industry as Vice President of Edison Chouest Offshore in Houston, Texas, and reports an e-mail address of lisjr@aol.com.

PAUL E. SCHNURR (M.A., 1955), retired in Concord, California, writes with the news, "Grandkids, travel, attending local geologic chapter meetings, and theater are now the important things in our lives. Petroleum exploration is next to dead in California. Still some drilling for gas."

MILT SCHOLL (B.S. 1947, M.A. 1948), of Chula Vista, California, has an e-mail address of mrvscv@aol.com and reports, "Retired now since 1989. Enjoying visiting our four children and their families with seven grandchildren. That takes us to Washington and Oregon frequently. Those close to us here help to keep us younger."

FREDERICK E. SCHULTZ (B.S., 1947) is retired from Exxon since April 1, 1984, and is still enjoying life in Ojai, California.

RUBIN A. SCHULTZ, JR. (B.S., 1961), of Corpus Christi, Texas, is District Maintenance Supervisor for Texas Department of Transportation, with an e-mail address of rubin.schultz@worldnet.att.net, and states, "Last December, I truly joined the ranks of 'Senior Citizens' (turned 62). But still working with TXDOT. Family is well and enjoying grandchildren. Planning our usual May stay on the Island of Maui, Hawaii. Enjoy the *Newsletter*. Keep up the good work."

EUGENE P. SCOTT (B.S., 1957), of Corpus Christi, Texas, is a petroleum geologist consultant and states, "I'm still here. Keeping as busy as I care to be."

JOHN E. SEALE (B.S., 1941) is retired in Houston, Texas, and writes, "No changes, still have an interest in hearing about the oil business."

KENNETH O. SEEWALD (Attended 1961) is President of National Fuel Corporation and informs us, "Greetings from Denver, Colorado! After two very mild winters, Mary and I feel that we moved to Miami instead of Denver! Good for living, bad for natural gas prices! Guess you can't have everything. Sorry we missed AAPG in New Orleans, Louisiana, but we will see you here in Denver next summer."

ROBERT T. SELLARS, JR. (B.A., 1957), lives in Denver, Colorado, is a consultant, has an e-mail address of rtsell@aol.com, and informs us, "Still working in the Rockies and some in Gulf Coast. Enjoy seeing former classmates now and then."

CHARLES R. SEWELL (M.A., 1955), of Tucson, Arizona, writes, "Retired to snug cabin in the hills adjoining Wilderness Saguaro National Park East. Louise lets me roam our 26 acres and adjoining

as past president of Oakbourne Country Club Tennis Association (1976) and past champion of Southern Oilmen's Tennis Tournament (1975). Attended Hubert (Red) Dumesnil's (past president of Guaranty Bank in Lafayette, Louisiana) great retirement party. Also visited long-time friends former Louisiana Oil and Gas Commission staff members now all retired at Baton Rouge. Brought back a flood of memorials regarding successful drilling and unitization at Bayou Sale, Bayou Bullion, Jeananette, Live Oak, etc., Fields. Completed ranch home."

STEPHEN L. SHAW (B.S., 1971, M.A., 1974) is Senior Geological Advisor with Burlington Resources in Midland, Texas. His e-mail address is sshaw@br-inc.com. He writes, "Nancy and I are proud grandparents (our first grandchild) of Rebeckah Lynn Cox, who lives in Palm Desert, California. Needless to say, we travel to California a lot."

STEVE SHELBURNE (B.S., 1985) has the position of branch claims supervisor, has an e-mail address of rcallag@msn.com, and tells us, "Well, I have made it back to

I look back fondly on those not too distant days when I was really a geologist." E-mail address is robert.sherrill@rmtinc.com.

ALAN SHIELD (B.S., 1960) of Georgetown, Texas, has an e-mail address of alanshield@juno.com and writes with the news, "Still looking at a few oil deals but mostly being the gentleman rancher and playing the stock market. Kimberley is still doing daily battle as an accountant in the software industry. Crawford is six years old now and a boon companion. Hopefully, he will be the last of the heirs."

ELGEAN C. SHIELD (B.S., 1953) is President of Shield Development Corporation in Childspring, Texas, and writes to tell us, "Have moved to a hideout in the East Texas woods. Doing consulting geology and working on new prospects. Don't get into Houston, Texas, very much because of high gasoline prices. Praise God for oil prices."

DAVID SHOMETTE (B.S., 1982), a geologist with Hall Houston Oil Company, reports an e-mail address of dshomette@hhoc.com in Houston, Texas.

CHARLES SICKING (Ph.D., 1980), of Plano, Texas, e-mail address of csicking@directlink.net, joined Raytheon in 1999 as Senior Engineer.

BREN SIDEREAS (B.S., 1973), of Rockwall, Texas, has an e-mail address of bsidereas@cohoenergy.com. He is a staff geologist with Coho Energy in Dallas and writes, "Fortunate enough to make it through Coho's 1999 bankruptcy and into the 'new' 2000 downsized Coho. I'm actively working more Mississippi fields now than I have in the past. Entire family (including wife) getting lots of college education. Soon they all can support me."

SAMUEL J. SIMS (M.A., 1957), a consulting geologist in Bethlehem, Pennsylvania, has an e-mail address of s768@aol.com and reports to us, "I continue to do consulting work in the local chemical and commercial stone industry, but have to admit that I'm starting to think about cutting back, maybe next year."

ROBERT SAM SINGER (B.S., 1961) resides in Houston, Texas, is a senior petroleum engineer with Sproule Associates, Inc., has an e-mail address of samsinger@sproule.com, and tells us, "Retired again but rehired again. Now doing consulting full time."

I am commencing my 25th year as Adjunct Professor at University of California at Los Angeles Earth and Space Science Department. We received a NASA contract to use remote sensing for landslide monitoring and susceptibility in South Carolina. I don't let those activities interfere too much with my fly fishing.

— Floyd Sabins

wilderness. She even lets me come back! We seem to be anchored at 11 grandchildren. Maybe this year we will join the 21st century. Our old computer holds us back. But Louise says like me it can be replaced with a new one with bells and whistles! Hello to all the old coyote listeners of old!"

WILLIAM (BILL) SHARP (B.S., 1950) is an investor and petroleum geologist in Dallas, Texas, and writes, "The best is now. Only UT grad to make the recently published 'History of Oakbourne Country Club'

Austin, Texas, my adopted home town. I am still mountain biking, and my girlfriend, Rosemary, and I have just purchased kayaks. We are exploring all the Central Texas waterways. I welcome e-mail from any of my old Geo 660 buddies."

ROBERT SHERRILL (B.S., 1980), of Dripping Springs, Texas, has the present position of Senior Projects Manager, Environmental Liability Reduction and Remediation Leader with RMT, Inc. in Austin, Texas, and writes with the news, "Meetings. . . Travel . . . Meetings . . . Staff Problems."

Saw Bill Rogers (1961) in Houston. He is looking for pictures from our field camp (summer 1961).”

WILLIAM P. SLATER (B.A., 1950), of Canyon Lake, Texas, is an independent and writes to tell us, “If I saw my shadow, does it mean prices will hold? Other than looking for shadow, still looking for oil in West Texas.”

MARRIOTT WIECKHOFF SMART (B.S., 1957) resides in Littleton, Colorado, has an e-mail address of marriott@ix.netcom.com, and lets us know, “Now that both John and I are retired we haven’t been letting the grass grow under our feet. Our spring trip was a three-week adventure in Australia that included a four-day cruise on the Barrier Reef. Awesome! In September, we’ll be traveling to Austria with a couple of days in Munich, Germany, to celebrate Oktoberfest. In the meantime, we will be enjoying our beautiful state. Summers are the best time in Colorado. We’ll also be visiting our daughter’s family in Montana and our daughter in Tulsa, Oklahoma, some this year. We are thankful for good health and wish everyone well.”

TOMMY T. SMILEY (B.S., 1951) lives in San Antonio, Texas, and states, “Enjoying retirement, traveling, and working with taxes during the season.”

BRIAN A. SMITH (Ph.D., 1986), a hydrogeologist with Forensic Environmental Services in Exton, Pennsylvania, lives in Downingtown, and tells us, “I am currently working for a small environmental firm in Southeast Pennsylvania. Much of my work is litigation support for sites around the United States and Caribbean. Sandra and I have two children, a boy and a girl, ages 5 and 3, respectively.”

CHARLES E. SMITH (B.S., 1954) retired in 1998 and lives in Dallas, Texas.

CORBIN SMITH (B.A., 1993), an environmental manager, writes, “My wife, son, and I currently live in Corpus Christi, Texas. I never imagined that I would be working in the environmental branch of an exploration and refining company.”

DANIEL L. SMITH (B.S., 1958), an independent consultant in Houston, Texas, writes us, “I recently retired from Meridian Resource Corporation and am in the process of starting a new business venture. This will be the fourth time in my career. It involves an exploration program in South Louisiana.”

DAVID R. SMITH (B.S., 1980) resides in Houston, Texas, and is an environmental consultant in Nederland, Texas, with an e-mail address of dave116@ix.netcom.com.

HARRY L. SMITH (B.S., 1951, M.A., 1956) is retired in Boerne, Texas, and tells us, “My son and his wife had our third grandchild on March 21, 2000. The daughter had previously had our first two. Wife, Marcelle, as of this date, April 4, 2000, is still in Houston helping them adjust.”

J. T. SMITH (B.S., 1950, M.A., 1956), retired from Sun Oil Company in Fredericksburg, Texas, writes, “In 1999 I got something new, a heart pacemaker-defibrillator. Looks like it works since I made it to the year 2000. It is amazing. Still enjoying retirement in the Texas Hill Country. The current price of a barrel of crude oil delights me except maybe when I pull into a gasoline station to fill up. Have to take the bitter with the sweet.”

PAUL K. SMITH (B.S., 1984) is a fitness trainer and yoga instructor at the Lake Austin Spa Resort. E-mail address is bluegeckoyoga@cs.com.

RICHARD (DICK) SMITH (B.S., 1964), who has an e-mail address of DickSmith@TheITCorporation.com, is Technical Resources Group Manager with EMCON (IT Corporation) in Fort Worth, Texas, lives in Alvarado, Texas, and writes us, “Just keep saying: Drought is a natural process! The landfill business continues to be very active and volatile. Technical and people management keeps me busy, as does Ann.”

ROGER SMITH (B.S., 1984) is with IT Corporation in Coppell, Texas. Roger and his wife, Jennifer, live in Fort Worth with their two children, Claire and Madeleine. Jennifer graduates from medical school in May 2000. His e-mail address is rsmith@theitgroup.com.

TRACI TRAUBA SMITH (B.S., 1985) resides in Lake Jackson, Texas, and is an office administrator for Birdsong Real Estate.

VIRGINIA LANG SMITH (B.A., 1982), Director of Communities in Schools in Ardmore, Oklahoma, resides in Austin, Texas.

FREDERICK C. SMYTH (B.S., 1947) is retired in Dallas, Texas.

STEVE SPEER (M.A., 1983), a general partner in Speerex Ltd. in Roswell, New Mexico,

has an e-mail address of speerex@dfn.com and reports, “Life is very good, and the Lord has seen fit to wonderfully bless our family. Our eldest, Sarah, is off to college this year. (She was brand new when we were in Austin, Texas!!) I don’t feel that old, and Therese swears I don’t act it either. Oh well! Hi to all my friends, and I pray everyone’s priorities are straight.”

FRED D. SPINDLE (B.S., 1949), of Sugar Land, Texas, is retired with an e-mail address of FSpindle@aol.com, and writes to us, “During the past year, I have been taking courses on human anatomy, my own! We have graduated two of the five grandchildren on the college payroll, so gradually whittling this down to chewable size. Betty is near her ‘black belt’ in bridge. I am near to being her model for Mr. Clean.”

BILL SPINDLER (M.A., 1977) is a seismic interpreter with ExxonMobil, lives in Kingwood, Texas, and writes, “The deep-water Gulf of Mexico continues to be an exciting area for oil and gas exploration.”

SCOTT DUNBAR SPRADLIN (M.A., 1980), of New Orleans, Louisiana, has the present job of Geologic Associate with ExxonMobil Corporation, has an e-mail address of spradlin@home.com, and writes with the news, “We thoroughly enjoyed our two-year stint in Yuzhno-Sakhalin, Russia. It was hard to leave many new-found friends. Paula and I moved to the Crescent City in March and I have been updating my 3-D skills. Our drilling schedule has been kicked into second gear so an active year is expected. Hope to see all in New Orleans for the Convention.”

BILL ST. JOHN (B.S., 1958, M.A., 1960, Ph.D., 1965), e-mail address bstjohn@vancoenergy.com, is Manager of New Ventures at Vanco Energy Company in Houston, Texas, and tells us, “Still chasing new ventures in deep water along the Atlantic margins. Gave a paper in Abidjan, Cote d’Ivoire, West Africa, on rejuvenation of transform faults in March. Probably lose my AAPG certification for this one.”

ALLAN STANDEN (M.A., 1987), a senior hydrogeologist with LGB-Guyton Associates in Austin, Texas, reports, “Things are going great in Austin. I have found my niche, the ground-water resources of Texas. Fascinating work, no hazards, occasional travel, and decent pay. My family (Patti, Chelsea, and I) plan to move into our

new house at the end of this year. Howdy, to all my poker buddies. The game still lives and thrives. Send me an e-mail." E-mail address is astanden@lbg-guyton.com.

GEORGE D. STANTON (M.A., 1977), an independent in petroleum exploration, tells us, "Still in Austin, Texas. Glad I don't have to get on I-35 or Mopac. The last half million people have sure jammed up the neighborhood. Just my luck: \$30 oil and, I've got mostly gas."

THEODORE E. STANZEL (B.S., 1956) has an e-mail address of tedstanz@fais.net, is President of Victor Stanzel Company and Stanzel Family Foundation, and reports, "Manufacturing toy flying models of planes, copters, and spacecraft. The Stanzel Model Aircraft Museum exhibits historical aircraft designed and built by Stanzel brothers, Victor and Joe. Visit the Web at airstanzel.com or come tour the Museum in Schulenburg, Texas."

Still in Austin, Texas. Glad I don't have to get on I-35 or Mopac. The last half million people have sure jammed up the neighborhood. Just my luck: \$30 oil, and I've got mostly gas.

—George D. Stanton

FREDERICK L. STEAD (M.A., 1950) is a consultant in Addison, Texas. He reports he sees Bill Stokes frequently and that Bill keeps him up to date on UT events and Department activities. He is still active in natural gas exploration. Betty and he just celebrated their 53rd wedding anniversary.

BURGESS STENGL (B.S., 1985), of Austin, Texas, has an e-mail address of bstengl@tnrcc.state.tx.us. He is with Texas Natural Resource Conservation Commission. He writes, "I was promoted to Team Leader within the Municipal Solid Waste Permits Section last December. I don't have time to do technical work (geology) anymore, but I get to do reviews of other people's reviews of geology. I'm slowly learning how to 'manage' other people, but somehow technical issues are easier to handle.

For the family, Angela is still teaching second grade. Shara has just finished her sophomore year at UT. Susan is going into eighth grade (still in gymnastics), and Kyle will be two years old on August 2. As always, give me a call if in Austin and John Pope, I tried to e-mail last year!!"

BRAD STOKES (B.S., 1987) writes with news for the *Newsletter*, "I have been in Corpus Christi, Texas, for the last two-and-a-half years managing the branch office for RMT, an environmental consulting firm. Melissa and I have two daughters so far, Catherine (4) and Emily (1). When I'm not working or chasing the kids, I race in the local sailboat regattas. I made it back to Durango (Purgatory) this February for the first time since 660 in 1986. Everything sure looks different with snow! I was surprised to find fellow 660 alumnus Bob Korzekwa there, too. Classmates, look me up if you're ever in Corpus or e-mail to brad.stokes@rmtinc.com."

WILLIAM T. STOKES (B.S., 1950) is a member of the Geology Foundation Advisory Council. He lives in Dallas, Texas, and is a retired petroleum geologist. He writes to tell us, "The students at The University of Texas are so fortunate to have such a high-quality faculty."

WINSTON L. (SKIP) STOKES (B.S., 1957) is retired in The Woodlands, Texas, and tells us, "Headed for London, England, in April. Then on to Israel for a trip to the Holy Land. New granddaughter, Allyson Renee, born on January 21, 2000. One is still growing. We are all doing okay."

RICHARD STONEBURNER (B.S., 1976), e-mail address of dstone@3tecenergy.com, is Vice President for Exploration and lives in Kingwood, Texas.

JOHN STOUT (B.A., 1953) is Adjunct Associate Professor of Geology at Colorado School of Mines, lives in Lone Tree, Colorado, has an e-mail address of jstout@mines.edu, and writes, "After 10 years at Lawrence Livermore National Laboratory, California, we have retired back in Colorado and the job I've looked for for 45 years."

MIKE STOWBRIDGE (B.S., 1982) lives in Abilene, Texas, and informs us, "I continue as well-site geologist with Geosite, Inc., out of San Angelo, Texas, and I'm looking forward to some of my prospects being drilled soon. We're all surprised and happy with the turnaround in oil prices."

ROBERT E. STOWERS (B.S., 1961) is an international exploration consultant in Houston, Texas.

CARROLL STROMAN (M.A., 1958), of Sweetwater, Texas, is presently a social worker at the Stroman Family Partnership, with an e-mail address of bcf@bigcountry.net, and writes, "My work continues to be with adults diagnosed as having developmental disabilities. My company provides residential, habilitative, life, and work skill training. Currently, we are expanding into the use of horticultural therapy in treatment of behavioral and attention deficit disorders. Earth science knowledge that I thought I had lost is coming into use. Thank you, Drs. Folk, Clabaugh, Bullard, Ellison, et al."

HAL STUBBLEFIELD (B.A., 1954) is retired in Kingwood, Texas.

GEORGE B. SUTHERLAND (B.S., 1984) is Vice President in Houston, Texas, and has an e-mail address of georges@rotarysteeralde.com.

LINDSAY L. TADE (B.S., 1972), of Houston, Texas, writes, "I am a Gulf Coast Exploration Geologist with Cabot Oil and Gas. Daughter, Lilly, will be at UT this fall. Wife, Lilian, and I celebrate 21 years and three kids, Lilly (18), Lorene (15), and Ryan (13)." E-mail address is lindsay.tade@cabotog.com.

RUSTY TARVER (B.A., 1987), a geologist with R. W. Harden and Associates, tells us, "Working for a ground water consulting outfit in Austin, Texas. Sailing at Lake Travis when I have free time." E-mail address is Rusty@harden-assoc.com.

C. B. (TIM) THAMES, JR. (B.S., 1954, M.A., 1957), is mostly retired in Buchanan Dam, Texas, has an e-mail address of cbthames@tstar.com, and writes, "Enjoying the relative peace and quiet of the Central Mineral Region. Wish I could find some of the road log guide books for the area and check out some locations for interesting minerals. Best to all old friends."

EILENE THEILIG (B.S., 1976), of Pasadena, California, is a Spacecraft and Sequence Team Chief of the Galileo Project with Jet Propulsion Laboratory and writes, "It has been a challenging and exciting two years continuing to fly the Galileo Spacecraft around Jupiter. One of the highlights last year was capturing an image of an active fire fountain at the vent of a volcano on Io, one of Jupiter's moons. The mission has been approved for another extension, and I will continue to manage the engineering team." E-mail address is Eilene.Theilig@jpl.nasa.gov.

GEORGE L. THOMAS (M.A., 1960), who has an e-mail address of elogeo@gvvc.com, writes, "Retired from TXDOT in December 1998 and spent most of 1999 building our new home five miles north of Bergheim. (Bergheim is ten miles east of Boerne, Texas, on TX 46 and FM 3351.) Country living at its best. Come see us."

G. MAC THOMPSON (B.A., 1958), of Austin, Texas, is a petroleum geologist who continues exploration in the Texas and Louisiana Gulf Coast region.

KAREN BERGERON THOMPSON (B.S., 1992), of Helena, Montana, is a stay-at-home mom whose first child, Mariah Noel, was born on December 21, 1999. E-mail address is mtwoman@mt.net.

T. J. THOMPSON (B.S., 1957) is owner of Toro Exploration Company, lives in Rockwall, Texas, and writes, "Doing a great job with the *Newsletter*. It's good to hear about our great tradition in putting out the best. Keep up the good work."

DEBORAH S. TRAVIS (M.A., 1988), an attorney in Corpus Christi, Texas, writes, "**DAN NEUBERGER** (M.A., 1987) and I just had our second son, Roger Travis Neuberger, on November 30, 1999. He joins Ray, now 4^{1/2}." E-mail address is debdanray@aol.com.

EVERETTE TRAVIS (M.A., 1951) writes, "My wife and I still love living in Llano County, always new geology. Fishing in Lake Buchanan is great. Bluebonnets are fantastic again." He lives in Buchanan Dam, Texas, where he is retired.

LLOYD R. TRAVIS, JR. (B.A., 1948), a consultant in Houston, Texas, writes, "Semi-retired in 1999. However, I am still involved in oil and gas exploration along the Texas Gulf Coast. Keep up the good work in bringing everyone up to date on the geologic activity at UT."

ROBERT F. (BOB) TRAVIS (B.A., 1957) is retired in Corpus Christi, Texas, has an e-mail address of Bobpegray@aol.com, and tells us, "No new news. I am fishing, sailing, and taking trips."

JENNIFER WINKLER TRUAX (B.S., 1992), e-mail address cjtruax@flash.net, writes us, "I am currently working at Southwestern Bell Wireless as an Oracle DBA. Chip and I are still living in Rowlett, Texas, with our dogs, Sam and Mollie, and are expecting our first child in August."

ARTHUR J. (ART) TSCHOEPE (B.S., 1951) is "Working and enjoying my wonderful family," and is an independent geologist and oil operator in Leakey, Texas.

JAMES J. (JEFF) TUCKER (B.S., 1948) resides in Jackson, Mississippi, and is retired.

JOHN D. TUOHY (B.S., 1939), of Canyon Lake, Texas, is retired and writes, "No great change. Still enjoying life in the Hill Country and anticipating our annual trip to Ireland in the spring. Enjoy the *Newsletter*."

NEIL L. TURNER (Ph.D., 1970) lives in Fulshear, Texas, is a consulting geologist in petroleum, and writes, "1999 was my third year working on my own on carbonate fields and exploration. Spent some time in northern Europe prior to the Birmingham meeting."

JOHN T. TWINING (B.S., 1948, M.A., 1954) is retired in Houston, Texas, with an e-mail address of pjtwine@aol.com, and writes, "Jeanne and I still hanging in there. She's still playing bridge and reading books, and I'm still doing volunteer work in the Experimental Gardens of the Harris County Agriculture Extension Service."

ROBERT CHAN TYSOR (B.A., 1952) is a consulting geologist with CICO Oil and Gas Company in Houston, Texas, and lives in Sugar Land, Texas.

JAMES R. UNDERWOOD, JR. (M.A., 1956, Ph.D., 1962) is Professor Emeritus of Geology at Kansas State University. His e-mail address is jrujr@flash.net. He notifies us, "Austin, Texas, is an exciting place to live. It has been great fun tracking down old friends and settling into a pleasant life after our move south. Grandparenting is a rewarding experience for Margaret Ann and me, and we are excited about the anticipated increase in the number of little ones from two to four!"

JAMES B. (Ph.D., 1986) and **AMY LAURA WHARTON VANDERHILL** (B.S., 1983) of Bellaire, Texas, report that Amy is a District Geologist with Pogo Producing Company in Houston. Her e-mail address is vanderh@pogoproducing.com. Jim is a Geologist, Regional Coordinator Joint Interest, Gulf of Mexico, with ExxonMobil Production Company in Houston, Texas. His e-mail address is Jim_B_Vanderhill@email.mobil.com. They further tell us, "Another eventful year. Amy is working Eugene Island 330 Field for Pogo and has a big re-mapping challenge in this 30-year-old field. Jim has a new position with ExxonMobil, coordinating and working a variety of outside-operated properties, mostly offshore Gulf of Mexico, including deepwater. Because we now both work in and near downtown Houston, we are moving from our home near Jersey Village to a home in Bellaire. The girls, Ceili (11), Shannon (8.8), and Meagan (6.5) years are doing great in school and keeping us busy (and driving us crazy!)."

HARRY A. VEST (M.A., 1959) is a retired Conoco geologist, lives in Houston, Texas, and writes, "Still coming to Austin to see the Horns beat up on other teams and them beat up on us. It's exciting either way. The OU game at Dallas is probably the best. My three boys (men) are still single. Any tea sips out there with daughters looking for UT grads?" E-mail address is harryvest@aol.com.

R. B. VICKERS, JR. (B.S., 1947), of Abilene, Texas, is retired and writes, "A 60th high school reunion and a 56th wedding anniversary indicate a lot of years and amazing changes behind us. Not much of note to mention here, just trying to keep up and stay healthy." E-mail address is unicorn@bitstreet.com.

J. MAC VILAS (B.S., 1984) works for the Texas Natural Resource Conservation Commission as a Technical Specialist, has an e-mail address of mvilas@tnrcc.state.tx.us, and writes us, "Enjoying my two-year-old daughter. Still enjoying life in Austin, Texas, and will be celebrating my 15th year doing environmental work with the TNRCC. Carla and I hope to do some traveling this year with our daughter, who enjoys pointing out snow-capped mountains to us."

MORDECAI C. (MORTY) VINSON (B.S., 1951), of Rowena, Texas, is retired to the ranch from Vinson Exploration, Inc. and reports, "Life has been good, loved geology, successful enough to be able to purchase my dream ranch on the Concho River."

MARJORIE VOGELSANG (B.A., 1937) is retired in Rosenberg, Texas.

WILLIAM VRANA (B.A., 1939) lives in Corpus Christi, Texas, is a retired petroleum geologist, announces the receipt of a 50-year pin from AAPG recently, and writes, "Still attend local Geological Society luncheons. Always enjoy seeing and chatting with old and new friends. From all indications, the emphasis lately is on the new seismic technology. It will be interesting to see what impact this will have on our long-standing conventional geological culture."

MARTIN JAMES WACHEL, JR. (B.S., 1956), of Laird Hill, Texas, is retired, has an e-mail address of squatty@imagine7;nex, and writes, "Now concentrating on serving on school board. Involved in Christian Service at First Baptist Church in Kilgore, Texas, (Sanctuary Choir, Senior Adult Choir, and Hard Bell Choir). Enjoy *Newsletter* each year."

A. H. (AL) WADSWORTH, JR. (B.S., 1941, M.A., 1941), an independent geologist who lives in Houston, Texas, states, "This is my 59th year as a geologist, and I am still enjoying the work. I do just enough mining consulting now to keep my knees scratched up."

TOMMY WAGGONER (B.A., 1957) tells us that he is retired, that he and his wife have been living back in the Austin, Texas, area (Lake Travis) since 1995, that they love it, and that they enjoy being involved in some University activities.

FRANK (TREY) WAGNER (B.S., 1996) is a geophysicist in Houston, Texas, lives in Austin, and informs us, "Presently in a survey

design/field support position with Western Geophysical. Going back to school in fall 2000 to pursue Ph.D."

SANDRA L. WAISLEY (M.A., 1978) is Associate Chief and Operating Officer at the Office of Civilian Radioactive Waste with the Department of Energy in Washington, D. C. Her e-mail address is Sandra.Waisley@rw.doe.gov. She lives in Alexandria, Virginia.

HERSHEL (HUCK) WALKER (B.S., 1950), of Corpus Christi, Texas, writes, "I enjoy retirement more each year, golfing, fishing, and travel. Visited family in Bakersfield, California, last June. Spent one week in Santa Barbara on wine-tasting excursion, feasting, and enjoying great weather. Still enjoy the *Newsletter*; thanks so much."

JOE DUDGEON WALKER, JR. (B.S., 1951, M.A., 1951) writes from Houston, Texas, "Retired and have just about stopped keeping active in the geological world. Mostly keep active with archeological activities, outdoor sports, fishing, etc., and trying to pass down 'oral' history by magnetic tapes, etc., to my three children and now, ten grandchildren! Keep up the good work on the *Newsletter*."

MARK C. WALKER (B.A., 1981) is a shareholder in the law firm Mounce, Green, and Myers, has an e-mail address of walker@mgmsg.com, and writes, "We are still practicing law in El Paso, Texas, and I am introducing my son to the wonders of exploring local lava flows and mines."

DAVID A. WALLACE (B.S., 1986), of Lakewood, Colorado, works as an EDGE Associate with U.S. West Communications, Inc., in Denver, Colorado. His e-mail address is dawalace@yahoo.com.

J. C. (RUSTY) WALTER III (B.S., 1980), of Houston, Texas, is President of Walter Oil and Gas Corporation. He announces that he got married on August 11 at age 41, and that it was worth the wait!

TONY WALTON (M.A., 1968, Ph.D., 1972) is an Associate Professor of Geology at the University of Kansas in Lawrence, Kansas, has an e-mail address of TWalton@UKans.edu, and writes, "Stepped down after 12 years as Department Chairman to return to teaching and research. Oil at \$30 may change all that. Also, I have a new house."

BERNIE WARD (B.A., 1955) is an independent in Tyler, Texas.

BILL (B.S., 1955, M.A., 1957) and **KATHY WARD** (B.A., 1957) live in Boerne, Texas, where Kathy is a Curriculum Specialist at Our Lady of Lake University and Bill is retired from University of New Orleans. Their e-mail address is wcvkaw@aol.com, and they write, "Kathy continues running NASA-funded program training middle-school teachers in earth and space sciences. Bill is highly involved with the Cibolo Nature Center in Boerne. Also knocking around Lower Cretaceous with Dave Amsbury. We enjoy visiting with other Hill Country UT exes: Les White, Bill Lindemann, Dwight Cassell, James Lee Wilson, and Bill Wilbert."

DANIEL L. WARD (B.A., 1949, M.A., 1950) lives in Grand Junction, Colorado, and is retired.

RALPH H. WARNER (M.A., 1961) is retired and writes, "Still living in Kingwood, Texas, and waiting for the real millennium to begin next year! Best wishes to all old friends. Geology still rules."

KARL WARNING (B.S. 1971, M.A., 1977), of Lucas, Texas, is a Lead Scientific Records Analyst with Pioneer Natural Resources of Irving and reports, "Started new job here at Pioneer in February after five years at Mobil as a contractor. Learning new skills, such as selling proprietary seismic data, along with data management."

BILL D. WATSON (B.S., 1958), retired in Sugar Land, Texas, tells us, "Still enjoying retirement, golf, grandkids, and taking my 25-year 'bride' to Hawaii for spring break. Aloha." E-mail address is dewalt@ev1.net.

JOHN ALLEN WATSON (B.S., 1956) is an associate with Creation Evidence Museum of Glen Rose, Texas, lives in Austin, and writes, "A new book, *Fossil Facts and Fantasies* by Joe Taylor, sets a new standard for creation science authors and publishers. Regarding his scientific background, Mr. Taylor writes, 'When I began working with fossils in 1980, my first duties at the La Brea Tar Pits were to sift the sand under a microscope for bugs, bones, and plants. I was constantly amazed to see that a tiny speck the size of a period, were actually shimmering parts of bugs beautifully sculptured like fine automobiles. . . . Nature's fossil record is amazingly complete. No proof of evolution

here. P. 13' 'A commendation from Italy: I appreciate the thoroughness of your approach and the spirit of good will behind it, as well as the good illustrations. It is interesting to note that your creationist vision does not stem from scientific ignorance and does not defy the scientific study of fossil remains, but it is the expression of a deep faith in the teachings of the Bible. I have a friend, a post-doc professional paleontologist who is the leading Italian expert in dinosaur footprints. He will greatly appreciate receiving a copy of your book.' Cesare Brizio, Catel D'Aniano Bo, Italy."

JOSEPH D. WATZLAVICK (B.S., 1941) tells us that he is retired in Bellaire, Texas, and writes, "Always glad to hear of old associates. Just homebound with the Misses. Thanks, pals, for the memories."

JAMES D. WEBB (B.S., 1952), of Midland Texas, is an independent geologist with an e-mail address of JDWBS@aol.com, and writes, "Business and family life are good. I am enjoying this stage of my career."

GERALD E. WEBER (M.A., 1968), e-mail address of jweber@earthsci.ucsc.edu, resides in Santa Cruz, California, is a consulting geologist and a lecturer at UCSC, and tells us, "Same as last year. Working in court as an expert witness, teaching summer field, rafting rivers, diving the South seas, drinking good beer and wine, and avoiding real work like the plague."

SUZANNE DALLAS WEEDMAN (B.A., 1970) resides in Arlington, Texas, and lets us know, "We've finally settled in the D.C. area. Dan is at NSF. I am a program manager for energy resources at the U.S. Geological Survey. The girls are out on their own now, fully self-supported." E-mail address is sweedman@usgs.gov.

M. ALLAN (B.S., 1984) and **MICHELLE GRIBBIN WEIDMER** (B.S., 1985) report that Allan has a position as Staff Production Geologist. His e-mail address is michael_a_weidmer@email.mobil.com. Michelle's position is Senior Vice President of Client Relations with PetroCompanies. They state that after being with Mobil in New Orleans, Louisiana, since graduate school, Allan was offered a position with the merged ExxonMobil and continues to work the Gulf of Mexico. They now have two children, Mercedes (4) and Max (10 months). They renovated an old house in the Lower Garden District a few years ago and enjoy living in New Orleans. They ask that you look them up if you get

into town: "We would love to hear from fellow Swiss senior field trip alumni. Where are you all? Give us a ring if you get into town. We have plenty of room. Please send our fond regards to Mark Cloos. Appreciate your work in putting this together. Thanks." Michelle is working for a London-based software and database developer serving oil company planners, strategists, consultants, and investment bankers. Her e-mail address is mweidmer@worldnet.att.net.

BONNIE WEISE (B.S., 1974, M.A., 1979), of San Antonio, Texas, is a senior explorationist with Venus Exploration, Inc. E-mail address is bweise@texas.net.

PAUL WELCH (B.S., 1976), a geologist with HP Associates in Dallas, Texas, lives in Richardson, with an e-mail address of pwelch@webcrw.com.

RICHARD O. WHITAKER (B.S., 1950), of Houston, Texas, is retired and enjoying life with travel, golf, and visiting grandchildren.

HUGH G. WHITE III (B.S., 1952) has an e-mail address of colwhite@iglobal.net, lives in Midland, Texas, is retired, and lets us know, "Unfortunately, there seem to be fewer UT alumni to run into. Cestline is still attending Midland College, the finest community college in the United States. Maybe it will eventually be a branch of the University. Regards to Bill Fisher, et al."

LESLIE P. WHITE (B.S., 1956) writes, "Dianne and I continue to enjoy good health and grandkids, Austin, and the hills. We have also enjoyed the Department's outreach program, a great idea. The talks have been excellent. Thirty-dollar oil has made life a little more interesting and the phone a little more active. Hope it doesn't end like the Mesozoic in another extinction event. Thanks again for the wonderful *Newsletter*. It is sorta like a family reunion by mail."

REX H. WHITE, JR. (B.S., 1956, M.A., 1960), is an attorney and Counselor-at-Law, has an e-mail address of rex@rexwhite.com, and reports, "Still practicing oil and gas law. I have my first grandson—what a joy! Both boys are married and off the payroll, sorta! If Les White, Bill Ward, and Jim Underwood read this, call me at 472-7047 in Austin, Texas. I miss, you guys."

STEVE WHITE (B.S., 1978), of Flint, Texas, is a geologist who is still enjoying consulting in Tyler and hoping oil prices stay up.

CHARLES D. WHITEMAN, JR. (B.S., 1958) resides in Denham Springs, Louisiana, and is retired.

FRED L. WHITNEY (B.S., 1943), retired in Kerrville, Texas, writes to tell us, "Still picking up rocks, but they seem heavier and the hills higher."

JAMES C. WHITTEN (B.S., 1956), an independent geologist in Midland, Texas, writes, "I'm still looking for hydrocarbons, but I'm finding more reason not to work hard. It gets in the way of traveling."

MATT WICKHAM (B.S., 1985, M.A., 1991), lives in Victoria and writes, "I am working as a hydrogeologist with MFG, Inc., in Port Lavaca and living in Port O'Connor. I enjoy my work, which is mostly contaminant hydrogeology. I enjoy living on the Texas coast with my wife and eight-year-old son." E-mail address is matt.wickham@mfgenv.com.

MARY ELIZABETH SHELDON WIER (B.A., 1943) is a grandma in San Antonio, Texas. She writes, "Max and I have four grown children and nine grandchildren. I have seen lately Eva and Charles Worrell and Louis Haring. We have just been through the Panama Canal."

BRUCE WIK (B.S., 1988) is a project manager, has an e-mail address of bruce.wik@alumni.utexas.net, and writes, "Working at Operational Technologies Corporation in San Antonio, Texas, doing environmental consulting. Last March 1999, I was married and in April 2000, we are expecting our first child. It has been a busy year."

MICHAEL A. WILEY (B.S., 1957, M.A., 1963, Ph.D., 1970) lives in Carrollton, Texas, is a consultant in Dallas, and reports, "Still developing data management applications for petroleum and environmental industries. Spent wonderful few days in Big Bend area with six old 'Border rats' solving real geologic problems last August. Really 'charged the batteries.'"

ADDISON WILKINSON (B.S., 1956), retired in Lafayette, Louisiana, writes, "I enjoy the *Newsletter* and keeping up with old friends. You do a great job in keeping us up to date on the Department and its activities." E-mail address is baawol@aol.com.

JAMES RICHARD WILLIAMS (B.S., 1950) resides in Bullard, Texas, and informs us, "Ouitau and I are still active but getting

older and having more aches and pains as well as grandchildren. Have completely retired but still playing golf, fishing, and hunting." E-mail address is ouitau@juno.com.

JEFFERSON BOONE WILLIAMS (B.A., 1988), of Los Angeles, California, is a self-employed consultant in Borehole Acoustics and GIS Programmer for Super Sonic Geophysical, has an e-mail address of willgeo@attglobal.net, and states, "I am conducting research in paleoseismology of the Dead Sea in Israel and Jordan."

LARRY E. WILLIAMS (B.S., 1978) lives in Spicewood, Texas, is an oil and gas consultant, has an e-mail address of Larry.Williamslb@GTE.net, and informs us, "Starting my second year of living on Lake Travis. Left my old company of 15 years, Ballard Exploration in Houston, Texas, to start a new career. If you need some oil and gas work done in Austin, look me up."

Dianne and I. . . have also enjoyed the Department's outreach program, a great idea. The talks have been excellent.

—Leslie P. White

ROBERT R. WILLIAMS (B.S., 1954) is a consultant and tells us that he is enjoying life in Dallas, Texas, and Florida and periodic visits with his children and eight grandkids.

JOHN F. WILLIS (B.S., 1995), e-mail address of jfw2112@hotmail.com, is a geophysicist in Houston, Texas.

J. B. WILLMAN (B.S., 1979) lives in Brady, Texas, and is President of Willman Oil and Gas, Inc., in Katy.

JAMES C. WILLRODT (B.S., 1977) is a Senior Operations Supervisor of Drilling with ExxonMobil Development Company in Houston, Texas, and notifies us, "Still

drilling around the globe, presently Algeria. Karen and I are fine, and Erika and Alec are both doing well, too. Best of luck to everyone."

DOUGLAS H. WILSON (B.S., 1980) lives in Spring, Texas, is a Senior Principal Geologist with Vastar Resources, Inc., in Houston, and writes, "I am still working the Deepwater Gulf of Mexico and fighting fires. Becky is busy with Girl Scouts and school, and Rachel is a singing soccer queen." E-mail address is dwilson4@vastar.com.

JENNIFER WILSON (B.S., 1995) is a hydrologist in Austin, Texas, and writes, "I'm still trying to finish my M.S. in the UTDOGS while working full time at the U.S. Geological Survey. My work at the USGS focuses on contaminated sediments in surface waters."

WILLIAM FEATHERGAIL WILSON (B.S., 1960, M.A., 1962) is President of Strata Geological

Services in Bandera, Texas. He writes, "Presently engaged in aquifer definition, pump tests, etc. Working on a cave with '1577' carved at the entrance with UT Archeology Department. Living at Tarpley, Texas, in the heart of the Texas Hill Country." His e-mail address is featherg@hctc.net.

WYNANT S. WILSON (Attended 1953) is President of Wynant S. Wilson, Inc., in Abilene, Texas, who writes, "I have been principally working in shallow counties to the south of Abilene, concentrating a great deal on surface geochemical and electrical exploration for gas and oil."

HUGH WINKLER (M.A., 1992) has an e-mail address of hugh-w@swbell.net, is a Software Architect with MSHOW-Com, and writes, "I gave up oil and gas software development for a day job at this little startup here in Austin, Texas. Now I can afford to send the Geology Foundation a little something."

IRWIN T. WINTER (B.S., 1953), of Fort Worth, Texas, is retired and writes, "Thanks for all you do in keeping the alumni in touch and informed through the years."

KURT WISEMAN (B.S., 1976) is self-employed in Houston, Texas, has an e-mail address of kurtwisemanhoustontx@worldnet.att.net, and informs us, "After finding many commercial oil and gas fields, I am now trying to find drinking water in Central America for impoverished natives. When not drilling oil and gas or water wells, Betty, Heather, Lisa, and I spend as much time as possible at our ranch."

MEGAN MCCRARY WISERSKY (M.A., 1985), of Stoughton, Wisconsin, is a Senior Analyst with Madison Gas and Electric Company in Madison, Wisconsin. E-mail address is wisersky@excite.com.

EDWARD R. WOLCOTT (B.S., 1946) is President of EDCO Petroleum in Dallas, Texas, and writes, "Drilling for oil in West Texas, finding some, investors welcome. Married for 53 years. Both sons working with me. Four grandchildren with good grades. Loving soccer, football, and hunting."

HERBERT A. WOLFF (B.S., 1960) is retired from Texas Water Commission since 1992. He tells us, "My wife, Pat, and I are enjoying retirement east of Round Rock, Texas. However, we are not enjoying the tremendous population and transportation growth in this area. Son, David, married in June 1999."

AMY WOOD (B.S., 1985) is a programmer with Oracle Web Development in Austin, Texas. E-mail address is woodshaw@austin.rr.com.

ROBERT L. WOOD, JR. (B.A., 1956), is a consultant in Houston, Texas.

ARNOLD WOODS (M.A., 1981), of Casper, Wyoming, has the present job of consulting geologist, has an e-mail address of arnold@caspers.net, and writes with the news, "Actually taught a course this semester at the local college, Petroleum Geology. Now I know why instructors were always

complaining about their pay! But the work was fun, and the students enjoyed the class. Over half contacted me after the class was over, asking what I would be teaching this term! In addition to odd-and-end consulting work, I'm working at the Paleon Museum in Glenrock, Wyoming. We're busily excavating all sorts of Late Cretaceous beasts (dinosaurs, marine reptiles, and small mammals). Have already brought out enough material to keep us busy cleaning in the lab for the next ten years, but we'll be out there this summer again. We are gearing up for the summer dig program. We graciously 'allow' vacationers to pay us to come for a week and help us dig bones and prep them, with afternoon lectures on all sorts of topics. The Paleon staff and I are working on several papers, including one on what may be the only known North American trackway of a juvenile *T. rex*, and we just found our second *Torosaurus*, a rare ceratopsian, not to mention the sites that we haven't even started to look at. Never thought I'd be doing anything in vertebrate paleo, or I would have taken some of Lundelius' classes. Hello to everyone from the class of 1981. E-mail me if you like."

the continuing exploration and development of offshore Alabama gas. We continue to lose clients via mergers. Where once there were three, there now is ExxonMobil."

CHARLES J. WORREL (B.S., 1951) is President of Worrel Exploration, Inc., in San Antonio, Texas, has an e-mail address of cjworrel@att.net, and states, "To all my classmates, a very hearty hello. Please give me a call if you are in town. Looking forward to seeing all of you."

DAVID A. WORTHINGTON (B.A., 1986) lives in Costa Mesa, California, where he has an e-mail address of Worthy10@aol.com. He tells us, "All is golden here in Southern California. Enjoying life with my beautiful bride. Racing bicycles competitively like a carefree teenager. Oh yeah! After working 14 years for a consulting firm, I formed my own business, EGA Consultants (Environmental Geotechnical Applications). My education at UT has served me well. Ya'll come to the downtown criterium in Austin, Texas, in May. Say Hi to Lance and me (I race for Team Labor Power, www.mesothel.com."

us, "In April 1946 after World War II, I returned to Humble as a geologist in West Texas. In December 1951, I resigned from Humble to become an independent oil and gas operator and advisor for King Ranch. In 1978, I was elected Vice President and Director responsible for oil and gas operations at King Ranch. In 1980, I established King Ranch Oil and Gas, Inc., as President and Chairman of the Board of Directors. On January 5, 1988, I retired from all positions. Presently, I am doing independent oil and gas and investments."

ANTHONY (TONY) YATES (B.S., 1988), an environmental consultant in Kingwood, Texas, has an e-mail address of TYates@craservices.com and tells us, "Passing MCSE exams is current career goal."

JOHN C. YEAGER (M.A., 1960), of Lafayette, Louisiana, is an independent geologist.

SUSAN WYGANT YOUNG (M.A., 1985) is a geologist and writes to tell us, "We moved to Houston, Texas, in June 1999. Still with Conoco, Inc."

WILLIAM C. YOUNG III (B.A., 1961), retired in Hemphill, Texas, has an e-mail address of WCY3@sabinenet.com and writes: "Same-ol', same-ol', fishing, golf, bridge, and travel."

FRANCIS SCOTT ZIMMER (B.S., 1986), e-mail address of fsz@dreamscope.com, lives in Vernon, New York, and informs us, "Hi, eo buddies! Life is going great. I now work as a Public Health Sanitarian for Oneida County Health Department in Utica, New York, and I love it. Hope everyone is well. And yes, I did work Woodstock 99!"

ROBERT L. ZINN (B.S., 1952, M.A., 1953) is owner of Zinn Petroleum Company, lives in Houston, Texas, and writes, "I am still actively exploring but hope to cut back to half time by the end of 2000. My wife, Edith, says she will believe it when she sees it." E-mail address is r/zinn@wt.net.

KEVIN ZONANA (B.S., 1982), of Austin, Texas, is a Senior Geologic Training Specialist, has an e-mail address of KZonana@Lgc.com, and writes, "I'm still with Landmark Graphics, 13 years now."



To all my classmates, a very hearty hello.

Please give me a call if you are in town.

Looking forward to seeing all of you. —Charles J. Worrel

LE ROY A. WOOLLETT (M.A., 1951) is an insurance underwriter and reports, "The years I worked as a geologist are my favorite. Son and wife live here in Houston, Texas. Daughter is Director, Commissary of Embassy, Moscow, Russia."

THOMAS J. WORBINGTON (B.S., 1951) is retired in Temple, Texas, and informs us, "All is well with us. We will skip our usual trip to Florida this year and go west by way of Big Bend. In May, we will have a small Superior Oil of Venezuela reunion, and I am looking forward to that since I was Chief Geologist there many years ago. Thanks for the *Newsletter*. It is first class, as always."

WILLIAM E. WORKMAN (Ph.D., 1968), e-mail address of drroc@gulftel.com, lives in Lillian, Alabama, is a consulting environmental geologist, and notifies us, "Our daughter, Sara, will join me this year in doing wetland delineations and working COE permits for

JOHN B. WRIGHT (M.A., 1956), a retired geologist in New Orleans, Louisiana, is working hard to get the Democrats out of The White House and Congress.

LORI WROTENBERY (B.S., 1980) is Director of the Oil Conservation Division with Energy, Minerals, and Natural Resources Department in Santa Fe, New Mexico.

PHIL WYCHE (B.S., 1951), retired from Gulf Oil Corporation in Austin, Texas, is a member of the Geology Foundation Advisory Council.

BOB WYNNE (B.A., 1957) is an independent in Fort Worth, Texas, and states that he is "Staying busy doing all the things I never had time to do before. Still looking for good prospects."

WILLIAM BLAKE (DUB) YARBOROUGH (B.S., 1940), of Midland, Texas, is an independent oil and gas producer and writes to tell



We need your help...

The faculty, staff, and students appreciate your continued interest in the Department of Geological Sciences and the Geology Foundation. We are pleased with the enthusiastic response to our request for information to be included in the Alumni Notes section.

We strive to keep your current address on our mailing list and solicit your cooperation in advising us if you move. If you know of other alumni who do not receive our letters, please send their names and addresses. We would like to add them to our files.

You have made the Geology Foundation the most important in the Nation, but we still need your financial assistance in many areas—scholarships for worthy students, teaching, and research equipment, costs of publishing the *Newsletter*, unrestricted support for the operation of the Geology Foundation, and library needs.

Contributions to the Geology Foundation may be made in the form of cash, stocks, bonds, life insurance, gift annuities, and tangible property such as real estate. Many major corporations provide matching funds for contributions made by employees and their spouses. The Foundation staff can assist in the arrangement of the match.

For assistance or information, you may contact Mary Koch at (512) 471-6048 or e-mail at mekoch@mail.utexas.edu or Bill Fisher at (512) 471-5600 or e-mail at wfisher@mail.utexas.edu. You may also visit us at our two Web sites, the Department of Geological Sciences at <http://www.geo.utexas.edu> or the Geology Foundation at <http://www.geo.utexas.edu/foundation/>. The Geology Foundation's mailing address is P.O. Box B, Austin, TX 78713-8902.

THIS PAGE:

METAMORPHIC ROCKS, SOUTH OF SWAKOPMUND, NAMIBIA, SHOWING SCHISTS, GUESS, AND DIABASE. COURTESY OF THOMAS D. BARROW.