

2002 NEWSLETTER

The Jackson Vision



**The University of Texas at Austin
Department of Geological Sciences
Geology Foundation
John A. and Katherine G. Jackson School of Geosciences**

The Jackson Bequest: An Event without Precedent

On March 2, 2002, President Larry Faulkner announced the largest monetary gift ever made to a single public university in the nation. Honorary Life Member of the Geology Foundation Advisory Council, Mr. John A. Jackson, on behalf of himself and his late wife Katherine, indicated his intent to commit the residue of his estate to the Geology Foundation of The University of Texas at Austin. In his letter to Dr. Faulkner, Mr. Jackson indicated that the current value of the estate residue is between \$150 million and \$200 million. Elsewhere in this *Newsletter*, Mr. Jackson states his belief that the residue of the estate could reach \$300 million. Mr. Jackson's bequest and recent gifts add to Geology Foundation assets with a current market value of about \$55 million.

The gift to the Foundation is to be in support of the John A. and Katherine G. Jackson School of Geosciences, which was created by the Board of Regents in July 2001 and initially endowed by Mr. Jackson at \$25 million. In his letter to Dr. Faulkner, Mr. Jackson stated that it is his desire that the Jackson Endowment address the subjects of geology; geophysics; energy, mineral, and water resources; as well as the broad areas of the earth sciences, including the earth's environment.

In making his bequest, Mr. Jackson indicated his hopes that the geosciences programs at UT Austin would be among the top in the nation. He states that the resources of the earth have been important to him and to what Katie and he were able to achieve. The continued study and understanding of geology and the environment and resources of the earth will be important long into the future, he states, and his intent to commit the residue of his estate is in that spirit.

Jack Jackson is a 1940 graduate in geology from The University and has been a member of the Geology Foundation Advisory Council since 1975. His fellow members of the Council voted him Honorary Life Member in 1998. Jack and Katie have long been supporters of UT Austin geology, endowing a teaching fellowship, a fellowship in geohydrology, and a special fund in exploration geophysics, among numerous other gifts.

All the friends of geology at UT Austin and the faculty, staff, and countless students to come salute this unique couple—Jack and Katie Jackson—for their unprecedented gift, for their vision, and their hopes for the future. It will be the challenge to the many, many future beneficiaries of the Jacksons' generosity to ensure that the goals of Jack and Katie are achieved and even exceeded. They have given us the means to do unprecedented things.

GARY A. KOCUREK, CHAIRMAN

Department of Geological Sciences

WILLIAM L. FISHER, DIRECTOR

Geology Foundation and John A. and Katherine G. Jackson
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2002 NEWSLETTER

THE UNIVERSITY OF TEXAS AT AUSTIN
DEPARTMENT OF GEOLOGICAL SCIENCES
GEOLOGY FOUNDATION
JOHN A. AND KATHERINE G. JACKSON SCHOOL OF GEOSCIENCES

February 27, 2002

Dr. Larry R. Faulkner, President
The University of Texas at Austin
MA1 400
Austin, TX 78712

Dear Larry,

I write to confirm my intent to commit the residue of my estate to the Geology Foundation of The University of Texas at Austin. This is intended to be an investment made on behalf of me and my late wife, Katherine G. Jackson. I am informed by my financial advisor that the current value of the estate residue is between \$150,000,000 and \$200,000,000.


It is my desire that the John A. and Katherine G. Jackson School of Geosciences and the John A. and Katherine G. Jackson Endowment in the Geology Foundation address the subjects of geology; geophysics; energy, mineral and water resources; as well as the broad areas of the earth sciences, including the Earth's environment.

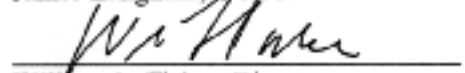
The resources of the Earth have been important to me and to what Katie and I have been able to achieve. The continued study and understanding of geology and the resources and environment of the Earth will be important to The University and the citizens of Texas in the future. Our intent to commit the residue of the estate is in that spirit.

Sincerely,


John A. Jackson

Witnessed by:


James Langham, CPA.


William L. Fisher, Director
John A. and Katherine G. Jackson School of Geosciences
University of Texas at Austin

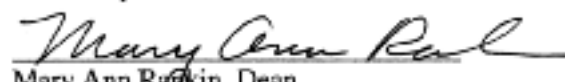

Mary Ann Rudkin, Dean
College of Natural Sciences
University of Texas at Austin

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The Jackson Vision

Report from the Director

A great school is known by the quality of students it attracts and graduates, the faculty and staff that people it, and the support provided it by former students and friends. The University of Texas at Austin has a splendid record in its graduates, in number the largest in North America, many of whom have had a profound impact on the science, on society, and on their fellow man. Our faculty and research staff, past and present, have been and are well regarded, and a number of our programs are top ranked in the Nation.

But, I think the unique, perhaps even defining, mark that UT Austin makes in the geosciences is due to the long and continuing support it receives from former students and friends—support in the form of resources, support in the form of counsel, and support in the form of interest and identification. The focus of this support is the Geology Foundation and its Advisory Council, which was created in 1953 by the Board of Regents. The vision of the early members of the Advisory Council—Morgan Davis (first Chairman), L. T. Barrow, Ed Owen, Scott Petty, Guy Green, Wayne Bowman, Wallace Pratt, Everette DeGolyer, Charlie Yager, among others—and then-Department Chairman, Sam Ellison, and the many who have followed, has brought us to where we are today.

Their counsel through the years has strengthened our programs, and their contribution of resources has made the Geology Foundation one of the strongest in the Nation.

Now enters John A. Jackson, a 1940 graduate of the Department, an Honorary Life Member of the Advisory Council, and a member since 1975, to carry us to new, unprecedented heights. Jack notes in his open letter elsewhere in this *Newsletter* that the Advisory Council is the best board, by far, that he has ever served on. His regard for the Council and this University, his confidence in the people here in the geosciences, and most of all what we call the Jackson Vision are the motivation for his and Katie's magnificent investment.

Those of us here and to come and those who counsel us must measure up to the challenge of the Jackson Vision. We are underway, ideas are brewing, and the new Jackson School of Geosciences is vibrant. Jack says he wants us to have the advantage of some long-term thinking and planning. We should be deliberate, but we must be bold.

I urge all of you with interest in this great School of Geosciences and what it will become to give us your continued support and your best ideas. Together we will meet and realize the Jackson Vision.

Bill Fisher

Report from the Chairman

What a year! Foremost, the Jackson School is being created in both philosophy and practice. Created on July 10, 2001, by President Faulkner and made possible by an “investment” by John A. Jackson on behalf of himself and his late wife, Katherine G. Jackson, the Jackson School is a wholly new concept for geosciences at The University of Texas at Austin. The mission in education, research, and service by the Department, the Bureau of Economic Geology (BEG), and the Institute for Geophysics (UTIG) is now under the common umbrella of the Jackson School, and embracing what can only be termed unparalleled opportunity. The initial manifestations are competitive recruitment packages for graduate students, fuller support for both graduate and undergraduate students, incorporation of UTIG and BEG research scientists into our classrooms, the launching of a post-doctoral program, the right of thesis supervision by an initial group of research scientists, and matching money for external grants. The more challenging aspect lies in the creative process of identifying and developing programs that can place geosciences at The University of Texas at Austin at the forefront of the science for decades to come.

On the physical facility front, during the past year it has been difficult to find an area of the building not in a construction phase. The main addition to the building, made possible by a gift from John A. and Katherine G. Jackson, is on schedule, and we eagerly anticipate moving into this nearly 60,000-square-foot addition in time for the spring 2003 semester. The rear entry area of the building was remodeled so that there is now a patio where vehicles used to be parked. After years of repairs, both elevators are being totally replaced. The conference room on the third floor has been beautifully remodeled and named after the Barrow Family, who funded the work. Because of a major gift by the Walter Family, the library is undergoing a very major expansion and renovation.

In spite of all the changes taking place, this Department retains its traditional sense of community, which one recent foreign guest described as a “small town in a big place.” Days of jackhammers vibrating through the building were met with relatively good humor. Faculty, research scientists, staff, and students walked around construction sites to continue their jobs. Our alumni and friends continue to support this Department in ways that are unparalleled elsewhere.

Gary Kocurek

GRADUATE STUDIES COMMITTEE AND STAFF LISTING

Graduate Studies Committee

James A. Austin, Jr.
Senior Research Scientist,
Institute for Geophysics

Jay L. Banner
Professor; Dave P. Carlton
Centennial Fellow in Geology;
and Director, Environmental
Science Institute

Christopher J. Bell
Assistant Professor and
John A. Wilson Fellow in
Vertebrate Paleontology

Philip C. Bennett
Professor; Dave P. Carlton
Centennial Professor in Geology;
and John A. and Katherine G.
Jackson Centennial Teaching
Fellow in Geological Sciences

Donald D. Blankenship
Research Scientist,
Institute for Geophysics

Richard T. Buffler
Professor and Senior Research
Scientist, Institute for Geophysics

William D. Carlson
Professor and Peter T. Flawn
Centennial Chair in Geology

Mark P. Cloos
Professor and Getty Oil
Company Centennial Chair
in Geological Sciences

James N. Connelly
Associate Professor and William T.
Stokes Centennial Teaching
Fellow in Geological Sciences

Ian W. D. Dalziel
Professor; Associate Director,
Institute for Geophysics; and
John A. and Katherine G.
Jackson Research Fellow

Alan R. Dutton
Research Scientist,
Bureau of Economic Geology

Robert J. Ferguson
Assistant Professor

William L. Fisher
Professor; Leonidas T. Barrow
Centennial Chair in Mineral
Resources; Director, Geology
Foundation; Director,
John A. and Katherine G. Jackson
School of Geosciences; and
Senior Research Scientist,
Bureau of Economic Geology

Clifford R. A. Frohlich
Associate Director,
Institute for Geophysics

William E. Galloway
Professor and Morgan J.
Davis Centennial Chair in
Petroleum Geology

Robert K. Goldhammer
Assistant Professor and
Elf Aquitaine Petroleum Faculty
Fellow in Geological Sciences

Stephen P. Grand
Professor and Dave P. Carlton
Centennial Professor in Geophysics

Bob A. Hardage
Senior Research Scientist,
Bureau of Economic Geology

Martin P. A. Jackson
Senior Research Scientist and
John A. and Katherine G.
Jackson Research Fellow,
Bureau of Economic Geology

Charles Kerans
Senior Research Scientist
and John A. and Katherine G.
Jackson Research Fellow,
Bureau of Economic Geology

Gary A. Kocurek
Professor; John E. "Brick" Elliott
Centennial Endowed Professor in
Geological Sciences; and Chairman,
Department of Geological Sciences

J. Richard Kyle
Professor; The Third Mr. and
Mrs. Charles E. Yager Professor;
and Graduate Advisor

Stephen E. Laubach
Senior Research Scientist,
Bureau of Economic Geology

Leon E. Long
Professor; The Second Mr. and
Mrs. Charles E. Yager Professor;
and Undergraduate Advisor

F. Jerry Lucia
Senior Research Fellow,
Bureau of Economic Geology

William P. Mann
Senior Research Scientist,
Institute for Geophysics

Randall A. Marrett
Associate Professor;
Elf Aquitaine Petroleum Faculty
Fellow in Geological Sciences;
and Joyce Bowman Payne
Teaching Fellow

Earle F. McBride
Professor and J. Nalle Gregory
Chair in Sedimentary Geology

Sharon Mosher
Professor and William Stamps
Farish Chair in Geology

Yosio Nakamura

Professor and Senior Research Scientist, Institute for Geophysics

Timothy B. Rowe

Professor; J. Nalle Gregory Regents Professor in Geological Sciences; and Director, Vertebrate Paleontology Laboratory

Bridget R. Scanlon

Senior Research Scientist and John A. and Katherine G. Jackson Research Fellow, Bureau of Economic Geology

Mrinal K. Sen

Senior Research Scientist, Institute for Geophysics

John M. Sharp, Jr.

Professor and Chevron Centennial Professor in Geology

Thomas H. Shipley

Senior Research Scientist and John A. and Katherine G. Jackson Research Fellow, Institute for Geophysics

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

Libby A. Stern

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 Shell Companies Foundation Centennial Chair in Geophysics

Scott W. Tinker

Professor; Edwin Allday Chair in Subsurface Geology; and Director, Bureau of Economic Geology

Willem C. J. van Rensburg

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

Clark R. Wilson

Professor and Wallace E. Pratt Professor in Geophysics

Lesli J. Wood

Research Scientist, Bureau of Economic Geology

Zong-Liang Yang

Assistant Professor

Professors Emeriti**Milo M. Backus**

Shell Companies Foundation Distinguished Chair Emeritus in Geophysics

Daniel S. Barker

Fred M. Bullard Professor Emeritus in Geological Sciences

Robert E. Boyer

Peter T. Flawn Centennial Chair Emeritus in Geological Sciences

Leonard F. Brown**Stephen E. Clabaugh**

Fred M. Bullard Professor Emeritus in Geological Sciences

Peter T. Flawn

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

Robert L. Folk

Dave P. Carlton Centennial Professor Emeritus in Geology

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

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

Lecturers and Research Scientists**Matthew W. Colbert**

Research Associate

Wulf A. Gose

Research Scientist and Senior Lecturer

Mark A. Helper

Senior Lecturer

Todd B. Housh

Research Scientist

Eric W. James
Research Scientist Associate

Richard A. Ketcham
Research Scientist

John M. Lansdown
Research Scientist Associate

Lawrence E. Mack
Research Scientist Assistant

Kathryn A. Manser
Research Scientist Associate

Fred W. McDowell
Research Scientist and
Senior Lecturer

Kitty L. Milliken
Research Scientist and Lecturer

Postdoctoral Fellows

Nathan R. Daczko
Postdoctoral Fellow with
Sharon Mosher

Jessica A. Maisano
Postdoctoral Fellow with
Timothy B. Rowe

Guo-Yue Niu
Postdoctoral Fellow with
Zong-Liang Yang

Technical Staff

Ryan R. Biggs
Technical Staff Assistant

Roger O. Gary
Technical Staff Assistant

Nelson A. Guda
Program Coordinator,
Environmental Science Institute

Jeffrey S. Horowitz
Senior Computer Illustrator

Effie L. Jarrett
Senior Systems Analyst

Joseph Jaworski
Photographer

J. Tyler Lehman
Senior Systems Analyst

Gregory L. Thompson
Technical Staff Assistant

Dennis R. Trombatore
Librarian, Walter Geology Library

Administrative Staff

Philip A. Guerrero
Administrative Associate

Angela Jowers
Administrative Assistant

Kathryn B. Oheim
Technical Staff Assistant

Miriam L. Pashby
Administrative Associate

Willa L. Porter
Administrative Assistant

John R. Ready
Senior Procurement Officer

Alice Rentz
Administrative Associate

Debra Sue Trinque
Accounting Technician

Renee A. Waters
Academic Advisor

William I. Woods
Executive Assistant

Geology Foundation

William L. Fisher
Director

Mary E. Koch
Senior Administrative Associate

Faculty Personal Notes

Dan Barker has spent his second and third years of retirement simultaneously trying to justify his retention of an office in the Geology Building and spending as little time in it as possible. Construction noise is a plausible excuse. He now has a computer system at home, so that he can work on manuscripts under conditions more suitable to productivity (barefoot, smoking, and listening to music). Ro continues her volunteer service in the Geology Library, doing what she can to help Dennis Trombatore prepare for the library's move prior to renovations.

Since the summer of 2000, Dan has attended four meetings, presented two papers, co-led two field trips, and had three papers published (a guidebook to Tuff Canyon in Big Bend Park, a paper about the mechanism of emplacement of a sill near Lajitas, and another paper on the chemistry of carbonatite liquids). His work on the Trans-Pecos igneous rocks and the Llano granites continues, and he is starting a mapping project in Big Bend.

Also in the last two years, he and Ro went on geologically motivated trips to Wyoming, South Dakota,

Hawaii, New Mexico, Colorado, Utah, New Hampshire, Massachusetts, and Rhode Island, and on several forays into Trans-Pecos Texas. They look forward to seeing Alaska for the first time in June, and going to the International Mineralogical Association meeting in Edinburgh with field trips in Scotland in August and September.

On more personal matters, Dan's daughters Molly and Amy are both happily married and living in Austin and in New York, respectively. Molly and Amy lost their mother, Barbara Mackin Barker Warner, to cancer early in January, and Dan and Ro thus lost a very dear friend. They last saw Barbara in Utah in September 2001, at a symposium organized by the Utah Geological Association and the Pacific Section of AAPG honoring the memory and accomplishments of Barbara's father, J. Hoover Mackin. The meeting indeed did honor to the man, and Barbara was very moved by it and grateful that she could attend.

This year, **Bill Carlson** reaped his reward for the 7 preceding years of administrative service, in the form of a year-long research leave. With only his continuing duty on the design/build

team for the new Jackson Building addition to keep him on campus, travel for research, and collaboration filled much of the last year.

Last summer began with a trip to the Paul Scherrer Institute, the Swiss national particle accelerator facility outside Zurich, to explore the possibilities of neutron tomography on geological materials; this was followed by field work in the Central Alps with student Charna Meth. In late summer, an eclogite conference and field trip in Shikoku, Japan, provided a great opportunity to see amazing rocks in a fantastic setting.

Much of Bill's research effort during the academic year was centered on expanding and improving the Department's analytical equipment and facilities. He continued to direct the UT High-Resolution X-ray Computed Tomography lab, and with Rich Ketcham successfully sought a renewal of its status as an NSF-sponsored national shared user facility. With Phil Bennett and Kitty Milliken as co-PIs, Bill also secured \$1.1 million in funding from the W. M. Keck Foundation and The University for purchase of a new environmental scanning electron microscope and a new state-of-the-art electron

probe microanalyzer. He added a laser-ablation system to the Department's inductively coupled plasma mass spectrometry lab, and he helped acquire funding for a complete upgrade to the analytical software in the X-ray diffraction lab. With all this, expectations are high for a renaissance of petrologic geochemistry in the Department's near future!

Bill proudly notes that since his last report in these pages, several of his students have completed their degrees, including Dave Hirsch (Ph.D., now an Assistant Professor at Western Washington University) and Master's students Susan Anderson, Charna Meth, and Kate Herrell.

Of course, it hasn't been all work. With both sons now in college, Bill and Susan took advantage of the extra freedom to travel for pleasure. In addition to their annual kayaking trip to the San Juan Islands, Bill and Susan also spent 2 weeks in French Polynesia, celebrating their 25th wedding anniversary (only 3 years too late!), and a mid-winter trip to Central Alaska fulfilled Bill's long-time wish to see a spectacular display of the aurora borealis.

Mark Cloos taught Structural Geology to under-

graduates in the fall, and for this he revived the Arbuckle/Ouachita field trip. He was the lead instructor for the new Tectonics graduate course in the spring that had excellent presentations by faculty and research scientists at the Institute for Geophysics and the Bureau of Economic Geology who gave lectures on their areas of expertise. He continues to work with students in publishing papers based upon their Ertsberg project studies. Last year, major papers were published on bubbling magma chambers and porphyry copper deposits and the origin of magmatism in collisional delamination settings. Papers on volcanism and faulting in the highlands of New Guinea were submitted to journals.

Jim Connelly taught introductory geology, field camp, and a graduate course in isotopes and continued research activities with his graduate students in Precambrian tectonics, continental reconstructions, and isotope systematics. Field work brought him to West Greenland, the Scottish Highlands, and the American Southwest to examine field relationships and collect samples for U-Pb geochronology.

The U-Pb laboratory continues to turn out high-quality ages under the stewardship of Kathy Manser, providing temporal constraints for projects in Pre-

Cambrian belts of Brazil, Sweden, South Africa, and Antarctica. In addition to the conventional isotope facility, advances were made in establishing in situ U-Pb analyses using a laser ablation microprobe connected to our new inductively coupled plasma mass spectrometer. This ability to analyze spots of zircons as small as 40 microns offers exciting new possibilities to resolve ages for complex rocks (where each analysis takes less than a minute!).

Jim and his students presented results of their research at annual meetings in Boston (GSA) and St. John's, Newfoundland (GAC) and at several workshops. He also presented an invited lecture in Derby, England, to the Mineralogical Society about the challenges of precisely dating metamorphism.

Jim and Kathy are still flying themselves around in small planes, with extended trips recently to Canada and the Grand Canyon at Christmas (cold camping but very quiet). They have also taken up kayaking this past year and are enjoying exploring the rivers of Central Texas from a different perspective.

This last school year saw many changes for **Rob Ferguson** and his family. Beginning on August 8, 2001, Rob and Corrine left California, where they had worked respectively as a Lead Research

Scientist with Chevron and a Researcher with the University of California, to move to Austin. Arriving in 100+ degree heat and around 100 percent humidity, Rob and Corrine moved into their small apartment on Hart Lane in Northwest Austin. For the fall semester, Rob taught GEO 312K, while Corrine, who was about five months pregnant, began the search for a permanent residence. Gigi, born Giselle Kayla Ferguson, arrived on the morning of December 30, 2001, to the delight of her parents. In the winter session, Rob taught GEO 486K while Corrine and Gigi established routines. In May, the Fergusons purchased a house just north of campus and, after a few renovations, plan to move in by August 2002.

Besides his teaching duties, Rob enjoyed opportunities to be a guest speaker. He visited UT-Dallas, the Institute for Geophysics, the Exploration Geophysics EDGER Forum within the Department, and Technical Sessions to present work on wavefield extrapolation, marine seismic processing, anisotropy, and multi-component AVO.

Rob's research activities proved fruitful this academic year, with papers prepared for and presented at a number of conferences. The first required a trip to Houston to the Offshore Technology Conference to present a

paper on marine statics. The next stop provided an opportunity for the Fergusons to return to Canada, where Rob presented a paper at the Canadian Society of Exploration Geophysicists conference. From Canada, Rob pressed on alone to Italy to present at the European Society of Geoscientists and Engineers meeting in Florence. Rob presently has an abstract in review for presentation at the Society of Exploration Geophysicists conference in Salt Lake City in the fall.

This has been a good year for Rob in the publishing realm, with articles appearing in the journals *Geophysics* and *Geophysical Prospecting*.

Rob also took time this year to look for additional geophysical inspiration by attending the Sub Basal Imaging workshop in Cambridge, UK, the Anisotropy workshop in Tutzing, Germany, and the annual conference of the American Geophysical Union in San Francisco.

Rob is spending the summer building a seismic imaging capability on Linux clusters and conducting research into new anisotropic wavefield extrapolation operators as a recipient of a Summer Research Appointment. He is also working with the EDGER Forum in extending the capabilities of multi-component seismic.

Bill Fisher spent much of the past year chairing the committee to draft a charter and operating procedures for the new Jackson School of Geosciences and, as the newly named Director of the School, getting it under way. He also directs the Geology Foundation and teaches two popular graduate courses—Sequence Stratigraphy and, with Scott Tinker, Reservoir Geology.

Bill is currently supervising 22 graduate students and co-supervising another 6, working in the Gulf of Mexico offshore, the Gulf Coast, West Texas, New Mexico, Utah, Colorado, Oklahoma, Mexico, Indonesia, New Zealand, Northwest Australia offshore, and Venezuela. Six students are graduating, including Claudia Rassi (Ph.D.) joining ChevronTexaco in San Francisco, Adrian Badescu (Ph.D.) working with bp in Houston, Donna Cathro (Ph.D.) rejoining Geoscience Australia (the geological survey of Australia), Patricia Montoya (M.S.) rejoining PDVSA in Caracas, Rob Koch (M.S.) joining Anadarko in Houston, and Fernando Cerda (M.S.) working for WesternGeco in Houston.

Bill continues to give several invited lectures and is active in the AGI and AAPG Foundations, the National Research Council, the National Academy of Engineering, and the National Petroleum Council.

Peter T. Flawn, as President Emeritus, continues his service on a number of University commissions, boards, and committees. He is a Director of the Southwest Research Institute as well as several corporations and partnerships. In March, his book, *Silver in the Sierra Madre—The Story of the Santa Cruz Mine and Philip W. Beckley*, was published by Eakin Press.

Whew! **Bob Folk** can finally come out of the closet without embarrassment. The reason he does field work in Italy is because in 1973 in Milano his family fell in love with Italian food, opera, vino, language, architecture—the whole lifestyle (perhaps some of you had already suspected that). In 1974, Earle McBride became infected as well, and in 1979, Bob was looking for another excuse to do research there. Bob persuaded Hank Chafetz to go to Italy to look at the origin of Roman travertines. By dumb luck, they discovered these rocks largely made of bacterial precipitation, and this chance event changed both of their research directions.

After Bob retired in 1988, through the kindness of the BEG in supporting future field work there, he again made a brainless discovery—the hot springs of Viterbo, where for the first time the little world of nannobacteria was revealed in rocks (thanks to a new SEM). Who would

have thought that this chance finding would have led NASA to have searched for, and found, nannobacteria in the Martian meteorite, or to have unveiled the great implications that nannobacteria have for human health? Thanks to being retired, Bob did not have to waste his time in writing rejected grants. (Who would have funded this, given that there was almost unanimous rejection of the idea of dwarf bacteria by the biological community.)

This past year, thanks to Jeri C. Rodgers (graduate student here) and her husband, cardiologist George P. Rodgers, they have made a link-up with the Mayo Clinic, and they have done the biology to prove the “life” of nannobacteria, while they have done the SEM’s on human arterial plaque—yes, it is hydroxyapatite and proveably precipitated by nannobacteria. This idea was presented at GSA Boston and also at several cardiology conferences. Bob also got a tiny piece of pyroxenite mother rock of the Martian meteorite ALH84001, and yes, the hypersthene is badly infected with Martian nannobacteria; paper in press in *Meteoritics and Planetary Science*. Work continues on the little bugs precipitating carbonates, pyrite, weathering clays, etc.

In the summer, Bob went to Italy with Annette Summers Engel, who has a good microbiology back-

ground. Her husband Scott and elderly former student, Tim Diggs, went along for the first part. They toured Milano, Monterosso, and Roma before starting work at the hot springs of Viterbo. Annette had done work previously at the spectacular caverns at Frasassi (south of Ancona), so they went there to do some more sampling on the sulfur bacteria. Dumb luck again: they landed at Gubbio just on the Sunday they were having their annual festa and a crossbow-shooting contest with a neighboring town. There were parades with flagthrowers, fanfares, gorgeous chicks, and impressive men in medieval costume, drummers, pennants, bell ringing, as well as crossbow shooting. In Italy, there is always something exciting.

Toward the end of the trip, they took the train from Milano NE to Tirano, then got off on a dinky little train that crossed the Swiss border at Poschiavo, and went high up into the Alps. Bob had bought tickets to a station called “Bernina Diavolezza” not having any idea what it was, but assuming there was something there. Well, it turned out to be only the base of a ski lift that was not running this time of year. There were no shops, no bar, no restrooms, no village, and no people. Bob and Annette collected igneous pebbles among the ice

and snow. (SEM shows that, yes, nannobacterial weathering is taking place even under glacial conditions.) But they had no round-trip tickets—and no station to buy them from. Besides that, they had only Italian money...what to do? Anyway, the dinky train finally came and luckily they could use their lire to buy tickets from the conductor. They celebrated by going to High Mass in the Duomo of Milano.

During the year, Marge and Bob spent a few days in Castroville, Texas (“Little Alsace”), and over Christmas went to Corpus Christi and Port Aransas with their daughter and family. In May, they took a mini-vacation to tour the Texas Panhandle; Amarillo, Perryton, and Dalhart, and did five states in one day: Oklahoma, Kansas, Colorado, New Mexico, and Texas. They knocked off eleven counties in Texas that they had never seen before, plus the Oklahoma Panhandle. Interesting country, especially the Canadian River Breaks.

Bill Galloway spent the past year dividing time among teaching the usual courses, Terrigenous Clastic Depositional Systems, Basin Analysis, and Petroleum Geology, working on the Gulf Basin Depositional Synthesis (GBDS) project at UTIG, and practicing being the father of an upper-division teen (pretty much a futile endeavor) and a

still-new grandfather (much more enjoyable).

The highlight of the year was their family raft trip through the Grand Canyon, as a tourist rather than a professional. They had a great guide, marvelous weather that even included cloudy days with showers and cool nights when the sleeping bag felt good, and nature’s scenery at its finest to entertain them. Bill says, “I knew I was having a great time because I slept really great on the ground, and I have never slept well on the ground in my life.” Later that summer, Bill visited Jack Sharp’s hometown in Minnesota to try out fishing in northern waters for exotics such as walleye and pike. Bill says that he wasn’t the most successful fisherman of the group, but he caught enough to make it a memorable adventure.

Bill also had a chance to again tour the classic southern Ouachita/Arkoma basin outcrops along with the basin analysis students under the leadership of Mac McGilvery (former student now working at Phillips). As always, a great trip and great fun for everyone.

Bill’s current students continue work on the Miocene depositional framework of the East-Central Gulf of Mexico and on late Quaternary deposits of Texas rivers. Co-supervised students at the Institute are looking at late Quaternary

features and facies of the Atlantic and Pacific shelves. Bill will join Bob Folk in the distinction of having a paper published despite the strong objections of several JSR reviewers; Bill says, “We’ll see if my hard-headedness proves equally justified.”

Robert K. Goldhammer completed his first full year at the Department and finally convinced his wife to give up her career with Anadarko Petroleum in Houston, sell the house, and join him in Austin. Having accomplished that, they have settled into their newly renovated ’70’s style home with their 3-year-old daughter Nora, who recently got a new baby brother (Maximilian “Axel” Robert, born May 25, 2002). As a relatively new Assistant Professor in the Department, Goldhammer continues to adjust to life in academia, much different from that of the “industry.”

Goldhammer offered two new graduate classes related to carbonate rocks and also taught half of 416M (the undergraduate sedimentary rocks class). Teaching-related highlights include: (1) the creation of a new carbonate graduate research lab with all the latest high-tech equipment and an enormous teaching collection with literally thousands of polished rock slabs, thin sections, cores, and samples—covering everything from the Protero-

zoic to the Holocene (a significant contribution from the Bahamas by Art Saller and Tom Elliott of Unocal is a real jewel); (2) the completion of an up-to-date series of lectures and labs covering all aspects of carbonate geology; (3) taking graduate students on some fairly pleasant field trips, notably the fall 2001 trip to Belize and the Spring 2002 trip to Mexico (special thanks to Dr. Fisher and the Foundation for their financial assistance with the Belize trip); and (4) receiving the Knebel Award for outstanding efforts in the classroom.

On the research front, Goldhammer’s activities include: (1) creating an industry-sponsored research consortium (“Mesozoic Margins”), which deals with the tectono-stratigraphic and paleogeographic evolution of Mesozoic divergent margins (including offshore Angola, Brazil, and both onshore and offshore Mexico); several companies joined and they managed to have their first annual meeting in Mexico, including a value-added field trip; (2) successfully procuring an offshore 1996–1998 vintage regional 2-D seismic data set from WesternGeco (London New Ventures) valued in excess of \$800,000 for pursuing his Angola-related interests; (3) convincing six (originally innocent) graduate students to work with

him on graduate degrees, with three more coming in fall 2002.

A myriad of projects are being pursued by the “kids,” including: (a) salt-related tectonics and carbonate stratigraphy (Mexico, Angola); (b) the role of hierarchical stratigraphic architecture in influencing structural styles in folded carbonates (fracture distribution and location of detachment surfaces); (c) outcrop and experimental (with Bruno Vendeville of the BEG) investigations of early mechanical compaction in Lower Ordovician carbonates of the Arbuckle Mountains (yes, they are in Oklahoma); (d) dolomitization fronts adjacent to fractured and karsted Lower Ordovician carbonates in the Franklin Mountains (West Texas) and mapping paleopermeability pathways; (e) evaluation of allocyclic versus autocyclic forcing of Triassic platform carbonates in Northern Italy; and (f) facies analysis and early marine diagenesis of the La Popa Reef (Paleocene) in Northeast Mexico.

Goldhammer also published three papers (geology of Northeast Mexico, a review of cyclicity in the stratigraphic record, and a review of mixed carbonate-siliciclastic deposits), and presented two poster sessions at the AAPG meeting in Houston (tectonics of Angola, and salt-related stratigraphic evolution of the La Popa Reef, Northeastern Mexico). He gave a talk

on the role of syndepositional salt tectonics on carbonate stratal architecture to the Houston “Sequence Stratigraphy Research Group,” and he presented three talks to PEMEX and one to the AMGP meeting in Villahermosa in an effort to pursue collaborative research with PEMEX.

Goldhammer will spend half the summer examining Triassic outcrops in Bavaria and Tyrolia, Jurassic sponge reefs in Southern Germany, and Pennsylvanian carbonates of the Four Corners region. Consortium-related activities this summer include a trip to Calgary and work sessions in Houston and Oklahoma City.

Rich Kyle taught the undergraduate course on Texas geology and mineral resources and the graduate economic geology course during fall semester. He also taught the upper division mineral resources elective in the spring and physical geology during the summer.

Rich continues as Graduate Advisor and Chair of the Graduate Admissions and Support Committee. Thus, a great deal of the nuts-and-bolts issues concerning changes to the graduate program within the Jackson School of Geosciences has fallen to him (for which he received the Alvin C. York award from Chairman Kocurek during the Department’s Awards Ceremony!).

Rich and his graduate students continue to conduct research on diverse topics within the broad field of economic geology. Jenny Head completed her thesis on the silver deposits at Shafter, Texas’ largest metal producer. Asif Muzaffar completed his thesis on cap rock formation and mineralization with salt dome development at Davis Hill in Southeast Texas. New projects include research on carbonate replacement zinc-lead-silver deposits at Hecla, Montana (Mac McGuire), gold deposits at Cripple Creek, Colorado (Alison Mote), and historical mining in Central Texas (Fabienne Grellet-Tinner).

This year Rich chaired the Central Texas Section of the Society for Mining, Metallurgy, and Exploration. Rich began his tour as the Society of Economic Geologists’ Thayer Lindsley visiting lecturer that will continue into the fall semester.

Leon Long team-taught GEO 303 (the big introductory course) with Libby Stern in the fall semester, and with Steve Grand in the spring. For the second time, Leon facilitated the new course designed to acquaint graduate students with the vast scope of subjects within geological science. By designation and temperament, it seems, Leon is the Department’s generalist geologist. He also taught the field course for non-

majors, attended by students coming from all corners of campus.

Last November, Leon co-authored a poster at the GSA meeting in Boston. A big push was to prepare an Outreach Lecture, *Geologic Wonders of Central Texas*, 17th in a continuing series sponsored by the Environmental Science Institute. A CD with more than 70 images, many of them complex drawings, accompanies the lecture. Leon is both his own author and artist.

Leon was pleased to win the Chancellor’s Council Outstanding Teaching Award for 2001-2002. It is the premier teaching award, given in any year to only one recipient in all of UT!

Besides that, Leon continued as the Department’s undergraduate advisor, did writing, submitted a long-maturing manuscript, served on committees, led numerous field excursions, delivered guest lectures, etc. For a holiday, Mary and he toured remote parts of that beautiful place called Newfoundland.

Ernest Lundelius continues to enjoy retirement. He is active in several research projects involving Quaternary faunas in both North America and Australia. He spent several weeks in Australia and New Zealand in November and December visiting collections and attending meetings in New Zealand.

He has been working with Chris Bell and others on the revision of the Pliocene-Pleistocene chapter of *Cenozoic Mammals of North America: Geochronology and Biostratigraphy* edited by M. O. Woodburne. He also enjoys visiting his grandchildren—no paleontologists yet—but all are knowledgeable about dinosaurs!

Earle McBride taught Sandstone Petrology, Supervised Teaching for Graduate Students, and the clastics part of Sedimentary Rocks in the fall and Introductory Field Methods and Sedimentary Rocks in the spring. He reduced his participation in GEO 660 (Field Geology) to only 4 days this summer. Earle has been working with Kitty Milliken and Ph.D. student Suk-Joo Choh on the construction of an interactive tutorial on sandstone petrology that runs on a PC. The goal of this project, the brainchild of Kitty, is to speed the learning of thin-section petrography of sandstones by showing images of photomicrographs on the computer screen. Students can click on active areas of the image to learn the significance of specific textures, minerals, pore types, etc. Both provenance and diagenesis concepts are imaged. A version of this tutorial won first prize as a poster at the SEPM meeting last year. Earle and Kitty hope to expand this tutorial and make it available to the geologic community at large.

Several short field trips were made during the summer to accompany students collecting samples and data related to thesis and dissertation projects.

Donna suffered a stroke on Valentine's Day and has been undergoing extensive rehab on several fronts since then. Serving as a caregiver curtailed some of Earle's research activities during the spring and summer. Donna improves daily, and the sky is the limit!

Only two people brought him alleged meteorites to identify this year: one was an iron-oxide-cemented *Ophiomorpha* burrow, the other was a piece of slag. One of Earle's greatest past failures occurred when a man wanted a rock sample identified. "Sure, let me look at it," Earle said. The man replied that he didn't have the sample with him, but he could describe it. "It weighs 232 grams, is shaped like a walnut, is dark brown"

Sharon Mosher had a very full year as President of the Geological Society of America (GSA), and as past president for the past few months, in addition to her "real life" of teaching, graduate supervision, research, and being a mother of two teenage daughters. All in all, it was a very educational and interesting year.

One of the most significant activities she was involved in was working toward establishing a geo-

science society electronic journal aggregate with Robbie Gries (President of the American Association of Petroleum Geologists; UT alumni) and Walt Lynn (President of the Society for Exploration Geologists). This aggregate will include a large number of geoscience societies working together to develop a seamlessly interlinked online set of geoscience journals (see *GSA Today* v. 12, no. 3, Dialogue column, www.gsaonline.org/gsaonline/). This collaboration is just one of many joint efforts that are underway among geoscience societies.

Sharon has also become very involved with the Council of Scientific Society Presidents, now serving as Treasurer, and is working with other scientific societies on issues of mutual interest. Early in the year, she hosted the Earth System Processes meeting, cosponsored by GSA and the Geological Society of London (GSL) in Edinburgh, Scotland, for which she had been on the organizing committee. (Ian Dalziel, Institute for Geophysics and Department, was co-chair of the program committee.) She says the meeting was the most scientifically stimulating meeting she has attended in years, and it was the highlight of the entire year. She learned a tremendous amount about the complex interactions between the

atmosphere, hydrosphere, biosphere, and lithosphere and was pleased to see lively discussions between scientists in different disciplines.

During the year, Sharon worked closely with GSA staff and Acting Executive Director Dave Stephenson (UT Geology Foundation Advisory Council member) while GSA was undergoing a search for a new Executive Director. Between learning how to do accrual accounting, formulating budgets, negotiating contracts, re-writing bylaws, dealing with employee issues, and learning how to set up a publications aggregate, she feels like she has greatly expanded her skill set, though little of this is useful as a professor! She enjoyed the opportunity to travel and meet with a wide variety of people and to give talks and write editorial columns on both science and on science initiatives and policy. Her Presidential address in Boston was on "Plate Boundaries to Politics: Pursuing Passions in Science" (*GSA Today*, v. 12, no. 2, www.gsaonline.org/gsaonline/).

Field time included a trip to Macquarie Island (1500 km south of New Zealand) for a couple of weeks in March with Mike Coffin (Institute and University of Tokyo) to meet with Karah Wertz (Ph.D. student) and Nathan Daczko (postdoctoral scientist). They had just completed a very successful 6-month field

season. She had an uneventful trip this time (unlike 1999, when she was stranded there) and had just enough time on the island to get an overview of what they had accomplished. The highlight of the trip was a helicopter survey of the entire island, which is a sliver of oceanic crust and upper mantle that has been uplifted in situ along the Australian/Pacific plate boundary. She also was able to go in the field with Vanessa Svihla (Ph.D. student) in the Big Maria Mountains, California, for a few days in the fall. Tip Meckel (Ph.D. student) working on the Hjort trench made major progress this year investigating subduction initiation, and Kate Herrell (M.S. student) finished her Master's that investigated the mechanisms for forming large isolated feldspar augen in shear zones and documented a pegmatite disaggregation mechanism. In the fall, she had the opportunity to teach a new graduate course, Tectonics I, that used the combined expertise of many faculty and research scientists from the Institute for Geophysics; next year it will also be open to undergraduates. In the spring, she taught Structural Petrology to a large class of graduate students.

Sharon is looking forward to being in Austin more, working with her students, teaching, doing

research, and being with her family. Her daughters are growing up; Lisa is a freshman and Sarah a senior in high school. Sarah will be a freshman at University of Colorado at Boulder next year, which is ironic since Sharon won't need to go to Boulder all the time for GSA anymore. The girls have grown into wonderful young women and constantly remind Sharon that there is more to life than work.

Bill Muehlberger reports that the AAPG Annual Meeting in Houston was the high point of last year because UT-ex Robbie Gries, AAPG President, presented him with a Distinguished Educator Award. He had never hugged a President before!

September 11 canceled the astronaut candidate field trips to Northern New Mexico. Bill has led them since the beginning of the Shuttle era. Budget cuts look to have knocked this class out of the trip.

Last fall, Sally and Bill went on a trip to Florence, followed by a cruise down the Po River, with day trips to various historical sites, and ending after several days in Venice. Great! A spring trip to Belgium and Holland was truly memorable—they had never seen so many blooming flowers. They hit the peak of the tulip season! Absolutely spectacular!

GSA Boston was an opportunity to renew old friendships and to listen to lots of good papers.

Low point of last year was Thanksgiving week, spent recovering from the removal of a malignant tumor from his upper colon—no evidence of any other tumors elsewhere! Christmas was spent in Quebec City to see what cold weather is all about. Of course, they were having the warmest winter to date! It snowed Christmas Eve, and that made it all right, however! Talks to church travel groups, Texas Water Development Board GIS Meeting, and Sul Ross State University filled in the winter months.

The end of May included a trip with astronaut and geological colleagues to set up a field trip to the Rio Grande Gorge near Taos, New Mexico, where they have a full-size model of the Hadley Rille that the Apollo 15 crew landed beside. The Rille and the Rio Grande Gorge are both cut in basalt flows and are the same size—1 mile across and 600 feet deep. The problem is to get buses to some of the points used for the geological simulation for the Apollo astronauts, on roads not designed for buses! This is for a field trip for a September meeting concerning the Moon, what has been learned from past exploration and what to do for future exploration.

During 2001, **Amos Salvador** devoted most of his time to the estimation of the consumption and possible sources of energy during the 21st century. He completed the sections on hydrogen and fuel cells, and on electricity. In the last section, which he is working on now, he will develop several scenarios based on diverse consideration of the basic information developed in previous sections of the study, and on the evaluation of some of the more basic demographic, economic, technological, and environmental factors that may determine the amount of energy needed in the 21st century, and how it will be supplied.

Jack Sharp finished his nearly 8 years as the Geological Society of America's co-editor of *Environmental and Engineering Geoscience* and celebrated with a 2-month stint down under, including 3 weeks' vacation in New Zealand and Australia with Carol. Another highlight was a trip to Zacatón, Mexico, with Mark Helper and Jack's student Marcus Gary, who is trying to understand this unique karstic system. The tick bites subsided after 2 months!

On the travel downside, Jack and student Jason Krothe were in Munich during September 11, and it dimmed the joy of the many reunions in Germany. The field trip in the Alps,

however, was special. Finally, the unsuccessful search for our hydrogeology position did cancel his visit to Nebraska as a Big XII Faculty Fellow. He is hoping that an energetic new hydrogeologist will be hired next year.

On the research front, the long-delayed publications on free convection appeared in the *Journal of Contaminant Hydrology*, and the *AAPG Bulletin* publication on free convection appeared around New Year's Day. Jack was also invited to present synopses of regional groundwater flow in Trans-Pecos Texas at two symposia, 2 weeks apart, in Alpine, Texas. Other talks by Jack and his students were presented at GSA, the SEPM Research Conference, the Karst Waters Institute, in Minnesota (AIH and the University of Minnesota), at Brigham Young University, and at the Austin Geological Society. A special American Institute of Hydrology (AIH) session was convened by Jack—it was entitled Groundwater Challenges for the 21st Century. Speakers from government, academia, and industry were very stimulating; it should have been bottled. Both challenges and opportunities abound. Then, after the AIH, he rediscovered the challenges of woodcock (“timberdoodle”) hunting at his folks' land in Minnesota.

Jack is also pleased to note that the job market for hydrogeology students

remains strong and that with the Jackson School initiative UT should become even stronger in the field.

Jim Sprinkle had another busy year of teaching, research, and travel. He taught the junior-level Paleobiology, a substantial writing component course, to 20 Geology majors and 1 biologist in the fall, along with a GEO 391S seminar on echinoderm systematics to 4 graduate students, the first time he has ever taught a specialized version such as this. He also presented two lectures in Leon Long's Modern Geological Sciences course to seven new graduate students in early September. In early November, he was co-author with Tom Guensburg of a talk at GSA in Boston on cup plating in the earliest crinoids.

After classes ended, Jim spent Christmas vacation finishing a book chapter manuscript on echinoderm diversity during the Ordovician Radiation. Chris Schneider helped Jim prepare five beautiful full-page diversity plots that were sent off as an e-mail attachment to the book editor in Australia. Unfortunately, there was a one-letter mistake in the editor's e-mail address, so his carefully prepared figures went sailing off into hyperspace never to be seen again! Three days later, Jim sent off the now-completed chapter text, this time to the correct e-mail address, and was puzzled when the editor

replied that he was still waiting for the figures. These were finally resent to the correct address and arrived safely only 8 days after the deadline for manuscripts. “Snail mail” may be a lot slower than e-mail, but at least the poor maligned Post Office would almost certainly have gotten a package addressed to “Macquarie (instead of Macquarie) University” in Australia delivered to the right place!

In January, G.K. got a full-time job as a naturalist-interpreter at the Grand Canyon, which she could take because 2002 is an off-year for the Texas Legislature, and she left Austin on January 15 to start training for that position. During the spring, Jim taught the freshman-level Plate Tectonics and Earth History course to 70 undergraduates, and had 8 graduate students and an undergraduate honors student in his GEO 383K Paleocology seminar. Desmond Collins, from the Royal Ontario Museum in Toronto, visited in early March to present a talk for Tech Sessions on the faunas of the Burgess Shale, and spent the next 5 days with Jim studying and describing some of the echinoderms from this unit. Jim then flew out to Flagstaff to visit G.K. for the rest of spring vacation, and after 2 days of light snow at the Canyon, had to drive back to Flagstaff on wet slippery roads and

fly home. Now he remembers why he happily left snowy New England and Denver, Colorado, for warm sunny Texas so long ago!

After finals ended in mid-May, Jim spent several weeks revising the Ordovician diversity book chapter, which had come back from review, preparing slides for a talk on the same subject for the International Palaeontological Congress to be held in Sydney, Australia, in early July, and preparing for several weeks of field work in the Rockies in mid-to-late June, partly with Bryan Wilbur, who will be out there trying to collect Early Cambrian echinoderms. During the first week of June, Jim flew up to visit Tom Guensburg in Rockford, Illinois, to finish work on their joint crinoid origin and systematics paper (now 80 manuscript pages long) that has been in preparation for the past 5 years.

Scott W. Tinker, Director of the Bureau of Economic Geology, State Geologist of Texas, and Professor, enjoyed his second year at UT. Scott co-taught with Bill Fisher a graduate class on Reservoir Geology in the fall of 2001 with 25 students representing 15 countries and 5 continents! He sits on a few graduate student committees, is co-chair for M.S. candidate Ted Playton, and will serve as co-chair for three incoming students in the fall of 2002.

The news of the day is the Jackson School. Scott sits on the Steering and Executive Committees of the School, and he has been actively involved in the School formation process. The BEG, now a component of the Jackson School, is healthy and enjoying broad funding distributed evenly across State, Federal, and private sources. Exciting times, to be sure.

The BEG Advisory Committee continues to meet twice a year for technical presentations and status reports and has been a great resource to the BEG. The BEG put together a Virtual Tour of Texas in the ACES facility for the Chancellor's Council meeting this year, which highlighted several aspects of Texas geology in animated 3-D. Scott was also asked to be featured in a piece on water in Texas in the *We're Texas* video put together by the President's office.

Scott traveled to Mexico several times, the Middle East, and almost every town in Texas that has a local geological society. He was named a Society of Petroleum Engineers Distinguished Lecturer for 2002–2003 and was honored with a Distinguished Service award by the West Texas Geological Society (WTGS). He presented lots of invited talks on "Technology for the Coming Gas Economy," "3-D Modeling of Aquifers

and Hydrocarbon Reservoirs," "Carbonate Sequence Stratigraphy," "Fundamentals of Petroleum Geology," and "The Status of the BEG" at various society meetings, conferences, and universities in Texas and Mexico. He gave keynote talks at the first annual APPEX meeting in Houston, the Department of Energy (DOE) PRIME Conference in Houston, and a WTGS symposium in Midland. He also presented invited talks to the National Science Foundation-sponsored Earthscope workshop in Boulder, the General Land Office-sponsored Border Energy Forum in Tucson, and the DOE-sponsored Natural Gas Technology Conference in Houston.

Scott spent many days in Washington, D.C., with the Association of American State Geologists (AASG), with the Petroleum Technology Transfer Council (PTTC), and with the DOE. He presented an invited paper to the DOE Benefits of Research Conference in Washington and also presented invited testimony to the Texas Legislature.

Scott serves on several AASG committees, American Association of Petroleum Geologists (AAPG) Committees, and the Steering Committee for the 2002 Gulf Coast Association of Geological Societies Annual Convention, for which he is Technical Program Chairman. He served as President-elect

of the Austin Geological Society for 2001–2002 and will serve as President for 2002–2003. He is also a member of the Trinity University Board of Visitors, served on the selection committee for the Chief Geologist of the Western Division of the U.S. Geological Survey, and in a moment of weakness agreed to serve as the SEPM General Chair for the annual AAPG/SEPM Meeting in Dallas in 2004.

Scott has a paper in press in an AAPG Memoir, published a paper for the SEPM 75th Anniversary Diamond Jubilee, helped lead a field trip down the Pecos River (OK, was along for the ride and the rocks!), taught a 3-day short course in Vera Cruz, Mexico, and had interviews published in *Geotimes* and the *AAPG Explorer*. All in all, another full year.

Clark Wilson's teaching activities during the fall semester included Computational Methods in Geological Sciences and a graduate seminar on gravity and magnetism. He hopes to develop this seminar topic into a full, organized course offering, probably in the fall of 2003. During the spring semester, he taught Geology of Engineering to over 100 Civil, Petroleum, and Architectural Engineers. The Geophysics Colloquium during the spring semester included once-a-week visits to various geophysical labs around Austin, finishing with a weekend field trip to

the McDonald Observatory. Clark continues to be interested in a variety of research problems, ranging from space geodesy to applied seismology.

Travel this year included the Society of Exploration Geophysicists meeting in San Antonio, the American Geophysical Union meeting in San Francisco, and the spring European Geophysical Society meeting in Nice, France. Clark and Ellin set their schedules by what teenage daughters Kirsten and Sissel are doing; both will be in high school next year. Clark continues to commute to campus by bicycle, on his bike dating from his student days. On those days when he does drive, it is in his '69 VW Bus that has also served him since his days as a graduate student.

Zong-Liang Yang is an Assistant Professor specializing in climate modeling and global hydrological cycles. He joined the department in August 2001. Over the past year, he taught "Living with a Planet," "Earth, Wind and Fire," and "Hydroclimatology." He will teach "Climate Change: Past, Present and Future" in the upcoming fall semester.

FROM JOHN A. JACKSON



John A. Jackson shown with a photograph of his late wife, Katie. Photograph by Dick Clintzman. Courtesy of Presbyterian Healthcare Foundation.

The following is an open letter from Mr. John A. Jackson, giving some of his life perspectives, his intent in supporting the Geology Foundation, and his broad goals for the new John A. and Katherine G. Jackson School of Geosciences. Mr. Jackson provided the letter to Bill Fisher and Mary Ann Rankin in Dallas, for publication in the *Newsletter*.

Dear Friends:

June 6, 2002

I am often asked what is the most important thing in my life. I always say there are two things—marrying Katie Graeter, and getting my degree in geology from the University of Texas. Katie was my partner, counselor, and best friend for 60 years. My degree in geology allowed me to pursue an exciting and rewarding career and to provide critical resources for our Nation.

I was born in Lufkin and sort of grew up in the oil fields of East Texas. I lost my father when I was three, but my mother was a saint who raised me well and instilled in me the virtues of integrity and honesty, values that always served me well in life and in my career.

After graduation in 1940, I worked for Arkansas Fuels, but soon the War broke out and I enlisted in the U.S. Navy. Before long, the President realized the Nation did not have access to the aluminum ore necessary to construct the planes and equipment of war. Bill Wrather, Director of the U.S. Geological Survey at the time, needed geologists with experience in core drilling. Under the War Services Act of December 1941, the President could assign people wherever needed, and I soon found myself attached to the USGS with a War Service appointment running core rigs in the bauxite district of Arkansas. It was with this drilling effort that we determined that the nepheline syenite formed buried hills and the weathered product, bauxite, was transported to the topographic lows. We were able to map the ore bodies and the buried hills in great detail, and the information was later published as a professional paper.

I tell the experience of the bauxite fields not only because it was important in the war effort, but because the geological ideas I developed there I carried to Wise County a decade later. As geologic fate would have it, I determined that the Bend Conglomerates—the principal gas reservoirs—were the product of buried hill erosion. In working leases I started to drill not on structure as everyone then did, and a lot of people still insist on doing today, but off structure in the lows and along flanks of the hills. We discovered a lot of natural gas in Wise County, some from reentering previous dry holes, with these geological concepts; in fact, the wells we drilled in the 1950's are still producing

today, and the giant Boonsville field has yielded trillions of cubic feet of gas. In my opinion, the field, as well as the entire Fort Worth Basin, still has lots of remaining potential.

So, the resources of the Earth have been good to me and played a major role in what Katie and I were able to achieve. Geology was, and still is, very important to me, and so I have long stayed in touch with The University of Texas, the source of my geological training. I joined the Advisory Council of the Geology Foundation in 1975 and continue today as an Honorary Life Member. I have the utmost respect for that organization and the many fine geologists who have served on the Council. I have often said that of all the boards on which I have been involved, the Geology Foundation Council is, by far, the best. Through the years, Katie and I were able to support a number of fellowships and other endowments in the Foundation, and it has long been my intent to leave the bulk of my estate to the Foundation. I explained all this to Foundation Director Bill Fisher and showed him my will to that effect back in 1991 in a meeting he and I had in Dallas at the Hyatt Regency Hotel.

Although the bulk of my estate has long been dedicated to the Geology Foundation, Katie and I decided we wanted to do some things during our lifetimes. So when Bill Fisher and Peter Flawn indicated that the Department was in desperate need of additional space, Katie and I were happy to provide \$15 million to get the job done, or as Katie liked to say, "get the show on the road." Shortly afterward I lost Katie, but not her spirit of getting things done, and so I immediately began working with the people at The University to put together a major School of Geosciences. This was an idea of the Geology Foundation Advisory Council for many years, and I realized that I was in a position to make it happen, and so we did. I was very pleased that the Board of Regents, upon President Larry Faulkner's recommendation, named the school for Katie and me.

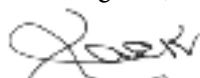
I want the John A. and Katherine G. Jackson School of Geosciences to be among the top five geological schools in the Nation and a premier place to study geology. So I provided the School with an initial endowment of \$25 million that, along with other assets of the Geology Foundation, built up over nearly 50 years, gets us well under way.

Just this February I decided that Dean Mary Ann Rankin, School Director Bill Fisher, and the people of the new Jackson School needed to be in a position to do some long-term planning, and with that I announced my intent to leave the residue of my estate to the Foundation and the School. We currently estimate the residue of my estate to be between \$150 million and \$200 million, figures that I indicated in my letter to Dr. Faulkner informing him of my intentions. I have also stated that eventually the residue of my estate could be as much as \$300 million, but that depends on the future of stocks and other investments I hold, and also—and this is important, as any petroleum geologist will understand—on the future price of natural gas from the royalties I hold in Wise County.

I am told that the eventual endowment of the School will be the largest in the Nation, by far. That is good, but it will only be as good as the ideas and concepts the people of the School develop and pursue. I have confidence in them—I always have. Katie and I never looked upon ourselves as philanthropists—but rather as investors. In this case, we are investing in the future of a countless number of people at The University of Texas at Austin, who will study and will continue to learn of the geology, the earth sciences, and the resources and the environment of the Earth. I know of nothing more worthwhile.

So now, as Katie would say, "Let's get the show on the road."

Best regards,



John A. Jackson

Dallas, Texas

Jackson School of Geosciences Chartered and Geology Foundation By-Laws Revised

The Charter for the John A. and Katherine G. Jackson School of Geosciences was approved by the Dean of the College of Natural Sciences and the Provost and Executive Vice President on September 26, 2001. Revised By-Laws and Procedures of the Geology Foundation Advisory Council and the Geology Foundation Executive Committee were approved by the Geology Foundation Advisory Council on September 28, 2001, during their regular fall meeting. The By-Laws and Procedures were last revised in 1983.

Under the By-Laws and Procedures, the stated purposes of the Council "are to promote the recognition, welfare, and progress of the John A. and Katherine G. Jackson School of Geosciences, The University of Texas at Austin, and to encourage financial support of the Geology Foundation."

Under the revised By-Laws, the Geology Foundation Executive Committee replaces the previous Faculty Review Committee. The Executive Committee is chaired by the Director of the Foundation and includes the Chairman of the Department of Geological Sciences, the Director of the Bureau of Economic Geology, the Director of the Institute for Geophysics, and, as ex officio, the Director of the Jackson School of Geosciences. The Director of the Foundation is appointed

by the Dean of the College of Natural Sciences, after consultation with members of the School and members of the Geology Foundation Advisory Council, and reports to the Dean of the College of Natural Sciences.

Under the School Charter, the School is governed by a Steering Committee chaired by the School Director and consists of the Chairman of the Department of Geological Sciences, the Director of the Bureau of Economic Geology, and the Director of the Institute for Geophysics. In addition, the head of each component selects a member from their respective units, subject to approval by the Dean of the College of Natural Sciences; they serve 3-year terms. The Dean of the College of Natural Sciences, in consultation with the School Director and Steering Committee, has the option of appointing two additional members to the Steering Committee. The Director of the Geology Foundation serves on the Steering Committee, as ex officio. The Director of the School is appointed by the Provost, upon recommendation of the Dean of the College of Natural Sciences, in consultation with members of the School, or appropriate committees representing them, and the Geology Foundation Advisory Council.

Fisher Named First Director of the John A. and Katherine G. Jackson School of Geosciences

In September 2001, Dean Mary Ann Rankin of the College of Natural Sciences announced the appointment of veteran educator William L. Fisher as the first Director of the new Jackson School of Geosciences. Fisher also continues as the Leonidas T. Barrow Chair and Professor in the Department of Geological Sciences, as well as Director of the Geology Foundation, and as Senior Research Scientist with the Bureau of Economic Geology.

Dr. Fisher joined the University in 1960 as a Research Scientist with the Bureau of Economic Geology. He served as Director of the Bureau from 1970 to 1994, except for a leave in 1975-77, when he served as Assistant Secretary of Energy and Minerals in the Department of Interior. He was appointed Professor in Geological Sciences in 1969, serving as Department Chairman from 1984 to 1990. He came to the Department full time in 1994 and is currently actively involved in teaching and graduate student supervision.

NEWS OF THE NEW BUILDING

By the time you read this, construction of the new 60,000-square-foot addition to the John A. and Katherine G. Jackson Geological Sciences Building will be nearly complete. In the spring semester of 2003, the Department of Geological Sciences will be holding classes in new state-of-the-art classrooms and conducting research in efficiently organized work groups designed to foster creativity and interaction. The top floor of the new addition will provide a fitting and permanent home for the Geology Foundation and the administrative heart of the new Jackson School of Geosciences. The building will stand as a tangible and enduring tribute to the Jacksons' vision for the geosciences at The University of Texas at Austin.

Plans are currently under way for a celebration to honor both the 50th year of the Geology Foundation as well as the dedication of the new building. We will provide details to everyone as the date draws near. Come celebrate with us!



Exploration Geophysics Initiative: 2002 Update

by Robert H. Tatham

The Exploration Geophysics Initiative, established by the Geology Foundation, has matured into a true, focused program with involvement of elements of the Jackson School of Geosciences and the petroleum industry.

The "Exploration Geophysics Initiative," established by the Geology Foundation in 1999, continues to gain momentum as it has evolved into a focused program with petroleum industry involvement and a cooperative program. In particular, the program hosts an annual technical symposium addressing a current technical issue, that provides industry feedback and cooperation with other academic institutions, and direction for graduate student research projects. This year's symposium, held at the Bureau of Economic Geology in January, focused on "New Directions in AVO" with active participation by about 70 scientists. This was the most successful symposium sponsored by the Exploration Geophysics Program to date, and actually led to the definition of research projects for participating graduate students. Earlier symposia included the kick-off for the Exploration Geophysics Program in 1999, and addressed "The Future of Exploration Geophysics: Meeting the Needs of Industry and Academia," and the second addressed the topic of "Seismic Estimation of Reservoir Seals," one of the least determined factors in evaluating exploration drilling risk.

Dr. Robert J. Ferguson joined the faculty as an Assistant Professor in Fall 2001, and is now an active teaching and research member of the Exploration Geophysics Program. Dr. Ferguson completed his Ph.D. at the University of Calgary in January of 2000 and worked for nearly 2 years with Chevron Research in San Ramon, California. One of the primary objectives of the Exploration Geophysics Initiative was to add two new faculty members. With Dr. Tatham joining the faculty in 1999 and Dr. Ferguson in 2001, this objective has been fully realized.

Students continue to join the program at both undergraduate and graduate levels. Graduate student research is maturing, and summer internships with industry are a routine feature of our graduate students' experience. The Exploration Geophysics Fellowship continues to be a major incentive for recruiting new graduate students. For the 2002-2003 academic year, the fellowship was awarded to Patricia Yu, a resident of Bartlesville, Oklahoma, and a graduate of UC-Berkeley. Other awardees have included Jason Gumble, a graduate of Colorado School of Mines, and Matt Morris, a graduate of the University of Missouri-Rolla. This fellowship of \$20,000, plus \$2,000 for discretionary research and travel, is administered by the Geology Foundation and awarded to a first-year graduate student.

The EDGER (Exploration and Development Geophysics Education and Research) Forum continues to be a successful vehicle for industry involvement in the Exploration Geophysics Program. Support from industry is used to recruit and support graduate students and their research as well as some faculty research and activities that benefit all the members of the Forum—such as the annual technical symposium.



Left to right, Fred Hilterman, keynote speaker, Bob Hardage, and Bob Tatham.

The Forum focuses support on students who will ultimately be employable by industry. One technical project supported for the benefit of all members is the development of a database organizing publications of successful interpretation examples using multicomponent seismic data. Support includes undergraduate work-study students who will either go directly to work in the industry or continue their graduate studies in exploration geophysics.

Overall, the EDGER Forum provides an open platform for interaction between industry participants, between graduate students and the industry, and between academic groups working on common research problems. This is in addition to industry access to students, the research results of graduate students and faculty, and the other activities of the Forum.

One very tangible activity in the Exploration Geophysics Program is the 3D Seismic Interpretation Lab. Established with Geology Foundation support, the Lab consists of six state-of-the-art interpretation workstations. The focus of the Lab is a high-speed (1 gigabyte per second) storage area network attached to a disc server with 0.6 terabytes of storage. This allows students nearly instantaneous access to numerous 3D seismic data sets from any one of the interpretive workstations.

The Lab not only supports students studying exploration geophysics but also is open to all soft-rock geology students. Essentially all petroleum geologists will, at some point in their careers, find themselves in front of an interactive workstation examining 3D seismic data. This Lab is designed to support those students. In fact, most of the students routinely working in the Lab are petroleum geology students utilizing 3D seismic data in their thesis research. We anticipate that this trend will continue and ultimately include petroleum engineering students as well. Such integration of disciplines working with 3D seismic data is consistent with the industry trend of employing multidisciplinary work teams in nearly all aspects of exploration and development.

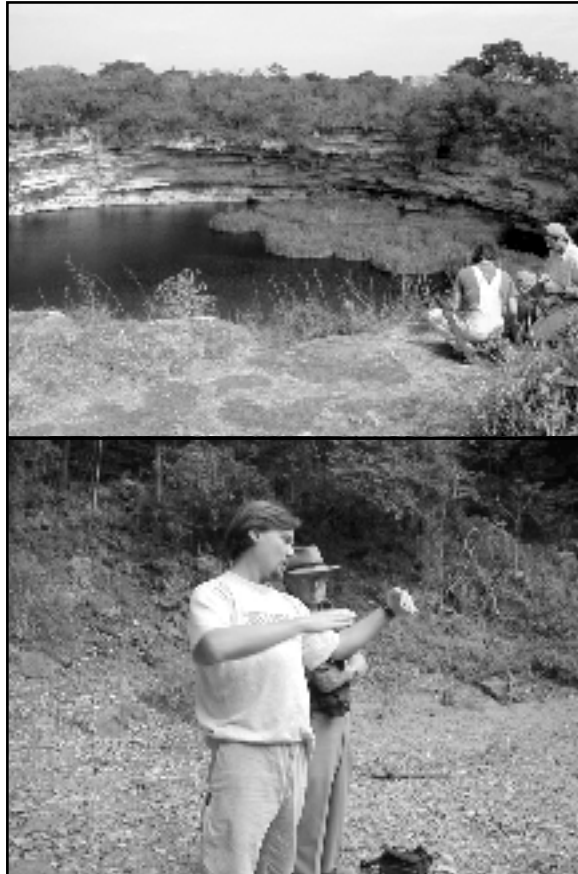
We anticipate that the Exploration Geophysics Program will continue to evolve and ultimately lead to something larger—such as a full-scale "Education Center of Excellence in Exploration Geophysics," here at UT-Austin. Students entering industry and continued research activities will increase the visibility and expand the vision of the Geology Foundation in establishing the Exploration Geophysics Initiative.

Field Research in Tamaulipas, Mexico, Works to Develop New Methods of Aquifer Mapping

by Marcus Gary

At the base of the Sierra de Tamaulipas in northeastern Mexico, possibly the deepest water-filled pit in the world, known as El Zacatón, has developed in Cretaceous carbonates next to a Pleistocene volcanic extrusion. A team of devoted cave-diving pioneers has been exploring this hydrothermal karst system for over 10 years, and even set a world record deep dive in 1994 when Jim Bowden, a University of Texas SCUBA diving instructor, dropped to nearly 1,000 feet below the water's surface. Marcus Gary, a team member for the deep effort and current graduate student in the Jackson School of Geosciences, was inspired by the unique hydrogeology of this amazing area and now strives to understand the geologic processes that formed such massive windows into the Earth's subsurface.

In January 2002, a group of explorers and scientists, including Jim Bowden and Marcus Gary as well as University of Texas geology professors Jack Sharp and Mark Helper, began mapping the sinkholes and caves of the area using state-of-the-art technology. We first had to survey the perimeter of each of the sinkholes. This was not as easy as one might think. The Sierra de Tamaulipas is known for its harsh vegetation, appropriately termed "Tamaulipas Thorn Forest."



TOP: Team members survey the edge of El Zacatón. The water here is at least 1,100 feet deep, but the bottom has not been located yet. Round floating grass islands move freely about on the water surface. Photo by Mark Helper.

BOTTOM: Marcus Gary explains the geologic history of the karst aquifer to his advisor, Jack Sharp. Photo by Robin Havens.

Almost every tree, shrub, and plant has some sort of prickly that can puncture the skin or create some sort of dermal reaction that is more than unpleasant. To complete the survey, areas were cleared of vegetation using machetes and saws. We all received our fair share of blisters. One other drawback of working in this area is the infestation of ticks. It was not uncommon for each of us to pull dozens off every day. But even with the less appealing qualities of this place, it is still very beautiful and mysterious.

Our camp is around the 350-foot-deep thermal pool (water is a pleasant 90 degrees Fahrenheit) called La Pilita. Here, unique biological mats coat the underwater walls of the sinkhole and possibly host sulfur-based ecosystems that could provide answers

to how life evolves in extreme environments. We spend the evenings going over the data collected that day and discuss theories as to how the sinkholes formed. Since this is only the first year of study here, there are many more questions than answers to explain the unique nature of El Zacatón and the surrounding aquifer. Many years of exciting research at The University of Texas are planned to help us understand this incredible system.

Outreach Lecture Series



Dr. Leon Long (left) answers questions after his outreach lecture on "The Geologic Wonders of Central Texas."

It's seven o'clock on a Friday night. What are all these people doing in Welch Hall?

The Outreach Lecture Series, sponsored by the Environmental Science Institute and the Department of Geological Sciences, is in full swing. Dr. Leon Long is educating and entertaining the standing room only crowd on the topic of "Geologic Wonders of Central Texas." Over 500 people—school teachers, students, and interested members of the community—have braved Austin's Friday night traffic and the infamous UT parking situation to attend one of the several outreach lectures presented this year as part of the series.

In addition to Dr. Long's presentation, the series also explored the topics of climate change, energy, myths about addiction, and black holes. The presentations this year were:

Energy: A Global Challenge, by Dr. William Fisher, Department of Geological Sciences; *Exploring Myths about Addiction*, by Dr. Carlton Erickson, College of Pharmacy; *Global Warming: Impacts on Wildlife and Society*, by Dr. Camille Parmesan, Section of Integrative Biology; and *Supermassive Black Holes: Galaxy Monsters*, by Dr. John Kormendy, Department of Astronomy.

This lecture series is designed for the public in general and for K-12 science teachers in particular. It is an opportunity for teachers to learn about the most current research in the sciences, long before it appears in textbooks. The purposes of this series are: 1) to disseminate information and teaching materials in the natural sciences to teachers from Central Texas school districts; 2) to inform the public about on-going science research at UT; and

3) to expose the public and students to areas in science they may not ordinarily encounter. The aim is not only to entertain but also to excite teachers and students into thinking beyond the established K-12 science curriculum. The teachers earn professional development credit for attending, and they receive a CD-ROM containing the lecture materials and supporting documents that can help them take the information back to their classrooms.

Webcasting of the lectures has recently been added to expand the reach of the series. Anyone with Internet access can download the PowerPoint images of the lecture and follow along with the audio stream. At the end of the lecture, the speaker answers questions submitted on-line.

More information on the Outreach Lecture series can be found at www.geo.utexas.edu/outreach/lectures.html.

Faculty Awards and Honors

During 2001-2002 several faculty members of the Department of Geological Sciences received awards, honors, and recognition:

Christopher J. Bell, Assistant Professor and John A. Wilson Fellow in Vertebrate Paleontology, was awarded the Dad's Association Centennial Teaching Fellowship by The University of Texas at Austin. This award is chosen by the Provost from a group of nominations provided by UT-Austin deans. This fellowship recognizes teaching excellence in those who are actively engaged in the instruction of freshman undergraduates.

In February 2002, **William D. Carlson**, Peter T. Flawn Centennial Chair in Geology, was designated as a Fellow of the American Association for the Advancement of Science (AAAS). According to the AAAS, the rank of Fellow is bestowed on scientists whose "efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished."

William I. Fisher, Leonidas T. Barrow Chair in Mineral Resources, Director of the Geology Foundation, and Director of the Jackson School of Geosciences, will receive the Don R. Boyd Medal for Excellence in Gulf Coast Geology, the highest honor of the Gulf Coast Association of Geological Societies (GCAGS). In addition, he received the Texas Independent Producers and Royalty Owners Association's (TIPRO) Hats Off! Award, given to public servants who distinguish themselves not only in their fields but also in service to royalty owners and independent producers. Dr. Fisher is the only person within academia ever to receive this award in its 50-year history. He also received the Houston Oil and Minerals Corporation Faculty Excellence Award at the Department of Geological Sciences Awards Ceremony on May 2, 2002.

Peter T. Flawn, Leonidas T. Barrow Chair Emeritus in Mineral Resources, received the Mirabeau B. Lamar Medal from the Association of Texas Colleges and Universities. This medal, named for the second president of the Republic of Texas who was known as the "Father of Education," has been awarded since 1977 to those who provide exemplary service to Texas higher education. In addition, he had a book published in March 2002, titled *Silver in the Sierra Madre—The Story of the Santa Cruz Mine and Philip W. Beckley*.

William E. Galloway, Morgan J. Davis Centennial Chair in Petroleum Geology, will receive Honorary Membership in the Gulf Coast Section of SEPM (Society for Sedimentary Geology) Also, for the second time, Dr. Galloway has been named the Roy M. Huffington Distinguished Lecturer for AAPG. He will lecture in Southeast Asia.

Robert K. Goldhammer, Elf Aquitaine Petroleum Faculty Fellow in Geological Sciences, was awarded the G. Moses and Carolyn G. Knebel Distinguished Teaching Award. The award is made for outstanding teaching and is decided by votes from graduate students and undergraduate geology majors. It carries a \$1,500 monetary award from the Geology Foundation, and was presented at the Department of Geological Sciences Awards Ceremony, held this year on May 2, 2002.

Mark A. Helper, Senior Lecturer, was awarded a Natural Sciences Teaching Excellence Award, created to recognize exceptional faculty within the College of Natural Sciences at The University of Texas at Austin.

J. Richard Kyle, Graduate Advisor and The Third Mr. and Mrs. Charles E. Yager Professor, chaired the Central Texas Section of the Society for Mining, Metallurgy, and Exploration (SME) in addition to beginning a tour as the Society of Economic Geologists' (SEG) Thayer Lindsley visiting lecturer.

Leon E. Long, The Second Mr. and Mrs. Charles E. Yager Professor, was awarded the Chancellor's Council Outstanding Teaching Award for 2000-2001. This award is given to a senior faculty member for a distinguished career in teaching at the undergraduate level. It is given to only one professor each year.

Earle F. McBride, J. Nalle Gregory Chair in Sedimentary Geology, along with Research Scientist Kitty Milliken and graduate student Suk-Joo Choh, won Best Poster at the AAPG Annual Meeting in Denver, Colorado, for their poster titled "Interactive Sandstone Petrology: A Digital Tutorial for Future Reservoir Geologists."

William R. Muehlberger, Peter T. Flawn Centennial Chair Emeritus in Geology, received a Distinguished Educator Award from the American Association of Petroleum Geologists (AAPG). This award is given "in recognition of distinguished and outstanding contributions to geological education."

Scott W. Tinker, Director of the Bureau of Economic Geology and Edwin Allday Chair in Subsurface Geology, was selected as one of six inaugural Distinguished Lecturers for the new SPE/AAPG/SEG Distinguished Lecture Program. He was also awarded a Distinguished Service Award by the West Texas Geological Society (WTGS).



Leon Long (right) accepts the Chancellor's Council Outstanding Teaching Award from UT President Dr. Larry Faulkner (left). Photo provided by Leon Long.

Flawn Receives Lamar Medal



Peter Flawn (left) accepts the Lamar Medal from UT Austin President Larry Faulkner.

Peter T. Flawn, President Emeritus of UT Austin and Honorary Life Member of the Geology Foundation Advisory Council, received the Mirabeau B. Lamar Medal from the Association of Texas Colleges and Universities in October 2001. The honor recognizes Flawn's life-long dedication to building the educational infrastructure of Texas.

Dr. Flawn joined the University in 1949 as a Research Scientist with the Bureau of Economic Geology. He was named Director of the Bureau and Professor of Geological Sciences in 1960 and served as Director until 1970. He served as Executive Vice President of UT Austin, then President of UT San Antonio, and in 1979 assumed the presidency of UT Austin, serving until 1985, and again as *ad interim* President in 1997 and 1998.

Dr. Flawn has also received the Cross Medal from Yale, the Campbell Medal from the American Geological Institute, and the Parker Medal from the American Institute of Professional Geologists. Last year he received the coveted Santa Rita Award from the UT Board of Regents.

Fisher to Receive Boyd Medal

At the annual meeting of the Gulf Coast Association of Geological Societies in Austin in October 2002, Bill Fisher will receive the Don R. Boyd Medal for Excellence in Gulf Coast Geology. The Medal was established by the GCAGS Board in 2000 to honor Don Boyd, an Honorary Life Member and Past Chairman of the Geology Foundation Advisory Council. Boyd was the first recipient of the Medal. It is the highest honor of GCAGS and is awarded for excellence in Gulf Coast geological

research, professional leadership, and oil and gas exploration. A recipient must be recognized in at least two of the three criteria listed for consideration.

Fisher has previously received the Powers Medal from the American Association of Petroleum Geologists, the Twenhofel Medal from SEPM (Society for Sedimentary Geology), the Parker Medal from the American Institute of Professional Geologists, the Campbell Medal from the American Geological Institute, and the Hedberg Medal from

the Institute for the Study of Earth and Man.

Scott Tinker's citation reads: To Bill Fisher, for his unselfish commitment to advancing the science of geology across government, industry, and academia; a man with unique combination of intelligence, energy, vision, and passion, who possesses the courage to take risks, regardless of the odds.

MUEHLBERGER NAMED DISTINGUISHED EDUCATOR



William Muehlberger

At the annual meeting of the American Association of Petroleum Geologists in March in Houston, William R. Muehlberger received the Distinguished Educator Award from the Association. Muehlberger joined the faculty of the Department of Geological Sciences in 1954 and retired from active teaching in 1992. He served as Department Chairman from 1966 to 1970.

Dr. Bill St. John, who served as Professor Muehlberger's citationist, noted that "Bill is well known for his work with the astronauts and their training, but it is as a teacher that he will be remembered and loved by the thousands of undergraduate

students he taught and the 59 M.S. and 25 Ph.D. students he supervised. Nowhere is the respect and admiration earned by William R. Muehlberger shown more strongly than by the support and contributions given by his students and friends to the William R. Muehlberger Field Geology Scholarship at UT."

His citation by Bill St. John reads: To William R. Muehlberger for five decades of dedicated and inspired teaching to thousands of earth sciences students, for application of an inquisitive mind not only to the earth around him but to the moon above, and for a role model for all.

Robert K. Goldhammer Receives Knebel Award

by James Sprinkle



Robert K. "Bob" Goldhammer

Bob Goldhammer is this year's winner of the G. Moses and Carolyn G. Knebel Distinguished Teaching Award in the Department of Geological Sciences. This award for outstanding teaching comes with a \$1,500 check from the Geology Foundation and a framed plaque. The winner is chosen each spring by a vote of Geological Sciences undergraduate majors and graduate students, the only departmental award chosen in this manner. Bob came to the Department of Geological Sciences in January 2001, as a new Assistant Professor after a 12-year career in industry, and it is a tribute to Bob's teaching ability that he won such a prestigious teaching award in only his second year here.

Bob is a field-oriented carbonate sedimentologist and sequence stratigrapher.

He is most interested in combining facies data from surface outcrops of thick carbonate sections with subsurface data sets, including seismic data, well logs, and cores, to work out the cyclic and sequence stratigraphy and the basin history of these rocks. He has worked in the Triassic of the Italian Dolomites, in the Early Ordovician of the Appalachians and Arbuckles, in the Cretaceous of east-central Mexico, and in the Tertiary of the Gulf of Mexico, and in offshore Angola, West Africa. Most of Bob's work has industry applications to hydrocarbon exploration. He has been busy this first year trying to secure funds from industry sources for prospective student research projects.

Bob teaches the graduate GEO 383M course, Petrography of Carbonates, in the fall, usually to 12 to 14 students. In the spring, he team-teaches with Earle McBride the carbonates half of GEO 416M, our sophomore-level sedimentary rocks course with 70 to 80 geoscience majors and petroleum engineers, along with the graduate GEO 383N, Carbonate and Evaporite Facies and Stratigraphy. The student course evaluation ratings for both the undergraduate and graduate courses in Bob's first year have been very good to excellent, with the undergraduate course ratings almost as high as the graduate ratings, a very unusual occurrence.

In class, Bob is very well organized with handouts for the students and overheads summarizing the course topics to be covered, along with Landsat and aerial photographs of field areas, enlarged photos of thin sections, and long seismic and cross sections tacked up on the chalkboard. He uses humor to keep the students engaged and encourages them to keep coming to class and doing their best. He also emphasizes his industry experience and how the course material could help them in an industry job. Last spring, he even offered to take the best students from the undergraduate course on an all-expense-paid industry field trip to Mexico after the semester ended. No wonder he's so popular in this required undergraduate course.

Bob has led field trips for his two graduate courses to look at both ancient and modern carbonates, and recently he spent a weekend showing a long continuous section in the Arbuckle Mountains of Oklahoma to a new Master's student who was starting a field project. Bob has also led many industry and AAPG-SEPM field trips to field areas he had studied in West Texas, in Oklahoma, in Mexico, and elsewhere.

Bob grew up in Massachusetts, went to school at Colgate for his B.S. in 1979, continued at the University of Oklahoma for an M.S. in 1982, and got his Ph.D. at Johns Hopkins University in 1989, working with Lawrence Hardie on sedimentary cycles in the spectacularly exposed Middle Triassic carbonates in the Dolomites of Northern Italy. Bob then worked for 12 years in industry, including 7 years for Exxon, 2 years as a consultant, and several years for Texaco, before coming here to Texas in 2001.

We congratulate Bob Goldhammer for being the overwhelming students' choice for this year's Knebel Teaching Award.

New Faculty

Robert J. Ferguson

Joining the Department on September 1, 2001, was Robert J. "Rob" Ferguson, in the area of Exploration Geophysics. He will be assisting in the instruction of "Geology of Engineering," "Computational Methods," and "Research in Geophysics." Prior to joining our faculty, Rob was a Lead Research Scientist at Chevron in San Ramon, California, working in the Seismic Imaging Group.

Rob received his B.Sc. in Geophysics from the University of British Columbia in 1989, and his M.Sc. (1996) and Ph.D. (2000) in Geophysics from the University of Calgary. He is a member of the American Geophysical Union, Canadian Society of Exploration Geophysicists, European Association of Geoscientists and Engineers, and Society of Exploration Geophysicists. He is also a former member of the American Federation of Musicians.

Recently, Rob and his wife Corrine celebrated the birth of a daughter, Giselle Kayla, and have just purchased their first home in Austin.



Robert J. Ferguson

Zong-Liang Yang

Dr. Zong-Liang Yang joined our faculty as an Assistant Professor on September 1, 2001, as part of the Department's New Direction program in Global/Environmental Geosciences.

Already involved in an active research program in Tucson since 1993, Liang brought with him Dr. Guo-Yue Niu as a Post-Doctoral Fellow. Together they have been working on global climate modeling, and in particular quantifying the effects of sub-grid-scale topography and vegetation on seasonal snow cover as it relates to snowmelt and runoff. Liang's new grant proposal, "Parameterization of snow cover fraction in climate and weather prediction models," has recently been funded by the NASA/NOAA GAPP Program for \$375,000. Liang taught an introductory course, "Living with a Planet," last fall, and started a graduate course, "Hydroclimatology," the past spring. He will open a new introductory course, "Climate Change: Past, Present and Future," in the fall.

Yang received his B.S. with Honors in Meteorology from Nanjing Institute of Meteorology, his Diploma in English in 1985 from the Shanghai Institute of Foreign Language, his M.S. with Honors in Meteorology from Melbourne University in 1989, and his Ph.D. in Physical Geography/Atmospheric Sciences from Macquarie University. He is a member of the American Geophysical Union and the American Meteorological Society. Liang's wife and two children will join him in Austin this summer, as soon as she finishes her M.S. in Tucson.



Zong-Liang Yang

BIOGRAPHICAL SKETCHES OF DECEASED FORMER FACULTY

Brief biographical sketches of former faculty members who retired from teaching at UT-Austin are given on the departmental Web site at www.geo.utexas.edu/in_memory/index.html. Information for the sketches was obtained from University memorial resolutions, which were written by a small committee of faculty colleagues of deceased faculty members, memorials that appeared in geological journals, departmental records, and recollections of present faculty and faculty emeriti. The sketches were edited by Earle McBride.

UT-Austin Exes at Helm of AAPG

As Robbie Gries (M.A., 1970), Geology Foundation Advisory Council Member, leaves the office of President for AAPG (the first woman ever to serve in the position), she is followed by three prominent Texas Exes. Dan Smith (B.S., 1958), who served last year with Robbie as President-Elect, assumed the Presidency in July. Charlie Mankin (B.S., 1954; M.A., 1955; Ph.D., 1958) begins the second year of his term as Secretary and Paul Weimer (Ph.D., 1989) starts his first year of his 2-year term as Treasurer.

These 4 Exes join 13 others who have served on the Executive Committee previously, some in more than one office, including Dick Bloomer, Don Boyd, Toby Carleton, Ben Carsey, Morgan Davis, Will Green, J. R. Jackson, Moses Knebel, Susan Longacre, Harry Miller, George Pichel, Ken Seewald, and Ed Turner. Several other members of the Geology Foundation Advisory Council as well as faculty and staff have also served on the Executive Committee of one of the finest geological organizations in the world.

Charles Weiner Named Legendary Oilman

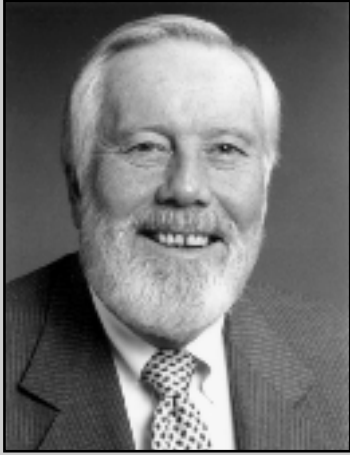
Charles Weiner (B.A., 1948), member of the Geology Foundation Advisory Council, was awarded the Colonel Edwin L. Drake Legendary Oilman Award by the Drake Well Foundation at its semi-annual Oil History Symposium on June 22, 2001, in Oil City, Pennsylvania. This award is given to recognize and honor the life-long contributions and achievements of those in the oil industry.

Charles Weiner was one of the founding partners of the Texas Crude Oil Company in 1941 and became the Chief Operator in 1962. Currently he is Chairman of Texas Crude, Inc. He, along with his brothers, helped to pioneer the development of under-balanced drilling completion techniques using hydraulic fracturing, the initial design and development of jack-up and semi-submersible drilling rigs, and drilling with hydraulic drilling efficiency.

In 1967, Texas Crude Oil Company merged, along with other drilling companies, into The Fluor Corporation. Then, in 1969, Charles Weiner became a member of the Board of Directors for the Fluor Corporation and served until he resigned in 1994. Texas Crude and, later, the Fluor Corporation participated in thousands of wells, both wildcat and development, and over 180 oil and gas discoveries all around the world.

Mr. Weiner is still active in oil and gas development along with wildcat exploration. He is a Certified Petroleum Geologist, a member of the American Petroleum Institute, and the American Geophysical Union, a Trustee Associate of the American Association of Petroleum Geologists Foundation, and a member of the Society of Petroleum Engineers, the Geological Society of America, the American Institute of Professional Geologists, and the American Geological Institute, as well as other professional organizations. He is also a member of the President's Associates as well as the Geology Foundation Advisory Council at The University of Texas at Austin.

David Dunn to Receive GSA's Distinguished Service Award



David Dunn.
Photo provided by Sharon Mosher.

David Dunn (Ph.D., 1964) will receive GSA's Distinguished Service Award for his significant contributions to the Geological Society of America at its annual meeting in Denver this fall. Dunn just stepped down as GSA's Treasurer, a post he held with distinction for 9 years. During this time he served with three executive directors and provided much needed financial continuity at the leadership level. Dunn has a long history of contributions to GSA, including being chair and a founding member of the Structure and Tectonics Division, GSA's largest division, and serving on numerous committees. Dunn now serves as a member of the GSA's Foundation Board of Trustees and brings his wide experience with GSA's finances to the Investment committee. Dunn recently retired as Dean of Natural Sciences and Mathematics at The University of Texas at Dallas. Dunn is an active UT Austin alumnus and was instrumental in the formation of the Muehlberger Field Geology Scholarship Fund to honor his Ph.D. supervisor on his retirement.

In Memoriam:

ANNE EGDORF BLOOMER

Anne Egdorf Bloomer passed away at the age of 71 on May 19, 2002, in Austin, Texas. She was born on September 30, 1927, in Wichita Falls, Texas, to Dr. Otto Charles and Kathleen Egdorf. She went on to attend the University of Texas, and graduated in 1948 with a B.A. in geology. She was also a member of Delta Delta Delta sorority. She was married on June 7, 1948, to Dr. Richard R. Bloomer at the University of Virginia. The couple relocated to Abilene in 1952, where they opened an office as independent petroleum geologists. They retired and came to live on the shores of Lake Travis in 1992.

Mrs. Bloomer was a member of the American Association of Petroleum Geologists, The National Society of Colonial Dames XVII Century, and the Daughters of the American Revolution, and was a sustaining member of the Junior League. Dr. and Mrs. Bloomer were also members of UT Lamp, Chancellor's Council, and the University of Texas Littlefield Society.



Anne Egdorf Bloomer.
Photo provided by Richard Bloomer.

She is survived by her husband, Richard Bloomer, a member of the Geology Foundation Advisory Council and former Chairman of the Council; daughter Carol and husband William Nelson; son Charles and wife Lisa; and four grandchildren, Caroline and Laura Nelson and Lindsey and Richard Bloomer.

In Memoriam:

LAURA BROOKS FLAWN, M.D.

Dr. Laura Brooks Flawn, daughter of President Emeritus Peter T. Flawn and Priscilla Flawn, was killed in a highway collision on October 20, 2001. She was an orthopaedic surgeon specializing in diseases of the spine and spine trauma, and she was a member of the Scoliosis Research Society. A graduate of The University of Texas at Austin and The University of Texas Health Science Center at San Antonio, Dr. Flawn did her residency and a fellowship at the Hospital for Special Surgery in New York. In Austin, she practiced with the Austin Orthopaedic Clinic.

She is survived by her parents, her sister, Tyrrell Flawn of Washington, D.C., daughter Priscilla Flawn-Chopp, and son, Thomas Flawn-Chopp. The Laura B. Flawn, M.D. Endowment has been established at the Marine Science Institute to assist students working on problems of the Texas Coast. The Laura B. Flawn, M.D. Lectureship in Diseases of the Spine and Spine Trauma has been established at The University of Texas Health Science Center at San Antonio.



Laura Brooks Flawn, M.D.
Photo provided by Peter Flawn.

In Memoriam:

CLAUDE WENDELL HORTON, SR.

By Dr. Wendell Horton

Claude Wendell Horton, Sr., age 86, of Austin died March 2, 2002.

Claude Horton was born in Cherryvale, Kansas, on September 23, 1915, to Marie Terwilliger Horton and Roy Wesley Horton. He received a B.A. from Rice University in 1935 and an M.A. from Rice in 1936. He worked as an Assistant Seismologist and Party Chief for Shell Oil from 1936 to 1943 and as a Research Assistant at the Harvard Underwater Sound Laboratory from 1943 to 1946. He received his Ph.D. from the University of Texas, Austin, in 1948, became an Associate Professor of Physics at UT in 1950 and Professor in 1953. He was Chairman of the Physics Department from 1956 to 1964. He was also a Professor in the Department of Geology at UT and a Research Scientist at the Applied Research Laboratory (formerly Defense Research Laboratory). He was a Fellow of the Acoustical Society of America and the American Physical Society. He received the Pioneers of Underwater Acoustics Medal from the Acoustical Society of America in 1980.

At the University of Texas he supervised 27 Ph.D. and 30 M.A./M.S. students. Among his students were leaders of the growth of science



Claude Wendell Horton, Sr.
Photo provided by Dr. Wendell Horton.

and technology in Austin, including Chester McKinney and Loyd Hampton, former directors of the Applied Research Laboratory, Richard Lane, founder of Tracor, and James Truchard, a co-founder

of National Instruments. While a broad range of topics is represented in his publications and patents, the underlying theme is that of the detection and signal processing of scattered sound waves and electromagnetic waves. Several early works were classified by the U.S. Navy, which also sponsored his writing a book, *Signal Processing of Underwater Acoustics Waves*, published in 1969.

He married Louise Charlotte Walthall on November 23, 1938, in Houston. He is survived by his wife Louise, a writer and artist;

his son Wendell Horton and wife Elisabeth; and his daughter Margaret Elaine Morefield. He is also survived by his grandson John W. Horton and his wife Johauna of Santa Barbara, California, and their children Jaclyn, Jayna, and Joseph, and his grandson Mike A. Horton and his wife Melissa of Santa Clara, California.

In Memoriam:

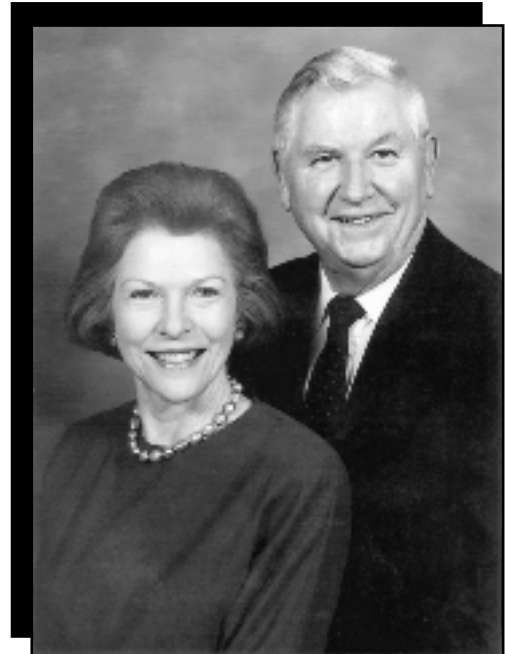
BILL R. PAYNE

Bill R. Payne passed away on August 10, 2001, in Houston, Texas, at the age of 84. He was born January 14, 1917, in Milam County, Texas. He moved with his family to San Benito/Harlingen, Texas, in 1926 and graduated from Harlingen High School in 1933. He then enrolled in the University of Texas, Austin, and received both a B.A. (1940) and an M.A. (1941) in geology. He joined the U.S. Navy and Midshipmen School in New York City and received a commission as Ensign in January 1942 and was assigned to the South Pacific. He was released from the Navy in 1946, was commissioned as a Lieutenant Commander, and remained in the Naval Reserves until 1954.

He was married to Joyce Florence Bowman in 1943. In 1946 he was hired by Humble Oil and Refining Company and worked in South Alabama doing surface geology. He then moved to Houston and continued to work for the same company under its many names.

Bill was a member of the Houston Geological Society and the American Association of Petroleum Geologists for over 50 years. In addition he was a member of many oil industry groups throughout his life, including the Texas Mid-Continent Oil and Gas Association, the New Mexico Oil and Gas Association, and the American Petroleum Institute. In addition he was very interested in academics at The University of Texas at Austin and was a charter member of the Littlefield Society. He established a Teaching Fellowship in honor of his first wife, Joyce Bowman Payne, and the Board of Regents at The University created a matching grant, the Bill R. Payne Centennial Teaching Fellowship.

He is survived by his wife, Laune Hecht Payne and children, John and wife Rose; Marianne and husband Gardner Parker; and Tom and wife Pamela; as well as by grandchildren Mason and wife Robin, Frannie and Natalie Parker, and Austin and Ross Payne; and a sister, Frances Payne.



Bill and Joyce Payne.
Photo provided by John Payne.

Staff Awards and Honors



Both **William “Bill” Woods**, Executive Assistant, and **John Lansdown**, Research Scientist Associate, received the Distinguished Service Award at the Department Awards Ceremony held May 2, 2002, in GEO 100. The award is made by the Department for the most outstanding contribution to the facilities or operations of the Department throughout the previous year. The winner is evaluated based on nominations from faculty, staff, and students and is chosen by the Foundation Executive Committee.



Alice Dewberry, Office Assistant, and **Carol Russell**, Library Assistant II, in the General Libraries both received the Thelma Lynn Guion Geology Library Staff Award. This award is given to recognize excellent performance by staff members of the Joseph C. Walter, Jr. and Elizabeth C. Walter Geology Library.



We also want to offer our congratulations to **Joseph Jaworski** and **Philip Guerrero**, both of whom received The University of Texas at Austin Service Awards for 15 years of service. They were recognized at the Department Awards Ceremony on May 2, 2002, where they each received a certificate for the number of years of their service.



FROM TOP:
Bill Woods,
John Lansdown,
and Carol Russell.

LEFT TO RIGHT:
Alice Dewberry,
Philip Guerrero,
and Joseph Jaworski.

SPEAKERS—

FACULTY AND STAFF IN THE DEPARTMENT OF GEOLOGICAL SCIENCES

FALL 2001

Robert J. Ferguson

“Grafting Time Migration onto Shallow Depth Migration: Fixing a Statics Problem in the Norwegian Sea”
October 18, 2001

William L. Fisher

“Energy: A Global Challenge”
October 12, 2001

Robert L. Folk

“Pathologic Calcium Diagenesis within the Human Body... Arterial Disease, Kidney Stones, Cataracts... Nannobacteria Declared Guilty!”
November 26, 2001

William E. Galloway

“The Many Faces of Submarine Erosion: Theory Meets Reality in Selection of Sequence Boundaries”
October 8, 2001

Robert K. Goldhammer

“Chaos in El Paso”
September 13, 2001

Richard A. Ketcham

“Past and Future Applications of High-Resolution CT to Problems in Fluid Flow”
October 19, 2001

James N. Connelly

“The Other Side of the Table: GSA Grant Proposals”
January 17, 2002

Wulf A. Gose

“Regional and Global Applications of Paleomagnetism: Results from Venezuela and South Africa”
April 24, 2002

Leon E. Long

“Geologic Wonders of Central Texas”
March 22, 2002

Randall A. Marrett

“Random Adventures with Discrete Phenomena”
January 29, 2002

SPRING 2002

Mark P. Cloos

“Plate Tectonic Controls on Porphyry-Cu Mineralization”
February 6, 2002

Zong-Liang Yang

“Use and Abuse of Climate Models for Impact Studies”
February 5, 2002



Jim Irwin and Dave Scott (left to right) on the rim of the Rio Grande Gorge, near Taos, New Mexico, during a field exercise designed to simulate their Apollo 15 lunar travers along the rim of Hadley Rille. The lower part of the gorge is the same size as Hadley Rille: 1 mile across, 600 feet deep; both are cut in lava flows—one by a river of water, the other by a river of lava. NASA photo S-71-23469, March 1971. Photo provided by William Muehlberger.

Endowed Lecturers

Fall 2001

Lee F. Krystinik
Litho-Logic, Ltd.
Fort Worth, Texas

*Don R. and Patricia Kidd
Boyd Lectureship in
Petroleum Exploration*

*"Finding Subtle
Traps using Sequence
Stratigraphic and
Synsedimentary Tectonic
Analysis, Almond
Formation, Southwest
Wyoming"
November 28, 2001*

*"Hunting Fractures 5 km
Down: Integrated
Reservoir Geology to
Site Horizontal Wells,
UPR/DOE Rock Island
4-H Well, Southwest
Wyoming"
November 28, 2001*

*"Sequence Stratigraphic
Variability in Foreland
Basins, an Example
from the Cretaceous
Western Interior Seaway
of North America"
November 28, 2001*

Ronald J. Steel
Department of Geology
and Geophysics
University of Wyoming
Laramie, Wyoming

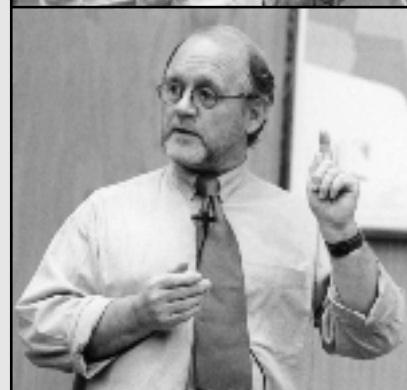
*Judd H. and Cynthia
Oualline Centennial
Lecturer in Petroleum
Geology*

*"Space-Time Relationship
of Sandbodies in
Deepwater Lowstand
Complexes, Barremian
and Eocene Spitsbergen"
November 12, 2001*

*"Shelf Deltas: Their Role
in Sediment Delivery
to Shelf Margins and
Deepwater Basins,
Examples from
Eocene, Spitsbergen"
November 13, 2001*

*"Unusual Features of
a Wave Ravinement
Complex in a High-
Sediment Supply
Deltaic System, Ebro
Basin, NE Spain"
November 14, 2001*

*"High-Resolution
Regression and Trans-
gression of Shoreline
Tongues (Cretaceous
Western Interior Basin),
and Response in Updip
Fluvial Successions"
November 15, 2001*



TOP: Lee Krystinik, Litho-Logic, Ltd., Fort Worth, Texas.

BOTTOM: Ronald Steel, University of Wyoming, Laramie, Wyoming.

Spring 2002

John M. Armentrout
Cascade Stratigraphics
Clackmas, Oregon

*Don R. and Patricia Kidd
Boyd Lectureship in
Petroleum Exploration*

*"Glaciomarine Stratigraphy
of the Neogene Yakatage
Formation, Gulf of Alaska"
April 22, 2002*

*"Seismic Sequence Stratig-
raphy: Rediscovery of
Stratigraphic
Fundamentals"
April 23, 2002*

*"A Positive Perspective on
the Future of Petroleum
Geology and the
Petroleum Industry"
April 24, 2002*

*"Application of Biostratigra-
phy to Sequence
Stratigraphic Analysis
of Basin History"
April 25, 2002*

*"Tectonic Controls on
Neogene Turbidite
Systems, Offshore
Nigeria"
April 25, 2002*

F. Grant Ferris
Department of Geology
University of Toronto
Toronto, Ontario, Canada

*Judd H. and Cynthia
Oualline Centennial
Lecturer in Geological
Sciences*

*"Microscopic to
Macroscopic Perspectives
on Microbial Mineral
Formation"
February 13, 2002*

*"Carbonate
Biom mineralization and
Geomicrobiology"
February 13, 2002*

*"Behavior of Bacteria
as Geochemically
Active Solids"
February 14, 2002*

Edward M. Stolper
Department of Geological
and Planetary Sciences
California Institute
of Technology
Pasadena, California

*Edwin Allday Lectureship
in Geological Sciences*

*"Results of the Hawaii
Scientific Drilling Project"
April 2, 2002*

*"A Simple Analysis
of Adiabatic Mantle
Melting"
April 3, 2002*



TOP: John Armentrout, Cascade Stratigraphics, Clackmas, Oregon.

MIDDLE: Grant Ferris, University of Toronto, Toronto, Ontario, Canada.

BOTTOM: Ed Stolper, California Institute of Technology, Pasadena, California.

Visiting Speakers

Fall 2001

Jorge Aranda-Gomez

Universidad Autonoma de Mexico
"Synextensional, Plio-Pleistocene Eruptive
Activity in the Camargo Volcanic Field,
Chihuahua, Mexico"
October 3, 2001

"Tectonomagmatic Evolution of the Mexican
Portion of the Basin and Range Province
(Eocene-Present): A Review"
October 4, 2001

Carlton K. Erickson

College of Pharmacy
The University of Texas at Austin
Austin, Texas
"Exploring Myths About Addiction"
November 16, 2001

Paul M. "Mitch" Harris

Chevron
Houston, Texas
"Geological Framework of the Tengiz
and Korolev Fields, Kazakhstan—
Carboniferous Isolated Carbonate Platforms"
"Stratigraphic Framework and
New Exploration Concepts for the
Lower Cretaceous Shelf Margin
Carbonates of Texas"
August 31, 2001

Donald Haynes

Retired Petroleum Geologist
"Geologic Assessment: From Field
Work to Sewer Line Trenches"
September 28, 2001

Richard E. Jackson

Duke Engineering and Services
(DE&S) Geosciences
Austin, Texas
"Performance Assessment of
Remediation of DNAPL Zones"
October 5, 2001

Robert H. Lander

Geocosm
Austin, Texas
"Exploring the Links Between
Quartz Cementation and Fracture
Formation in Sandstones"
September 18, 2001

W. Paul Mann

Institute for Geophysics
The University of Texas at Austin
Austin, Texas
"Tectonics of the Solomon Islands"
September 19, 2001

Kathleen Marsaglia

California State University at Northridge
Northridge, California
"Sand, Cycles, and Sea Level Change
in the Post-Messinian Section of the
Western Mediterranean Sea"
November 15, 2001

Paul E. Murray

Bureau of Economic Geology
The University of Texas at Austin
Austin, Texas
"Geophysics in the 21st Century:
Opportunities, Frontiers, and Careers"
November 19, 2001

Julie Newman

Texas A&M University
College Station, Texas
"Temperature-Stress-Strain Rate Path along
a Peridotite Shear Zone: Implications for
Dynamic Processes within the Upper Mantle"
November 14, 2001

Jeffrey G. Paine

Bureau of Economic Geology
The University of Texas at Austin
Austin, Texas
"Hydrogeological Applications of Airborne
Electromagnetic Induction Imaging"
October 23, 2001

R. Jay Pulliam

Institute for Geophysics
The University of Texas at Austin
Austin, Texas
"Development of a Broadband Ocean Bottom
Seismograph for Recording Earthquakes"
September 6, 2001

Jürgen Schieber

Department of Geology
The University of Texas at Arlington
Arlington, Texas
"Studying Shales for Fun and Profit"
"Of Mudstones, Microbes, and Mars"
October 15, 2001

Raymond Slade

U.S. Geological Survey
Austin, Texas
"Storms in the Hill Country in Central Texas"
October 12, 2001

Wighard von Koneigswald

Institut für Paläontologie der
Universität Bonn
Bonn, Germany
"Eocene Mammals from Messel, Germany:
Preservation and Biological Reconstruction"
October 15, 2001

Lesli J. Wood

Bureau of Economic Geology
The University of Texas at Austin
Austin, Texas
"Down to De Island Man: Tertiary
Clastic Depositional Systems of the
Southeastern Caribbean Margin"
October 1, 2001

Juliette A. Woods

Institute for Computational Mechanics and
Applied Mathematics
The University of Texas at Austin
Austin, Texas
"Modeling Mayhem: Salinity in Australia
and the Dubious Veracity of Models"
September 20, 2001

Spring 2002

Douglas Alsdorf

Department of Earth and Space Sciences
University of California at Los Angeles
Los Angeles, California
“Satellite Observations and
Modeling of Water Storage Changes
on the Amazon Floodplain”

April 11, 2002

Ronald Amundson

Department of Geology and Geophysics
University of California at Berkeley
Berkeley, California
“Paleoclimatic and Geochronological
Applications of Soil Carbonates:
What We Know and Don't Know”

February 28, 2002

James A. “Jamie” Austin

Institute for Geophysics
The University of Texas at Austin
Austin, Texas
“Planning for an Integrated, International,
Multi-Platform Scientific Ocean Drilling
Program: Where Do We Stand?”

February 7, 2002

Michael Brown

Department of Geology
University of Maryland
College Park, Maryland
“Migmatites and Leucogranites in Orogens:
Relationships and Consequences”

March 19, 2002

“Deducing Peak P-T Conditions
and the P-T Evolution of Ultra-High
Temperature (UHT) Metamorphic Rocks”

March 20, 2002

David Budd

Big 12 Faculty Fellow
Department of Geological Sciences
University of Colorado at Boulder
Boulder, Colorado
“Compaction of Carbonate Grainstones
and the Destruction of Permeability—
A Simple View of the Hole Truth”

January 28, 2002

Douglas A. Burns

Watersheds Research Section
U.S. Geological Survey
Troy, New York
“Methods for Age Dating Young
Groundwater: Applications in the
Georgia Piedmont and Catskill Mountains
of New York”

April 8, 2002

M. Bayani R. Cardenas

Department of Geosciences
University of Nebraska at Lincoln
Lincoln, Nebraska
“Inference of Three-Dimensional
Permeability Structure of Streambed
Deposits Based on Multi-Techniques”

February 22, 2002

Desmond Collins

Royal Ontario Museum
Toronto, Ontario, Canada
“Marine Communities of the
Burgess Shale”

March 7, 2002

Anthony Daus

Geomatrix Consultants
Austin, Texas
“A Water Crisis in Rural Brazil:
Responding to an Emergency”

March 22, 2002

Scott Engle

URS Corporation
Austin, Texas
“Large Scale Hydrological Investigation of
a Karst Groundwater System at Fort Knox,
Kentucky”

April 19, 2002

Graham E. Fogg

Department of Geology and Geophysics
University of California at Davis
Davis, California
“Plume Behavior in Heterogeneous
Geologic Systems: Natural Attenuation,
Remediation, and the Role of Diffusion”

March 1, 2002

Peter Furey

Department of Geological Sciences
University of Colorado
Boulder, Colorado
“Using Time Series of Streamflow and
Rainfall Data to Estimate Base Flow in
River Basins”

April 11, 2002

Thomas Gardner

Department of Geosciences
Trinity University
San Antonio, Texas
“The Caribbean Plate Margin in
Costa Rica: A Case of Yo-Yo Tectonics?”

February 21, 2002

Ivan Gill

Department of Geology and Geophysics
University of New Orleans
New Orleans, Louisiana
“Reefer Madness: Reefs, Coral Growth
and Six Millennia of Climate Records
from the Northeast Caribbean”

January 31, 2002

Brian K. Hornbuckle

College of Engineering
University of Michigan
Ann Arbor, Michigan
“Questioning Some Common Assumptions
about the Radiometric Sensitivity to
Soil Moisture at 1.4 GHz”

April 4, 2002

David W. Hyndman

Darcy Lecturer, National Groundwater
Education Foundation
Department of Geological Sciences
Michigan State University
East Lansing, Michigan

“Efficient Large-Scale Bioremediation in
a Heterogeneous Aquifer: The Schoolcraft
Bioaugmentation Experiment”

April 12, 2002

Robert S. Kier

Robert S. Kier Consulting
Austin, Texas
“Review of Proposed Groundwater
Monitoring Plan for the Industrial Waste
Unit at Austin Community Landfill”

January 25, 2002

John Kormendy

Department of Astronomy
The University of Texas at Austin
Austin, Texas
“Supermassive Black Holes:
Galaxy Monsters”
April 19, 2002

Lindsey Leighton

Department of Geological Sciences
San Diego State University
San Diego, California
“Exploring the Latitudinal Diversity
Gradient through Deep Time with an
Example from Productide Brachiopods”
April 19, 2002

Barbara Mahler

U.S. Geological Survey
Austin, Texas
“Surface Groundwater
Interaction in Karst”
April 1, 2002

David R. Maidment

Civil Engineering Center for
Research in Water Resources
The University of Texas at Austin
Austin, Texas
“GIS in Water Resources”
March 29, 2002

Peter J. McGoldrick

Centre for Ore Deposits Research
University of Tasmania
Hobart, Tasmania
“Australian Sediment-Hosted Base
Metal Deposits in Proterozoic Rift Basins:
Are They Giant Microbial Self
(S)-Sourcing Puddings?”
March 6, 2002

Michael A. Murphy

Department of Geosciences
University of Houston
Houston, Texas
“Raising Tibet”
January 23, 2001
“Tectonic Evolution of the Karakoram
Fault System and its Role in Segmentation
of the Himalayan Fold-Thrust Belt”
January 24, 2001

Wenge Ni-Meister

NASA – Goddard Space Flight Center
Greenbelt, MD
“Land Atmosphere Interaction
and Remote Sensing”
April 2, 2002

Jon E. Olson

Department of Petroleum and
Geosystems Engineering
The University of Texas at Austin
Austin, Texas
“A Geologist’s Guide to Explaining
Natural Fracture Phenomena
with Fracture Mechanics”
February 19, 2002

Camille Parmesan

School of Biological Sciences
The University of Texas at Austin
Austin, Texas
“Global Warming: Impacts
on Wildlife and Society”
January 25, 2002

Sylvia Pope

City of Austin Watershed Protection
Austin, Texas
“Dye Trace Attempts in the
Stillhouse Hollow Springs Area”
February 8, 2002

Rainer Senger

Duke Engineering and Services
Austin, Texas
“The GMT Experiment at the Grimsel
Test Site (GTS), Switzerland: Real-Time
Analysis and Visualization of Two-Phase
Flow Associated with Gas Migration
from an Engineered Barrier System”
March 8, 2002

Kerry E. Sieh

Division of Geological and
Planetary Sciences
California Institute of Technology
Pasadena, California
“Paleogeodesy of the Sumatran Sub-
duction Zone from Coral Micro-Atolls”
March 28, 2002

Rebecca C. Smyth

Bureau of Economic Geology
The University of Texas at Austin
Austin, Texas
“LIDAR River Water Elevation Data”
May 3, 2002

Stuart S. Sumida

Department of Geological Sciences
California State University
San Bernadino, California
“Late Paleozoic Terrestrial Vertebrate
Assemblages of Europe and North
America: Working Toward Better
Understanding of Early Permian
Biogeography and the Evolution
of the Terrestrial Ecosystems”
April 18, 2002

Andrew Weinberg

Bechtel S Corporation
Austin, Texas
“Isotope Hydrogeology in
the Developing World”
February 1, 2002

Michael L. Williams

Department of Geosciences
University of Massachusetts
Amherst, Massachusetts
“Small-Scale Applications with Large-
Scale Implications: New Uses of the
Electron Microprobe for Structural,
Metamorphic, and Tectonic Studies”
February 25, 2002
“Looping P-T Paths, Polymetamorphism,
and the Behavior of the Middle Crust:
Proterozoic Evolution of
Southwestern North America”
February 26, 2002

Alicia M. Wilson

Department of Geological Sciences
University of South Carolina
Columbia, South Carolina
“Predicting Spatial Patterns of
Diagenesis in Carbonate Platforms”
April 5, 2002

Hongliu Zeng

Bureau of Economic Geology
The University of Texas at Austin
Austin, Texas
“From Seismic Stratigraphy to Seismic
Sedimentology: A Sensible Transition”
February 12, 2002

Other Talks by Graduate Students in the Department of Geological Sciences

Fall 2001

M. Jennifer Cooke,
Ph.D. Candidate
"Sr Isotopes as a Potential Record of Soil Erosion"
October 22, 2001

Timothy A. Meckel,
Ph.D. Candidate
"Tectonic Morphology of the Hjort Trench"
November 21, 2001

Laura I. Net,
M.S. Candidate
"Using Petrographic Image Analysis (PIA) to Characterize Sandstone Porosity: an Example from the Paganzo Basin, Argentina"
October 29, 2001



GEO 380 (Sequence Stratigraphy) Spring Break field trip 2002 in Last Chance Canyon, Guadalupe Mountains, New Mexico. Photo provided by W. L. Fisher.

Spring 2002

Christopher A. Berg,
Ph.D. Candidate
"Oxygen Isotope Systematics in Multiply-deformed Metamorphic Rocks: Assessment of Major Element and Isotopic Equilibrium"
February 20, 2002

Chris R. McFarlane,
Ph.D. Candidate
"Granulite P-T-t Paths from Al Zoning in Orthopyroxene: Tectonic History on the Head of a Pin?"
April 10, 2002

H. Seay Nance,
Ph.D. Candidate
"Aquifer Architecture and Groundwater Flow, Edwards-Trinity Aquifer System, Edwards Plateau, Texas"
February 15, 2002

Timothy L. Pierce,
Ph.D. Candidate
"Morphologic and Topographic Analyses of Martian Debris Aprons"
April 17, 2002

Ted E. Playton,
Ph.D. Candidate
"Slope and Basinal Deposits Shed from a Late Wolfcampian Tectonically-Active Carbonate Ramp Margin"
March 25, 2002

Brook C. D. Riley,
Ph.D. Candidate
"Resetting of the Fission Track Chronometer in Radiation-Damaged Zircon: Hot Rocks in Southeastern Arizona"
March 27, 2002

Vanessa L. Svihla,
Ph.D. Candidate
"A Whole Lot of Sheath Folding Going On"
May 1, 2002

STUDENT SPEAKERS – TECHNICAL SESSIONS

Fall 2001

Abdulaziz S. Al-Aslani

Ph.D. Candidate
“3-D multiple attenuation:
analysis and algorithms”
October 2, 2001

Aaron A. Berg

M.S. Candidate
“The sensitivity of land surface
model simulation to bias
correction of a reanalysis product”
November 1, 2001

Donna L. Cathro

Ph.D. Candidate
“Three-dimensional relationships
between Late Paleogene-Early
Neogene seismic stratal
surfaces and paleobathymetry,
Northern Carnavon Basin,
North West Shelf, Australia”
October 25, 2001

David L. Dufeu

M.S. Candidate
“*Shuvuuia Deserti*, a weird
theropod dinosaur from the
Gobi Desert of Mongolia,
and its bearing on the
evolutionary history of birds”
November 20, 2001

Berhane N. Ghebretensae

M.S. Candidate
“Sedimentation and tectonics
in Northern Dankalia,
Eastern Eritrea, Africa”
September 25, 2001

Jennifer A. Head

M.S. Candidate
“Stratigraphic and structural
controls on Permian carbonate-
hosted silver (Pb-Zn) mineral-
ization, Presidio County,
Shafter, Texas”
October 16, 2001

Katherine A. Herrell

M.S. Candidate
“Pegmatite-containing
shear zones: a mechanism
for the formation of
isolated feldspar augen”
November 1, 2001

Daniel J. Krause

M.S. Candidate
“Development of DNA-labeled
clay particles for use as
groundwater tracers”
November 20, 2001

Staci L. Loewy

Ph.D. Candidate
“The Arequipa-Antofalla
basement: evolution of the
pre-Andean Margin and
reconstruction of Rodinia”
October 11, 2001

Charna E. Meth

M.S. Candidate
“Syn-deformational
crystallization, Lukmanier
Pass, Switzerland”
October 30, 2001

Thomas E. Miskelly

M.S. Candidate
“Structural framework and
depositional systems of a complex
transform margin: blocks 104
and 105, Ivory Coast, West Africa”
September 4, 2001

Faustino S. Monroy-Santiago

Ph.D. Candidate
“Interrelationships between
carbonate diagenesis and fracture
development: example from
Monterrey salient, Mexico, and
implications for hydrocarbon
reservoir characterization”
November 27, 2001

Anubрати Mukherjee

Ph.D. Candidate
“Normal moveout, travelttime
computation and imaging in
transversely isotropic media”
September 27, 2001

Thet Naing

M.S. Candidate
“Spatial interpolation of
permeability structure for
Ogallala aquifer of Texas”
December 6, 2001

Jennifer L. Perry

M.S. Candidate
“The environmental
impacts of Class A foam”
October 9, 2001

Thandar Phyu

M.S. Candidate

“Transient modeling of solute transport in a dual porosity media with fracture skin”

October 9, 2001

Claudia Rassi

Ph.D. Candidate

“Production prediction within a sequence stratigraphic framework—does it make sense?”

December 4, 2001

Brad H. Reid

M.S. Candidate

“Sedimentation of the Gila Group and Late Cenozoic basin fill history, Duncan Basin, southeastern Arizona”

October 30, 2001

Tony J. Troutman

M.S. Candidate

“Reservoir characterization of the Redwall paleokarst”

September 25, 2001

Spring 2002

Adrian C. Badescu

Ph.D. Candidate

“Integrating 3-D seismic, sequence stratigraphy and reservoir properties to enhance secondary gas recovery of two major Miocene Gulf of Mexico offshore fields”

April 9, 2002

Juan Bermudez-Santana

Ph.D. Candidate

“Sequence stratigraphy and depositional history of the upper Cañon del Tule, Las Imagenes and lower Cerro Grande formations, Central Parras Basin, Northeastern Mexico”

March 26, 2002

Robert L. Burger

Ph.D. Candidate

“Mid-Pleistocene to present stratigraphic responses in a tectonically-driven depositional setting: Eel River Basin, northern California”

March 5, 2002

Ricardo I. Combellas-Bigott

Ph.D. Candidate

“Depositional history and sequence stratigraphic framework of the Middle Miocene depositional episode, eastern-central Gulf of Mexico”

April 30, 2002

Pedro T. Gomez-Cabrera

Ph.D. Candidate

“Structural and stratigraphic analysis of the Neogene sediments of the offshore portion (Marbella area) of the Salina del Istmo basin, southeastern Mexico”

April 11, 2002

Cem O. Kilic

Ph.D. Candidate

“Characterization and quantification of Middle Miocene reservoirs, offshore Louisiana (Vermilion #30, #31, #50 and South March Island #210, #217, #218, #219) using Neural-Network (NN) pattern recognition and statistics”

April 23, 2002

Robert L. Koch

M.S. Candidate

“Characterization of Spring Cunningham Sand in the southeast Bradley Springer Unit of the Golden Trend”

April 16, 2002

Daniel J. Krause

M.S. Candidate

“Development of DNA-labeled clay particles for use as groundwater tracers”

March 21, 2002

Jason N. Krothe

M.S. Candidate

“Effects of urbanization on groundwater flow”

March 21, 2002

Patricia T. Montoya

M.S. Candidate

“Characterization of a sandstone fractured reservoir: from core to 3-D seismic analysis, Northern Basin, Venezuela”

April 4, 2002

SUMMER FIELD CAMP 2001—GEO 660

by Mark Helper



TOP: Folded Paleozoic carbonates, Sevier fold-thrust belt, Big Belt Mountains, Montana.

MIDDLE: Dr. Marrett with students (left to right) Holly Barton, Jon Snatic, and Annie Hoffman, Big Belt Mountains, Montana.

BOTTOM: John Hooker (right) and Kristin Goddard on Lion Mountain, Hecla, Montana.

Photos provided by Mark Helper.

An eager group of 33 students departed Austin on May 21 for 6 weeks of field projects and travel through some of the most spectacular geology in the West. As in years past, the class was staffed by a diverse group of faculty who, over periods of 5 days to 4 weeks, joined the group to teach their specialties, and by an experienced group of five TAs who taught for 3- or 6-week periods.

With minor exceptions, the camp this year traveled the same route as groups of the last 4 years, beginning in West Texas and concluding with a project in southwest Montana. This year, Drs. Banner and Goldhammer brought the group from Austin to Carlsbad, New Mexico, where they spent 3 days studying the Permian geology of the Guadalupe Mountains before moving on to Alamogordo for a brief look at mixed carbonate/clastic sedimentation and

bioherms in the Sacramento Mountains. Beginning with a stop at White Sands National Monument, the emphasis shifted to aeolian sediments, as Drs. Banner, Kocurek, and Stern took the group to Ghost Ranch, near Abiquiu, New Mexico, for a 2-day project that examined the Entrada and Todilto Formations. The group then spent 5 days at Ft. Lewis College, Durango, Colorado, where projects with Drs. McBride, Kocurek, and Stern examined San Juan Basin fluvial-deltaic sediments, paleosols, redbeds, Pennsylvanian cyclical deposition/tectonism, and glacial geomorphology.

A 2-day drive northward took the class through calderas of the San Juan Mountains, monoclines of the Colorado Plateau, Dinosaur National Monument, the Uinta Mountains, and several of the basins and uplifts of Wyoming before arriving at Greybull, Wyoming, on the

western flank of the Big Horn Mountains. Here, with Drs. Marrett, Helper, and Stern, students mapped portions of Sheep Mountain and Goose Egg Anticlines and examined the thick-skinned structural style of the Big Horn Mountains on a 1-day trip through the range. A short trip to the west brought the group to Yellowstone and Grand Teton National Parks where, while camped at Colter Bay, they spent 2 days examining the geology of Yellowstone caldera and the neotectonic and glacial history of the Jackson Hole region. From the parks, the class traveled northward to Lewis and Clark Caverns State Park, near Three Forks, Montana, their base for a 3-day mapping project of a displacement transfer zone in the Sevier fold-thrust belt. A single-day trip led by Dr. Marrett through the Big Belt Mountains near Helena examined large- and small-scale geometries of deformation in a spectacular thrust belt cross section farther north. This trip was a prelude to a final 3-day thrust belt mapping project, based out of Western Montana College in Dillon, Montana. Here students mapped complex thrust and folded thrust geometries in the Sevier Belt along the Big Hole River.

Fieldwork culminated with a final project in the high Pioneer Mountains, west of Melrose, Montana, that focused on the geology of the Hecla mining district, once the state's largest silver district. While primitive camping, students documented, mapped, and reported on relationships among deformation, metamorphism, mineralization, plutonism, and ore genesis during a 4-day exercise with Drs. Connelly and Helper. A 4-day drive home allowed stops on the Snake River Plain near Idaho Falls, Idaho, on the Colorado Plateau at Price and Arches National Monument in Utah, and a day trip through the Valles Caldera in the Jemez Mountains, New Mexico.

Further details and photos from this and previous years' classes can be found at the 660 website at <http://www.geo.utexas.edu/courses/660>.

Basin Analysis Class Tours the Ouachita/Arkoma Basin Province, or, Back to Toad Suck Ferry

Twelve graduate students joined Bill Galloway in a return trip to the stratigraphic and depositional wonders of the Ouachita/Arkoma outcrops of Arkansas and Oklahoma. As in past trips, Dr. Thomas “Mac” McGilvery, of Phillips Petroleum Company, journeyed from Bartlesville to lead the 4-day field trip.

In addition to visiting such well-known localities as DeGray Spillway and Big Rock Quarry to view deep marine turbidite system facies, the class marveled at the enigmatic Toad Suck Ferry outcrops and were regaled by stories of doing field geology in Arkansas and by reports on the challenges of global exploration in the 21st century. The trip ended with a visit to the flooded Calymites forest located near Heavener, Oklahoma.

In addition to describing regional and outcrop geology, the guidebook provided abundant insight into the history of the states and towns visited. Nature provided an incredible example of “exploding” pollination by pine trees.

Our thanks to Mac for again leading an informative, exciting, and fun trip, and to Phillips Petroleum for donating his time, guidebooks, and logistical support.



Mac points out
attributes
of slope
turbidite beds.
Photo provided
by Bill Galloway.

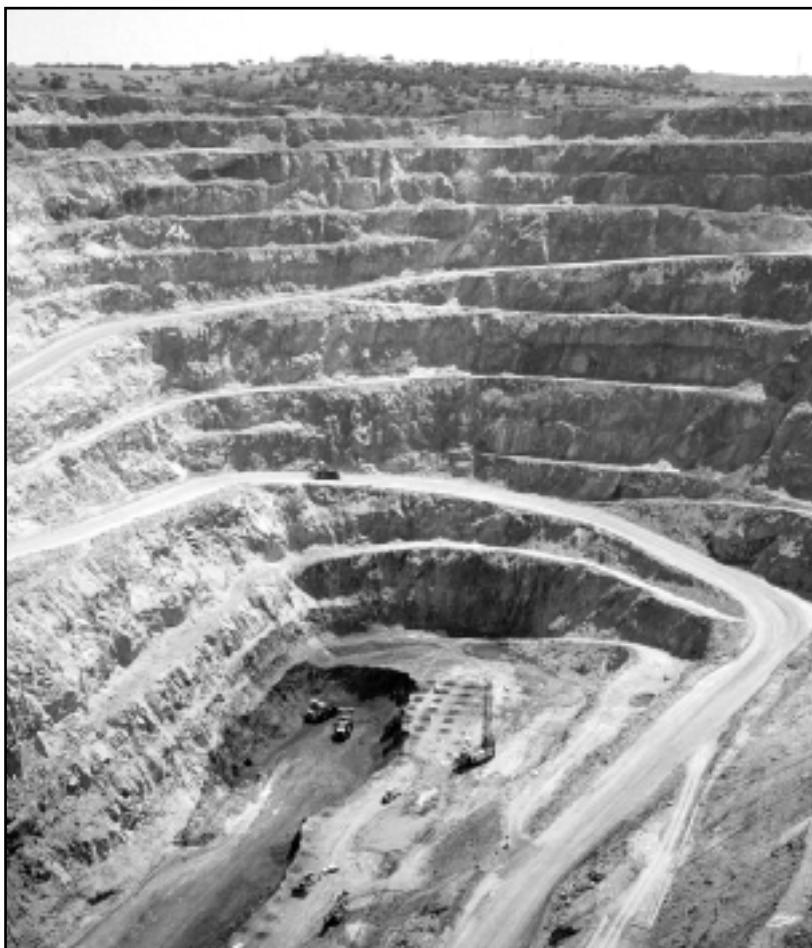
Field Excursion to the Iberian Peninsula—GEO 381R

by Mac McGuire

Rich Kyle's GEO 381R course, Regional Studies of Mineral Resources Geology, continues to provide opportunities for graduate students to experience international fieldwork. The students spend the spring semester studying the geology and mineral deposits of a region to be visited. After introductory lectures, each student selects a topic of interest on the regional geology and resources and prepares a contribution for a guidebook. The group meets for final presentations and preparation to visit the region on which the trip has focused.

In May 2001, graduate students Christine Fox, Karah Wertz, and James McGuire participated in a tour of the Iberian Peninsula, a region with an ancient mining history. The focus of the trip was the Iberian Pyrite Belt (IPB), which contains numerous large volcanic-hosted massive sulfide (VMS) deposits, the ancient equivalents of modern sea-floor hydrothermal vent systems. Over 2 weeks, the students toured many of the larger ore deposits in Southern Spain and Portugal, while experiencing Iberian culture and history. Thanks to generous funding from the Geology Foundation, the students were able to gain direct experience with the regional geologic framework and mineralization in Iberia that they had studied in class.

The group, sponsored in part by the Society of Economic Geologists, met in Lisbon, Portugal, and consisted of 22 students and professionals from the University of Utah, New Mexico Tech, and The University of Texas at Austin (for additional coverage, see <http://www.mines.utah.edu/pyrite/spain2001/index.html>). Fees collected from participating institutions and companies helped defray transportation and housing costs



Open pit for massive sulfide deposit, Los Frailes copper mine, Spain.
Photo by Christine Fox.

during the IPB tour. Group leaders were economic geologists Dr. Bill Chavez of New Mexico Tech and Dr. Erich Petersen of the University of Utah.

The first stop on the tour was the relatively new Neves-Corvo mine, outside the small Portuguese hamlet of Castro Verde, where the group enjoyed terrific seafood. The Neves-Corvo deposit is a “blind” orebody that was discovered almost entirely with geophysics and is a very large VMS deposit characterized by high copper grades and high tin zones. At Neves-Corvo, the group learned the frighteningly simple, but effective, approach used when logging core in the IPB: a basal metamorphic phyllite-quartzite (PQ), overlain by a volcano-sedimentary sequence (VS), capped by the flysch group. Typically, VMS orebodies like those at Neves-Corvo are found at the top of the VS.

The next stop was the inactive Aljustrel VMS deposits that currently are undergoing a feasibility study for zinc production. Students examined cores

for orebodies at Aljustrel that averaged 1 percent Cu and 5 percent Zn, and learned an important lesson about how easily sphalerite can be overlooked when logging core. The group moved on to Lousal, a site of Roman tunnels precariously perched on steep hillsides, where children were forced to labor in the gossan to provide gold for the Empire. The Sao Domingo deposits, next on the itinerary, are VMSs initially operated as an open pit by the Romans, but more recently were used to provide pyrite for the production of sulfuric acid. Acid mine drainage from the workings had a pH of 2 (!), and both Sao Domingo and Lousal have received attention recently as the Portuguese have begun to recognize the environmental legacy of abandoned VMS mines.

Nowhere were these effects more apparent than at the group's next stop, Spain's historic Rio Tinto open pit mine. At the mine's museum, mining implements from the area believed to be 9,000 years old were displayed. There has been almost continuous activity for the past 2,000 years, as the Romans and Phoenicians initially exploited its riches. In excess of 500 million tons of massive sulfide ore have been removed from the main orebody. Rio Tinto is so named because of the blood-red color of the river that captures all of the runoff from the area. The Rio Tinto has a pH of 2, and biologists who specialize in extreme environments study its oxygen-generating bacteria, the only creatures hardy enough to live in it.

At Spain's Aguas Teñidas, Spanish for "dyed waters," the group saw more small VMSs with acid mine drainage problems. Due to these historic environmental problems, the Las Cruces mine, another Spanish VMS deposit visited by the group, has been developed with very strict

environmental standards. The Las Cruces orebody has no surface expression and was discovered by drilling a gravity anomaly. Production will begin soon, and Las Cruces will be one of Europe's largest mines, meeting 6 percent of its copper demands. After visiting the Las Cruces offices in Seville, students were given a day to wander the city. The UT students explored the city's main plaza and many cathedrals, while other students sought out the first McDonald's since arrival!

Los Frailes, the last VMS system visited, was perhaps the most infamous. A tailings dam broke in 1998, spilling its contents down a river to a sanctuary that is the breeding grounds for many European waterfowl. Poor evaluation of the properties of the underlying marl led to the dam failure. The resulting environmental disaster is a primary reason that the mine is set to shut down in the next year, though significant reserves and resources remain. Witnessing disasters like this made everyone acutely aware of the need for interaction between geologists and engineers in all phases of a project.

After Los Frailes, the group spent a day in Córdoba. The day's festivities included attending the Córdoba fair, visiting La Mezquita, a Moorish mosque built 1,200 years ago, and viewing Roman ruins. The remaining destinations would be out of the IPB, examining some of the other ore deposit types in Central Spain and Portugal.

Almadén, a mercury deposit that is the world's oldest continually active mine, has accounted for at least one-third of global mercury production. Regardless of the economic aspects, Almadén is a remarkable geochemical anomaly essentially without equal for any element on the planet. These stratabound cinnabar deposits are monometallic and thought to be related to seafloor mafic volcanism. Grades are as high as 20 percent mercury, but the cutoff grade is 3.5 percent. Students descended to an active stope and broke open pieces of ore to find droplets of native mercury and shiny red crystals of cinnabar in the shale host.

The group explored the scenic mountain-top villa of Marvão, Portugal, on the way to Panasqueira, the last tour on the itinerary. Panasqueira is a tin-tungsten mine located in north-central Portugal, and is known worldwide by mineral collectors for its assortment of large crystals of quartz, apatite, arsenopyrite, and wolframite. The 2-to-5-foot-wide quartz veins that host the tin-tungsten minerals formed during the Hercynian orogeny (~300 Ma). After the mine tour, each member of the group was given a prize mineral specimen.

Each member of the group returned to Lisbon having greatly increased his or her respective knowledge of Iberian geology and ore deposits. Equally impressive were the increases in luggage weight, as despite my best efforts at being selective, my bag contained nearly 40 pounds of rocks! The success of this trip, and previous GEO 381R trips to Chile in 1999 and Perú in 2000, bodes well for opportunities for future international field courses. Tentative plans are for a trip to Western Australia in May 2003.

Student Awards and Honors



Brook Riley (left) and James Jones (right), the recipient of the GSEC Student Service Award.



Timothy Gibbons (left) accepts the Estwing Hammer award for outstanding skills in field geology from Dr. Mark Helper (right).

The following students were presented with awards at the annual Department of Geological Sciences Awards Ceremony, held on May 2, 2002, in GEO 100.

Graduate Student Executive Committee (GSEC) Student Service Award

(A plaque from the Geology Foundation)

Awarded for outstanding service by a geology graduate student to the graduate student community. Selection made by GSEC.

James V. Jones, III

Technical Sessions Best Speaker Awards

(A plaque and \$200 monetary award from Robbie Gries and the Geology Foundation)

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

Charna E. Meth (M.S., fall 2001)
"Syn-deformational crystallization, Lukmanier Pass, Switzerland"

Staci L. Loewy (Ph.D., fall 2001)
"The Arequipa-Antofalla basement: evolution of the pre-Andean margin and reconstruction of Rodinia"

Patricia Montoya (M.S., spring 2002) "Characterization of a sandstone fracture reservoir: from core to 3-D seismic analysis, Northern Basin, Venezuela"

Robert L. Burger (Ph.D., spring 2002)
"Mid-Pleistocene to present stratigraphic responses in a tectonically-driven depositional setting: Eel River Basin, northern California"

Outstanding Teaching Assistant Awards

(A plaque and \$750 monetary award from the Geology Foundation)

Awarded for outstanding performance by a teaching assistant, one in lower-division courses, one in upper-division or graduate courses. Selection by the Geology Foundation Executive Committee, based on nomination by the faculty.

Dennis P. Dunn

Alejandro Escalona

Barbara A. Tillotson

Brian C. Wilbur

R. L. Folk and E. F. McBride Petrography Awards

(A plaque and a \$500 monetary award for graduates and a \$250 monetary award for undergraduates from the Geology Foundation)

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

James V. Jones, III (graduate)

Erin E. Fonken (undergraduate)

Estwing Hammer Award

Awarded annually since 1996 to an undergraduate student who has demonstrated outstanding skills in field geology, as judged by performance in GEO 420K and GEO 660. Selections are made by the field camp director and undergraduate advisor. A geologic rock pick is donated each year by the Estwing Corporation.

Timothy D. Gibbons

Placement Office Update

The 2001-2002 academic year was an active one for the Geological Sciences Placement Office. Sixty-four students used the services, coordinated by Miriam Pashby, in the fall and spring semesters. Of these students, 17 were candidates for B.S. or B.A. degrees, 27 for M.S. or M.A. degrees, and 20 for the Ph.D. degree.

Seventeen organizations used the services of the Placement Office. Shell and Schlumberger interviewed in the Department during the spring, and representatives from Anadarko Petroleum Corporation, bp, Cabot Oil & Gas, Chevron Corporation, Conoco, Inc., ERM Southwest, ExxonMobil Exploration, ExxonMobil Production and Research, Marathon Oil, Ocean Energy, Occidental Oil, Phillips Petroleum, Schlumberger, Shell Oil, Texaco, Inc., TotalFina Elf, and URS Corporation visited the Department during the fall.

A survey was taken by the Placement Office wherein 54 responses were returned out of 64 mailed. According to this survey, 9 full-time positions and 35 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 monthly salaries:

M.S./M.A.	\$5,000
Ph.D.	\$5,830

Summer job/internship monthly salaries:

B.S./B.A.	\$2,400 - \$4,000
M.S./M.A.	\$4,300 - \$4,525
Ph.D.	\$4,500 - \$5,900

Student Officers for Fall 2001 and Spring 2002

Graduate Student Executive Committee

Chair: Brook C. D. Riley

Vice-Chair: Holly A. Nance

Treasurer: Melissa C. Edwards

Secretary: Ryan C. Ewing

At-Large Members:

Christopher L. Edwards

Dennis R. Ruez

Barbara A. Tillotson

American Association of Petroleum Geologists Student Chapter

President: Eric Tuitjer

Vice-President: Matthew G. Morris

Treasurer: Tina R. Foster

Graduate Student Liaison:

Claudia Rassi

Undergraduate Student Liaison:

A. Dax McDavid

Recruitment Committee:

Russell K. Barrett

Brian T. Moore

Raymond F. Schiltz

Graduate Student Executive Committee

The GSEC (Graduate Student Executive Committee) participated in a number of different events during 2001-2002. The majority of their time and effort was spent on the prospective student weekend visits. Thirty-six prospective M.S. and Ph.D. students visited on two different weekends in March, and a great time was had by all. Prospective students toured the Department, the Bureau of Economic Geology, the Institute for Geophysics, and the Vertebrate and Non-Vertebrate Paleontology Labs. They also had plenty of time to meet

potential supervisors during Friday lunches/group meetings/tours, and at Friday and Saturday get-togethers. Students were treated to the Austin social scene and various live music offerings to round out the weekend. GSEC would like to thank all involved for making these weekends a tremendous success.

Along with entertaining and hosting prospective graduate students, GSEC likes to take care of their current graduate students. GSEC was involved with a series of functions this year, including the

Halloween, Christmas, and year-end parties, Beverages in the Park, and Geology Night at a Round Rock Express baseball game.

This year's student service award was presented to Jamey Jones during the 2002 Awards Ceremony. Jamey's professional administration of Hard Rock Seminars and his unparalleled contributions to various social events, including the prospective student weekends, remind everyone in the geosciences community how important each person's contribution can be.

As always, much of the work done by GSEC was generously supported by the Geology Foundation. GSEC would also like to thank Conoco for its contribution to the thesis binding fund. Finally, GSEC would like to extend thanks to Debra Sue Trinique for her donation of a quilt raffled off during the Christmas party, and to Dennis Trombatore for his memorialization of Final Bedlam.



Left to right: Erin Fonken, Peggy Hairston, and Precious Williams measure the azimuth of cross-beds and ripple marks in the Cambrian Hickory Sandstone at Crabapple Creek near Fredericksburg, Texas. Photo provided by E. F. McBride.

Research and Teaching Assistants and Assistant Instructors— 2001-2002

Research Assistants, Bureau of Economic Geology

Acevedo, Jose L.
Badescu, Adrian C.
Budyono
Campbell, Matthew A.
Christian, Lance N.
Combs, Deanna M.
Correa-Vivar, Luciano L.
El Shayeb, Tarek A. S.
Escalona, Alejandro
Garcia, Javier
Gomez, Leonel A.
Hooker, John N.
Kilic, Cem O.
Liu, Xuejiao
Makowitz, Astrid
Montoya, Patricia T.
Naing, Thet
Ortega, Orlando J.
Park, Yong-Joon
Philip, Zeno G.
Phyu, Thandar
Playton, Ted E.
Redwood, Ayanna S.
Sarikaya, Hasan
Sukhavasi, Nandakishore V.
Van Berkel, Diego J.
Xu, Liying
Yang, Haiyan E.
Zhou, Dingshan

Research Assistants, Institute for Geophysics

Ahmed, Imtiaz
Burger, Robert L.
Cathro, Donna L.
Combellas, Ricardo I.
Felina, Irina

Ghebretensae, Berhane N.
Kumar, Dhananjay
Loewy, Staci L.
Lu, Hongbo
Nordfjord, Sylvia
Rogers, Robert D.
Sena, Armando R.
Sylvia, Dennis A.
Wang, Chengshu
Wu, Xinxia
Xun, Hao

Research Assistants, Department of Geological Sciences

Beveridge, Carrie A.
Choh, Suk-Joo S.
Cooke, M. Jennifer
Delgado, Jose F.
Edwards, Melissa C.
El Shayeb, Tarek A.S.
Engel, Annette S.
Ewing, Ryan C.
Foster, Tina R.
Gao, Wei
Garcia-Fresca, Beatriz
Gudapati, Krishnavik
Guhl, Meredith D.
Gumble, Jason E.
Jass, Christopher M.
Knebl, Marla R.
Krause, Daniel J.
Krothe, Jason N.
Leuro, Erick
Macrini, Thomas E.
McFarlane, Christopher R.
Meth, Charna E.
Paterson, John T.
Riley, Brook C. D.
Seo, Ki-Weon
Shi, Mingjuan
Simmons, Nathan A.
Van Berkel, Diego J.

Teaching Assistants

Alexander, Nedra D.
Balanoff, Amy M.
Berg, Christopher A.
Bever, Gabriel S.
Campbell, Amy L.
Campbell, Matthew A.
Carter, Sasha P.
Christian, Lance N.
Combs, Deanna M.
Cooke, M. Jennifer
Dodd, Daniel Jackson

Dufeu, David L.
Dunn, Dennis P.
Edwards, Christopher
Engel, Annette S.
Escalona, Alejandro
Ewing, Ryan
Fox, Christine R.
Franzosa, Jonathan W.
Fuller, Roy W.
Garcia-Fresca, Beatriz
Ghosh, Ayati
Grellet-Tinner, Fabienne M.
Gudapati, Krishnavik
Guhl, Meredith D.
Gumble, Jason E.
Hare, Christopher M.
Harrington, Daniel F.
Hemphill, Lloyd
Herrell, Katherine A.
Hobbs, Amy E.
Jones, James V.
Koch, Robert L.
Kowalczyk, Amy
Krawiec, Adam W.
Krothe, Jason N.
Lane, Edward D.
Makowitz, Astrid
McGuire, James B.
Meckel, Timothy
Mote, Alison
Nance, H. Seay
Nance, Holly
Paterson, John T.
Pierce, Suzanne
Pierce, Timothy L.
Riley, Brook C. D.
Roller, Elizabeth
Ruez, Dennis R.
Schneider, Christie L.
Shi, Mingjuan
Simmons, Nathan A.
Svihla, Vanessa L.
Triche, Nina
Tuitjer, Eric
Valentine, D. Shane
Wagner, Jonathan R.
Walker, Judson
Wallace, Tania C.
Wilbur, Bryan C.

Assistant Instructors

McFarlane, Christopher R.
Valentine, D. Shane

GRADUATE FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

Thomas R. Banks Memorial Scholarship

Christopher A. Berg Spring 2002
Sasha P. Carter Fall 2001
M. Jennifer Cooke Fall 2001
Staci L. Loewy Spring 2002
Charna E. Meth Fall 2001
John T. Paterson Spring 2002
Vanessa L. Svihla Fall 2001

Laura Thomson Barrow Graduate Fellowship

Karah L. Wertz Fall 2001

Leonidas T. Barrow Centennial Chair in Mineral Resources

Cem O. Kilic Fall 2001,
Summer 2002
Diego J. Van Berkel Summer 2002

Wayne Franklin Bowman Endowed Presidential Scholarship

Brook C. D. Riley Fall 2001,
Spring 2002
Dennis R. Ruez Fall 2001,
Spring 2002

British Petroleum/Amoco Scholarship

Donna L. Cathro Summer 2002
Robert L. Koch Summer 2002
Claudia Rassi Spring 2002

Jesse L. Brundrett Memorial Endowed Presidential Scholarship

Jason E. Gumble Fall 2001,
Spring 2002

Hal H. Bybee Memorial Fund

Fabienne M.
Grellet-Tinner Summer 2002
Amy A. McCole Summer 2002
Tania C. Wallace Summer 2002

Dorothy Ogden Carsey Memorial Scholarship Fund

Daniel J. Dodd Summer 2002

Chevron USA, Inc. Scholarship

Nedra D. Alexander Spring 2002
William H. Asquith Spring 2002
Kevin A. Bain Spring 2002
Sasha P. Carter Summer 2002
Christopher L. Edwards Spring 2002
Tina R. Foster Summer 2002
Matthew G. Morris Spring 2002
Timothy L. Pierce Summer 2002
Ted E. Playton Spring 2002
Nathan A. Simmons Spring 2002

Conoco, Inc.

Timothy A. Meckel Summer 2002

Joseph S. Cullinan Memorial Scholarship in Geological Sciences

Barbara A. Tillotson Fall 2001

Robert H. Cuyler Endowed Presidential Scholarship

Christopher R. McFarlane Fall 2001,
Spring 2002
Robert D. Rogers Fall 2001,
Spring 2002

Ronald K. DeFord Field Scholarship Fund

Christopher A. Berg Summer 2002
Gaberiel S. Bever Summer 2002
Matthew A. Campbell Summer 2002
Jose F. Delgado Summer 2002
Marcus O. Gary Summer 2002
Christopher Jass Summer 2002
James V. Jones, III Summer 2002
Thomas E. Macrini Summer 2002
Astrid Makowitz Summer 2002
James B. McGuire Summer 2002
Holly A. Nance Summer 2002
Laura I. Net Summer 2002
Ted E. Playton Summer 2002
Elizabeth A. Roller Summer 2002
Christie L. Schneider Summer 2002
Bryan Wilbur Summer 2002

Michael Bruce Duchin

Centennial Memorial Endowed Presidential Scholarship

Amy E. Hobbs Fall 2001,
Spring 2002

Peter T. Flawn Centennial Chair in Geology

Christopher A. Berg Summer 2002
Edward D. Lane Summer 2002
Elizabeth A. Roller Summer 2002

Getty Oil Company Centennial Chair in Geological Sciences

Widodo R. B. Sudomo Summer 2002

Graduate Fellowship in Exploration Geophysics

Matthew G. Morris Fall 2001,
Spring 2002

J. Nalle Gregory Chair in Sedimentary Geology

D. Shane Valentine Fall 2001

John A. and Katherine G. Jackson Fellowship in Geohydrology

William H. Asquith Fall 2001
Jason N. Krothe Fall 2001

J. Hoover Mackin Memorial Scholarship Fund

Tina R. Foster Summer 2002
Timothy L. Pierce Summer 2002

George W. Marshall, Jr. Memorial Endowed Presidential Scholarship

James V. Jones, III Fall 2001,
Spring 2002

William R. Muehlberger Field Geology Scholarship Fund

Jose F. Delgado Summer 2002
Katherine A. Herrell Fall 2001

**Pennzoil and Pogo Producing
Companies-William E. Gipson**

Scholarships

Fabienne M.
Grellet-Tinner Summer 2002
Bradley H. Reid Spring 2002

Louis and Elizabeth Scherck

Geology Scholarship

Lloyd H. Hemphill Fall 2001,
Spring 2002
Timothy L. Pierce Fall 2001,
Spring 2002
Elizabeth A. Roller Fall 2001,
Spring 2002

Scholarships, Various Donors

Younis K. Altobi Spring 2002
Thomas E. Macrini Fall 2001,
Spring 2002

Walter Benona Sharp Memorial

Scholarship in Geology

Matthew A. Campbell Fall 2001,
Spring 2002
Sasha P. Carter Summer 2002
James V. Jones, III Summer 2002

John and Elizabeth M. Teagle

Scholarship in Petroleum Geology

Tarek A. S. El Shayeb Spring 2002
Christine R. Fox Spring 2002
Jennifer A. Head Spring 2002
Claudia Rassi Summer 2002
Ricardo Torres-Vargas Spring 2002
Xinxia Wu Spring 2002

Texaco, Inc. Scholarship

Claudia Rassi Fall 2001
Jason A. Stine Spring 2002
Barbara A. Tillotson Spring 2002

Glenn and Martha Vargas

Endowed Presidential Scholarship

James B. McGuire Fall 2001,
Spring 2002

Albert W. and Alice M. Weeks

Fund in Geology

Christopher A. Berg Fall 2001,
Spring 2002
Sasha P. Carter Fall 2001,
Spring 2002
David L. Dufeu Summer 2002
Tarek A. S. El Shayeb Summer 2002
Mulugeta Y. Feseha Spring 2002
Fabienne M.
Grellet-Tinner Summer 2002
Edward D. Lane Spring 2002
Adrien L. Lindley Summer 2002
Eric M. Matzel Fall 2001
Laura I. Net Summer 2002
Nina E. Triche Fall 2001,
Spring 2002,
Summer 2002

Francis L. Whitney Endowed

Presidential Scholarship

Amy M. Balanoff Fall 2001,
Spring 2002
Thomas E. Macrini Fall 2001,
Spring 2002

**Scholarships,
Fellowships, and
Grants from
Other Agencies**

**American Association of
Petroleum Geologists (AAPG)
Grants-in-Aid 2001-2002**

John N. Hooker
Laura I. Net
Ted E. Playton
Claudia Rassi
Barbara A. Tillotson

**American Federation of
Mineralogical Societies**

Thomas E. Macrini

Environmental Science Institute

S. Chris Caran
Marcus O. Gary
Amy A. McCole

Geological Society of America (GSA)

Beatriz Garcia-Fresca
Astrid Makowitz
Patrick J. Mickler
Kristin M. Miller
Christie L. Schneider
Karah L. Wertz

**Gulf Coast Association of
Geological Societies (GCAGS)**

Adrian C. Badescu
Beatriz Garcia-Fresca
Leonel A. Gomez
John N. Hooker
Astrid Makowitz
Christie L. Schneider

Hagerman National Monument

Dennis R. Ruez

National Park Service

Dennis R. Ruez

**Society of Independent Professional
Earth Scientists (SIPES) Fellowship**

Tarek A. S. El Shayeb

Texas Academy of Science

Dennis R. Ruez

UT Austin Graduate School

David Bruton, Jr. Graduate Fellowship

Dennis R. Ruez

Graduate Degrees in Geological Sciences Conferred by The University of Texas at Austin—2001-2002

MASTER OF SCIENCE, AUGUST 2001 (5)

AL-SALEH, SALEH MOHAMMAD

**B.S., Geophysics, 1996,
University of the Pacific**

*Processing and Imaging of Multi-
Component Ocean Bottom Cable
Data in the PlaneWave Domain*

Supervisors: Paul Stoffa, Mrinal Sen
Committee Member: Robert Tatham

DAVIS, MARCY BROOKE

**B.S., Geological Sciences, 1998,
University of California, Santa Barbara**

*Subglacial Morphology and Structural
Geology in the Southern Transantarctic
Mountains from Airborne Geophysics*

Supervisors: Donald Blankenship,
Ian Dalziel

Committee Member: James Connelly

GRELLET-TINNER, GERALD

*Phylogenetic Interpretation of
Eggs and Eggshells and Its
Implication for Paleognathae Phylogeny*

Supervisor: Timothy Rowe
Committee Members: Christopher Bell,
E.L. Lundelius

OZKAN, AYSEN

**B.S., 1996,
Middle East Technical University**

*Diagenesis and Porosity Evolution of
the Flathead Sandstone (Middle Cambrian),
Wyoming and Montana*

Supervisor: Earle McBride
Committee Members: Kitty Milliken,
Gary Kocurek

SANCHEZ, MAREL ALEXANDRA

**B.S., Geophysical Engineering,
1995, Universidad Simón Bolívar**

*Sequence Stratigraphy and Structural
Framework of Southeast Caribbean Margin:
Offshore Orinoco Delta, Venezuela*

Supervisors: William Fisher, Lesli Wood
Committee Member: Scott Tinker

MASTER OF SCIENCE, DECEMBER 2001 (6)

BERG, AARON ANDREW

**B.S., Geography, 1995,
University of Lethbridge**

**M.S., Geography, 1997,
University of Lethbridge**

*The Sensitivity of Land Surface Model
Simulations to Bias Correction of the
European Centre for Medium-Range
Weather Forecasts Reanalysis*

Supervisors: Clark Wilson,
James Famiglietti
Committee Members: John Sharp,
Zong-Liang Yang

CERDA, FERNANDO ANTONIO

**B.S., Geophysical Engineering,
1996, Colorado School of Mines**

*Time-Lapse (4-D), VP/VS Interpretation
of Reservoir Depletion in Teal South,
Gulf of Mexico*

Supervisors: William Fisher, Robert Tatham
Committee Member: Bob Hardage

HARRINGTON, DANIEL FRANCIS

B.A., Geology, 1999, Amherst College

*Deformation of Blocks and Matrix in
Franciscan Melange, San Simeon,
California: Implications for Melange Genesis*

Supervisor: Mark Cloos
Committee Members: Richard Ketcham,
Randall Marrett

MUZAFFAR, ASIF

**B.S., Geology, 1996,
University of Karachi**

*Relations Among Sedimentation, Diapirism
and Cap Rock Formation at the Davis Hill
Salt Dome, Liberty Co., Texas*

Supervisors: J. Richard Kyle,
Bruno Vendeville
Committee Member: William Galloway

PERRY, JENNIFER LEIGH

B.S., 1997, College of William & Mary

*The Environmental Impact of
Class A Firefighting Foam*

Supervisor: Philip Bennett
Committee Members: Randall Charbeneau,
John Sharp

RUSH, JASON WINDROW

**B.S., Geography, 1996,
Southwest Texas State University**

*Sequence Architecture of a Late
Guadalupian Carbonate Rimmed Shelf,
Walnut Canyon, New Mexico*

Supervisors: Charles Kerans,
William Fisher
Committee Member: Robert Goldhammer

DOCTOR OF PHILOSOPHY, DECEMBER 2001 (4)

AL-ASLANI, ABDULAZIZ SALEH

**B.S., Geophysics, 1989, King Fahd
University of Petroleum & Minerals**

M.A., 1995, Rice University

*3-D Seismic Surface Multiple Attenuation:
Algorithms and Analysis*

Supervisors: Paul Stoffa, Mrinal Sen
Committee Members: Stephen Grand, Yosio
Nakamura, William Galloway

BRANSTETTER, MARCIA LYNNE

B.S., 1986, Southwestern University

M.A., 1995, The University of Texas at Austin

*Development of a Parallel River
Transport Algorithm and Applications
to Climate Studies*

Supervisor: James Famiglietti
Committee Members: Warren Washington,
Libby Stern, John Sharp, Clark Wilson

CASTILLO, MARIA VERONICA

**B.S., Geology, 1995,
Universidad Central de Venezuela**

Structural Analysis of Cenozoic Fault Systems Using 3-D Seismic Data in the Southern Maracaibo Basin, Venezuela

Supervisors: William Fisher, William Mann
Committee Members: Albert Bally, Randall Marrett, Robert Tatham, Thomas Shipley

CHAILLE, JOHN LEE

**A.B., Zoology, 1973,
Humboldt State University**

**M.S., Geology, 1980,
South Dakota School of Mines & Technology**

The Relationship of Mammalian Morphometric Diversity to Environmental Variations and Its Use in Paleoclimatic Reconstructions

Supervisors: Timothy Rowe, E.L. Lundelius
Committee Members: Richard Klein, James Sprinkle, Stephen Hall

**MASTER OF
SCIENCE,
MAY 2002 (5)**

GHEBRETENSAE, BERNHANE NEGASSI

**B.S., Geology, 1983,
Haile Sellassie I University**

Late Cenozoic Sedimentation and Tectonics of the Bada, Dandero-Mahable and Abdur Areas, Northern Danakil Depression, Eritrea, Africa

Supervisor: Richard Buffler
Committee Members: Robert Walter, Earle McBride

HEAD, JENNIFER ADAIR

**B.S., Geology, 1999,
James Madison University**

Stratigraphic and Structural Controls of Permian Carbonate-Hosted Silver (Pb-Zn) Mineralization, Shafter, Presidio County, Texas

Supervisor: J. Richard Kyle
Committee Members: Robert Goldhammer, William Muehlberger

HERRELL, KATHERINE ANNE

**B.S., Geological Sciences, 1997,
The University of Texas at Austin**

Pegmatite-Containing Shear Zones: A Mechanism for the Formation of Isolated Feldspar Augen Megacrysts at Willimantic Dome, Central Connecticut

Supervisors: Sharon Mosher, William Carlson
Committee Member: Douglas Smith

METH, CHARNA ELYSE

**B.S., Geological Sciences, 1999,
The University of Texas at Austin**

Diffusion-Controlled Growth from a Heterogeneous Precursor: Garnet Crystallization at Passo del Sole, Switzerland

Supervisor: William Carlson
Committee Members: Sharon Mosher, Douglas Smith

REID, BRADLEY HAMILTON

**B.S., Geological Sciences, 1998,
The University of Texas at Austin**

Sedimentology and Depositional History of the Late Cenozoic Gila Group in the Central Duncan Basin, Greenlee County, Southeast Arizona

Supervisor: Richard Buffler
Committee Members: Stephen Enders, William Galloway

**DOCTOR OF
PHILOSOPHY,
MAY 2002 (5)**

FESHA, MULUGETA YEBYO

**B.S., Geology, 1990,
Addis Ababa University**

**M.A., Geological Sciences, 1996,
The University of Texas at Austin**

Sequence Stratigraphy, Petrography, and Geochronology of the Chilga Rift Basin Sediments, Northwest Ethiopia

Supervisors: Gary Kocurek, John Kappelman
Committee Members: Wulf Gose, William Fisher, Richard Buffler

LE CALVEZ, JOEL HERVE

M.S., 1995, Université de Nice

Physical Modeling of Normal Faults and Graben Relays above Salt

Supervisors: Randall Marrett, Bruno Vendeville
Committee Members: William Galloway, Mark Cloos, Martin Jackson, Jon Olson

MUKHERJEE, ANUBRATI

**B.S., Geological Sciences, 1996,
Indian Institute of Technology**

Seismic Data Processing in Transversely Isotropic Media: A Plane Wave Approach

Supervisors: Paul Stoffa, Mrinal Sen
Committee Members: Stephen Grand, Yosio Nakamura, Robert Tatham

ORTEGA PEREZ, ORLANDO JOSE

**B.S., Geology, 1990,
Universidad Central de Venezuela**

**M.S., Geological Sciences, 1997,
The University of Texas at Austin**

Fracture-Size Scaling and Stratigraphic Controls on Fracture Intensity

Supervisor: Randall Marrett
Committee Members: Robert Goldhammer, Stephen Laubach, Earle McBride, John Sharp, Jon Olson

SYLVIA, DENNIS ASHTON

**B.S., Geology, 1978,
Arizona State University**

**M.S., Civil Engineering, 1994,
The University of Texas at Austin**

Response of the Brazos River Dispersal System to Latest Pleistocene Climatic Variation and Eustatic Change

Supervisor: William Galloway
Committee Members: Michael Blum, Jay Banner, William Fisher, Stephen Hall, Gary Kocurek

UNDERGRADUATE SCHOLARSHIPS AND AWARDS

AMERADA HESS CORPORATION SCHOLARSHIPS

NATHAN A. BRYANT SUMMER 2002

MILLARD B. ARICK MEMORIAL FUND IN PETROLEUM GEOLOGY

CARRIE A. BEVERIDGE FALL 2001

AUSTIN GEM AND MINERAL SOCIETY

JONATHAN R. BUMGARNER SPRING 2002

LUISA A. CRESPO SPRING 2002

DAVID C. DUNBAR SPRING 2002

CHRIS M. URBINA SPRING 2002

THOMAS R. BANKS MEMORIAL SCHOLARSHIP

JONATHAN R. BUMGARNER FALL 2001
 SPRING 2002

 SUMMER 2002

HALLIE K. GARRETT SUMMER 2002

JAYNE B. HAYDEN FALL 2001
 SPRING 2002

 SUMMER 2002

JOHN S. LARKIN FALL 2001
 SPRING 2002

 SUMMER 2002

CALVIN A. LEE FALL 2001
 SPRING 2002

FRANCOIS M. LUX FALL 2001

 SPRING 2002

ERIC S. LYONS FALL 2001

 SPRING 2002

PETROS K. PAPAZIS FALL 2001
 SPRING 2002

 SUMMER 2002

MOLLY S. PURCELL FALL 2001

 SPRING 2002

CHRISTOPHER B. STRGANAC FALL 2001

 SPRING 2002

ADOLPHUS F. WILSON FALL 2001

 SPRING 2002

 SUMMER 2002

BLOOMER FUND FOR MOTIVATED STUDENTS

EVAN J. ANDROL FALL 2001

RONALD L. DILDINE SPRING 2002

STEVEN S. GAINER SUMMER 2002

ANNIE E. HOFFMAN FALL 2001

 SPRING 2002

KIMBERLY D. HUEBEL FALL 2001

 SPRING 2002

MICHAEL A. LEONARD SPRING 2002

JULIE A. PECARINA SPRING 2002

CRYSTAL L. STRICKLAND SPRING 2002

WAYNE FRANKLIN BOWMAN ENDOWED PRESIDENTIAL SCHOLARSHIP

THOMAS P. EITING FALL 2001

 SPRING 2002

BRAHMAN ENERGY COMPANY SCHOLARSHIP FUND

MEGAN S. AVANTS SUMMER 2002

W. KENLEY CLARK MEMORIAL ENDOWED PRESIDENTIAL SCHOLARSHIP

CHRISTY M. KOHL FALL 2001

 SPRING 2002

GUY E. GREEN ENDOWED PRESIDENTIAL SCHOLARSHIP

ALKA K. TRIPATHY FALL 2001

 SPRING 2002

KARL FREDERICK HAGEMEIER, JR. MEMORIAL ENDOWED PRESIDENTIAL SCHOLARSHIP

CALVIN A. LEE FALL 2001

 SPRING 2002

MARATHON OIL COMPANY SCHOLARSHIPS

MEGAN S. AVANTS SUMMER 2002

RUSSELL K. BARRETT SUMMER 2002

MR. AND MRS. L. F. MCCOLLUM SCHOLARSHIP IN GEOLOGY

RAFAEL E. HERRERA SUMMER 2002

PAUL B. KIRBY SPRING 2002

CHRIS M. URBINA SPRING 2002

MICHAUX SCHOLARSHIP FUND

KEVIN E. BURNS FALL 2001

CARROLL C. MILLER ENDOWED PRESIDENTIAL SCHOLARSHIP

HALLIE K. GARRETT FALL 2001

 SPRING 2002

WES OGDEN MEMORIAL SCHOLARSHIP IN GEOPHYSICS

CHRIS M. URBINA SPRING 2002

PHILLIPS PETROLEUM COMPANY SCHOLARSHIP

DEANNA R. EAMES SUMMER 2002

STEVEN S. GAINER SUMMER 2002

RAFAEL E. HERRERA SUMMER 2002

MEAGAN L. MCMEANS SUMMER 2002

LOUIS AND ELIZABETH SCHERCK GEOLOGY SCHOLARSHIP

JOHN F. BACON FALL 2001

JASON L. CLAYTON FALL 2002

 SPRING 2002

RAFAEL E. HERRERA SPRING 2002

CHARLES L. HURST SUMMER 2002

F. W. SIMONDS ENDOWED PRESIDENTIAL SCHOLARSHIP

WHITNEY E. GOODRICH FALL 2001

 SPRING 2002

JOHN AND ELIZABETH M. TEAGLE SCHOLARSHIP IN PETROLEUM GEOLOGY

GLEN A. ANDERSON SUMMER 2002

RACHEL E. AUTENRIETH SPRING 2002

CARRIE A. BEVERIDGE FALL 2001

DONALD CAMPBELL SUMMER 2002

LUIS A. CRESPO SUMMER 2002
 YANN A. CURTIS FALL 2001
 SPRING 2002
 RYAN M. DEUTSCH SUMMER 2002
 DAVID C. DUNBAR SPRING 2002
 PATRICK T. FORTSON SPRING 2002
 HALLIE K. GARRETT SUMMER 2002
 JOHN W. HAMMOND SUMMER 2002
 JENNIFER D. HANEY SPRING 2002
 DANIEL E. JONES SUMMER 2002
 BRIAN T. MOORE SUMMER 2002
 RYAN M. PARKS SPRING 2002
 ANTHONY C. RODRIGUEZ SUMMER 2002
 ADRIENNE U. RUPPELT FALL 2001
 DIETRICH B. SANDERS FALL 2001
 MELISSA SEAY-MORALES SUMMER 2002
 TIMOTHY M. SHEPARD SPRING 2002
 TODD B. WILLIS SPRING 2002

TEXACO, INC. SCHOLARSHIP
 MEGAN S. AVANTS FALL 2001
 SPRING 2002
 JOSEPH L. MEHRING FALL 2001
 SPRING 2002
 MICHAEL N. MICHAELIDES FALL 2001
 SPRING 2002

**DAVID S. THAYER MEMORIAL
 SCHOLARSHIP FUND**
 JOSEPH L. MEHRING SUMMER 2002

**UDDEN MEMORIAL
 SCHOLARSHIP FUND**
 MARCUS O. GARY FALL 2001

**GLENN AND MARTHA VARGAS
 GEMOLOGICAL SCHOLARSHIP
 IN GEOLOGICAL SCIENCES**
 PAUL B. KIRBY SPRING 2002
 DOMINIQUE K. SCHMID SPRING 2002

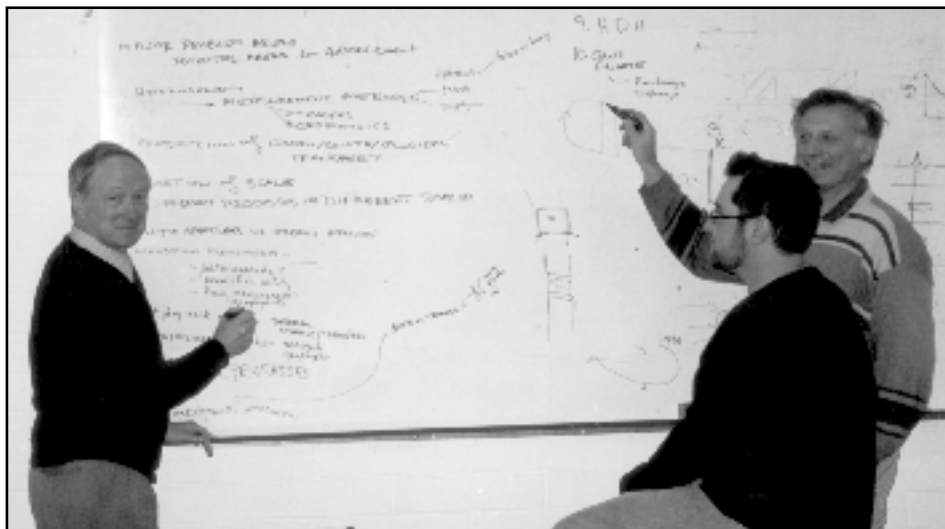
**ALBERT W. AND ALICE M. WEEKS
 FUND IN GEOLOGY**
 HUNTER A. DANQUE FALL 2001
 SPRING 2002
 RYAN M. DEUTSCH SPRING 2002
 MELISSA SEAY-MORALES FALL 2001
 SUMMER 2002
 JONATHAN M. WYBAR FALL 2001

**ADDISON A. AND MARY E.
 WILKINSON ENDOWED
 PRESIDENTIAL SCHOLARSHIP
 IN GEOLOGICAL SCIENCES**
 BENJAMIN D. DAMERON FALL 2001
 SPRING 2002

**CHARLES E. YAGER UNDERGRADU-
 ATE FIELD SCHOLARSHIP FUND**
 DONALD A. CAMPBELL SUMMER 2002
 FRANCOIS M. LUX SUMMER 2002

**SCHOLARSHIPS
 AND GRANTS FROM
 OTHER AGENCIES**

**SOCIETY OF EXPLORATION
 GEOPHYSICISTS (SEG)**
 ROBERT B. RILEY FALL 2001
 SPRING 2002



Jack Sharp, Craig Simmons (Flinders), and Neville Robinson (CSIRO) brainstorming about major future issues in hydrogeology. Photo provided by Jack Sharp.

Undergraduate Degrees in Geological Sciences Conferred by The University of Texas at Austin—2001-2002

**Bachelor of Arts
August 2001 (1)**
Clarence S. Winzer

**Bachelor of Science
August 2001 (10)**
Miriam R. Akselrod
Austin K. Baldwin
Robert L. Chandler, Jr.
Michael C. Dawidczik
Leighton L. Devine
Kristin A. Goddard
James E. Gradney
Kimberly A. High
Kenneth M. Mosley
Kristopher S. Villarreal

**Bachelor of Arts
December 2001 (4)**
Melissa A. Gunter
Austin C. Larner
Kathryn Woodruff
Jonathan M. Wybar

**Bachelor of Science
December 2001 (10)**
Evan J. Androl
Julianna S. Arseneau
Carrie A. Beveridge
Jennifer A. Cote
Marcus O. Gary
Kelley E. Keese
James M. Levy
Susan C. Palachek
Claudia E. Robinson
Adrienne U. Ruppelt

**Bachelor of Arts
May 2002 (4)**
Calvin A. Lee –
Special Honors
Kristen A. Meek
Paul R. Murach
Evan A. Royal

**Bachelor of Science
May 2002 (10)**
Holly L. Barton
Anne M. Christian
David Charles Dunbar
Whitney E. Goodrich
Chadwick A. Hintz
Christy M. Kohl –
High Honors
Amanda J. McCutcheon
Kevin W. Stafford
Christopher B. Strganac
Erik D. Wofford



The new Barrow Family Conference room that replaces the previous 310 conference room. Remodeling and expansion of the Conference Room was supported by Advisory Council Honorary Life Member Dr. Thomas D. Barrow on behalf of the Barrow Family.

AAPG

STUDENT CHAPTER

2001-2002 Officers

President

Eric Tuitjer

Vice-President

Matt G. Morris

Treasurer

Tina R. Foster

Graduate Student Liaison

Claudia Rassi

Undergraduate Liaison

A. Dax McDavid

Recruitment Committee

Russell K. Barrett

Brian T. Moore

Raymond F. Schiltz

Faculty Sponsor

William L. Fisher

A Groundbreaking Year For The UT Student Chapter of AAPG!

The AAPG student chapter at The University of Texas at Austin took several major strides toward the goal of becoming the premier AAPG student chapter in the nation. Under the guidance of Dr. Bill Fisher, the officers set this year's priorities:

- 1) Recruitment
- 2) Involvement
- 3) Professional Development

Recruitment

This year's membership ballooned to 80 members, making the Jackson School of Geosciences home to one of the largest AAPG student groups in the country.

Of those 80 members, half took the extra step to stay involved, meeting the minimum active membership requirement. Congratulations go to these students for making our organization the success that it is.

Involvement

Meetings, seminars, technical talks, and conventions... you name it, we did it. AAPG@UT hosted eight extracurricular events this year besides our monthly meetings. This year we even made several trips to Houston—the heart of the energy industry.

Professional Development

In order to prepare students for the challenges of an exciting

career in the energy industry, AAPG@UT organized several talks by distinguished speakers from industry. Dr. John Armentrout gave a talk entitled "The Positive Aspects of the Oil Industry." Dr. Stacy Atchley spoke about "Successes in a Petroleum Career." Dr. Peter Rose hosted a resume-writing seminar. Finally, Cliff Crowe, a former Texaco recruiter, gave a talk about preparing for the interview process.

If you're an undergraduate or graduate Geoscience or Petroleum Engineering major, we encourage you to attend the next AAPG meeting in the fall. It might just be the best decision you ever made for your career!

The AAPG@UT Mission

Founded in 1917 the American Association of Petroleum Geologists is currently the world's largest professional geological society. Here at The University of Texas at Austin, the Jackson School of Geosciences houses one of the largest student AAPG chapters in the country. Each semester, we strive to educate students in both a technical and a professional sense. It is our ultimate goal to prepare undergraduate and graduate students alike for the challenges that lie ahead as they enter the energy industry.

BUREAU OF ECONOMIC GEOLOGY

Director Scott W. Tinker continues to set high standards of research, partnerships, public education, and outreach at the Bureau of Economic Geology. Associate Directors Douglas C. Ratcliff (Administration), Jay A. Raney (Environmental Programs), and Eric C. Potter (Energy Programs) contribute greatly to the Bureau's mission, particularly since the establishment of the John A. and Katherine G. Jackson School of Geosciences.

Bureau researchers are leaders in their fields. Those researchers to contribute most recently to the Bureau's reputation for excellence received major awards within the past year. William L. Fisher received the William H. Twenhofel Medal for Excellence in Sedimentary Geology, the highest award given by SEPM (Society for Sedimentary Geology). Julia F. Gale (nee Stowell) and Stephen E. Laubach received one of two Honorable Mention Oral Presentation awards for their research presented at the 2001 Society for Sedimentary Geology (SEPM) Annual Meeting in Denver, Colorado. Bob A. Hardage was awarded the A. I. Levorsen Memorial Award for Best Paper at the 2001 Southwest Section, American Association of Petroleum Geologists annual meeting in Dallas. A paper written and presented by author James W. Jennings, Jr., and coauthor F. Jerry Lucia for the Society of Petroleum Engineers, was selected as a highlight article for the November 2001 issue of the *Journal of Petroleum Technology* and chosen to be presented again in the "Best of SPE" session at the 2002 Annual Meeting of the American Association of Petroleum Geologists. Charles Kerans was chosen as an American Association of Petroleum Geologists International Distinguished Lecturer for 2002. Stephen E. Laubach received an Honorable Mention Poster Presentation award for research presented at the 2001 Society for Sedimentary Geology (SEPM) Annual Meeting in Denver, Colorado. Robert G. Loucks received second place in the Thomas A. Philpott Excellence in Presentation Awards for his poster session at the 2001 Annual Convention of the Gulf Coast Association of Geological Societies. Bridget R. Scanlon (BEG) and Robert E. Mace, Texas Water Development Board, received the 2000 Barton Springs Edwards Aquifer Conservation District Award for Research for

their groundwater model of the Barton Springs segment of the Edwards aquifer. Scott W. Tinker was named a Distinguished Lecturer in the inaugural (2002) joint lecture series of the Society of Petroleum Engineers/Society of Exploration Geophysicists/American Association of Petroleum Geologists. Bruno C. Vendeville was named a Fellow in the Geological Society of America. Lesli J. Wood received the 2001 J. C. "Cam" Sproule Memorial Award from the American Association of Petroleum Geologists for her paper published in *AAPG Bulletin* and an Honorable Mention Poster Presentation award for research presented at the 2001 Society for Sedimentary Geology (SEPM) Annual Meeting in Denver, Colorado.

Members of the Bureau staff also hold office and serve on wide-ranging committees. Shirley P. Dutton and Stephen C. Ruppel were *Transactions* Co-Editors for the 2002 Gulf Coast Association of Geological Societies Annual Meeting; Stephen E. Laubach served as Research Committee Vice-Chair for the American Association of Petroleum Geologists and as member of the Editorial Board for *SPE Reservoir Evaluation and Engineering*, Society of Petroleum Engineers; Robert G. Loucks was a Research Committee member for the SEPM (Society for Sedimentary Geology) and for the American Association of Petroleum Geologists; Douglas C. Ratcliff served as General Chairman for the 2002 Gulf Coast Association of Geological Societies Annual Meeting; Bridget R. Scanlon was workshop facilitator for *Groundwater Fluxes Across Interfaces*, National Academy of Sciences; Scott W. Tinker, Regional Lead Organization Director for the Texas Region Petroleum Technology Transfer Council, also was a Member of the Oil Field Cleanup Advisory Committee appointed by State of Texas Lieutenant Governor Bill Ratliff; Ramon H. Treviño served as Treasurer for the 2002 Gulf Coast Association of Geological Societies Annual Meeting; Sigrid J. Clift was Assistant Director of the Texas Region Petroleum Technology Transfer Council; Khaled Fouad served on the Technical Program Committee for the 71st Society of Exploration Geophysicists Annual Meeting; Bob A. Hardage was Technical Program Committee Chairman for the 71st Society of Exploration Geophysicists Annual



Students get hands-on instruction about careers in water resources at the 2001 Austin Earth Science Career Fair Day held at the UT Austin J. J. Pickle Research Campus.

Meeting; James W. Jennings, Jr., was Technical Editor for the Society of Petroleum Engineer's journal titled *Reservoir Evaluation and Engineering*; Jeffrey G. Paine was Associate Editor for *Environmental and Engineering Geoscience*; Eric C. Potter reviewed Grant-in-Aid Proposals for the American Association of Petroleum Geologists while on the Scholarship Committee; Shinichi Sakurai served on the Technical Committee for the Society of Professional Well Log Analysts; and Lesli J. Wood was Offshore Technology Conference subcommittee member for the American Association of Petroleum Geologists.

This past year the Bureau welcomed the following new research staff: Sergey Fomel, Rebecca H. Jones, Jeff Kane, Paul E. Murray, H. Seay Nance, and Jean-Philippe Nicot. New support staff include Paula Beard, Cari Breton, William Doneghy, John Mercado, Randy McDonald, Cary Urso, and Tatiana Fomel.

The Bureau continues to increase its involvement at local, national, and international conventions. These include those hosted by the American Association of Petroleum Geologists, American Geophysical Union, American Institute of Professional Geologists, Association of American State Geologists, CAST (Conference for the Advancement of Science Teaching), Coastal GeoTools, Geological

Society of America, GEO Middle East Geoscience Conference, New Mexico Geological Society, Society of Exploration Geophysicists, Society of Petroleum Engineers, SEPM (Society for Sedimentary Geology), and the geological societies of East, West, and South Texas. The Bureau is playing a major role in preparing for the 2002 Gulf Coast Association of Geological Societies Annual Convention scheduled for October 30 through November 1, in Austin, Texas.

TEXAS-BASED RESEARCH

The U.S. Department of Energy (DOE) is a funding partner for Bureau research both within and outside Texas. The DOE currently supports Texas-based research into CO₂ sequestration, West Texas and New Mexico reservoir characterization, gas-hydrate and four-component seismic applications, engineered covers for toxic-waste containment, updating Permian Basin data contained in the *Atlas of Major Texas Oil Reservoirs*, the Offshore Secondary Gas Recovery (SGR) program, and the Texas Region Petroleum Technology Transfer Council.

Other Texas projects include

- ◆ ULARI: University Lands Advanced Recovery Initiative; a long-term partnership with the University of Texas System designed to increase oil and gas production on UT leases in West Texas.
- ◆ STARR: The State of Texas Advanced Resource Recovery project; another long-term, UT-State project designed to increase royalties to the Permanent School Fund.
- ◆ STATEMAP: a joint Bureau-U.S. Geological Survey project that generates geologic maps of regions vital to Texas.
- ◆ Groundwater Availability Modeling project for the Texas Water Development Board, designed to provide standardized groundwater data for the public.
- ◆ Advanced airborne geophysical surveys to identify underground water sources in the Lower Rio Grande Valley and elsewhere.
- ◆ LIDAR (light detection and ranging) surveys to create detailed topographic surveys for monitoring coastal erosion and storm hazards along the Texas and other Gulf shorelines.

In spring 2002, the Bureau and UT became benefactors of British Petroleum's generous donation of its state-of-the-art core laboratory in Houston, Texas. This brings to three the number of Core Research Centers (CRC's) owned by UT and managed by the Bureau. This new CRC will increase the size and holdings of UT-owned and Bureau-managed geologic core and cuttings by 35%. It will enable the Bureau not only to vastly increase core inventory and provide easy access of geologic material to geoscientists throughout Texas, but also to open up facilities for short courses, workshops, and public outreach.

RESEARCH AROUND THE WORLD

Bureau scientists conduct global research through four well-established, industry-supported Industrial Associate Programs.

- ♦ Applied Geodynamics Laboratory (AGL): tectonic processes and related salt movement associated with oil and gas.
- ♦ Exploration Geophysics Laboratory (EGL): multicomponent seismic technologies to help "image" oil and gas reservoirs.
- ♦ Fracture Research and Application Consortium (FRAC): characterization and prediction of fractures and faults at reservoir scale.
- ♦ Reservoir Characterization Research Laboratory (RCRL): characterization of carbonate reservoirs.

2001 was a significant and productive year for research and collaboration between the Bureau and geoscientists at Mexico's PEMEX Exploration and Production. Two multidisciplinary studies of basins in eastern Mexico were completed, a new basin analysis collaboration was begun, and a second project will begin before the end of the year.

Bureau researchers are also continuing to work in Belize. The current research project, funded by NASA, involves evaluating new imagery acquired by the EO-1 satellite. Although researchers are mainly comparing Landsat 7 imagery with new data, the new imagery also captured the effects of Hurricane Iris (October 2001) on southern Belize. Hurricane Iris cut a swath through foliage and forest that can be mapped on the EO-1 data. This information, valuable to the Government

of Belize, is an opportunity for compelling research as well.

In October 2001, the Bureau purchased a state-of-the-art ILRIS 3-D ground-based Lidar scanner. It helps researchers scan vertical targets (such as outcrops) and produce 3-D grayscale images with centimeter-point spacing. To date, ILRIS 3-D surveys have been made of deepwater carbonate outcrops in West Texas, Spain, and Chile.

EDUCATION AND OUTREACH

- ♦ In its capacity as the Texas geological survey, the Bureau serves the public by maintaining Core Research Centers, the Data Center (composed of the Geophysical Log Facility and the Reading Room), and Publication Sales. These facilities are open to the public Monday through Friday from 8:00 a.m. to 5:00 p.m.
- ♦ The Texas High School Coastal Monitoring Program: Bureau researchers work with high school students and teachers, teaching them how to measure the topography, map the vegetation line and shoreline, and observe weather and wave conditions.
- ♦ Together with the American Geological Institute, researchers continue to develop interactive, Web-based education modules for training in geological, geophysical, and engineering methods of reservoir characterization.
- ♦ Career Fair Day, in celebration of the nationwide Earth Science Week, is held at the J. J. Pickle Research Campus. Middle-school students spend the day with geoscience experts who discuss their work as geologists, paleontologists, meteorologists, space engineers, museum curators, educators, hydrologists, and geochemists. The third annual fair will be October 15, 2002. In addition to the fair, the Bureau now hosts the Texas Earth Science Week Website.
- ♦ Texas Region, Petroleum Technology Transfer Council (PTTC): Funded by the DOE, the Texas Region PTTC works to identify the technological needs of independent oil and gas producers and then transfers the technology to them via the website, workshops, and newsletters.

Visit our website at www.beg.utexas.edu.

INSTITUTE FOR GEOPHYSICS (UTIG)

by Katherine Ellins

WAGN: WEST ANTARCTIC GPS NETWORK

(Sponsors: National Science Foundation and Leica Geosystems)

UTIG Scientists Ian Dalziel and Fred Taylor teamed up with colleagues from the Pacific GPS Facility at the University of Hawaii and the Center for Earthquake Research and Information at the University of Memphis on a multi-year project to study the tectonic activity beneath the West Antarctic Ice Sheet.

The goal is to understand how these motions influence the behavior of the overlying ice sheet, an area of critical importance to global climate and, particularly, future changes in global sea level. The scientists made one set of GPS position measurements in the 2002 austral field season at 15 different sites. They will re-measure the positions of the sites in 2004 to determine the magnitude and rates of the vertical and horizontal motions of the underlying bedrock.

GEOCLUTTER

(Sponsor: Office of Naval Research)

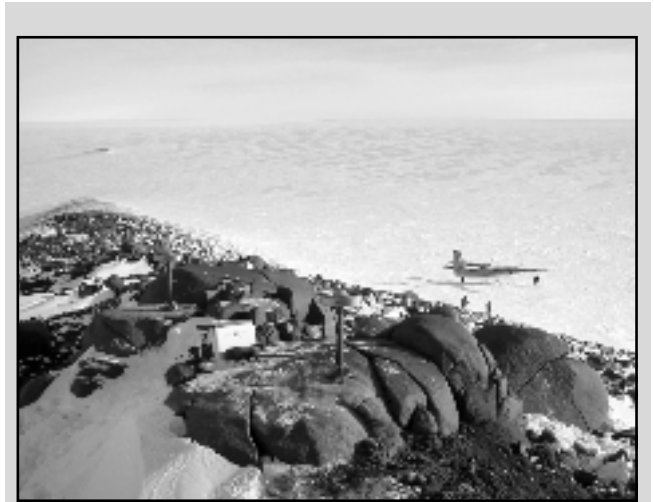
UTIG Scientists James Austin, John Goff, Sean Gulick, and Craig Fulthorpe are carrying out a series of cruises offshore New Jersey to explain and predict geologic features that can produce false alarms on naval sonars, or “geologic clutter.” GEOCLUTTER supports two graduate students.

DATA-INTENSE CHALLENGE: THE INSTRUMENTED OIL FIELD OF THE FUTURE

(National Science Foundation: \$2 million)

UTIG Scientists Mrinal Sen and Paul Stoffa, together with Mary Wheeler and her colleagues at the Texas Institute for Computational and Applied Mathematics, the University of Ohio, and the University of Maryland, are collaborating on a project to advance computational technologies that will allow industry to create a new generation of data-driven, interactive strategies for subsurface characterization, and hydrocarbon reservoir management of the oil field of the future.

The researchers will use parallel computers to obtain reservoir models using diverse data types including seismics, well-logs, petrophysics, reservoir history, and fluid flow data. The goal is to improve analytical techniques to permit rapid visualization of the large volume of time-lapse image data.



Field work area in West Antarctica.
Photo provided by Katherine Ellins.

EXAMPLES OF UTIG ACTIVITIES 2001–2002

WAGN: West Antarctic GPS Network
(NSF and Leica Geosystems)

- ◆ GEOCLUTTER (ONR)
- ◆ The Instrumented Oil Field
- ◆ Gas Hydrates: ODP Leg 204 and Two-Ship Converted Wave Experiment (NSF, DOE, and Schlumberger)
- ◆ Trinidad and Venezuela: Stratigraphy, Structure and Depositional Processes
- ◆ Numerical Climate Modeling Initiative (Vetlesen Foundation)
- ◆ K-12—New Initiatives
- ◆ The Integrated Ocean Drilling Program
- ◆ UTIG Fellowship Recipient Seminars (May 2002)

Other Field Programs:

- (1) Nicaragua–Costa Rica Seismic Reflection/Refraction Project (NSF)

- (2) Western Pacific Warm Pool Paleoclimate Records from Solomon Islands Corals
- (3) WAIS-CORES—the Western Antarctic Ice Sheet Inland Core Site Selection Project
- (4) SOAR Field Season and
- (5) Chicxulub Intercontinental Drilling Program Project

GAS HYDRATES: ODP LEG 204 AND A TWO-SHIP CONVERTED-WAVE EXPERIMENT

The Ocean Drilling Program Leg 204 (July and August 2002) will drill offshore Oregon to study gas hydrates on convergent margins. In conjunction with Leg 204, NSF has funded a two-ship program to conduct converted-wave experiments in the ODP boreholes with offset-vertical seismic profiles (VSPs).

UTIG Scientists Nathan Bangs, Mrinal Sen, Yosio Nakamura, and Ingo Pecher, and two graduate students from the Department of Geological Sciences will participate in this program. Their goal is to obtain the first-ever continuous shear wave velocity profile through gas-hydrate-bearing marine sediments, permitting calibration of converted-wave studies of gas hydrate reservoirs worldwide. To do this, the scientists will deploy a seismometer from the drillship into each borehole to record seismic shots generated by an energy source on the second ship.

The U.S. Department of Energy's (DOE) National Energy Technology Laboratory has awarded the Joint Oceanographic Institutions (JOI) nearly \$1 million to study gas hydrates on ODP Leg 204. JOI, a consortium of 16 U.S. academic institutions, manages ODP, which is an international partnership to study the evolution and structure of the Earth from information contained in seafloor sediments and rocks. UTIG is a member of JOI. Paul Stoffa, the Director of UTIG, is the chair of the JOI Board of Governors. Schlumberger, FUGRO USA, FLIR Systems, and Rice University are partners with JOI in this project.

STRATIGRAPHY, STRUCTURE, AND DEPOSITIONAL PROCESSES, OFFSHORE EASTERN TRINIDAD AND VENEZUELA

(Sponsored by an industry consortium)

Trinidad and Tobago and its offshore margins are a leading source of oil and natural gas to the U.S. market and will continue to be so for the early part of the 21st century.

UTIG Scientist Paul Mann and BEG colleague Lesli Wood are involved in a project to characterize the Pleistocene and Holocene stratigraphy, structure, and depositional processes offshore Eastern Trinidad and Venezuela. They will integrate existing industry 3-D seismic data for the shelf, slope, and deep basin of the Eastern offshore region of Trinidad.

The project is supported by a consortium of companies, including Shell, Conoco, Norsk-Hydro, BHP-Billiton, Talisman, and TotalFinaElf. The Trinidad Ministry of Energy will also provide data.

The Trinidad project builds on the success of the Gulf Basin Depositional Synthesis (GBDS) project, now in its seventh year and currently funded by 16 major oil companies. William Galloway and Richard Buffler are the GBDS project directors; Patty Ganey-Curry is the project manager. The project provides an overall geologic framework for the Gulf of Mexico and is used as an exploration tool. Throughout its history, the GBDS project has supported undergraduate and graduate students, as well as postdoctoral fellows.

UPDATE ON UTIG'S NUMERICAL CLIMATE MODELING INITIATIVE (VETLESEN FOUNDATION)

UTIG's numerical climate modeling group has grown to include Paul Stoffa, Mrinal Sen, Donald Blankenship, Fred Taylor, Charles Jackson, Robert Scott, and two postdoctoral fellows, Qiaozhen Mu and Yuolong Xia. The group collaborates with colleagues in the Department of Geological Sciences and the Environmental Science Institute.

The goal of the program is to characterize the uncertainties of the climate system using numerical climate models and other analytical tools to evaluate observational climate variations preserved in the geologic record. Projects currently underway include estimating uncertainty within a three-dimensional climate model, an investigation of the portability of the NCAR climate model to the SGI Origin and DEC Alpha machines, the application of the reduced dimension climate model for use in uncertainty estimates of surface forcing of North Atlantic over the last glacial cycle, and estimating optimal parameters and their uncertainty for land surface models using a dataset from a site in The Netherlands.

Fred Taylor serves as co-chair of the Environmental Science Institute Climate Change Working Group.

K-12 EDUCATION – NEW INITIATIVES

GK-12 Fellowship Program: The National Science Foundation has awarded the Environmental Science Institute (ESI) at The University of Texas at Austin \$1.52 million to

partner graduate students in the sciences with K-12 teachers in Texas to enhance science education through new classroom activities, workshops, and field projects. UTIG researchers Ian Dalziel and Katherine Ellins are two of the co-principal investigators on the project. The 3-year project will support nine graduate fellows and four advanced undergraduate fellows each year to serve as resources for K-12 students and teachers in science and mathematics in Texas. Three graduate students from the Department of Geological Sciences will be awarded fellowships to assist with three UTIG outreach projects: *Adopt-A-School*, *Teachers in the Field*, and *TEXTREAMS Leadership Training* for teachers of the Texas high school course: *Geology, Meteorology, and Oceanography*.

Katherine Ellins is involved in education and outreach planning for *EarthScope*, a major new geoscience initiative to understand the structure and deformation of the North American continent supported by NSF, NASA, the USGS, and DOE.

UPDATE ON THE INTEGRATED OCEAN DRILLING PROGRAM

The Ocean Drilling Program (ODP) (1984-2003) and the Deep Sea Drilling Project (1968-1983) comprise the longest-running, most successful, collaborative international project in the Earth Sciences. In 2003, the Integrated Ocean Drilling Program (IODP) will succeed ODP. IODP will use new resources to support technologically advanced ocean drilling research, including a riser vessel built by Japan, and a non-riser ship sponsored by the United States. The use of additional platforms for drilling in shallow water and ice-covered regions is incorporated into the scientific planning.

With the new technology provided by the two ships, additional platforms, and enhanced shore-based facilities, IODP will enable investigation of Earth's regions and processes that were previously inaccessible and poorly understood. IODP science will focus on three primary themes: *The Deep Biosphere*, *Environmental Change and its Impact on Life*, and *Solid Earth Cycles and Geodynamics*.

UTIG Scientists Jamie Austin, Paul Stoffa, Nathan Bangs, Tom Shipley, and Katherine Ellins are heavily involved in planning for IODP and the U.S. participation in the new

program. Funding for IODP will be provided by the U.S., Japan, and consortia of other countries. The U.S. contribution will be about \$120 million, provided by NSF, toward a non-riser drillship, and \$60 million (NSF) per year to support science programs.

SPECIAL EVENTS

In May, UTIG hosted a two-part seminar series to allow graduate students who had received UTIG fellowship support for the 2002 spring semester to present their work. The following fellowship recipients made presentations:

- ◆ Imtiaz Ahmed (Phillips Petroleum Fellowship), *Multichannel Seismic Imaging of the Lower Slope, Offshore Nicaragua*
- ◆ Bob Burger (Ewing-Worzel Fellowship), *Eel River Basin Sequence Morphologies*
- ◆ Kris Gudapati (Gale White Fellowship), *Study of the Opening of the Bransfield Basin Using GPS*
- ◆ Dhananjay Kumar (Ewing-Worzel Fellowship), *Seismic Modeling in Heterogeneous Media*
- ◆ Hongbo Lu (Ewing-Worzel Fellowship), *Global and Local Controls on Depositional Cyclicity: the Canterbury Basin, New Zealand*
- ◆ Tip Meckel (Gale White Fellowship), *Neotectonics at the Hjort Trench Pacific-Australia Plate Boundary*
- ◆ Anubрати Mukherjee (BP Fellowship), *Seismic Data Processing in Transversely Isotropic Media: A Plane Wave Approach*
- ◆ Sylvia Nordfjord (BP Fellowship), *Quaternary Geologic History of the New Jersey Middle and Outer Shelf*
- ◆ Hao Xun (Gale White Fellowship), *Evaluating the Distribution of Gas Hydrate and Free Gas beneath Hydrate Ridge, Oregon Continental Margin, from AVO Analysis*

NEW APPOINTMENTS

Harm van Avendonk, Research Associate (Marine Geology and Geophysics). Ph.D., 1998, Scripps; B.S., 1993, Geophysics, Utrecht University, The Netherlands.

Robert Scott, Research Associate (Computer Climatology). Ph.D., 1999, McGill University; M.S. Eng., 1995, and B.S. Eng., 1988, Queens University, Canada.

Environmental Science Institute

This has been a busy and exciting year for the Environmental Science Institute (ESI). Formed in October 2000 with the help of the Department of Geological Sciences, the Institute's mission is to bring together faculty and students in the life, Earth, physical, and social sciences to form a focused, interdisciplinary program of environmental research. Under the leadership of Director Jay Banner, ESI has pursued this mission through the creation of Working Groups, the continuation of the Outreach Lecture Series (co-sponsored by the Department of Geological Sciences), and graduate student fellowships. With a recent grant award from the National Science Foundation and the continued success of conferences and outreach activities, it doesn't look like things will slow down anytime soon.

GK-12 Program

In May, ESI was awarded a \$1.52 million grant from the National Science Foundation to partner graduate students in the sciences with K-12 teachers in Texas to enhance science education through new classroom activities, workshops, and field projects. The GK-12 program will build on existing outreach activities involving the university and local school systems within Texas. These include the Marine Science Institute's Study of Arctic Change, the Environmental Science Institute/Department of Geological Sciences Outreach Lecture Series, and the Institute for Geophysics Adopt-A-School,

Teachers in the Field and TEXTEAMS Leadership Training for teachers of the Texas high school course, Geology, Meteorology, and Oceanography.

The 3-year project will provide support for nine graduate fellows and four advanced undergraduate fellows each year to serve as resources for K-12 students and teachers in science and mathematics in Texas. The program will emphasize collaboration in K-12 classrooms and in field projects on Texas watersheds, estuaries, and ocean-going vessels. Principal investigators for the project are Drs. Ken Dunton of the Marine Science Institute, Jay Banner of the Department of Geological Sciences, Ian Dalziel and Katherine Ellins of the Institute for Geophysics, and James Barufaldi of the Department of Curriculum and Instruction. Details of the program can be found at: <http://www.geo.utexas.edu/esi/gk12/>.

Workshops and Symposia

ESI sponsored three conferences this year, starting in August 2001 with a workshop on the Edwards-Trinity aquifer system. Held at the Lady Bird Johnson Wildflower Center in Austin, the event was co-sponsored by the U.S. Geological Survey (USGS) and the San Antonio Water System (SAWS). The purpose of the workshop was to provide an opportunity for local, state, and federal agencies involved in Edwards-Trinity issues to strategically plan a comprehensive course of investigation and data

collection for the Edwards aquifer, its catchment area, and the flora and fauna of the associated ecosystem. An overview of the aquifer system was provided by Dr. Jack Sharp of the Department of Geological Sciences, with numerous presentations by researchers from The University of Texas at Austin, as well as staff of the Texas Water Development Board, USGS, and SAWS.

In February, ESI addressed the challenges for future research along the Mexico-Texas border. *Water along the Mexico-Texas Border: Challenges for Future Research*, held in the Bass Lecture Hall at the LBJ School of Public Affairs, brought together experts from both sides of the border to discuss the water quality and quantity challenges facing that region. The afternoon session included a simulation exercise of water allocation under conditions of drought, with the U.S. and Mexican water managers as the players. This event was co-sponsored with the College of Natural Science, Teresa Lozano Long Institute of Latin American Studies, College of Liberal Arts, and the LBJ School of Public Affairs.

In May, the ESI Climate Change Working Group sponsored a mini-symposium on climate change research at The University. Climate change is a research topic of growing significance that requires multidisciplinary approaches. The presentations by researchers throughout The University showcased their ongoing projects, including climate modeling and analysis, global and regional paleoclimate



Susan Combs, (center) Commissioner of the Texas Department of Agriculture, discusses the challenges of regulating water quantity and quality in the Rio Grande/Rio Bravo at the *Water Along the Mexico-Texas Border: Challenges for Future Research* conference. Photo by Doug Marshall, LBJ School Communications.

records, and environmental and ecosystem response to climate change. The main goal of the symposium was to inform the research community of the multidisciplinary opportunities that can be developed in this growing field.

Announcements

ESI is now served by three Associate Directors: Dean Hendrickson, Kelley Crews-Meyer, and Melba Crawford. Dr. Hendrickson is Curator of Ichthyology, Texas Natural History Collections and the Texas Memorial Museum, and is a Lecturer in the section of Integrative Biology. His research focuses on conservation, ecology, evolution, and biogeography of freshwater ecosystems, particularly those of North American deserts. Dr. Crews-Meyer is an Assistant Professor in the Department of Geography. Her research and teaching interests include remote sensing, Geographic Information Science,

land use/land cover change, human-environment interactions, environmental policy, Thailand, Amazonian Ecuador, and global tropics. Dr. Crawford is a Professor in the Department of Mechanical Engineering. Her expertise is in the development of algorithms for analysis of digital imagery, with particular focus on earth resources applications using remotely sensed data. Dr. Crawford is also head of the remote sensing and image processing group at the UT Center for Space Research.

Three graduate students from the Department of Geological Sciences were among those awarded an ESI 2002 Graduate Summer Fellowship: Marcus Gary, Amy McCole, and Christopher Caran.

♦ The focal point of Mr. Gary's research is a karst aquifer in Northeastern Mexico containing a 350-meter-deep sinkhole. This sinkhole is part of a complex underwater cave system that provides a unique window into

the depths of the aquifer. The data gathered will be integrated into a Geographic Information System so it can be interpreted to support theories as to the origin and development of deep phreatic aquifers.

♦ Ms. McCole's research will trace the water source used by Ashe Juniper trees in the Honey Creek Watershed in Central Texas through the use of stable isotopes of hydrogen and oxygen. This information will aid in formulating an accurate model of the watershed system which can then be applied to management of the watershed vegetation community to best enhance productivity and water yield to the Edwards aquifer.

♦ Mr. Caran's research focuses on spring-mound travertine deposits and the record they provide of regional Quaternary paleo-environmental conditions in Central Texas. The resulting multi-proxy environmental history of this region will test climatic models that are linked to orbital forcing functions and coupled ocean-atmosphere oscillation cycles.

Outreach

The Outreach Lecture series has had a busy year, as well. Cindy Yates joined the Outreach Lecture Series Committee in January as the Program Coordinator for the series. Cindy's background includes teaching multimedia development classes at Austin Community College, creating educational CD-ROMs, and even some time working as an environmental engineer. For more information on the lecture series, see "*Outreach Lecture Series*" in this issue of the *Newsletter*.

Walter Geology Library

by Dennis Trombatore

By the time this *Newsletter* is in your hands, the old Walter Library will no longer exist. Beginning in June, thanks to a \$1.2 million gift from the Walter family, the library will be completely vacated, and a total renovation will have begun. By the time the new building opens in January, we should be hard at work reinstalling shelving and moving the books and maps back into the newly renovated space. The renovation will handsomely complement the new entrance area opening of the Jackson School building.

The new Library will be quite a change from the aging '60's era space. We will have a more coherent and open layout, 2,000 additional square feet, a more functional staff work area, and much nicer furniture and decor. Thanks to the Walters' gift, the new space will open seamlessly into the renovated space, and the much maligned "back room" area will get the structural modifications and facelift it needs (windows, too!) to make the Library a single, integrated space. The old entrance will become an emergency exit, and the Tobin Map Collection will move to the former entry area to arrange the map cases more efficiently. Pardon our dust, and watch this space next year for pictures!

For the fall semester, the Library will not have night or weekend hours. If you are planning a research trip to campus, be sure to check our Web site (<http://www.lib.utexas.edu/geo/>) for news and details on how to request materials from storage, or call us at (512) 495-4680 to plan your visit for maximum productivity.

This year has been a stressful one for the staff, planning the complex procedures required to provide continuous services to our

users while the collection is off-site. Our goal is to offer access/delivery within one working day as we page materials from the off-site storage facility. We expect that the online availability of a large number of our major current journals for campus users will also help to minimize user frustration.

Complicating the year's activities, several staff members have battled significant health-related problems this year, but everyone has rallied, and we were able to maintain services despite the added tasks (and meetings!) required for renovation preparation. To recognize their efforts in particular, Alice Dewberry and Carol Russell have been awarded this year's Thelma Lynn Guion Geology Library Staff Award. My personal thanks to them and to everyone on the staff, and our heartfelt condolences to our colleague Jim McCulloch, whose much-loved wife, Kay Sutherland, died of leukemia in May.

In other news, Dennis Trombatore continues to serve on the GeoRef Advisory Committee, and the Walter Library's collection continues to be a regular contributor of citations to add to the database. Dennis was also asked by Sharon Mosher to serve as an advisor to a GSA joint society committee studying an e-journal aggregate project. Dennis joined with his colleagues from the UT Science Libraries again to team-teach the Science Reference Sources class for the Library School this spring. Meanwhile, the ARCO library gift review is ongoing, with the expectation of completing that project this coming year.

The Walter Library Web site also sports a new collection guide to Trans-Pecos Geology (http://www.lib.utexas.edu/geo/trans_pecos.html), created by

former staffer Piper Martin, and our grant-funded project to digitize the Third Geological Survey of Texas (the Dumble Survey) has also been completed (<http://www.lib.utexas.edu/books/dumble/index.html>). The Dumble Survey project grant was from the Texas State Library, with additional support from the Walter Fund, and the General Libraries has applied for another Texas State Library grant to digitize more early Texas geology publications.

All in all, it has been quite a year, with more excitement to come, including another small cutback in subscriptions to keep us within funding limits. Never a dull moment! Thanks, as always, to all our alumni, donors, and regular users for their support and encouragement.

As a "final" note, subsequent to the demise of Bedlam this May, a number of files of Bedlam-related memorabilia have appeared in the Library. We are organizing this material and will eventually deposit it in The University archives for the Department, to document the 50-year history of this unique and delightful tradition. If you have songs, skits, and (especially) identified photographs from Bedlam's past, please send them to us, and we'll include them in the collection. Our postal address is Walter Geology Library, Department of Geological Sciences C1100, The University of Texas at Austin, Austin, Texas, 78712-1100, and the e-mail address is drtgeo@mail.utexas.edu.

Donors of Books and Materials – Walter Geology Library: 2001-2002

Antar Abdel-Wahab
Daniel F. Barker
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Julia Buta
Sueng Soo Chun
Mark Cloos
Patricia W. Dickerson
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Keith Young



Bill Muehlberger, with Harrison H. "Jack" Schmitt and Dick Gordon (right), back-up crew for Apollo 15, discussing the geology of Arroyo Hondo, near Taos, New Mexico, in preparation for doing geologic traverse along the rim of the Rio Grande Gorge. NASA Photo S-71-24835, March 1971. Photo provided by William Muehlberger.

INVESTIGATE ANOTHER BRANCH OF THE NON-VERTEBRATE PALEONTOLOGY LAB (NPL)!



Virgil Barnes (left) receiving the Barringer medal in Vienna, Austria, in 1989. Image by Christian Koeberl, University of Vienna.

Virgil Barnes: A Remarkable Geologist by Ann Molineux

Assisted by funding from the Geology Foundation, the Barnes family, and the Susan Vaughan Foundation, the NPL spent a significant fraction of this year accessioning the tektite collection of the late Virgil Barnes into the geological collections of the Texas Memorial Museum. The project has involved physical relocation and curation of specimens, creation of a database (set to go on-line in the summer of 2002), a meteorite/tektite website, and an interactive CD-ROM. The focus is to make sure the specimens and data gathered by Dr. Barnes are preserved and made accessible for teaching and research.

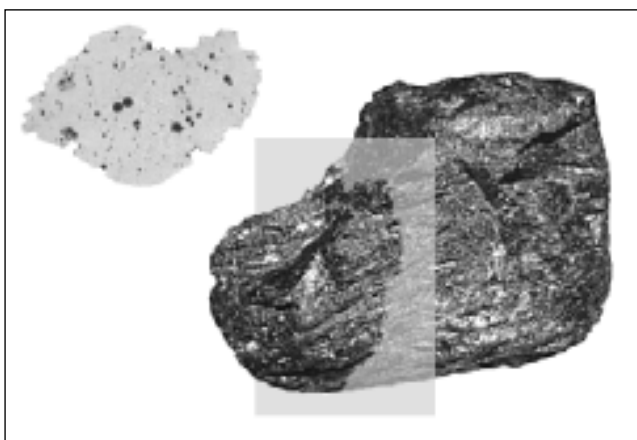
Exploring the collection and writings of Dr. Barnes has provided all of us at NPL with an insight into the dedication and meticulous scientific endeavors achieved by this remarkable geologist. During his 58 years at the Bureau of Economic Geology, Dr. Barnes completed extensive systematic geologic and mineral mapping of Texas, culminating in his direction of the *Geologic Atlas of Texas*, a 1:250,000-scale series of 38 maps published by the Bureau.

A chance encounter with a tektite (distal ejecta from some meteorite impact sites) while

completing a mineral survey in Grimes County re-focused his interests and set Dr. Barnes on a track to become a world famous tektite researcher. His field and laboratory research was funded by the National Science Foundation. This research made a critical contribution to the understanding of tektite origins (most importantly, that they formed from earth materials and not from extraterrestrial sources), and ultimately earned him the highly acclaimed Barringer Medal, presented to him in 1989 at the Meteoritical Society meeting in Vienna, Austria.

An important aspect of the NPL tektite project has been the production of an educational CD-ROM, *Impact: Texas!*, which draws upon meteorite and tektite material held in both the Museum and the Department. We have used Geographic Information System (GIS) software (ESRI's ArcView) to display world-wide tektite strewn fields and to locate craters and meteorite finds and falls within the State of Texas.

This GIS mapping project introduced an interesting historical dimension to the topic. Numerous finds in the High Plains during the



A Muong Nong layered tektite, collected by Virgil Barnes. Long dimension 8 cm. The accompanying CT scan illustrates the bubble structures within the specimen. Original images by Tim Gibbons and Matt Colbert, final collage by Melissa Gunter.



Dr. Louise Barnes talks with Tim Gibbons about the tektite project. Image by Ann Molineux.

1940's and 1950's tie in well with the drilling of the Ogallala Aquifer and development of crop farming. Additionally, H. H. Nininger, writing in 1952, noted that the late 1930's and 1940's investigation of the Plainview meteorite shower (probably occurring in 1902 or 1903) included house-to-house contact with farmers who were encouraged to look for the meteorites and offered financial rewards for specimens! Many fewer specimens have been recovered from the more heavily vegetated parts of Texas.

A fascinating series of Computed Tomography scans generated for us by the CT Lab reveals the elongated nature of "bubbles" within the layered Muong Nong tektite, a feature that would be difficult to define by more traditional sections. Ingenious student input has also enabled us to create movies with very simple "home made" equipment, to show 360° views of the external features of individual specimens. A group in TICAM (Texas Institute of Computational and Applied Mathematics) is modeling the Odessa meteorite impact for inclusion as well. Odessa is one of the best studied crater sites, and we were able to provide the group with quite detailed geological data and a description of the meteorite-strewn field. A virtual tour of the Museum's exhibit of meteorites, supplemented with specimens held by the Department, is also included on the CD. Input from scientists around

the world is allowing us the opportunity to create a lively and interactive product. We were able to talk with many of those scientists at this year's meeting of the Lunar and Planetary Institute in Houston. Although much work remains to be done, we hope to start testing the CD in educational environments by fall 2002.

Other NPL News

Other activities at the Lab have also continued to thrive. The latest tally on conservation and computerization of the collection shows that we inventoried another 62,000 specimens this year, bringing the total to date to 212,000. Food for thought...if we continue at this meager rate of inventory it will take us 65 years to complete the task! This summer we will be experimenting with ways to streamline and accelerate this vitally necessary process. The computer catalog has burgeoned to 43,000 entries, about 25 percent of all printed catalog records. Plans are under way to make the catalog accessible on the Web by the end of the year.

Over the course of the year, 143 visitors provided diversion into rudist taxonomy and systematics, brachiopod development, oyster evolution, ammonite biostratigraphy, and even potential use of leaf stomata as proxies for pCO₂ changes over time. If you have no idea what a rudist is, wait until 2005, when we hope to host the International Rudist Convention! We were especially pleased to host Drs. Virgil Barnes, II, Linda Barnes, and Dr. Louise Barnes, who made time in their busy research schedules to encourage and enable the tektite project.

The nascent *Keith and Ann Young Fund for the Curation of Non-vertebrate Collections* has now reached over \$15,000...well over half the amount required to endow the fund. On behalf of the Museum, our Director, Ed Theriot, has pledged to match the earnings of the Fund when it is endowed. This is a wonderful opportunity for us to increase the pace at which we can provide access to these collections and preserve them for future use.

If you were thinking about donating but just never quite made it to the mail with the envelope, now is definitely the time to act!

Geology Foundation Advisory Council News



Left to right, Geology Department Chairman Gary Kocurek, UT President Larry Faulkner, John A. Jackson, Director of the Bureau of Economic Geology, Scott Tinker, Dean of the College of Natural Sciences, Mary Ann Rankin, Tom Barrow, and Bill Fisher at the reception celebrating the formation of the new Jackson School, September 27, 2001.

The Geology Foundation was established by The University of Texas Board of Regents in 1953 to enhance and enrich geological education, training, and research at UT Austin. It stands as one of the best endowed foundations in support of the geosciences in the Nation with 122 endowed accounts and a current market value of about \$55 million.

The Foundation is governed by the Executive Committee consisting of the Foundation Director, the Chairman of the Department of Geological Sciences, the Director of the Bureau of Economic Geology, and the Director of the Institute for Geophysics. The Director of the Jackson School of Geosciences serves on the committee as ex officio. William L. Fisher, Leonidas T. Barrow Chair and Professor, has served as Foundation Director since 1984.

The prominent part of the Geology Foundation is its Advisory Council, currently consisting of 40 members, plus



John A. Jackson (left) with President Emeritus Peter T. Flawn (right) at the fall Advisory Council meeting, September 28, 2001.



John A. Jackson addresses the attendees of the celebration for the new Jackson School, September 27, 2001.



Geology Foundation Advisory Council Chairman L. Decker Dawson speaks at the reception held to celebrate the new Jackson School, September 27, 2001.



UT Chancellor Dan Burck at the reception celebrating the new Jackson School, September 27, 2001.

6 Honorary Life Members, drawn from the energy and environmental industries, government, and academia. The Council supports and counsels the Director and the Executive Committee. The current Chairman is Mr. L. Decker Dawson, Chairman of Dawson Geophysical Company in Midland, Texas. Mr. James C. Patterson, retired from Conoco, of Houston, is Vice Chairman. A committee of the Council, chaired by Russell Slayback, serves as an advisory committee to the Bureau of Economic

Geology. The Advisory Council meets twice a year in Austin, in the spring and fall.

Joining the Advisory Council in September 2002 is Ms. Annell R. Bay, Vice President of North America Exploration of Kerr-McGee Rocky Mountain Corporation in Denver, Colorado. Completing terms at the end of August 2002 are Dr. John R. Hopkins, retired from Conoco in Houston, Texas, and Mr. Richard M. Coffelt with Phillips Petroleum Company in Bartlesville, Oklahoma.

To these outgoing members we express our sincere appreciation for their service, support, and counsel.

The evening preceding the fall meeting of the Advisory Council in September was devoted to a celebration of the new Jackson School of Geosciences. It was



UT President Larry Faulkner addresses the crowd at the reception celebrating the new Jackson School, September 27, 2001.



John A. Jackson (right) with Jackson School Director Bill Fisher (left) at the fall Advisory Council meeting, September 28, 2001.



Advisory Council Member Bill Reynolds pictured at the fall Advisory Council meeting, September 28, 2001.



Left to right, Tom Barrow, UT President Larry Faulkner, John A. Jackson, and Bill Fisher at the reception celebrating the new Jackson School, September 27, 2001.



Annell Bay, the newest member of the Geology Foundation Advisory Council.



John A. Jackson (right) speaks with Dean Mary Ann Rankin (left) at the fall Advisory Council meeting, September 28, 2001.



John A. Jackson (right) with his sister-in-law, Anna Louise Graeter, attending the reception held to celebrate the new Jackson School on September 27, 2001.

attended by more than 200 Advisory Council members, and special honoree Jack Jackson, University officials, faculty, research staff, and spouses.

During the 2001-2002 academic year, four new accounts were established in the Geology Foundation. The Don R. Boyd Endowed Fund was created by Patricia Kidd Boyd and family in memory of her husband and their father, along with many friends of Don Boyd. This fund is to be used at the discretion of the Director of the Geology Foundation to enhance geological training and research. Don Boyd was an Honorary Life Member of the Advisory Council, a past-Chairman, and a Distinguished Graduate of the Department of Geological Sciences. He died in December 2000.

The John A. and Katherine G. Jackson Endowed Fund in Geosciences was established by a major donation from John A. Jackson on behalf of himself and his late wife to support the Jackson School of Geosciences. The School includes the Department of Geological Sciences, the Bureau of Economic Geology, and the Institute for Geophysics. Mr. Jackson is an Honorary Life Member of the Advisory Council and a member since 1975. Katherine G. Jackson died in March 2001.

The John C. and Marian B. Maxwell Endowed Undergraduate Scholarship in Geological Sciences was established in the Geology Foundation by the Maxwells to support aspiring, needy undergraduate students in the Department of Geological Sciences. John is a long-time member of the faculty and currently the Farish Chair Emeritus.



Pictured left to right, Dr. Chuck Williamson, Dr. John Hopkins, and Vice Chairman of the Geology Foundation Advisory Council Jim Patterson, at the fall Advisory Council meeting, September 28, 2001.



Weyman Crawford (left) and Rusty Walter (right) at the spring Advisory Council meeting, March 8, 2002.



Advisory Council member Bill Stokes (left) speaks with Ken Barrow at the spring Advisory Council meeting, March 8, 2002.



L. Decker Dawson presents a plaque to outgoing Advisory Council member Dr. John Hopkins at the spring Advisory Council Meeting, March 8, 2002.



Dr. Tom Barrow, Honorary Life Member of the Geology Foundation Advisory Council, speaks at the reception to celebrate the new Jackson School, September 27, 2001.



Former Chancellor Bill Cunningham (left) and John A. Jackson at the reception held to celebrate the Jackson School, September 27, 2001.

The Walter Geology Library Renovation Fund was established by Elizabeth C. Walter, Joseph C. Walter, III, and Carole Walter Looke. The purpose of the fund is for renovation and addition construction of the Joseph C. Walter, Jr. and Elizabeth C. Walter Geology Library. The Walters are long-time supporters of the Geology Foundation. Joe and Liz originally endowed the Walter Library in 1981. Joe was an Honorary Life Member and a past Chairman of the Advisory Council. Joseph C. "Rusty" Walter, III, is currently a member of the Advisory Council.

The Barrow Family Conference Room has been completed. Renovation, remodeling, and expansion of the Conference Room was supported by Dr. Thomas D. Barrow, Honorary Life Member and past Chairman of the Advisory Council. The Barrows have been long-time supporters of the Geology Foundation. Tom, his father, Mr. Leonidas T. Barrow, and his mother, Mrs. Laura Thomson Barrow, all have been elected Distinguished Graduates of the Department. A third-generation Barrow, Mr. Kenneth T. Barrow, is also a member of the Advisory Council.



Left to right, Ad Wilkinson, Jim Gibbs, and Robbie Gries, at the fall Advisory Council meeting, September 28, 2001.

Companies including BP Amoco, Chevron, Conoco, Phillips, and Texaco provided \$90,500 for graduate scholarships. Companies that provided support in the amount of \$21,500 for undergraduate scholarships included Amerada Hess, Marathon, Phillips, and Texaco. Support for other programs in the Department and Geology Foundation came from Anadarko, BP Amoco, Chevron, Conoco, Devon, ExxonMobil, McMurry, Pan Canadian, Phillips, Shell, Sipetrol, and Texaco, in the amount of \$142,000. The total in contributions from companies for the 2001-2002 academic year was \$254,000. Total contributions from companies, ex-students, and friends were \$1,872,671 in much-appreciated expendable funds during the June 1, 2001, through February 28, 2002, period. The Foundation also receives income in the form of scholarships from the Dorothy B. Banks Charitable Trust, administered by the San Antonio Area Foundation, in the amount of \$109,487 for this past academic year.



Advisory Council Chairman L. Decker Dawson (left) with Dr. Bill Preeg.



Pictured left to right, Jerry Gilbert, Bill Gipson, George Donnelly, and Toby Carleton at the fall Advisory Council, meeting, September 28, 2001.



Jerry Gilbert (left) speaks with President Emeritus Peter Flawn (center) and Bureau of Economic Geology Director Scott Tinker (right) at the fall Advisory Council meeting, September 28, 2001.

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U Udden, R. Andrew
Underwood, James R., Jr. and Margaret

V Van Gestel, Jean-Paul
Versfelt, Joseph W.
Vest, Harry A.
Vickers, R. B., Jr.

W Wagner, Bryan C.
Walker, Mark C.
Walker, Mark C. and Kathleen C.
Walston, Virgil A., Jr.
Walter, Elizabeth C.
Walter, Joseph C., III
Ward, Bernie H., Jr.
Ward, William C.
Warner, Mr. and Mrs. Ralph H.
Watkins, B. F.
Weiner, Charles G. and Anita
Weise, Bonnie R.
White, Jamie V.
White, Leslie P.
White, Steven L.
Whiteside, Wilfred D. and Shirley

Wiemann, Warren J.
Wik, Bruce D.
Wilkinson, Addison A. and Betty
Williamson, Charles R.
Wilson, James Lee, Sr.
Wilson, John A.
Winans, Melissa C.
Winter, Jan A.
Woodruff, Charles M., Jr.
Woods, Mary C.
Worrel, Charles J.
Worthington, David
Wright, John B.
Wright, Stephen S.
Wynne, J. R.

Y Yilmaz, Pinar Oya
Young, Keith and Ann S.

Z Zabriskie, Walter E.
Zachos, Louis G. and Susan G.

Business, Society, and Estate Contributors

AFMS Scholarship Foundation
Alcorn Interests, Inc.
Edwin Allday Estate
Amerada Hess Corporation
American Association of
Petroleum Geologists
American Federation of
Mineralogical Societies
Anadarko Petroleum Corporation
AT&T Corporation
Austin Gem and Mineral Society
Dorothy B. Banks Charitable Trust
Barrow Family Foundation
The Don R. and Patricia Kidd
Boyd Foundation
BP Amoco Oil
BP Foundation
Campbell Petrographic Services, Inc.
Chevron
ChevronTexaco E&P Technology Co.

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Coltex Petroleum, Inc.
Communities Foundation of Texas
Conoco, Inc.
Devon Energy Corporation
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Foundation
The Dun & Bradstreet Corp.
Foundation
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ExxonMobil Corporation
ExxonMobil Foundation
Fidelity Investments Charitable
Gift Fund
Fiduciary Trust Company
International
Holland Exploration, Inc.
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Nature Center
Howard Exploration, Inc.
Hunter 3-D, Inc.
Imagine Resources LLC
Katie Foundation Fund
The W. M. Keck Foundation
Robert S. Kier Consulting
J. D. and V. L. Langston Foundation
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Pet Associates
Phillips Petroleum Company
Phillips Petroleum Foundation, Inc.
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Seismic Micro-Technology, Inc.
Shell Oil Company Foundation
Sipetrol USA, Inc.
Texaco, Inc.
Unocal Foundation
USX Foundation, Inc.
Wilkinson Family Foundation
Williams Companies

Geology Foundation Endowed Accounts Values as of May 31, 2002

	Book Value	Market Value		Book Value	Market Value
Edwin Allday Centennial Chair in Subsurface Geology Income supplements salary and supports research of recipient	\$885,401	\$1,655,383	Wayne Franklin Bowman Endowed Presidential Scholarship Unrestricted geology scholarships	\$122,117	\$270,414
Edwin Allday Lectureship in Geological Sciences Provides for guest lectures in geological sciences	\$193,430	\$313,183	Don R. Boyd Endowed Fund Enhance geological training and research	\$44,650	\$45,224
Mary and Ben Anderson Endowment for Graduate Studies in Geology Supports graduate students and graduate programs in geology	\$43,980	\$70,206	Don R. and Patricia Kidd Boyd Lectureship in Petroleum Exploration Provides for guest lecturer in petroleum exploration	\$62,299	\$119,755
Millard B. Arick Memorial Fund in Petroleum Geology Supports students to further interest in finding and producing more oil in Texas	\$13,433	\$15,173	Brahman Energy Company Scholarship Fund Senior field course scholarship	\$20,798	\$47,335
Virgil E. and Mildred L. Barnes Distinguished Lecture Series in Geology Provides for guest lectures in geological sciences	\$46,467	\$49,393	Charl A. M. Broquet Memorial Endowed Scholarship Fund Graduate student scholarship	\$14,427	\$14,775
Col. E. M. Barron Trust Account Supports of the Barron Mineral Collection	\$134,527	\$281,914	Jesse L. Brundrett Memorial Endowed Presidential Scholarship Graduate student scholarship	\$51,725	\$88,993
Leonidas T. Barrow Centennial Chair in Mineral Resources Development of programs of excellence in mineral resources; income supplements salary and supports research of recipient	\$1,147,406	\$2,484,080	Fred M. Bullard Professorship in Geological Sciences Excellence in teaching, income supplements salary and supports research of recipient	\$381,014	\$469,509
Laura Thomson Barrow Graduate Fellowship Supports graduate students specializing in natural resources; special consideration for female students and students concentrating in field-oriented studies	\$255,688	\$452,372	Fred M. Bullard Student Research Fund Supports student research in volcanology, geothermal energy, and related fields of study	\$23,837	\$22,214
Barrow Periodical Fund Purchase periodicals for the Walter Geology Library	\$222,682	\$294,140	Thomas and Ray Burke Student Job Program Jobs for students in geologic work related to faculty research	\$251,771	\$270,319
Bloomer Fund for Motivated Students Financial aid for students not qualified for scholarships	\$137,222	\$245,999	Hal H. Bybee Memorial Fund Student field support or support of students researching geologic issues related to public policy	\$126,042	\$189,544
Leslie Bowling Professorship To attract persons from industry and government for short-term appointments of the faculty	\$283,558	\$420,071	Hal P. Bybee Memorial Fund Faculty use for research, travel, study, etc.	\$631,319	\$1,329,876
			L. W. Callender Memorial Fund Department use, unrestricted	\$62,509	\$143,554
			Dave P. Carlton Centennial Professorship in Geology Income supplements salary and supports research of recipient	\$737,652	\$1,545,945

	Book Value	Market Value		Book Value	Market Value
Dave P. Carlton Centennial Professorship in Geophysics Income supplements salary and supports research of recipient	\$577,445	\$1,284,880	Michael Bruce Duchin Centennial Memorial Endowed Presidential Scholarship Scholarship for Master's candidate with preference toward general geology	\$56,437	\$106,800
Dorothy Ogden Carsey Memorial Scholarship Fund Geology scholarships, any level, special consideration to micropaleontology students	\$226,770	\$360,623	Elf Aquitaine Petroleum Faculty Fellowship in Geological Sciences Income supplements salary and supports research of junior faculty member	\$213,768	\$371,562
J. Ben Carsey, Sr. Special Maintenance Fund Maintains teaching and research equipment	\$202,410	\$294,377	John E. "Brick" Elliott Centennial Endowed Professorship in Geological Sciences Income supplements salary and supports research of recipient	\$356,382	\$804,501
Chevron Centennial Professorship in Geology Income supplements salary and supports research of recipient	\$288,969	\$598,003	Samuel P. Ellison, Jr. Fund For Department <i>Newsletter</i> and support of faculty-alumni functions	\$105,901	\$210,759
S. E. Clabaugh Fund in Hard-Rock Geology Supports research in hard-rock geology	\$47,504	\$89,063	Energy and Mineral Resources Fund Supports programs and students in energy and mineral resources	\$34,400	\$77,230
W. Kenley Clark Memorial Endowed Presidential Scholarship Geology scholarships, any level	\$53,320	\$113,454	William Stamps Farish Chair in Geology Income supplements salary and supports research of recipient	\$483,842	\$1,031,072
Joseph S. Cullinan Memorial Scholarship in Geological Sciences Scholarship in petroleum or field geology	\$47,308	\$110,787	Peter T. Flawn Centennial Chair in Geology Income supplements salary and supports research of recipient	\$837,033	\$1,729,387
Robert H. Cuyler Endowed Presidential Scholarship Undergraduate (upper-division) and graduate scholarships	\$73,423	\$152,297	R. L. Folk/E. F. McBride Petrography Fund Supports petrography program and annual awards to students	\$27,931	\$27,472
Morgan J. Davis Centennial Chair in Petroleum Geology Income supplements salary and supports research of recipient	\$967,566	\$1,964,653	Robert L. Folk Excellence Fund in Geological Sciences To support excellence in geological sciences	\$80,747	\$90,666
L. Decker Dawson Fund in Exploration Geophysics Supports activities in exploration geophysics	\$1,014,857	\$987,811	Geology Foundation Advisory Council Centennial Teaching Fellowship Income supplements salary and supports research of junior faculty member	\$117,353	\$213,871
Ronald K. DeFord Field Scholarship Fund Field studies for graduate students	\$228,910	\$469,592	Geology Foundation Excellence Fund Unrestricted funds for any purpose of the Foundation	\$112,290	\$178,312
Alexander Deussen Professorship in Energy Resources Development of programs of excellence in energy resource, income supplements salary and supports research of recipient	\$284,602	\$482,219	Getty Oil Company Centennial Chair in Geological Sciences Income supplements salary and supports research of recipient	\$991,954	\$2,149,749

	Book Value	Market Value		Book Value	Market Value
Graduate Fellowship in Exploration Geophysics Provides one graduate fellowship in exploration geophysics	\$527,993	\$520,232	John A. and Katherine G. Jackson Endowed Fund in the Geosciences Supports the Jackson School of Geological Sciences	\$5,000,000	\$5,064,230
Miss Effie Graves Scholarship Fund Geological sciences student scholarships	\$30,370	\$75,665	John A. and Katherine G. Jackson Exploration Geophysics Fund Supports Department's activities in the area of exploration geophysics	\$25,579	\$25,246
Guy E. Green Endowed Presidential Scholarship Geology scholarships, any level	\$36,900	\$81,432	John A. and Katherine G. Jackson Fellowship in Geohydrology Graduate fellowship in geohydrology	\$281,816	\$378,609
J. Nalle Gregory Chair in Sedimentary Geology Development of program of excellence in sedimentary geology, income supplements salary and supports research of recipient	\$766,822	\$1,472,583	G. Moses and Carolyn G. Knebel Teaching Fund Promotes teaching excellence in geological sciences	\$102,908	\$222,633
J. Nalle Gregory Regents Professorship in Geological Sciences Income supplements salary and supports research of recipient	\$335,577	\$582,373	Martin B. Lagoe Student Research Fund for Micropaleontology Supports students studying in the area of micropaleontology	\$34,383	\$41,397
Thelma Lynn Guion Geology Library Staff Award For recognition of excellence by Geology Library Staff	\$16,695	\$20,697	Clara Jones Langston Centennial Lectureship in Vertebrate Paleontology Provides for guest lectures in vertebrate paleontology	\$26,722	\$55,566
Karl Frederick Hagemeyer, Jr. Memorial Endowed Presidential Scholarship General geology scholarships, any level, with preference to students from Brazoria or Kerr Counties	\$46,622	\$82,622	J. Donald Langston Special Operations Fund Purchases teaching and research equipment	\$315,792	\$493,148
George S. Heyer Memorial Fund Any purpose of the Foundation	\$105,594	\$254,530	Wann and Marietta Langston Research Fund in Vertebrate Paleontology Faculty research in vertebrate paleontology	\$128,015	\$268,860
Bill D. Holland Endowed Presidential Scholarship in Geological Sciences Scholarship for a Texas student who plans to pursue a career in the oil and gas industry	\$41,985	\$46,474	Jack K. Larsen-Mesa Petroleum Company Fund in Sedimentary Geology Supports student fieldwork in sedimentary geology	\$164,173	\$357,544
Houston Oil and Minerals Corporation Faculty Excellence Awards In recognition of outstanding service and special contributions to the teaching and research programs	\$59,634	\$131,020	Howard R. Lowe Vertebrate Paleontology Endowment Supports student fieldwork in vertebrate paleontology	\$38,872	\$82,732
F. Earl Ingerson Graduate Research Assistance Fund in Geochemistry Research assistance to graduate students in geochemistry	\$61,189	\$100,852	J. Hoover Mackin Memorial Scholarship Fund Graduate geology scholarship	\$29,147	\$61,773
John A. and Katherine G. Jackson Centennial Teaching Fellowship in Geological Sciences Income supplements salary and supports research of junior faculty member	\$176,422	\$333,592	George W. Marshall, Jr. Memorial Endowed Presidential Scholarship Graduate scholarship in general geology	\$41,188	\$65,199
			John C. and Marian B. and Maxwell Undergraduate Scholarship in Geological Sciences Supports aspiring undergraduates in Geological sciences	\$5,000	\$5,064

	Book Value	Market Value		Book Value	Market Value
Jack H. Mayfield, Jr. Fund for Excellence in Geological Sciences For innovative projects in geoscience instruction and research and for unrestricted support for continuing programs of teaching and research	\$481,770	\$799,011	Ed Owen-George Coates Fund Publication of geological research by faculty and graduate students	\$126,506	\$280,444
John H. and Lujza McCammon Endowed Scholarship Upper-division undergraduate scholarship	\$13,700	\$31,125	James C. Patterson Fund for Excellence in the Geophysical Sciences Supports excellence in the geophysical sciences	\$121,594	\$119,059
Mr. and Mrs. L. E. McCollum Scholarship in Geology Geology scholarship, any level	\$28,074	\$58,108	Bill R. Payne Centennial Teaching Fellowship Income supplements salary and supports research of junior faculty member	\$113,497	\$216,885
Michaux Scholarship Fund Geology scholarship, any level	\$13,469	\$29,199	Joyce Bowman Payne Centennial Teaching Fellowship Income supplements salary and supports research of junior faculty member	\$111,312	\$204,360
Joan A. Middleton Endowed Scholarship in Geology Geology scholarship to students, especially hydrogeology students	\$11,059	\$13,465	Pennzoil and Pogo Producing Companies-William E. Gipson Scholarships Scholarships for UT graduates seeking Master's degrees at UT	\$201,610	\$357,073
Carroll C. Miller Endowed Presidential Scholarship Geology scholarship to students pursuing careers in energy industries, preference to students from South Texas	\$36,917	\$82,539	O. Scott Petty Geophysical Fund Development of program of excellence in geophysics	\$225,120	\$462,572
William R. Muehlberger Field Geology Scholarship Fund Supports field studies at graduate or undergraduate levels	\$109,022	\$152,312	Wallace E. Pratt Professorship in Geophysics Development of program of excellence in geophysics, income supplements salary and research of recipient	\$231,293	\$476,840
Wes Ogden Memorial Scholarship in Geophysics Geophysics scholarship to students pursuing careers in energy industries	\$13,985	\$23,950	Louis and Elizabeth Scherck Geology Scholarship Undergraduate (upper division) and graduate scholarship	\$117,397	\$219,145
Fred L. and Frances J. Oliver Lectureship in Texas Hydrology and Water Resources Provides for guest lectures in water resources	\$76,625	\$140,906	Wilton E. Scott Centennial Professorship Income supplements salary and supports research of recipient	\$306,241	\$674,760
Judd H. and Cynthia Oualline Centennial Lectureship in Geological Sciences Provides for guest lectures in geological sciences	\$101,269	\$172,292	Walter Benona Sharp Memorial Scholarship in Geology Scholarship in petroleum or field geology	\$46,403	\$109,566
Judd H. and Cynthia Oualline Centennial Lectureship in Petroleum Geology Provides for guest lectures in petroleum geology	\$93,729	\$160,559	Shell Companies Foundation Centennial Chair in Geophysics Income supplements salary and supports research of recipient	\$1,070,705	\$2,140,886
Judd H. Oualline Endowment Fund For special needs of the Department	\$22,764	\$46,510	Shell Companies Foundation Distinguished Chair in Geophysics Income supplements salary and supports research of recipient	\$1,253,500	\$2,433,748

	Book Value	Market Value		Book Value	Market Value
F. W. Simonds Endowed Presidential Scholarship Scholarship to undergraduate (upper division) and graduate students	\$32,601	\$79,369	Joseph C., Jr. and Elizabeth C. Walter Geology Library Fund Acquisition of books, maps, and other library materials	\$739,523	\$1,088,641
William T. Stokes Centennial Teaching Fellowship in Geological Sciences Income supplements salary and supports research of junior faculty member	\$179,072	\$360,454	Albert W. and Alice M. Weeks Centennial Professorship in Geological Sciences Income supplements salary and supports research of recipient	\$226,488	\$433,715
Structural Geology and Tectonics Fund Supports faculty and student research in structure and tectonics	\$128,733	\$224,373	Albert W. and Alice M. Weeks Fund in Geology Scholarship in geological sciences, any level	\$605,040	\$990,414
Harlan Tod Sutherland Memorial Scholarship Fund Supports summer research for graduate students	\$50,658	\$88,269	E. A. Wendlandt Fund Purchase of books and journals in German or English translations	\$10,009	\$20,981
John and Elizabeth M. Teagle Scholarship in Petroleum Geology Scholarship to students with interest in petroleum geology	\$741,059	\$1,301,337	Arno P. (Dutch) Wendler Professional Development Fund Supports graduate student presentations at professional meetings	\$128,002	\$272,692
David S. Thayer Memorial Scholarship Fund Senior field course scholarship	\$32,700	\$73,925	Francis L. Whitney Endowed Presidential Scholarship Geology scholarship, any level, paleontology and stratigraphy preferred	\$52,241	\$117,221
Tobin International Geological Map Collection Fund For purchase of maps and photos, storage and viewing facilities for these items	\$90,819	\$215,260	Francis L. Whitney Memorial Book Fund For purchase of paleontological books for library	\$51,618	\$82,850
Udden Memorial Scholarship Fund Geology scholarship, any level	\$21,599	\$37,231	Addison A. and Mary E. Wilkinson Endowed Presidential Scholarship in Geological Sciences Geology scholarship for graduate and undergraduate students	\$62,107	\$71,492
Glenn and Martha Vargas Endowed Presidential Scholarship Graduate-level scholarship in geological sciences	\$41,079	\$64,328	John A. Wilson Professorship in Vertebrate Paleontology Development of program of excellence in vertebrate paleontology, income supplements salary and supports research of recipient	\$209,639	\$393,992
Glenn and Martha Vargas Endowment for Gems and Gem Minerals Instruction For course-related materials and instruction on gems and gem minerals	\$75,748	\$129,507	Charles E. Yager Undergraduate Field Scholarship Fund Supports students taking GEO 660	\$61,153	\$133,640
Glenn and Martha Vargas Fund for Gem and Mineral Curation For curating and maintaining the gem and mineral collections of the Department	\$65,111	\$66,665	The First, Second, Third Mr. and Mrs. Charles E. Yager Professorships Three professorships in any discipline for faculty who participate in field instruction	\$520,773	\$1,189,268
Glenn and Martha Vargas Gemological Scholarship in Geological Sciences Scholarship for students interested in gemology or mineralogy	\$19,471	\$35,973			

MEMORIALS

CHARLES CLARENCE ALBERS

Charles Clarence Albers passed away on September 21, 2001, at the age of 76 in Cypress, Texas. He was born in Brenham, Texas, on June 9, 1925. He graduated from the University of Texas, Austin with a B.S. degree in 1948. He then went to work as a micropaleontologist for Amoco for 38 years.

He was active in many organizations and causes, including the Lutheran Outdoor Retreat Ministries, Habitat for Humanity, the Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists, the Boy Scouts, and Texas Lutheran University. He also was a charter member of the Rejoice! Lutheran Church located in Tomball, Texas.

He is survived by his wife of 54 years, Judy, his children, Carl and Monica Albers, Nancy and Randy Baden and Ruth and Chuck Anderson, sisters Edith Bliese and Lois Holck, brother Kenneth Albers and grandchildren Clay, Matthew, Julie, Joel, and Tessa.

DAVID AMSBURY

David Amsbury passed away on August 16, 2002, in Kerrville, Texas. He received his B.S. in geology from Sul Ross University in Alpine, Texas, in 1952. He then attended the University of Texas, Austin, where he received his Ph.D. in 1957. At the time of his graduation from UT he was the youngest person ever to get a Ph.D. in geology. After completing his degree, he went to work for Shell Development Company. In 1967, he began working for NASA at the Johnson Space Center in Houston, Texas, where he stayed until his retirement. Starting in 1975 he taught several Environmental Management and Geology classes, at both the University of Houston, Clear Lake, and The University of Texas at San Antonio. After retirement he continued to pursue his life-long interest in the Lower Cretaceous of Central and West Texas. He

was recently recognized as an outstanding graduate of Sul Ross University in Alpine, Texas.

PAULA JOSEPHINE BLACK

Paula Josephine Black, 62, died November 19, 2001, at the Hospice of the Texas Medical Center. Ms. Black's experience as a geologist involved extensive travel throughout the world. While nearly 80 percent of Ms. Black's experience was international, she also conducted studies, prospect evaluations, and field evaluations both onshore and offshore along the United States Gulf Coast. She was an avid golfer, playing as frequently as she could at various courses.

Ms. Black was originally a native of Ohio, where she lived until, as a teenager, she moved to Bellaire, Texas. After graduating from Bellaire High School in 1957, she attended the University of Texas, Austin, where she received a Bachelor of Science degree in Geology in 1961. She then attended The University of Texas at Arlington and received a Master of Science degree in Geology in 1974. She resided in Dallas from 1966 to 1988 before moving to Houston.

In 1969 she began her career as a geologist with Core Laboratories, Inc. She was later transferred to Houston in 1988, when the company merged with Western Atlas Integrated Technologies. Later, the company became known as Petresim Integrated Technologies, then Smedvig Technologies. Ms. Black retired as a Senior Geologist from Smedvig with over 31 years of service in the field of geology.

Ms. Black was a Certified Petroleum Geologist and also was a registered geologist in the State of Arkansas. She was a member of the American Association of Petroleum Geologists, the Houston Geological Society, and the honorary societies of Sigma Gamma Epsilon and Sigma Xi. She also was a member

of the Central Congregational Church of Houston. Survivors include her brother, Donald L. Black of Vienna, Virginia, and five nieces.

JULIUS A. "BUCK" BUCHANAN

Julius A. "Buck" Buchanan passed away December 5, 2001, at the age of 84. He was born October 15, 1917, in Itasca, Texas. He lived in Waco, then his family relocated to Cleburne, Texas, where he graduated from Cleburne High School. He then went on to graduate from the University of Texas, Austin in 1941 with a Bachelor's degree, then completed a Master's degree at Texas A&M University in Commerce.

During World War II, he served in the Army, receiving two Flying Medals, a European Campaign Ribbon with four bronze stars, the Victory Medal, and two Bronze Stars. He worked with Union Producing Company as an oil scout, petroleum geologist, and eventually head of Exploration Research Section. In addition, he was a consulting geologist in Tyler, Texas, as well as a teacher and chairman of the Petroleum Technology Department at Tyler Junior College.

He was a member of several organizations, including the East Texas Geological Society, American Association of Petroleum Geologists, University of Texas Ex-Students Association, Society of Sons of the American Revolution, Cleburne High School Class of '36 Alumni, and the Retired Teachers Association of Tyler Junior College. In addition, he was a member of the First Baptist Church and Christians in Action Sunday School Class.

He is survived by his wife, Virginia Pinkerton Buchanan, son, Dr. Paul Clarence Buchanan, and daughter, Ann Elizabeth Buchanan.

GEORGE B. COFFIN, III

George B. Coffin, III passed away February 8, 2002, in Houston, Texas, at the age of 67. George was

born on July 25, 1935. He graduated from the University of Texas, Austin with a B.S. in geology in 1959 and then worked for M.I., L.L.C. for 35 years as a Drilling Fluids Engineer, retiring in April 1999. He was married to Ellen Coussan on October 28, 1967. He was a lifetime member of several organizations, including the Holland Masonic Lodge #1 AF & AM, Scottish Rite, Texas Ex-Student's Association, Arabia Oriental Band, Arabia Shrine Temple, Memorial Drive United Methodist Church, and the Bridge Builders class at Memorial Drive United Methodist Church. He also did volunteer work for the Memorial Drive United Methodist Church SoupMobile and for the Memorial Area Ministries. He was also a faithful supporter and fan of The University of Texas at Austin football program.

He is survived by his wife, Ellen, his mother- and father-in-law Doucet and Jacqueline Coussan, as well as several cousins and numerous friends.

JERRY HICKS COLLINS

Jerry Hicks Collins died on December 18, 2001, at the age of 73. He was born on October 8, 1928, in Groveton, Texas, where he attended Groveton High School. He then enrolled at the University of Texas, Austin, where he graduated with both a B.S. (1953) and a B.A. (1954) degree in geology. He worked as a geophysicist with Sinclair, Mobil, Monsanto, Burmah, Aminoil, and Pennzoil. He retired as a District Geophysicist with Pennzoil in 1986.

He served his country in the Korean conflict as an instructor at Lackland Air Force Base. In addition, he was Chairman of the Government Liaison Committee for Disaster Services for the Houston Area American Red Cross as well as a 32nd degree Mason and member of Arabia Shrine. He was also an avid car enthusiast, loved to travel, and had a great sense of humor.

He is survived by his wife of 49 years, Jerrie Collins, his sons John and his wife Sherry, Jay and his wife, Julie; daughter Carol Jensen and her husband Mark; grandchildren Ryan, Lindsey, Christopher, and Kerri; and his sister, Frances Manry, and brother, Col. John Collins.

RUSSELL WALTERS CUMLEY

by Rosemary Cumley

Dr. Russell Walters Cumley was born in Anson, Texas, in 1910. He attended the University of Texas, Austin, and received his B.A. in Geology and Chemistry in 1931; his M.A. in Geology and Anthropology in 1931; and his Ph.D. in Zoology, Bacteriology, and Botany in 1938. He died on October 21, 1999.

The Bureau of Economic Geology (BEG) hired him as a draftsman in 1929. This job supported him through his B.A. and M.A. studies and ignited his life-long love for the BEG.

From 1938 to 1943 Dr. Cumley served on the staff of the University of Wisconsin, Madison. Geology remained his interest and hobby, and in 1941, Russell Cumley published *Roughneck: The Way of Life in the Oil Fields*, and *America's Oil* in 1942. During World War II, Cumley served with the U.S. Army in the Medical Intelligence Division, U.S. 5th and 7th Armies in France, Italy, and Austria.

Subsequently, Dr. Cumley joined the staff of Abbott Laboratories as medical editor and writer for their professional publication, *What's New*. He was also a freelance editor for *Nelson's Encyclopedia of Medicine* and an original editor and columnist for *Postgraduate Medicine*.

Dr. Cumley was also the Co-Editor of *The Book of Health* and of *Year Book of Cancer*, and the Executive Editor of *The Cancer Bulletin*, *The Psychiatric Bulletin*, and *The Heart Bulletin*, and the Publisher of *Medical Record and Annals*. He was the author of hundreds of scientific papers in biology, medicine, and geology.

Dr. Russell W. Cumley held the positions of Professor of Medical Journalism, Emeritus, The University of Texas Graduate School of Biomedical Sciences, Houston, 1974 to 1999, Editor and Head, Department of Scientific Publications, The University of Texas M.D. Anderson Hospital and Tumor Institute, Houston, 1947 to 1974, Professor of Medical Journalism, The University of Texas Post-graduate School of Medicine and Graduate School of Biomedical Sciences, Houston, 1954 to 1974, and Director and General Manager, The Medical Arts Publishing Foundation, Houston, 1949 to 1974.

In 1975, Dr. Cumley received the Distinguished Service Award from the Physicians Referral Service at The University of Texas System Cancer Center's M. D. Anderson Hospital and Tumor Institute.

Dr. Cumley had memberships in Sigma XI, Genetics Society, American Naturalists, and A.A.A.S.

He lost his wife Dolores in 1987. He is survived by his daughter Rosemary and grandchildren Ishmael and Nicolle.

HENRY WILLIAM "HANK" DESCHNER

Henry William "Hank" Deschner died on January 18, 2002, in Corpus Christi, Texas. He was born September 29, 1925, near Gonzales, Texas. He joined the United States Marine Corps and served in both World War II as well as the Korean War. He graduated from Southwestern University in Georgetown and went on to do graduate work at the University of Texas, Austin. He then became a petroleum geologist.

Hank was very involved in community activities including the American Legion Post 248 and the Corpus Christi YMCA as well as being a 32nd degree Mason and an active member of First United Methodist Church. His greatest interest, however, was scouting, particularly Boy Scout Troop 3.

He was Scoutmaster of Troop 3 for 20 years and was actively involved in scouting for 40 years. He guided over 100 scouts to the highest rank available, Eagle.

He also enjoyed the art of bonsai, and was a member of the Corpus Christi Bonsai Society. In addition, he volunteered at the Corpus Christi Museum and utilized his geology knowledge to help organize their collections of rocks and minerals.

He was married to Margaret Glendenning Deschner for 51 years. He is survived by his sons Steve, and wife Bonnie; Kern and his wife Rhonda; Paul and his wife Annette; Nathan and his wife Anita and Tim; as well as his daughter Carol Leidlein and her husband Eric; three brothers, Arlye and his wife Peggy, R.P. and his wife Rebecca, and Everett and his wife Carolyn. In addition, he is survived by his fourteen grandchildren.

WILLIAM JACKSON EVANS

William Jackson Evans died March 7, 2002, in Houston, Texas, at the age of 79. He was born June 24, 1923. He graduated from the University of Texas, Austin in 1950 with a B.S. degree in geology. He was preceded in death by his wife Lydean. He is survived by his four children, Aubin Cloyd, Alison Thames, Charles Evans, and William Douglas Evans; his mother Irene Clark; sister Juanita Hansen; four grandchildren, as well as numerous other relatives and friends.

WILLIAM JAMES FENNESSY

William James Fennessy died May 30, 2002, at the age of 82, in Houston, Texas. He was born March 31, 1920, in Wichita Falls, Texas. He served in World War II, and upon returning he enrolled in the University of Texas, Austin and graduated in 1948 with a B.S. degree in geology. He then went on to work for Exxon in Houston, Texas. He was preceded in death by his wife, Juanita. He is survived by

his daughters Karen and husband Bill Driscoll, and Beverly, grandchild Chip and wife Charlotte, and great-grandchildren Courtney, Joseph, and Cathryn Driscoll.

JARVIS GARST

Jarvis Garst died June 5, 2002, in Austin, Texas, at the age of 94. He was born in Carroll County, Georgia, on April 27, 1908. He graduated from The University of Texas, Austin in 1924 with a B.A. in geology and became a petroleum geologist as well as a real estate broker.

He loved nature and the land, and enjoyed walking 30 miles a week on Austin trails until the age of 90.

He is survived by his daughter Gretchen Garst, granddaughters Ann Patten, Leslie Vogl, and Meredith Garst as well as five great-grandchildren, Andrew and Isabel Patten, Joseph, Thomas, and James Vogl.

JOHN LAFAYETTE "BILL" HARMON

John Lafayette "Bill" Harmon died on January 31, 2002, at the age of 72. He was born June 24, 1929, in Hillsboro, Texas. He attended the Allen Military Academy in Bryan, Texas, and then went on to graduate from the University of Texas, Austin in 1952 with B.S. degrees in geology and petroleum engineering. He also served in the Army during World War II.

He went to work for the oil industry after graduation and in 1963 started J.L. Harmon and Associates in Abilene, which he owned and operated until 1986. He then went on to work with Texland Petroleum, Inc., of Fort Worth, as a drilling and production supervisor. He retired in 1994.

He was listed in *Who's Who of the South and Southwest*, was a member of the Petroleum Club of Fort Worth, the Geological Society of Abilene, and De Cordova Bend C.C. and was a senior member of Petroleum Engineers of A.I.M.E.

He is survived by his wife, Bettye, sons Christopher and David and stepchildren Kevin Frost,

Debby Holt, and Sandy Borofsky, and 10 grandchildren.

HUBERT JAMES HARRISON

Hubert James Harrison died January 10, 2002, at the age of 72. He was born on July 6, 1929, in Beaumont, Texas. He graduated from Highland Park High School in Dallas, then went on to earn both a B.S. and an M.A. degree in geology from the University of Texas, Austin, where he was also elected to the geological honor society. He then began work as a geologist with Seaboard Oil Company in Corpus Christi, Texas, in 1953, then became an independent petroleum geologist. In 1963, he and his wife, Wadene, returned to Austin.

He had many interests and hobbies, and he loved the oil business, even with its uncertainty. He was devoted to his family and also enjoyed American history and early American architecture and furniture. His other interests included woodworking, gardening, mineral collecting, home remodeling, the environment, and politics. He was a member of Westminster Presbyterian Church.

Hubert is survived by his wife, Wadene, his sons Shawn, Keith and wife Karen, and Mark and wife Irene, as well as two grandchildren, Kristy and Ross. He is also survived by his sister, Jo Fay Godbey, of Dallas, Texas.

THOMAS BRIGGS HENDERSON, JR.

Thomas Briggs Henderson, Jr., died August 4, 2001, in Corpus Christi, Texas, at the age of 72. He was born April 14, 1929, in Charlotte, North Carolina. He attended Phillips Academy in Andover, Massachusetts, Duke University in Durham, North Carolina, and the University of Texas, Austin. He was a naturalist and innovator and was active in alumni boards at Duke and Phillips as well as many community groups and local professional organizations.

He is survived by his wife, Judy Henderson, daughter, Cornelia Henderson, and his brother, Graeme Henderson, as well as by friends and extended family.

VIRGINIA WOOD HENDERSON

Virginia Wood Henderson died July 22, 2001, at the age of 42, in Corpus Christi, Texas. She was born in Uvalde, Texas, on April 1, 1959. She attended St. James Episcopal School and Richard King High School in Corpus Christi. She then attended The University of Texas at Austin, where she earned a B.S. in geology and a B.A. in anthropology, after which she received a Master's degree in geology from Duke University in Durham, North Carolina.

Virginia was an exploration geologist and formed a partnership with her late father, Tom Henderson. She was a passionate environmentalist and an avid sailor. She is survived by her mother, Judy Henderson, and her sister, Cornelia Henderson Gates, as well as by her extended family and many friends.

CHARLES JULIUS KATZ, SR.

Charles Julius Katz, Sr., died at the age of 82 on January 22, 2002. He was born March 18, 1919, in San Antonio. He attended Rice University and then graduated from the University of Texas, Austin. He was married to Dorothy Paul Levy on October 17, 1942. He served as an officer in the Army Air Corps Photographic Intelligence Division in World War II, rising to the rank of Captain. After the War, he returned to San Antonio, where he served as President and Chairman of the Board of Katz Oil Company, an oil exploration company that he founded with his father, Sid Katz.

He served on many boards of local organizations in support of medicine, the arts, education, and culture, including Goodwill Industries, Jewish Federation of San Antonio, Southwest Texas Medical Foundation, United Way, San Antonio Library Foundation, and the Boy Scouts of America.

He also loved to spend time with his family, fishing, attending theater performances, and playing golf.

He is survived by his wife of 59 years, Dorothy Levy Katz, as well as their three children Candy (and Buddy Gardner), Charles (and Roberta), and Stephen (and Sara); as well as eight grandchildren and one great-grandchild.

L. GIFFORD KESSLER, II

L. Gifford Kessler, II died on December 11, 2001, in Houston, Texas, at the age of 57. He was born on June 6, 1944, in Erie, Pennsylvania. He graduated from Academic High School in Erie and went on to receive an Honors B.S. degree from Williams College in Massachusetts in 1965. He then attended the University of Texas, Austin and earned an M.A. degree, and finished up his education at The University of New Mexico in Albuquerque with a Ph.D. in 1969.

He took his first job in the oil industry with Union Pacific Railroad in Wyoming in 1969. In 1972, he became an exploration geologist with Canada Cities Services in Calgary. He then moved on to Phillips Petroleum in 1974. In 1982, he went to work for Marathon Oil in Denver in the Regional Exploration and Characterization Group. He then moved with Marathon to Houston in 1994.

In addition to geology, Giff's other loves were politics, sports, and trivia. He is survived by his mother, Marty.

CHARLES GARDLEY MOON

Charles Gardley Moon died October 27, 2001, in Houston, Texas, at the age of 84. He was born June 17, 1917 in McNeil, Texas. He graduated from Seguin High School in 1935 as salutarian. He then went on to attend the University of Texas, Austin, getting his B.A. in 1940, his M.A. in 1942 and his Ph.D. in 1950, all in geology. While he was attending the University, he received the first Humble Oil Fellowship in Geology.

He worked with Humble Oil and Exxon as a geologist for over 20 years. He also taught geology at both The University of Oklahoma and the University of Texas. He is survived by friend Mary Lou Mayes, niece Mary Beth Reed, great-niece Carol Marquis and husband Ken, great-nephew David Reed and wife Twila, as well as other relatives and friends.

BRYANT SANER, SR.

Bryant Saner, Sr. passed away in Kerrville, Texas, on November 3, 2001, at the age of 78. He was born in Chicago on June 23, 1923. He moved to Kerrville in 1937. He attended the University of Texas, Austin, graduating in 1946 with a degree in petroleum geology. He worked for Gulf Oil from 1946 to 1949, at which time he relocated to Rogers, Arkansas, and became the general manager of a family-owned silica mine. In 1950, he returned to Kerrville, where he owned and operated a chicken farm until 1969. At that time, he moved to Dallas where he worked in a furniture store until 1972. He then moved to San Antonio, where he worked for Swing Machinery until 1981. He then worked as a computer operator for Church's Fried Chicken in San Antonio until his retirement in 1993. His wife, Betty Carolyn Poole, predeceased him in February 2000.

He is survived by a large family, including his son Bryant Saner, Jr., and his wife, Karyn, two brothers, Walter and Charles Saner, as well as numerous nieces, nephews, grandchildren, and great-grandchildren.

A. RICHARD "DICK" SMITH

A. Richard "Dick" Smith passed away on July 4, 2001, at his home in Fort Worth, Texas, at the age of 62. He was born on September 22, 1939, in Odessa, Texas. He gained an interest in caving at a young age and while in high school joined the National Speleological Society (NSS). He first attended Rice University as a math major, but then transferred

to the University of Texas, Austin and received a degree in geology in 1964. He married Elizabeth Kelley and they had two sons, Geren and Preston. He began work on his Ph.D. at UT Austin, but left his dissertation unfinished so that he could keep up with his personal and family life.

He was noted for his contributions to the Texas Speleological Survey (TSS) throughout his life; he served TSS as geologist, cartographer, publisher, and editor. He also had an office in the UT grotto and served as the Chairman for the Texas Speleological Association. He enjoyed caving throughout Texas, as well as in New Mexico, Guatemala, and Mexico.

In September 1997, Dick was awarded the first Outstanding Service Award given by the TSS, the highest honor offered by that organization and given only to those who have made long-term contributions to Texas speleology. He is survived by his wife, Ann.

FRED DEAN SPINDLE

Fred Dean Spindle of Houston, Texas, died on November 21, 2001. He was born on December 29, 1927, in Drexel, Missouri, and moved many times throughout his childhood but eventually ended up in Paola, Kansas. This was where Fred met his wife, Betty. After high school, Fred enrolled in the Navy Air Corps Five program and spent part of his college years at Doane College and The University of Notre Dame. After World War II, Fred enrolled at the University of Texas, Austin and received a degree in Petroleum Geology in 1949. He began his career in the oil industry with Marathon Oil in Sidney, Nebraska. He worked throughout the world and eventually rose to the position of Vice President of Exploration-International. In addition, he obtained professional certifications in petroleum engineering and geophysics.

In addition to his work, he also enjoyed spending time with his family, fishing, and golfing. He was a licensed pilot and an avid reader and also did volunteer work at St. Theresa's Catholic Church.

He is survived by his wife Betty, daughter Teresa Huntington and her husband Dale, grandchildren Elizabeth, Chip, and Chris Huntington; son Mike, grandson Ryan Spindle, and granddaughter Molly White.

JAMES B. TARTT

James B. Tartt passed away November 12, 2001, at the age of 81 in Houston, Texas. He was born July 22, 1920, in Timpson, Texas. He served in World War II in the U.S. Army Air Corps. He graduated from the University of Texas in Austin in 1948 with a B.S. in geology. He then went to work with Halliburton in Houston, Texas. He is survived by his wife of 58 years, Helen; daughter Connie; sister Judith Ann Graaf; grandchildren Liza Crosson, Jacob Crosson, Revor Crosson and wife Kris, and Devin Marie Granberg, as well as great-grandson Corbin Crosson.

JOHN JEFFERSON TERRELL

John Jefferson Terrell died February 1, 2002, at the age of 88. He was born in 1913 in Paris, Texas, and went on to graduate from the University of Texas, Austin in 1945 with a B.S. degree in geophysics.

John published the official *State Mileage Guide of Texas*, was the Executive Vice President of the Texas Association of Home Builders, and was one of the first Presidents of the Austin Junior Chamber of Commerce. In addition, he was a Circulation Manager of the *Austin American-Statesman* and a member of the downtown Rotary Club.

He is survived by his son Jeff and his wife Penny, his daughter Sarah Terrell Williams, grandchildren Anne Williams

Mitchell and husband Kenneth, Travis Williams and fiancée Erica Hughes, Terrell Williams and wife Dr. Helen Ragsdale, Erica Hall and spouse Scott, and Meredith Terrell, in addition to great-grandchildren Lauren, James, and Kyle Mitchell and Chris, Cole, and Mauriette Williams.

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

Frederick Brechtel

(attended 1945)

Robert Paul Foster

(attended 1955)

James Alton Fowler

(B.A., 1931)

William Ramsay Gray

(B.A., 1940)

Joe Alfonse Hybner

(B.S., 1952)

William Le Croix

(B.S., 1949)

Max Levin

(B.S., 1947; M.A., 1951)

Mary Cunnin McCampbell

(B.A., 1941)

John Brittan Means, Jr.

(B.S., 1940; M.A., 1940)

Kathleen Pfannkuche

(B.A., 1928)

Arvin F. Scott

(B.A., 1930)

Notes from the Alumni

Peyton O. Abbott (B.S., 1950) is retired from his career as a hydrologist and has been enjoying reading, traveling, and having a daily swim at his home in Pueblo, Colorado.

Aaron Abel (B.S., 2000) is a Graduate Student and Research Assistant

Alumni Honors

Donna Balin (B.S., 1978) was elected Vice President of the South Texas Geological Society.

David E. Dunn (Ph.D., 1964) is a member of the Board of Trustees of the GSA Foundation.

Will Green (M.A., 1955) was elected President of the Board of Directors at Midland College.

Paul Hoffman (B.S., 1975) finished his year as President of the Houston Geological Society.

John Huelsenbeck (M.A., 1992) won a 2002 Guggenheim Award.

Raul Mosmann (attended 1968-1969) was elected Honorary Member of AAPG.

Peter R. Rose (B.S., 1957; M.A., 1959; Ph.D., 1968) was elected Honorary Member of AAPG.

Dan Smith (B.S., 1958) is President of AAPG.

Paul Weimer (Ph.D., 1989) is Treasurer of AAPG.

Charles Weiner (B.A., 1948) was named Legendary Oilman by the Drake Well Foundation.

James Lee Wilson (B.A., 1942; M.A., 1944) was awarded the Sidney Powers Medal by AAPG.

at New Mexico Institute of Mining and Technology in Socorro, New Mexico, and writes, "I have started work toward an M.S. in hydrology working under Brian McPherson. We are studying what effects CO₂ sequestration has on deep basin host formations, especially emphasizing diagenetic changes. Katy, my wife and UT alumna, is teaching in nearby Magdalena. She loves what she does." Aaron can be reached at aabel@nmt.edu.

Samuel C. Adair, Jr. (B.S., 1956) is retired and living in Montgomery, Texas. He and his wife Doris are still traveling a lot. The next trip they plan to take is to South America and a cruise around the Horn. Their granddaughter graduated from UT in June 2002. He can be reached at samueladair@msn.com.

Jim W. Adams (B.S., 1951) is a consulting geologist in Midland, Texas, and writes, "enjoyed touring one week each in England, Scotland, and Wales, especially hiking in the hills and driving all around the Lake District, the Cotswolds, and the Isle of Skye. It was weird visiting the red lithothamnian reefs in Scotland that I had last seen offshore Florida. Also went deep-sea fishing off Cabo San Lucas (Baja, California) and caught two exciting blue marlin. The Second Annual Grandchildren's Week allowed us to teach them about the glorious stratigraphy of Grand Canyon, Arizona. Our first great-grandson is expected in 2001. God has been good to us." Jim can be reached at jwadams2@aol.com.

Floyd J. Adcock (B.S., 1955) is retired from Marathon Oil Co. and is living in Henderson, Texas. He says the "fishing is great—the view of the lake is magnificent. Retirement is wonderful,

but I still go to East Texas Geological Society meetings in Tyler, Texas. I can't get oil exploration out of my system!"

Stephen Allen (M.A., 1997) is an Oracle Developer with AT&T Wireless in Austin, Texas, and says he's working "when not at the Alamo Drafthouse Theatre, on the golf course (disc or traditional), or at Barton Springs (all seasons)." He can be reached at etienne_2@hotmail.com.

Nancy Jenswold Anderson (B.A., 1950) says she has been staying closer to home since 9/11/01, but has been exploring parts of Texas she hasn't known too well. She is recovering from recent knee replacement surgery, so "rock climbing is out for a while." Though she is retired, she has still been giving some input to local urban planning and design issues in Cedar Hill, Texas. She can be reached at nancy.j.anderson@worldnet.att.net.

Payton V. Anderson (B.S., 1945) is a Partner at W. D. Anderson and Sons and writes, "Evelyn and I are about to celebrate our 57th wedding anniversary. Our three girls are married and okay. I'm active in most of onshore Mid-Continent oil and gas operations. I spend most of my time in world travel—had to quit golf."

Tom Anderson (M.A., 1967; Ph.D., 1969) is a Professor of Geology at the University of Pittsburgh in Pennsylvania. He reports that "I stepped down from the chairmanship in summer of 2000 after 13 years of interesting, stimulating but ultimately frustrating experiences. Took a sabbatical for a year—wrote in an effort to catch up and rejoin research team. Currently hope to generate special paper on Mexico work."

Arten Avakian (M.A., 1989) is a Geologist with the TNRCC in Austin, Texas, and notifies us that he “settled in Austin, with family—one son.” Arten can be reached at aavakian@alumni.utexas.net.

T. Dale Bagwell (B.S., 1979) is a Geoscience System Analyst with Landmark in Houston, Texas, and writes “great fun helping E&P professionals utilize Landmark’s software. Exciting to be back in E&P after 12 years in gas marketing and teaching high school.” Dale can be reached at dbagwell@lgc.com.

Carol Swenumson Baker (B.S., 1984) is currently a Geophysicist at ExxonMobil Exploration Co. in Houston, Texas. She can be reached at carol.s.baker@exxonmobil.com. She reports that “Rodney and I are getting older, and so are the kids. Grant started middle school and Andrew is in the first grade.”

Donna Balin (B.S., 1978) is a consulting geologist in San Antonio, Texas. She writes, “My husband Andrew Scott and I moved back to my hometown in May 2001. Andrew is especially happy with the move because we live close to my mother and he finally gets some good cooking. We are both consulting geologists and share an office together. I’ll be serving as VP of the South Texas Geological Society this year, and Andrew is finishing his term as President of the Energy Minerals Division of AAPG. Friends please e-mail me at balin@alumni.utexas.net.”

Thomas D. Barrow (B.S., 1945; M.A., 1948) is president of T Bar X in Houston, Texas. He just returned from a “visit to the fiords, geysers, and gold mines of New Zealand.” Dr. Barrow is an Honorary Life Member of the Geology Foundation Advisory Council.

Joe Beard (B.S., 1942) is retired and living in Wichita Falls, Texas.

Robert E. Beatty, Jr. (B.A., 1950; B.S., 1954) is retired and living in San Antonio, Texas. He writes that he is “still going—doing ‘play things’.”

Roy Beckelhymer, Jr. (B.S., 1952) is retired and reports he is “enjoying life in Lakeway (Texas) and keeping up with the Longhorns. Did some traveling, last year England and France plus several automobile trips in the lower 48.”

Lynn S. Beeler (B.S., 1962) is currently living in The Colony, Texas.

Walter E. Belt, Jr. (B.S., 1943) is retired and lives in Flatonia, Texas. He reports that “at 80 years Virginia and I appreciate—and appreciate even more.” He can be reached at webeltjr@starband.net.

Don G. Bilbrey (B.S., 1953; M.A., 1957) is retired and living in New Orleans, Louisiana, and reports, “finally shot my age in golf, 72, after 5 straight years of frustration getting within one stroke of that goal. Guess that shows where my priorities are in retirement. Otherwise, I’m in good health and have a new granddaughter.” Don can be reached at donbilbrey@webtv.net.

Keith Bjork, M. D. (B.S., 1984) is an orthopedic surgeon in Amarillo, Texas. He can be reached at kbjorkmd@aol.com.

Tom Bjorklund (M.A., 1962) is a consultant in Houston, Texas, and reports, “I finally graduated this year from the University of Houston with a Ph.D. in geology. The dissertation subject was the Whittier fault in the Los Angeles basin. Interested persons can read all about it in *Geology* (May

and the *Journal of Structural Geology* (September). I plan to continue studies of transform fault systems and consult in the petroleum industry.” Tom can be reached at tbjorklund@uh.edu.

Barbara Smith Blaisdell (B.S., 1978) is working for ExxonMobil and writes, “another merge, another move, this time to Houston with ExxonMobil. Our kids are now teenagers. Time flies when you’re having fun! Our 7th move in 10 years finds us coming home to The Woodlands (Texas). We love living in a forest. No regrets in being a full-time mom after hanging up my hard hat!” She can be reached at barbara@stardune.com.

Asa Blankenship (B.A., 1950; M.A., 1952) says he is “retired and bored” and living in Houston, Texas. He reports that it is the “same old—same old—please somebody from my class call! I retired as a Vice-President from Bank of America in Houston in 1997, but still active in the investment business.” He can be reached at (713) 771-2936.

Robert H. Blodgett (Ph.D., 1990) is a Professor at Austin Community College in Austin, Texas. He can be e-mailed at rblodget@austin.cc.tx.us and writes, “teaching at ACC continues to be enjoyable. Our plans for an automated water quality monitoring well in the Edwards aquifer continue to move forward with the design of the 250-square-foot wellhouse nearing completion. At home, we are midway through renovating and adding on to our house in Rosedale.”

Robert Bluntzer (B.S., 1960) retired as a Groundwater Geologist from the Texas Water Development Board in 1993. He is currently working part time as a hydrogeologist with various consultants in the Austin area and spends his free time traveling overseas. He can be reached at rbluntzer@aol.com.

Patricia Bobeck (M.A., 1985) lives in Austin, Texas, and writes, "I'm in the process of translating Henry Darcy's 1856 book entitled *Les Fontaines publiques de la ville de Dijon* from French to English. The book is an account of how Darcy built a water supply system for Dijon in the 1830s. In an appendix, he describes the experiments he conducted that led him to formulate Darcy's law. I hope to finish the 650-page book by July, 2002. I'm still working at the Texas Natural Resource Conservation Commission overseeing hazardous waste cleanups. My 15-year-old son Dennis will learn to drive this summer. I'm looking forward to having a chauffeur." Patricia can be reached at pbobeck@texas.net.

Ricky Boehme (B.S., 1989) is a geologist for ChevronTexaco in Lafayette, Louisiana.

Julie Bonner (B.S., 1983) is a Lead Drilling Engineer with ChevronTexaco in Houston, Texas, and writes, "I haven't written for a while, and a lot has happened. Two years ago, I was in a near-fatal car accident. I was hit by a two-ton six-wheeler, spun and flipped, crushing in all four sides and the top of my Explorer by a foot. I suffered a broken neck, temporarily paralyzed arms, and had broken both sides of my right ankle. The MRI revealed that I had broken my neck before in the same place, but never knew because it didn't show on x-rays, and now had broken it a second time. Also, I had exploded the disk under the break, all the spinal fluid had left my neck, and my bones were directly pinching my spinal cord. Miraculously, I am not paralyzed, though just a bit more force would have severed my spine. I spent three weeks of Christmas and Y2K in the hospital between ICU, surgery, and in rehab learning to walk and use my arms again. My rehab doctor's name was Kevorkian! What a scream! I spent three

months in rehab overall, working from my home in the meantime.

I'm now bionic! I have titanium plates and screws in both my neck and ankle, and since 9/11, I set off the alarms in airports! It's funny, but I'm getting tired of being frisked. I'm not 100 percent, but I'm in the 90's, and you'd never know I was in a wreck by looking at me. I'm still traveling overseas constantly, doing most of my work in Sumatra, China, Norway, and the North Sea right now. The injury hasn't slowed me down much. Six months after the wreck, I was back to my outdoor hobbies (against my doctor's advice to wait a year or more). Since then, I've snorkeled a shipwreck in Aruba, hiked the entire Kiluea Volcano and Diamondhead, did beach dives in Cozumel and Tobago, and went Class V whitewater rafting in California and Bali, among other adventures. Life is good, and I've been blessed. Don't take anything for granted, guys. You never know when you might get creamed by a truck!" Julie can be reached at juab@chevrontexaco.com.

Andrew Bowen (B.S., 1991) reports that he has "made a jump to the technology industry and am still enjoying living in Austin. I have fond memories of my geology days and still have the remnants of many field trips throughout my house." He may be reached at a.bowen@mindspring.com.

Walt V. Boyle (B.S., 1954; M.A., 1955) is a retired consulting geologist living in Houston, Texas. He writes that "Vada Marie and I are enjoying our retirement. We keep busy traveling the world, participating in church activities, and gardening."

Philip Braithwaite (M.A., 1958) is retired and living in Dallas, Texas. He lets us know that "Barbara and I are still enjoying retirement."

Robert F. Brandt (B.S., 1957) is an Adjunct Instructor of Geology at Houston Community College in Houston, Texas. He is teaching Physical Geology and Environmental Science exclusively as Distance Education via the Internet. He reports that it "seems to be an effective way to learn, although I miss the human contact of an on-campus course." He can be reached at rbrandt@aol.com.

Marcia Branstetter (M.A., 1995; Ph.D., 2001) is a Research Associate with Oak Ridge National Laboratory in Oak Ridge, Tennessee, and writes, "I recently joined the climate dynamics group at DOE's Oak Ridge National Laboratory. It's an exciting time here since they've just started construction of a new state-of-the-art computational facility on the ORNL campus. We're building the new Climate and Carbon Research enterprise as part of the Center of Computational Sciences to take advantage of the computational resources here to study climate change." She can be reached at branstetterm@ornl.gov.

Herbert L. Brewer (B.S., 1947) is the Director of Toreador Resources Corp. in Dallas, Texas, and writes, "merged Madison Oil Co., Inc., into Toreador Resources Corp. (TRGL on NASDAQ) effective 12/31/01. Madison is now the international arm and wholly owned subsidiary of Toreador. My son and I continue in the oil business as Toreador Directors. I enjoyed the opportunity to see and visit with a lot of old friends at the AAPG Convention in Houston this past March." Herbert can be e-mailed at hbrewer@toreador.net.

Ben M. "Bud" Brigham (B.S., 1983) is the CEO and President of Brigham Exploration in Austin, Texas, and writes, "Anne and children (Elizabeth, 6; Amanda, Conner, and Mary Anne, 3) are all doing great! Enjoying good oil prices, improving gas

prices, and UT football." Bud can be reached at bbrigham@bexp3d.com.

M. H. "Buddy" Brock (B.S., 1956) is self-employed and living in Edna, Texas, and reports "nothing really new since last *Newsletter*. Strange how we fall into a daily routine as we get older! Still following 10 grandkids around and watching their many school events."

C. Douglas Brown (B.S., 1984) is the President of BXP, Ltd., in Dallas, Texas. He tells us that he is "actively involved in oil and gas acquisition and development in South Texas." He can be emailed at bxpco@aol.com.

Wallace E. Brunson (B.S., 1942; M.A., 1954) tells us that "although I have been retired for over 22 years, I still keep an office with Big '6' Drilling Co., being around younger people helps! Wife Betty and I celebrate our 60th anniversary this year." They are living in Houston, Texas.

J. E. "Woody" Bryant (B.S., 1943; M.A., 1948) is an independent geologist living in Fredericksburg, Texas. He writes that he is "working on a couple of prospects in south Texas. Our health is holding up pretty good; family is status quo." He can be reached at woodybryant@fbg.net.

Leonard C. Bryant (B.S., 1957) is an independent geologist living in Helotes, Texas.

Thais Freda Bullard (M.A., 1951) is in real estate management in Austin, Texas, and can be reached at thaisbullard@aol.com. She writes that "the Fred Bullard Student Research Fund has been established, and it will be enhanced as is needed, by any additional contributions! Thanks for your support."

Ben Buongiorno (M.A., 1955) is the President of Good Day Energy, Inc.,

in Houston, Texas. He lets us know that he is "still exploring for oil and gas" and can be e-mailed at benandbk@aol.com.

T. J. "Jeff" Burnett, Jr. (B.S., 1949) is retired and living in Houston, Texas. He writes, "I lost my wife, Cathe, after 53 years. Our granddaughter, Sarah, is at UT Austin. All 7 of our other grandchildren are doing well." His e-mail is tomjbjr@aol.com.

Leon G. Byerly (B.S., 1951) is living in Midland, Texas, and says he is "semi-retired" and is "still enjoying coming to my office daily but doing only as much or as little as I want to do."

Michael Cademartori (B.S., 1995) is a Sales Representative at Sun Microsystems in Stamford, Connecticut. He can be reached at msc1@sun.com.

Frank Cahoon (B.S., 1956) is an independent oil operator in Midland, Texas, and lets us know that he is "enjoying my children and grandchildren."

Dean L. Callender (B.S., 1956; M.A., 1958) is a Senior Vice President at LBS PaineWebber in Houston, Texas. He can be reached at demacall@aol.com. He states, "The next few years will be incredible for geologists and geophysicists as the world recognizes there is not an unending supply of oil and gas. Don't let Wall Street grind you down!"

Eleanor Camann (B.S., 1999) is living in Beaufort, North Carolina, and can be reached at ecamann@email.unc.edu.

Amy L. Campbell (B.S., 1997) is a Financial Advisor with Morgan Stanley in Austin, Texas, has an e-mail address of aleec@hotmail.com, and writes, "Although financial services/wealth management is quite a change from hydrogeology, I am very happy at

Morgan Stanley. Other exciting news—my trip to Australia!"

Donald H. Campbell (M.A., 1962) is a petrographer with Campbell Petrographic Services, Inc., in Dodgeville, Wisconsin. He reports that "petrography of Wisconsin Paleozoic rocks, as well as concrete, mortar, and aggregates nationwide, keep me quite busy." He can be reached at Campbell@mhtc.net.

Donald M. Campbell (B.A., 1955) is retired and reports, "We have moved closer to family—now in Abingdon, Maryland. Still working in the school system with special needs children. Still miss my traveling but finding staying close to home not too bad—still go to the beach (Ocean City) several times a year." Donald can be reached at dctexaslh@aol.com.

A. T. "Toby" Carleton (B.S., 1951; M.A., 1952) is an independent geologist and rancher in Midland, Texas. He reports, "no changes since last year, except I am older but no wiser. I continue to be active in the oil and gas and ranching businesses in West Texas." Mr. Carleton is a member of the Geology Foundation Advisory Council.

Marvin T. Carlsen (B.S., 1952) is a retired geologist, teacher, and mud-logger living in Midland, Texas, and writes that "I am very pleased about the generous endowment given to the Geology Department by Jack and Katie Jackson. The new building additions will no doubt attract additional geology and post-graduate students. I'm grateful for all the excellent professors who helped me graduate 50 years ago!"

Richard E. Carroll (B.S., 1980) is a Senior Exploration Geologist with Dominion Exploration and Production, Inc., in Houston, Texas, and writes, "I left ExxonMobil last fall to get back

into the oil and gas business. I guess I just don't know what's good for me. Now I'm actually drilling wells again in South Texas, I only have about 1/10th the number of meetings to attend, and there are almost no forms to fill out. How could I have been so foolish? Other than that, I'm still doing well and spending as much time as possible with my two boys, 8-year-old Ian and 7-year-old Austin." Richard can be reached at richard_f_carroll@dom.com.

Jack C. Cartwright (B.S., 1951; M.A., 1955) lives in Midland, Texas, and has an e-mail address of jccartw@attglobal.net. He writes that "year 2002 is the first year of the next 50 years in the West Texas oil business—not as active, but still upright and going forward. Barbara and I still enjoy relatively good health. Good news concerning the new geoscience center!"

Dwight E. Cassell (B.S., 1955; M.A., 1958) is a consultant in Austin, Texas. He can be reached at declsc@flash.net. He says he is "continuing to scratch up a location or two to keep shallow production alive. Linda and I go touring or cruising when possible. Fortunate to have daughter Sally and two grandkids nearby. Come see us!"

John Patrick Castagna (Ph.D., 1983) is a Professor at the University of Oklahoma in Norman, Oklahoma. He can be e-mailed at castagna@ou.edu.

Martha Cast Cather (B.S., 1981; M.A., 1986) is living in San Antonio, New Mexico, and reports that she and **Steven** (M.A., 1980; Ph.D., 1986) "are still working at New Mexico Tech. He's finishing up mapping a quadrangle, is plotting summer field work in northern New Mexico and Colorado, and is always knee deep in manuscripts he's writing or editing. I've drifted into management—heading up a group that provides data

and education to the regional oil and gas community and coordinating the activities of the Southwest PTTC. I get to do things ranging from learning GIS to organizing research planning workshops.

We finally finished our house, after 10 years, and have room for guests. Still have lots of horses (raising Morgans now), cats, and dogs. We did a third trip to Italy with Dr. Folk a couple of years ago, then had to take a break to finish the house. Last summer's excitement was rafting down the Colorado River through the Grand Canyon on a geology research trip (hot, hot, hot!). Once you are in the bottom, looking up, you know why it is called 'grand.' If anybody from our long stint at UT is ever out here, feel free to give us a call."

Henry "Hank" Chafetz (Ph.D., 1970) is a Professor in the Department of Geosciences at the University of Houston in Houston, Texas, and writes, "Janet and I are still at the same 'shop' (UH); she still chairs the Sociology Department, writes books, etc., and they still pay me to play with carbonates, bacteria, and hot springs. Big news for our family: Josh graduated from Yale and is now a Rhodes Scholar at Oxford, for us, all else we've done pales by comparison. Regards to all old grads." Hank can be reached at hchafetz@uh.edu.

Steve Chang (B.S., 1987) is a Project Manager with WesternGeco in London. He writes, "I'm current project manager overseeing our development of new technology from survey acquisition to reservoir characterization. Moved the family from Houston, Texas, to London last March, and it's been an interesting experience. Stefanie (4) is calling the backyard the back garden (English term for yard), there's plenty of football (soccer), the weather is cooler than Texas, and the beer is warmer. I've traveled a lot on business all over the

world, and we have been exploring the Continent. Still on the list of places to see are Scotland, Italy, Switzerland, and Ireland." Steve can be reached at steve.chang@westerngeco.com.

Walter Chatham (B.A., 1948; M.A., 1950) can be reached at chatham@cox-internet.com. He is retired and living in Mineral Wells, Texas, and says "these years are passing too fast."

C. A. Chimene (B.S., 1950) is semi-retired and living in Houston, Texas. He writes that he is "still active in a small way—writing, Senior Olympics, investments, the oil biz, and pecan farming." He can be reached at cchimene@juno.com.

Stephen Patrick Chung (B.S., 1984) is an Attorney for Conoco, Inc., in Houston, Texas, and writes, "It's been 18 years since graduation and I've never written in. I've worked for the Texas Natural Resource Conservation Commission like many of my brethren. I then decided to go to law school and am now an environmental lawyer for Conoco. My practice centers around Superfund as well as site remediation so I still get to use my geology background. My wife Kim and I have a 10-month-old daughter, Natalie, and she is already a daddy's girl. I'd like to say hello to Mark Martin and Bruce Gates since I have not seen or heard of them since graduation." Stephen can be reached at stephen.p.chung@usa.conoco.com.

Tom Clark (M.A., 1972) is a Senior Hydrologist at the Minnesota Pollution Control Agency in St. Paul, Minnesota. He can be e-mailed at tom.p.clark@pca.state.mn.us. He reports that "Cindy and I became first-time grandparents in February 2001. Still trying to further the cause of ground water in the Land of 10,000

Lakes and Jesse Ventura. Home e-mail: tomandcindy@usfamily.net.”

W. R. Cleaves, M.D. (B.A., 1960) is living in Corpus Christi, Texas.

Guy Cleveland (B.S., 1981) is a Business Development Manager with Professional Services Industries, Inc. in New York City, New York, has an e-mail address of mrguybo@aol.com, and writes, “I am finally submitting information to reach out to all from the class of ’81. I am living in New York City, believe it or not. After several years working as a geologist for the State of Texas, I rode a wild hare, and moved to New York City to pursue a new career in business development and I love it! Both have been successful and have even acclimated to this big and exciting city. A big HELLO to Martha, Sandy, Moira, Hochstein, Dennis Dann, Jay, Mike Darr, and Mr. Clinch.”

Kelton Cloud (B.S., 1973) is a consulting geologist in Granbury, Texas. He writes that he is “still prospecting for gas. Built a greenhouse last fall and enjoyed growing various plants through the winter. JoBeth is still teaching science.” He can be reached at kcloud@itexas.net.

Joel Coffman (B.S., 1984) is living in California and writes, “I’m still the lead regulator for Napa County for UST leaks and cleanups and enjoying that for the most part. This year has been a great one for me as I married my high school sweetheart (Susan) from over 25 years ago, and we are doing very well! My daughter Amber (18) is making CDs as she plays guitar and sings and is currently in Flagstaff. Susan’s daughter Shaina (19) is studying at Howard Payne University in Brownwood. Still traveling a lot locally to Yosemite, Monterey Bay, San Francisco, Tahoe, and points North. We are beginning to get homesick for Texas. I have been here 13 years now,

and the Lone Star is starting to call us back. I hope you all are doing well, ’83 grads should look me up!” Joel can be reached at jcoyote1@yahoo.com.

James W. Collins (B.S., 1956) is the President of Collins Resources, Inc., in Corpus Christi, Texas, and lets us know that he has “been an independent geologist for 32 years.”

Tom Connally (M.A., 1981) can be reached at tconnally@austin.rr.com and writes, “After 11 years in Saudi with Aramco, I’ve returned to Austin, still in the trade. As an instructor of geologic software for Landmark, I’m learning a lot of useful computer geology skills. Hope to see you UT alumni in the coming year.”

Mary Beth Cooper (B.A., 1966; M.A., 1969) is a Registered Pediatric Nurse at the Denver Health Medical Center in Denver, Colorado. She writes, “I’m still working part-time as a pediatric and neonatal nurse—I love it.”

Casey (B.S., 1988) and **Susan Cornett** (B.S., 1986) live in Houston, Texas, where Casey is a software consultant and Susan is a homemaker. They write, “Casey just moved into the R&D unit at BMC after 150 nights in Marriotts last year, consulting. Susan is eaten up with the golf bug. Marshall and Stuart are into all the sports. This year, we’ll be around Houston, so please call and drop by!” They can be reached at casey_cornett@bmc.com.

Frank Cornish (M.A., 1975) is the Regional Manager of SW Speaks Drilling in Corpus Christi, Texas, and can be reached at fcornish@interconnect.net. He reports, “SW Speaks Drilling is still expanding the field. Now in the relentless pursuit to acquire as much 3-D as possible before everyone else works it to death.”

Bill C. Cotner (B.S., 1953) is a rancher in Midland, Texas.

Raymond W. Cozby, III (B.A., 1983) is a Vice President and Trust Officer at Regions Bank Trust in Tyler, Texas. He says he doesn’t have any news, “but I enjoy the *Newsletter!*” He can be reached at rcozby@regionsbank.com.

Fredrick E. Crawford (B.S., 1983) can be e-mailed at fred.crawford@lcra.org. He is a Manager of the LCRA Surveying and Mapping Department in Austin, Texas. He lets us know that “after 13 years with the same company I am still having fun.”

Milton W. Crusius (B.S., 1949) writes, “I enjoy fossil hunting and have done most of my collecting in the Cretaceous of Texas, especially Glen Rose Formation. Since I moved to Arlington (Texas) in 1993, I’ve been using *Roadside Geology of Texas* as a guide to make some great trips to collect from the Pennsylvanian beds. Have gotten two grandsons interested.” He can be reached at geomilt@aol.com.

Tom Culbertson (M.A., 1948) is retired and living in San Antonio, Texas. He says, “I hope for more science of the Earth.”

Steve Cumella (B.S., 1977; M.A., 1981) is a Senior Staff Geologist with Williams Production in Denver, Colorado. He can be reached at steve.cumella@williams.com.

Hugh W. Curfman (B.S., 1948) is a retired geologist, living in Lafayette, Louisiana. He let us know that he is “glad to read about our group when they write in.”

Harris P. “Koop” Darcy (B.S., 1951) is an independent geologist in Houston, Texas, and writes, “hope you will watch



Field camp (GEO 660), summer 1993.
Photo provided by Colby Drechsel.

Dr. Carl Baugh on Trinity Broadcasting Network (TBN) on Sat. and Mon. at 8:00 p.m. Great TV program. Visit or write to Institute for Creation Research, P.O. Box 2667, El Cajon, California, 92021-0667 for their catalog. They have a great report on the geology of the Grand Canyon and Mount St. Helens.”

E. Julius Dasch (M.A., 1960) is a Manager at the NASA Space Grant and EPSCoR Programs in Washington, D.C., and can be reached at j.dasch@hq.nasa.gov. Julius reports, “I’ll retire from NASA at the end of the year. Then? Not sure, but sooner or later Pat and I will move to Alpine (10 miles south of town).”

Ben Davis (B.S., 1987) is a Science and AP Biology teacher at South Forsyth High School in Alpharetta, Georgia, has an e-mail address of bendavis64@msn.com, and writes, “I just finished up my first year teaching at my new location north of Atlanta here in the burbs. Quite a big change from rural south Georgia, but tons of fun. A change for the better for the most part, but the traffic is maddening.

I helped marry off Paul Neumann in January to his lovely bride and wish them all the best. Meeting and then drinking with the Neumann family was very entertaining. Kiss the bride for me,

Paul. Take care everyone, and I hope we can all get together someday and chew the fat.”

Mary Q. Davis (B.S., 1948) writes, “still retired. I enjoy visiting Austin occasionally.” Mary is living in Tyler, Texas.

Ross Davis (B.S., 1980) is a geologist in Houston, Texas, and writes, “In addition to drilling wildcats, I am actively involved in high-temperature superconductivity.”

William Hill Davis (B.S., 1941) is retired and living in San Antonio, Texas, and writes, “I am keeping up the house and yard.”

Michelle Mallien Debus (B.S., 1990) is a geologist and co-owner at Oakrock Exploration Co. in San Antonio, Texas. She writes that “Richard and I are doing well in our pursuit for natural gas at our company. We have three children, Kathleen (9), Allison (6), and John (2). Sara is now a freshman at Tulane University. Hope to see you at the conventions, we don’t miss any.” Michelle can be reached at mmdebus@ix.netcom.com.

Leslie A. Dedeke, Jr. (B.S., 1955) writes “I’m retired and living in New Braunfels—“The Beauty Spot of Texas.””

Carlos H. Deere (B.S., 1950) is retired and living in Bellville, Texas, and writes, “I’m being rejected so much by Hollywood that I’m about ready to holler uncle. But, if I can get a woman geologist to be a nightclub stripper without her boyfriend finding out, I’ll be heading out West in style. That’s if a mother lode earthquake doesn’t hit first.”

Charles J. DeLancey (B.S., 1940; M.A., 1942) is retired and living in Houston, Texas, and reports, “definitely

feel my good years have gone by and now we stay home more and more. But am so thankful for our many years of travel.”

Johanna Devereaux (M.A., 1998) works with the Texas Natural Resource Conservation Commission in Austin, Texas, and can be reached at jd@prismnet.com.

James E. “Jim” Dobkins, Jr. (M.A., 1968) is a Computing Supervisor in Kingwood, Texas, and writes, “I am retiring after 34 years with ExxonMobil Exploration this June. However, the time in Tahiti with Bob Folk studying beach and river pebbles seems like yesterday!”

John D. Doehring, Jr. (B.A., 1981; B.S., 1982) is President of Inspiron Dynamics Consulting Group, LLC, in Charlotte, North Carolina, and reports, “working hard to make new business (sales effectiveness consulting/training) successful. Wife Megan expecting at end of June, our first. Enjoying Charlotte in the spring, but miss Texas, too.” John can be reached at jdoehring@carolina.rr.com.

George Donnelly (B.S., 1940) lives in Midland, Texas, and writes, “still checking deals, hoping for the elephant.” Mr. Donnelly is a member of the Geology Foundation Advisory Council.

Gene C. Doty (B.S., 1954) is a retired hydrologist living in Las Vegas, Nevada, and reports, “Mopsy and I are still plugging along, and the grandkids are still growing like weeds. Our best to one and all.”

Larry Doyle (B.S., 1950) is the President of HydroGeology International in San Antonio, Texas, and lets us know “doing research in geomorphology while waiting for the start of a new contract with the Air Force advising on environmental cleanup matters. Giovanna and

I still plan to return to foreign work—our ‘natural habitat.’”

Robert E. Doyle (B.S., 1955) is the President of American Energy Investment Group in Houston, Texas, and can be reached at rbtdoyle1aieg@aol.com. He reports, “We are now involved in drilling horizontal wells in Russia and U.S. Most of the drilling is in existing fields involving lower risk—which is quite a change for the oil and gas business. Send me an e-mail.”

Colby Drechsel (B.S., 1994) is living in Wyoming and writes, “Hi everyone, still alive and well! Staying actively employed with engineering/consulting company work on turning a refinery into a golf course. Still climbing, riding a new bike and can’t sit still as usual. Hope you like the picture I sent, taken during GEO 660 in summer, 1993. What is everyone in this picture doing these days? 10 years, surely you have something to tell us!” Colby can be reached at cdrechsel@retec.com.

Ralph C. Duchin (M.A., 1955) is an independent geologist in Tucson, Arizona, and writes, “nearly 12 years in Arizona and still love it. Still visit Houston 5-6 times a year for oil business activity.”

Philip Duggan (B.S., 1982) writes to let us know “I’m not dead yet.”

Don Dunbar, Jr. (B.S., 1951), a general partner at Dunbar Oil and Gas LP in Corsicana, Texas, reports: “Family limited partnership is new this year. New granddaughter in Lafayette. David’s B.S./Geophysics due in May at UT. Don the third is with Arcadis in Houston—he was awarded BSA Silver Beaver last spring. Smackover chicken soup in Wayne County, Mississippi, and Wolf-camp in Permian Basin are new for us.” Don can be reached at dgdunbar@swbell.net.

David E. Dunn (Ph.D., 1964) is retired and living in Richardson, Texas. He can be reached at ddunn@utdallas.edu. He let us know that “after a decade of service as Treasurer, I have retired from active management at GSA, but I am joining the Board of Trustees of the GSA Foundation. Joining me as a rookie Trustee is Bill Muehlberger! Should be fun.”

William R. Dupré (B.S., 1968; M.A., 1970) is an Associate Professor in the Department of Geosciences at the University of Houston in Houston, Texas, and reports, “Our youngest son, Phillip, graduated from UT this spring, joining his brother, mom, and dad as alums. Elaine is still teaching second grade and counting the years (??) until she can retire. I’m still teaching at U of H, where the good days outnumber the bad.” William can be reached at wdupre@uh.edu.

Steve Dworkin (Ph.D., 1991) is a Professor at Baylor University in Waco, Texas. He writes, “Acceptance of the concept of ‘self organization’ begets acceptance that the genesis of all geologic features has now been satisfactorily explained. My reluctant acceptance of self organization has therefore inevitably led me to the sad conclusion that the answer to the question, ‘what then remains to be studied?’, is ‘nothing’.”

Fred A. Ealand (B.S., 1948) is retired and living in Houston, Texas, and lets us know “life is good! Two grandchildren have graduated from college, one is a freshman at Vanderbilt, and six more are not far behind! My wife and I are in reasonably good health. What more could one want?” Fred can be reached at fredealand@worldnet.att.net.

Roy E. “Ernie” Easley (B.S., 1980) is the Vice President of Hunt Oil Company in U.S. Offshore Exploration in Dallas, Texas, and can be reached at eeasley@huntoil.com.

Laura Elliott (M.A., 1985) is a Senior Geoscience Consultant with International Reservoir Technologies, Inc., in Lakewood, Colorado, and can be reached at letillman@irt-inc.com.

Patricia Mench Ellis (Ph.D., 1985) is a hydrologist with the Delaware Department of Natural Resources and Environmental Control in Newark, Delaware, and writes, “I’ve been a hydrologist with the Delaware Underground Storage Tank Program for 12 years, during which I have been responsible for the investigation and remediation of more than 500 leaking UST sites. I’m still active in the crusade to get the additive MTBE out of gasoline. It’s been almost three years since the EPA Blue Ribbon Panel that I served on recommended the elimination of MTBE, and we’re still waiting for either Congress or the EPA to get rid of it. At least the Senate finally looks like they might act on it this year. Delaware has had between 20 and 25 percent of its public wells contaminated at least slightly by it, and more than 50 domestic wells. I’m still serving on EPA, ASTSWMO, and ITRC workgroups dealing with MTBE and making the rounds on the lecture circuit at various meetings, including the keynote address at an NGWA MTBE conference last year. I also co-edit a quarterly newsletter on MTBE, and serve as a technical advisor and some-time author of the newsletter *LUSTLine*.

In my ‘free’ time, I share chauffeuring duties with my husband for John and Katie for karate classes, guitar lessons, assorted cross country, lacrosse, field hockey, wrestling, and tennis events, school musical rehearsals, etc. Katie will be a high school senior in the fall, and is currently trying to pick colleges that will put her parents in the poorhouse (does anything cost less than \$35,000 a year?). John will be a high school freshman next year. He grew more than six inches last year,

which has improved his award-winning cross-country stride. I'll add to my summer chauffeuring by hauling him to assorted 5K races in the area. In my 'personal' free time, I read mysteries and make quilts." Patricia can be reached at pellis@dnrec.state.de.us.

Joe Elo (B.S., 1956) is a retired independent geologist living in Fort Worth, Texas. He let us know "I really enjoy reading about the wonderful progress that Earth Science is taking at the University. Exes notes are fun too!"

Rojelio P. Espinosa (B.S., 1985) is a Senior Explorationist with EEX Onshore in San Antonio, Texas. He can be reached at respinosa2@satx.rr.com. He writes, "My wife Allison and I are expecting our third child in September. Big brothers Jonathan (3½) and Nicolas (18 months) are as excited as we are!"

David A. Evans (B.S., 1988) is Division Manager of Petroleum Services at ATC Associates in Boston, Massachusetts. He writes, "new year, new place to call home. Moved from Idaho to New Hampshire through a job relocation. Have been working for ATC Associates for five years as an environmental consultant. I never thought I'd call New England home but do enjoy the four seasons and mild summers. I've lost touch with all former UT classmates, so would really enjoy an e-mail. Linda (A&M, 1983) and I have been married 10 years, and Stuart is now 6. Time does move quickly. Loving life, enjoying work and miss Austin." David can be reached at evans60@atc-enviro.com.

Thomas E. Fanning (B.S., 1956), formerly a Vice President of International Exploration with Marathon Oil Company, is retired and living in Austin, Texas. He writes, "still enjoying serving on the Geology Foundation Advisory

Council. Thanks to Jack Jackson's wonderful gift, this has been a very memorable year." Tom is past Chairman of the Geology Foundation Advisory Council.

Dorman N. Farmer (B.S., 1950) is a geologist and owner of Fargo Exploration Company in Abilene, Texas. He writes, "continuing to maintain my office and still looking for exploration possibilities."

Irma Morgan Feibelman (B.S., 1959) is retired and living in Canyon Lake, Texas, and can be reached at jimirma@gvyc.com.

Murray Felsher (Ph.D., 1971) is a consultant and publisher in Germantown, Maryland, and reports that he's "still undertaking consulting activities related to satellite remote sensing of the earth, for government agencies and aerospace companies, as well as publishing *Washington Remote Sensing Letter*." Murray can be reached at felsher@msn.com.

Peter B. Fisher (B.S., 1990) is Senior Technical Coordinator with the Texas Railroad Commission in Austin, Texas, working in the state funded cleanups of abandoned oil and gas operations.

Walter M. "Dub" Fitzgerald (B.S., 1953), formerly a geologist for Temple Inland, is retired and living in Lufkin, Texas, and writes, "still enjoying retirement—golf and hunting are things of the past since turning 82 last November."

Cindy Fong (B.S., 1988) is living in Hilo, Hawaii, and writes, "Aloha all, enjoying the tropics with my family and photographing. Been active exposing young kids (preschool to 5th grade) to rocks and minerals and helping

my volcanologist buddies videotape/ photograph the active lava flows when time permits. Gotten really fun opportunities to helicopter (without doors) over the Pu'u O'o vent (Kiluaea volcano) and land on the Pali next to some very hot and fast moving lava flows—truly awesome, words do little justice to the experience. If any of my college classmates are out here, e-mail me and let's see if we can get together." Cindy can be reached at clfong@aol.com.

Thomas F. Foster (B.S., 1984) is a geosteering engineer working in Trinidad and can be reached at tommy.foster@inteq.com. He writes, "In 1998, we relocated in Corpus Christi, Texas. The oldest son, Robbie, finishes high school this year and is off to college in September. The youngest son, Justin, starts high school this fall and is doing very well. Sherry and I just returned from Las Vegas, where we celebrated 20 years of marriage. Hope all is well."

Jesse Charles Fowler (B.S., 1974) is a partner with Northwind Exploration in Houston, Texas, and can be reached at nwx2@swbell.net.

Hewitt B. Fox (B.A., 1947; B.S., 1948; M.A., 1948) is the president and owner of Hewitt B. Fox, Inc., in Corpus Christi, Texas, and writes, "After eight years of getting acquainted with some of the most complicated geology in this part of the world, I have been fortunate to locate several drillable prospects in Utah and Nevada while continuing to operate a few ancient properties in South Texas." Hewitt can be reached at hewittbfoxinc@aol.com.

Curtis C. Franks (B.S., 1950) is retired and living in Fair Oaks Ranch, Texas, has an e-mail of ccfr@gvyc.com, and writes, "my space has changed very little but the world around me has gone berserk. Dealing with a few logs

and contours keeps me sane. A few rocks in the head never hurt anybody.”

Abelardo Garza-Hernandez

(B.S., 1975) is a consultant in Mexico and can be reached at abgarza@infosel.net.mx.

Henry B. Gayle (B.A., 1958;

M.A., 1958) is retired and living in San Antonio, Texas. He writes, “Margee and I are enjoying retirement, gardening, traveling, and watching our grand-children grow. We took a five-week tour of China—13 cities from Beijing to Hong Kong. We were in Hong Kong on 9/11 so wound up with five unplanned extra days.” Henry can be reached at mhgayle@satx.rr.com.

Thurman Geddie (B.S., 1945) is

a petroleum geologist living in Austin, Texas, and has an e-mail address of tgppl@aol.com. He lets us know “alive and well, still drilling for oil and gas.”

Christianne “Christi” Gell

(B.S., 1996) is the Business Development Manager for Magic Earth for Landmark’s Asia Pacific organization in Kuala Lumpur, Malaysia, and writes, “Charlie and I moved to Kuala Lumpur at the end of April. Charlie is now the System General Manager for Data Management within Asia Pacific. Please drop us an e-mail if you are ever in Asia!” Christi can be reached at cmgell@lgc.com.

Steven J. Germiot (M.A., 1988)

is a hydrogeologist with Aspect Consulting LLC on Bainbridge Island, Washington, has an e-mail address of sgermiot@aspectconsulting.com and reports, “After 13 years at my previous firm, I joined Aspect Consulting effective 1/1/02. On the home front, our family remains healthy, and our daughters, Hannah (8) and Emily (5), continue to grow.”

Fred M. Gibson (B.A., 1951) is living in Austin, Texas, and writes, “still semi-retired and doing statistical work.”

Paul Giraudin, Jr. (B.S., 1948)

is retired and living in Corpus Christi, Texas, and writes, “no special news, just glad to be here.” Paul can be reached at pgiraudin@juno.com.

Charles A. Goebel (B.S., 1980) is

the President and CEO of Santa Rita Energy Services in Plano, Texas, and let us know “after years with a major traveling and working E & P opportunities worldwide, I am running my own company, Santa Rita Energy Services (www.santaritaenergy.com), an integrated services company. Still learning, technical and business wise, that’s a good thing. Still based in Plano, traveling a fair bit, including to the fair city of Austin. Friends, fellow alums, potential business partners, please contact us via our website.”

L. K. “Rusty” Goetz (M.A., 1977)

is a Senior Geological Explorationist in Development Ventures at Conoco in Houston, Texas, and writes, “enjoyed seeing a lot of the gang at the Houston AAPG. Still traveling a lot both domestically and internationally. We are all waiting with bated breath to see how the ConocoPhillips merger works out.” Rusty can be reached at l.k.goetz@conoco.com.

Eugene M. Goltz (B.S., 1949) is

an independent geologist in Abilene, Texas, and asks that “when in the area please call just for ‘old’ times’ sake. I still work the West Central Texas area and enjoy seeing UT ex-students at our geological meetings.”

W. Leonard Goode (B.A., 1953)

is a consulting geologist in Midland, Texas, and lets us know that “all is well in West Texas.”

Ian Gordon (M.A., 1997) is a Production Specialist with Hewitt Associates in Lincolnshire, Illinois, and can be reached at iantgordon@yahoo.com.

Mark B. Gordon (Ph.D., 1990) is a Depth Imager with GX Technology in Houston, Texas, has an e-mail address of markg@ruf.rice.edu, and writes, “I continue to work for GX Technology in Houston doing seismic processing. I grabbed a chance to take a vacation to Guatemala to attend a conference on the Motagua fault in January. It was great to get back to my geological roots and the research I did at UT and Rice. I also spent part of the year working with Paul Mann and Lisa Gahagan (UTIG) on giant oil fields.”

Peggy Gormley (B.A., 1946) is

retired and living in Dallas, Texas, and reports that she “just got back from a ‘flying Longhorn’ great trip to Normandy. Three geologists were in the group. We made it to the top of Mont Saint Michel, the abbey on a granite island off the coast.” Peggy can be reached at peggormley@msn.com.

Volker C. Grasso (B.S., 1949) is

retired and living in Oklahoma City, Oklahoma, and writes, “nothing new to report. Just getting older which, I suppose, is better than the alternative.”

C. D. “Digger” Gray (B.S., 1957)

is retired and living in Kerrville, Texas, and writes, “looking forward to an open house perhaps when the new Jackson Geosciences Center is completed. What an endowment he gifted to an already great school of geology/geophysics, perhaps even the best!”

Will Green (M.A., 1955) is an independent geologist in Midland, Texas, and writes, “Have a gas prospect in New Mexico and looking for partners.”

Play a lot of tennis during the warm months and ski in the winter. Now serving as President of the Board of Directors of Midland College.”

Steve Grimes (Ph.D., 1999) is a Post Doctoral Fellow in the Department of Earth Sciences at the Memorial University of Newfoundland in St. John’s, Newfoundland, Canada, and writes, “I’m working on Archean tectonics of West Greenland and soaking up that Newfoundland ambience and scenery. Sure, sometimes the weather sucks here—like it doesn’t in Houston? Drop me a line, or better yet, come up for a visit!” Steve can be reached at stgrimes@hotmail.com.

Paul R. Gucwa (M.A., 1971; Ph.D., 1974) is the President of Texas 3 Star Energy Investment, LLC in Houston, Texas, and lets us know he’s “enjoying semi-retirement. Children in school in California and Connecticut, so I get to do a lot of traveling.” He can be reached at pgucwa@aol.com. Dr. Gucwa is a member of the Geology Foundation Advisory Council.

Roy H. Guess (B.A., 1939; M.A., 1940) is a consulting geologist in Casper, Wyoming. Roy can be e-mailed at rhguess@aol.com and writes, “At present oil and gas prices and with the degree of risk, it is difficult to get wildcat wells drilled, so I work with the stock market—especially fuel cell companies, i.e., Ballard and Millennium.”

Albert Haertlein (B.S., 1978) is a geologist with the Kiva Energy Company in Spring, Texas. He can be reached at hline@swbell.net and reports, “I recently visited the Geology Building during Parents Weekend in the spring. It brought back great memories. Best wishes to all in the ’78 class.”

Rosamond A. Haertlein (B.A., 1947) is retired and living in Fredericksburg,

Texas, and writes, “still enjoying Fredericksburg. Adopted two dogs from the SPCA, that keeps us busy!”

C. Clyde Hamblin (B.S., 1950), formerly a petroleum landman, is retired and living in Midland, Texas, and writes, “hang in despite ups and downs in price of oil and exploration activity. Same wife, Martha, after 58 years—hope to hold on two more.”

James M. Hancock, Jr. (B.S., 1962) is a consulting petroleum geologist in Stafford, Texas.

James Vincent Hardwick (B.S., 1940) is retired and living in Midland, Texas.

Jennifer Thompson Hare (B.S., 1986) is a Senior Geophysicist at Zonge Engineering and Research in Tucson, Arizona. She can be reached at jennifer@zonge.com.

Robert W. Hare (B.S., 1979) is a geologist at Producers Service Company in Fort Worth, Texas.

Louis H. Haring, Jr. (B.S., 1938) is the President of Haring Energy Company in San Antonio, Texas, and writes, “participating in a few drilling deals but mainly enjoying relaxing with my family and friends.”

Wiley B. Harle (B.S., 1950) is retired and living in Houston, Texas, and reports, “retired since 1985 and am still wondering how I ever had time to work.”

Karen (B.A., 1970) and **Russell Harmon** (B.A., 1969) are living in Raleigh, North Carolina. Karen is a hydrogeologist with the State of North Carolina, and Russell is a geologist with the U.S. Army. They can be reached at harmon@aro.arl.army.mil and write, “We continue to enjoy life in the piedmont region of North Carolina;

the boys (Jonathan and Brendan) have made the transition to college this year, and Russ has just returned from fieldwork in Panama where he is mapping the geology and geochemically analyzing the Late Cretaceous—Early Tertiary igneous rocks of the Chagres River Basin.”

Edward F. Hays (B.S., 1951) is the President of Benchmark Exploration in Houston, Texas, and writes, “enjoyed National Association of Metal Finishers Convention in Cancun March 2–7 (son-in-law is President), followed by AAPG in Houston, March 10–12.”

James H. Helland (B.S., 1943) is the President of Inland Ocean, Inc., in San Antonio, Texas, and reports, “Low gas and oil prices are killing us. Two-and-three year payouts on wells are not attractive.”

Larry R. Hensarling (B.S., 1956) is retired and living in San Antonio, Texas, and writes, “enjoying retirement. Glad to hear the good financial news concerning the future of the Department.” Larry is a former member of the Geology Foundation Advisory Council.

Rev. Reid Hensarling (M.A., 1981) is the Rector at the Church of the Redeemer Episcopal in Cordova, Tennessee, and offers “congratulations to the University of Texas Department of Geological Sciences, the Bureau of Economic Geology, and the Institute for Geophysics. So many wonderful and exciting new developments have taken place in the last year!”

Charles W. Henslee (B.S., 1951) is retired and living in Houston, Texas, and lets us know “the oldest of 8 grandchildren (Christina) graduated from A&M in 2001 with a degree in Geology and is employed by an environmental company. I had melanomas removed from my ear and lung in July 2001 and am in an experimental

immunization program and doing fine—started playing golf again in September.”

Harold T. Henslee (B.S., 1950) is an independent geologist in Amarillo, Texas, and reports that he is “semi-retired. Still attend football games in Austin. Enjoy visiting. Trying to generate a few good oil and gas prospects. Have 6 grandchildren to enjoy.”

Jon Herwig (M.A., 1982) is the Vice President of Amec Earth and Environmental in Honolulu, Hawaii, and reports, “The islands are still great but spending a lot of time in Korea and Japan selling and doing environmental services. Can read Korean and speak a little Japanese, still working on speaking Korean and reading Japanese. Annyonghaseyo, Konnichiwa, and Aloha to all.” Jon can be reached at jherwig@aloha.net.

Charles H. Hightower, Jr. (B.S., 1956) is an independent petroleum geologist in Lafayette, Louisiana.

Jeffrey D. Hildebrand (B.S., 1981; M.S., 1985) is the President of Hilcorp Energy Company in Houston, Texas. Jeffrey can be reached at jhildebrand@hilcorp.com.

David M. Hirsch (Ph.D., 2000) is an Assistant Professor at Western Washington University in Bellingham, Washington. He can be e-mailed at dhirsch@mac.com.

Nolan Hirsch (B.S., 1944) is retired and living in Midland, Texas, and writes, “I say retired, but maintain an office and continue to participate in deals, etc., but at a much slower pace. Feel okay, Sue is still battling cancer and is a real fighter.”

Dave Hixon (M.A., 1959) is a semi-retired consultant in Friendswood, Texas, has an e-mail address of hixon@hal-pc.org, and reports, “My wife died in

1999, remarried Elfie S. Hixon. I served as a ‘helper’ at the AAPG Convention in Houston (Spring 2002).”

Carroll Ann Hodges (B.A., 1958) is a Town Councilman in Woodside, California, and writes, “A challenging re-election campaign last fall returned me (gratifyingly!) to Town Council, though happily I have passed on the Mayor’s gavel. Controversies over development and growth never end, but at least we still have horses—and I have a new one who is the smartest, most loveable equine on the whole planet! My previous horse died, alas, while I was on a fantastic travel adventure in Namibia last spring— incredible country scenically, geologically, and biologically— highly recommended!” Carroll can be reached at cahodges@att.net.

Paul F. Hoffman (B.S., 1975) is Executive Vice President of Duncan Oil, Inc., in Houston, Texas, has an e-mail address of phoffman@duncanoil.com, and writes that he is “wrapping up an eventful year as President of Houston Geological Society. Am still impressed by how often that truly impressive geologists I meet turn out to be UT alumni. It’s been fun working with so many of them in our E&P activities and in HGS efforts through the years. Exploration remains a challenge, but still offers more than enough fun to hold my interest.”

David S. “Scotty” Holland (B.S., 1957) is retired and living in Houston, Texas, and has an e-mail address of dholland1@houston.rr.com. He reports, “retired from PZL 12 years ago. Still active as Chairman of Trend Exploration Company UCI and many other volunteer activities. Bird hunting and fishing become more important each day!” Mr. Holland is a member of the Geology Foundation Advisory Council.

Edward Hooper (B.S., 1982) is living in Oxford, United Kingdom, and writes, “I am currently in the middle of a year off to spend time with our young family (Austin, 3; Jasmine, 6). We are in the UK, but will return to Perth in October.”

Eleanor M. “Ellie” Hoover (B.S., 1952; B.S., 1956) is a consultant in Conroe, Texas, and reports, “plan on checking out the AAPG and OTC this year in the Oil Capital of the World. Always look forward to and enjoy the *Newsletter*. Completed another year with Emergency Service District. Firefighters and medical responders are a very energetic and much-appreciated group.”

Carlton W. Hornbeck (B.S., 1953) is an independent petroleum geologist in Round Rock, Texas, with an e-mail of geol51@cs.com and writes “still working on new prospects. Would like to invite geologists and petroleum engineers in the Austin area to check out the local S.I.P.E.S. group. Several Texas Exes are members, and it is an active group.”

G. B. “Bill” Howard, IV (B.S., 1982) is the President of Flare Resources, Inc., in Houston, Texas, and has an e-mail address of gbhiv@aol.com.

Ed W. Hughston (M.A., 1950) is an independent petroleum geologist in Taos, New Mexico. Ed can be reached at joanh@newmex.com and writes, “continuing to be active in Gulf Coast and other exploration projects. Left the big cities’ heat 23 years ago, in exchange for the cool mountains.”

Emmett A. Humble (B.A., 1949; M.A., 1951) is retired, living in Houston, Texas, and reports he “still enjoys the frontier areas of the world but spend most of my time sitting in front of a ‘half-smart’ computer and working with community service organizations.”

Emmett can be reached at ehumble@houston.rr.com.

Elvin M. Hurlbut, Jr. (B.S., 1943) is retired and living in Tyler, Texas, and writes, "Congratulations, Jim Wilson, on winning the Sidney Powers Medal. You surely deserve it. Virginia and I and the cat are still functioning. I was gratified to read that a Marine considered my Army division's (77th) World War II war effort better than the U.S. Marines'."

Jim Immitt (M.A., 1981) is a Controller with Advanced Microdevices in Austin, Texas, and writes, "Pam, Angela (7), Adrian (10), and I (I'm not telling!) continue to enjoy Austin. We're involved in scouting and have had the opportunity to help the Scouts learn about and see some geology in the area on our campouts. Look us up when you visit." Jim can be reached at jim.immitt@amd.com.

James R. Jackson (M.A., 1969) is the President of Trace Oil and Gas in Baytown, Texas, and writes, "just working 3-Ds in the Gulf Coast." James can be reached at jhkranch@wt.net.

James R. Jackson, Jr. (M.A., 1940), formerly of Exxon, is retired and living in Houston, Texas, and reports, "like an old '57 Chevy, still running but not very fast, need lots of maintenance, repairs, and upkeep; but still going. Lots of old friends moving on to a better life without war, taxes, or politicians."

Russell W. Jackson (B.S., 1976) is employed by Tyler Oil and Gas, Inc., in Tyler, Texas. He can be reached at rwjtogi@cox-internet.com and writes, "a rather short boom in 2001. Looks like things are coming back around. Enjoyed seeing lots of Exes at the Prospect Expo."

S. Lance Jackson (B.S., 1979) is the Director of Offshore Exploration with the J. M. Huber Corporation in Houston,

Texas, and lets us know "2001 was another great year and we started 2002 with a discovery offshore. My oldest daughter graduated from UT in December of 2001, I only have 4 more to go." Lance can be reached at htlxj@huber.com.

Otis L. James, Jr. (M.A., 1952) is self-employed in Gainesville, Texas, and lets us know that there have been no changes since his last report.

Jim Janssen (B.S., 1979) is a geologist with Walter Oil and Gas in Houston, Texas, and writes, "another great year but no big news in the Janssen family."

Kenneth L. Jarratt (B.S., 1957) is the owner of Jarratt Reality in Edna, Texas, and reports, "still in real estate. Now have son John on board so I can fish and hunt more. Went to see D. K. Royal at UT Exes meeting in Victoria, sure did enjoy his comments."

Borden Jenkins (B.S., 1978) is an independent petroleum geologist in Corpus Christi, Texas, and writes, "I tried this year to get my daughter to go to UT and study geology. She ended up going to College Station and studying journalism. Oh well, with the oil business in a slump again, maybe it's not a bad idea."

Gaston P. Jennett (B.S., 1975) is a Systems Effectiveness Manager of Advanced Programs with Raytheon Missile Systems in Tucson, Arizona. Gaston can be reached at gpjennett@raytheon.com.

Leslie "Les" Jeske (B.S., 1984) is a hydrogeologist with ETTL Engineers and Consultants, Inc., in Tyler, Texas, has an e-mail address of ljeske@ettline.com, and writes, "kids are growing up fast. Abbey (10), Walker (9), Martha (6), and Ginnie (3) and Wendy and I are enjoying every minute. Environmental

consulting business continues to prosper in northeast Texas."

Charles B. John (B.S., 1951) is a geologist with the Bureau of Land Management in Tulsa, Oklahoma, and writes, "I am in my sixth post-doc year at BLM, working principally in the frontal and central thrust belts of the Ouachita Mountains of southeast Oklahoma. Norma and I are in our 56th year of marriage. I thank God for his blessings."

Charles G. Johnson (B.S., 1983) is a geologist with McGowan Working Partners, Inc., in Jackson, Mississippi, has an e-mail address of charliegj@aol.com, and writes, "buying production in Texas, Louisiana, and Mississippi and managing to keep up with decline. Hardly seems like twenty years since Geo days at UT. All four kids are healthy and growing fast."

Gene Funkhouser Keyser Jones (B.S., 1948) is living in Midland, Texas, and has sad news to report: "On April 15, 2002, my husband, Phil, died after a hard-fought battle with throat cancer. It is a little early to tell what this year will hold, but I plan to stay right here in Midland, watching what new unfolds industry-wise, world-wise, and personally. My best to all."

J. Phil Jones (B.S., 1964) is a land consultant with Devon Energy in Oklahoma City, Oklahoma, and reports that he is "watching grandchildren grow. The domestic energy business continually becomes more complex and muddled which, of course, means more work for attorneys and accountants. Regards to all." He can be reached at philj@flash.net.

James A. Kalinec (B.S., 1982) is a Senior Development Geologist with ChevronTexaco in New Orleans,

Louisiana, and writes, "I've been back in New Orleans since 1997 and still enjoy drilling wells in Bay Marchand, one of the oldest oil fields in the Gulf of Mexico. At home Linda and I have been staying busy keeping up with our 7-year-old daughter, Katherine. Howdy to all my old friends from the '82-'83 graduating classes!" James can be reached at jkal@chevrontexaco.com.

Edwin N. Kasper, Jr. (B.S., 1951) is retired and living in Houston, Texas, and writes, "Austin was beautiful in mid-April when I came to visit the Austin Radio Control Association's War-Bird fly-in. B.B. Weber brought his B-29 Enola Gay, and I flew co-pilot. Luckily we took back to Houston the award for the best World War II aircraft at the show. Retirement is fun!"

Steven G. Katz (Ph.D., 1975) is Managing Partner at G. Lieberman and Sons, Ltd., in Granville, Ohio, and reports, "Connie and I continue to enjoy life in Granville, Ohio. Made two trips to Australia in the last 12 months—fantastic geology, flora, and fauna! Regards to all at UT." Steven can be reached at n8wl@arrl.net.

Daniel N. Keeler (B.S., 1980) is living in Midland, Texas, and writes, "I plan to graduate from The University of Texas, Permian Basin with a B.S. in computer science in May, 2002. Andrea and I will probably relocate from Midland over the summer."

Ed R. Kennedy, Jr. (B.S., 1948; M.A., 1949) is a consulting geologist in Midland, Texas, and reports, "working shorter hours, but still enjoy working. Still concentrate on the Delaware Basin."

Don Kerr, Jr. (B.S., 1960) is with Kerr Construction Services in Houston, Texas.

Denise Harrington Ketcham (M.A., 1994) is a multimedia programmer at the Center for Instructional Technologies at UT-Austin and can be reached at dketcham@mail.utexas.edu.

Marcus Key (B.S., 1983) is an Associate Professor at Dickinson College in Carlisle, Pennsylvania, and writes, "I am busy with my wife and four kids, teaching paleo., sed., strat., and researching bryozoan evolution with a field course in the Galapagos." He can be reached at key@dickinson.edu.

Howard W. Kiatta (B.S., 1958) is an independent geologist in Houston, Texas.

Robert J. Killian (B.A., 1977) is an exploration geologist with Alcorn-Texas and Texana Resources in Houston, Texas, and reports, "still working Gulf Coast and East Texas; lost my wife Suzanne of 17 years to colon cancer last May; raising 9- and 12-year-olds keeps me busy." Robert can be reached at marrah@yahoo.com.

David L. Kirchner (B.S., 1973) is President of Basin and Range Hydrogeologists, Inc., in Phoenix, Arizona, and reports, "I am healthy and happy living in Phoenix, Arizona, with my wife Kathy (retired geologist) and our two sons, Kory (11) and Kody (9). I am quite active and busy with my environmental consulting firm, which I founded in 1987. The firm provides hydrogeological site characterization, environmental permitting, soil and groundwater remediation, and litigation support services to its private-sector clients. Most of my projects are located within the great state of Arizona.

I have been enjoying my personal time managing/coaching my son Kody's Little League Baseball team and participating in numerous Cub Scout activities. Kathy spends most of her

time being a fine and responsible mother, helping at the neighborhood school, playing tennis, gardening, and raising funds for the Orme School near Mayer, Arizona.

If you ever make it to Phoenix, please stop and say hello to the Kirchner family. They have room for you, your kids, and their horse(s). I am proud to have attended the best geosciences school in the nation, and I am hopeful it will continue to grow and prosper." David can be reached at kirchner@basin-and-range.com.

Don L. Kirksey (B.S., 1960) is in waste management consulting in Oklahoma City, Oklahoma, and writes, "We spent a lot of time last year in our travel trailer in Oklahoma state parks, enjoying nature, but also working on a new course for those who wish to change careers. In June, we will offer training in waste management consulting. My change from exploration geology, after 30 years, to waste management has been enjoyable. One field was slowing down in 1988 while the other was taking off. My wife, B.J., and I have a good thing going, being married, and sharing skills that made our career change successful. Also, we sure enjoy our three grandkids."

Glenn Klimchuk (M.A., 1993) is the Director of Oil and Gas Business Consulting with Andersen in Moscow and writes, "I'm a director in Andersen's business consulting practice here in Moscow helping Russian oil companies restructure themselves and implement western business practices." Glenn can be reached at glenn.a.klimchukeru@andersen.com.

Lis Konnecke (M.S., 1977) is a Senior Geophysicist for WesternGeco in Austin, Texas.

Erwin K. Krause (B.S., 1949; M.A., 1954) is retired and living in Houston,

Texas, and reports, “still cruising and looking for new places to visit—so many places, so little time. A grandson joined the five granddaughters last year.”

Karen Carter Krogh (M.A., 1985; Ph.D., 1990) is a stay-at-home mom in Apex, North Carolina, and writes, “raising a beautiful soul. Stop by when you’re in the area!” Karen can be reached at kkrough@earthlink.net.

J. Scott Kuykendall (B.A., 1975) is a Project Manager with Engineering Consulting Services, Ltd. in San Antonio, Texas, and can be e-mailed at skuykendall@ecslimited.com.

Ted Lacaff (B.S., 1950) is living in Santa Fe, New Mexico, and writes, “Great *Newsletter!* However, it is missing a lot of grads from the classes of ’49, ’50, and ’51! Either they’re NOT getting their mail, NOT able to open their mail, can’t SEE to read their mail, don’t KNOW where their mailbox is, OR simply don’t want the rest of us to know what they are up to (which we probably don’t want to know?), BUT, whatever the reason is, get someone to help you respond because the rest of us would like to know about you! ME: I’m having the time of my life with my wife of 50 years, in Santa Fe and enjoying watching the ’Horns get to the Final Four.”

George Laguros (M.A., 1987), a geophysicist with Marathon Oil Company in Houston, Texas, may be reached at galaguros@marathonoil.com. He writes that he’s “working the production side of the business in the Gulf of Mexico with Marathon in Houston. Virginia, Michael (12), and Daniel (9) are doing well.”

James L. Lamb, Jr. (B.S., 1956) is an oil and gas producer in Austin, Texas, and has an e-mail address of jllambjr@aol.com.

Leon M. Lampert (B.S., 1951; M.A., 1953) is the owner of Lampert Exploration Corporation in Dallas, Texas, and lets us know he is “still exploring and operating in South Texas, also buying royalties in Oklahoma and Texas. Was in France and Italy in summer 2001. Hope to go to northern Europe in summer 2002. Have 2 granddaughters in Dallas and 3 grandsons in Denver (ages 6 years to 1 month).

Richard Lanfear (B.S., 1981) is a geologist with Tri-C Resources in Houston, Texas, and can be reached at rlanfear@tricrosources.com.

J. Earle Lawless (B.S., 1951) is a petroleum consultant living in Corpus Christi, Texas, and lets us know that he is “still in the game.”

Bill Layton (B.S., 1981) is a petroleum geologist in San Antonio, Texas, can be reached at litlantkiller@msn.com, and writes, “still drilling along the Texas Gulf Coast with Burk Royalty Company. Jessica is starting college in September, and Jordan starts high school. K.C. and I are working hard and playing hard. Hi to all 660 (1981) buds... the phantom rules... e-mail me!”

Jöel Le Calvez (Ph.D., 2002) is a geologist with Schlumberger in College Station, Texas, and can be reached at jcalvez2@slb.com.

H. Louis Lee (B.S., 1954; M.S., 1958) is a consulting geologist in Austin, Texas, and offers “Congratulations to Keith Young on getting the Fund for the Curation of Non-vertebrate Collections started. Now let’s all generously support this fund. Still enjoy exploring the Gulf Coast for more reserves. 3D seismic and lots of subsurface geology can work wonders. It’s still fun.” He can be reached at llee999@juno.com.

David M. Levin (B.A., 1978) is the owner and President of Power Petroleum in San Antonio, Texas, and writes, “Power Petroleum is busy drilling exploration and development wells in lower South Texas on 3-D programs it shot and acquired over the last year. In Memoriam: Max Levin, M.S. geology, 1951; died June, 2001.” David can be reached at powerpet@realtime.net.

Paul S. Lewis (M.A., 1978) is living in Austin, Texas, and writes to say “I enjoy reading the *Newsletter.*”

Walter S. Light, Jr. (B.S., 1977) is the President of Thunder Exploration, Inc., in Houston, Texas, and reports “presently working up Wilcox, Frio, Yegua prospects using 3-D data sets.” He can be reached at wthunderx@aol.com.

Tim Lignoul (B.S., 1982) an environmental attorney in Los Angeles, California, with an e-mail of texexes@pacbell.net, writes, “I continue to use my training and experience in geology on a daily basis.”

Tung-Hung Thomas Lin (M.A., 1984) is an advising geophysicist with Unocal Corporation in Houston, Texas, and can be reached at tlin@unocal.com.

Eugene Lipstate (B.S., 1949) is retired and living in Lafayette, Louisiana, with an e-mail of elstate@aol.com, and reports, “just celebrated my 52nd wedding anniversary. First grandchild leaves for college this fall. Looking forward to the ’Horns 2002 football season.”

Nancy Elizabeth Green Lister (B.A., 1955) is a homemaker in Houston, Texas, and writes, “Ray is still working full time. We love being grandparents. Emily is almost three, and our new grandson will come in March. Ray hunts and fishes, and we travel when-

ever possible." Nancy can be reached at rlister@airmail.net.

Erwin R. "E. R." Lochte, Jr. (B.S., 1956) is a petroleum geologist in San Antonio, Texas, and reports, "enjoying the semi-retired life and spending lots of time at our Hill Country ranch."

Allen C. Locklin (B.S., 1954) is an independent petroleum geologist in Tyler, Texas, and writes, "I'm still involved in exploration but to a lesser degree. Nancy (Summers) and I will celebrate 48 years of marriage this summer. Moved my office to home in October, got everything in one pile. Seem to spend lots of time at funerals, being 72 it's expected. Have two granddaughters at Texas Tech, and a third will be at UT next year. Enjoy the *Newsletter*."

Susan Longacre (B.S., 1964; Ph.D., 1968) is a semi-retired independent rock reader in Houston, Texas, and lets us know "although I will continue to be active as a ChevronTexaco Fellow doing mentoring and making technology visits, I'm turning to buying/remodeling/building a new home in Kerrville. Ken and I will be unplugging from Houston for the next year or so; then we'll make a new life in the Hill Country. Some consulting anticipated—reading fizzy rocks." Susan may be reached at susanlongacre@chevrontexaco.com. Dr. Longacre is a member of the Geology Foundation Advisory Council.

Donald R. "Don" Longenecker (B.A., 1949) is living in Wilson, Wyoming.

Emily Lu (B.S., 2000) is an associate geologist with ExxonMobil in Houston, Texas.

Lester E. Ludwick (B.S., 1950) is living in El Paso, Texas, and writes "enjoying retirement, keeping up with

'Horns sports activities, and UT news." He can be reached at lml321@aol.com.

Robert Mace (Ph.D., 1998) is the Assistant Division Director for the Texas Water Development Board in Austin, Texas, and writes, "doing a heap of groundwater modeling for the State of Texas, restoring a '58 Isetta, and remixing classic country." Robert can be reached at bubba@whirlingpool.com.

Frank Leroy Manville (B.A., 1955) is retired and living in Brownsville, Texas, and lets us know, "I retired from my job at the County Engineers' Office 9 years ago, and I have done no work since. I moved into a small apartment and have lived in peace and quiet since then."

Sabin W. Marshall (B.S., 1952), formerly of Texas Gas Transmission, is retired and living in Houston, Texas, and writes, "looking forward to the 50th reunion of the Class of 1952 in Austin, April, 2002."

Dave Martens (B.S., 1984) is the Director of Geology at Unocal Thailand, has an e-mail address of dmartens@unocal.com, and reports, "My family and I are still in Bangkok enjoying every minute. We have been here 9 years now. Work keeps me busy with 220 wells to be drilled in 2002."

Owen Martin (B.A., 1990) is an Inside Sales Manager with NexTec Group in Houston, Texas, has an e-mail address of omartin@nextecgroup.com, and reports "got out of the Navy a couple of years ago. Just before getting out I got to see Mount Etna erupting and passed within a couple of miles of Stromboli. Neat stuff for those of us who took Vulcanology. Currently I'm working for NexTec Group, a Longhorn owned and operated consulting company. My focus is selling IT/Accounting solutions to

the energy and related industries in Houston."

Christina Massell (M.A., 1997) is a Graduate Student at Scripps Institution of Oceanography in La Jolla, California, and writes, "I am completing my Ph.D. at Scripps this spring and am pursuing an interest in science policy." Christina can be reached at cmassell@ucsd.edu.

Robert L. McBroom, Sr. (B.A., 1951) is a consulting petroleum geologist in Wichita Falls, Texas, and writes, "still looking for oil in North Texas and writing an oil column for *The Times and Record News* newspaper in 'The Falls.'" Robert can be reached at macescoba@aol.com.

Bill J. McGrew (B.S., 1954; M.A., 1955) is retired and living in Columbia, Tennessee, and lets us know that "things are quiet here. I plan to visit my Texas friends this year."

Wayne Eugene McIntosh (B.S., 1956) is a consultant in Rio Rancho, New Mexico, and writes, "doing quite a bit of consulting. Enjoy the work but the traveling is getting old. Son Scott and wife Nadine have a new boy, Peter Ross, who we hope will follow his dad and grandpa to UT. Enjoy the *Newsletter*." Wayne can be reached at wemhuz1@aol.com.

W. N. "Mac" McKinney, Jr. (B.A., 1960; M.A., 1963) is a consultant in Spring, Texas, has an e-mail address of wmckinney@houston.rr.com, and reports, "Well, I've finally moved back to God's country just in time for the slump. I'm also finally getting royalty from three wells. Hope to make it four soon, if prices ever go up."

Temple McKinnon (B.S., 1991) is a Research Specialist with the Texas Water Development Board in Austin, Texas, and can be reached at templemckinnon@hotmail.com.



Pat Murta from a Wal-Mart commercial in which he starred. Photo provided by Pat Murta.

Robert J. McLellan (B.S., 1949) is retired and living in Kerrville, Texas, and writes “beginning to feel like a dinosaur. I don’t own a computer or a cell phone—I don’t even own an SUV.”

Jerald E. McQueen (B.S., 1961; M.A., 1963) is a consultant in Kingwood, Texas, and lets us know that while there have been no major changes with him, “it is wonderful that the Department and Foundation are striving to become the best geosciences school in the nation.” He can be reached at jemc@kingwoodcable.com.

Asa D. McRae (B.S., 1942) is retired and recently moved to Dallas, Texas.

Steve McVey (B.S., 1985) is a Senior Geologist at PBS&J in Austin, Texas, and can be reached at srmcvey@pbsj.com.

Joe N. Meadows (B.A., 1962) is an attorney in Woodway, Texas, can be reached at meadowsjoe8@cs.com, and writes, “trying to play more golf and scuba dive more. Thank goodness I don’t dive as badly as I play golf.”

John A. Means (M.A., 1948) is retired and living in Richardson, Texas, and says that he is “going to more funerals than I would like to. Waiting on good fishing weather. Al Candela, please call me at (972) 234-0168.”

Peter Megaw (B.A., 1976; M.A., 1979) is working for IMDEX, Inc., in Tucson, Arizona.

Charles M. Merrill (B.S., 1956) is retired and living in Austin, Texas, can be reached at austinmerrills@hotmail.com, and writes, “still enjoying the good retirement life in far Southwest Austin. Enjoy reminiscing about the old summer field trip days when passing through the old ‘Central Mineral Region’ and hiking the Big Bend country.”

Anne Smith Miller (B.A., 1983) is a Project Manager with the Texas Natural Resource Conservation Commission and reports, “Rocks continue to play an integral part in our lives. Both sons manage to collect buckets of gravel in their sneakers at the playground and are avid collectors of good skipping stones.”

Ginger Braswell Miller (B.S., 1987) is a homemaker in Englewood, Colorado, has an e-mail address of gabmil@earthlink.net, and lets us know “Bill and I welcomed the arrival of number four, William, in August. I’m holding my head above water. At least we have had a mild winter here in Denver. Looking forward to a pleasant summer.”

Michael Reed Miller (B.S., 1980) is an Environmental Geologist with City Survey in Austin, Texas, and writes, “This past year I have been working on nominating family property in Louisiana (Valverde Plantation) to the National Register of Historical Places. Plan to ‘retire’ from LPST program next year and travel to Europe, Southeast Asia,

and meet family in the Philippines. Hi to Geology Dept. Scum alumni!”

Wayne D. Miller (M.A., 1957) is a consulting geologist in Midland, Texas, and lets us know “staying busy with my consulting business. Have gotten involved in the horizontal Devonian and Montoya drilling geological consulting. Hope to get one of my prospects finally drilled this year. Wife, children, and grandkids are all doing great.”

Mike Moore (B.S., 1980) is the Vice President of Esenjay Exploration, Inc. in Corpus Christi, Texas, and writes, “As the dust settles, scum always rises to the top. To all GDS members, I salute you!” Mike can be reached at moore@esenjay.com.

R. McKay Moore (B.A., 1952) is a consultant in Shreveport, Louisiana.

Charles Motz (B.S., 1960) is retired and living in New Braunfels, Texas.

Todd J. Muelhoefer (B.S., 1991) is a Senior Project Geologist with Terracon in Wheat Ridge, Colorado, and can be reached at tjmuelhoefer@terracon.com.

Harry W. Mueller, III (Ph.D., 1975) is a geologist with Saudi Aramco in Dharan, Saudi Arabia, and can be reached at muellehw@aramco.com.sa and writes, “I’m doing the same thing for Aramco that I was doing for Exxon, but I’m five minutes from my office by bike. James (the oceanographer, 23) is in Navy Jet School. Kristen (19) is majoring in philosophy, English, or creative writing at Colorado State University. My fortune-telling wallet sees many years of school ahead.”

James Gerhardt Muncey (B.S., 1981) is a Business Analyst and Consultant with ChevronTexaco in Houston,

Texas, and reports “having fun working the business of exploration in a strategic sourcing project for seismic services. I am also helping my wife Susan run our Fredericksburg, Texas, bed and breakfast from Houston. Daughters Ali (7) and Elizabeth (12) are more fun every day!”

Pat Murta (B.A., 1941) is retired and living in Tulsa, Oklahoma, and writes that he is “swimming about ¾ miles a week. Feel pretty good for being 82 in August 2002. Hard to believe how big Austin, the University, and the Geology Department have gotten.”

G. Allan Nelson (B.S., 1947) is a consultant in Denver, Colorado, and writes that he is “in my 45th consecutive year as a consultant. Doing lots of well-sitting lately. Won’t be 80 until May. After 55 years the only other damn Yankee in the famous 1947 class, John Osmond, is in my building.”

Dan Neuberger (M.A., 1987) is the Owner of Neu Oil and Gas, L.L.C. in Corpus Christi, Texas, and writes “quit my job with Suemaur Exploration and started my own company.” Dan can be reached at neuoilandgas@aol.com.

John Newcomb (M.A., 1971) is a staff geologist with Hunt Petroleum Corporation in Houston, Texas, and writes, “Exploring for oil and gas on the Gulf of Mexico shelf. Daughter Wendy graduated from Saint Thomas University and is working for WesternGeco Geophysical as a seismic data analyst in Houston.” John can be reached at jnewcomb@huntpetroleum.com.

Dalia Gonzalez Niederer (B.S., 1980), formerly of Mobil Oil, is retired and reports, “My family, husband Arlo, daughter Rachel, and son Derek now live in Jackson Hole, Wyoming, skiing, hiking, and having fun.” She can be reached at daliashopg@aol.com.

Isaac W. Norman (B.S., 1948) is retired and living in Taylor, Texas.

John F. O’Donohoe (B.S., 1950) is President and CEO of Coastline Exploration, Inc., in Houston, Texas.

A. M. “Red” Olander (B.S., 1948), formerly of Exxon, is retired and living in Austin, Texas, and writes, “recently elected moderator of the Synod of the Sun Presbyterian Church USA. The Synod of the Sun includes the states of Texas, Louisiana, Arkansas, and Oklahoma.”

Pamela R. Owen (Ph.D., 2000) is the Collections Manager for the Vertebrate Paleontology Laboratory at The University of Texas at Austin. She can be reached at powen@mail.utexas.edu.

Kenneth Ira Owens (B.A., 1954) is retired and living in Austin, Texas, and lets us know “still enjoying being a surrogate grandfather, tutoring high school students.”

Robert M. Owens (B.S., 1951) is a consultant in Cypress, Texas, and writes, “I visit and rap weekly with other UT geologists: Bill Lacy, Gene Austin, Chuck Tysor, etc., at our Gulf Coast Geological Library here in Houston.”

Donald Bryan Pairsh (B.S., 2000) is a geologist with the Groundwater Protection Team at the TNRCC in Austin, Texas. He can be reached at bryanp91@hotmail.com.

Jack M. Park (B.S., 1950) is living in Lindale, Texas, and has “retired to the golf course in Hide-a-Lake, Texas.”

Robert Timothy Parks (B.S., 1988) and **Leah Kelley Parks** (B.S., 1987) are living in Houston, Texas, where Robert is a geologist for El Paso Production. They report, “We have a new addition,

Jane Katherine, born in January. Her sister Meggan is 8, her brother Steele is 6, and her dogs Charlie and Lucy are just old.” They can be reached at theparks@ev1.net.

J. F. Patterson (B.S., 1952) is living in Bellaire, Texas.

Garner Peterson (B.S., 1999) is an Associate Scientist and GIS Technician with Parsons Engineering Science in Austin, Texas, and can be reached at garner.peterson@parsons.com.

Robert W. Pettigrew (B.S., 1952; M.A., 1954), formerly of ExxonMobil, is retired and living in Spring Branch, Texas, has an e-mail address of robertwp@gvtc.com, and says he is “enjoying retirement in the Hill Country. Trying to raise something on the Glen Rose other than rocks.”

Loren Phillips (B.A., 1982) is a geologist with the U.S. Army Center for Health Promotion and Preventative Medicine in Bel Air, Maryland, and writes, “New son, Daniel, was born August 28, 2001. Both Daniel and Adam (now 13) are keeping me busy. Drinking water source assessments and artillery impact area environmental investigations are occupying my time at work.” Loren can be reached at loren.phillips@apb.amedd.army.mil.

George B. Pichel (B.S., 1951) is retired and living in Dana Point, California, and can be reached at gpichel@earthlink.net and reports that it is “hard to believe growth of geological sciences. I hope job opportunities are keeping up with the growth. Rented an apartment in Rio de Janeiro for 2 months last year—this year, Provence.”

Timothy L. Pierce (B.S., 1997) is currently a geology graduate student at

The University of Texas at Austin and can be reached at tpierce@mail.utexas.edu.

James N. Piper (B.A., 1988; M.A., 1997) is a Research Scientist with Applied Research Laboratories in Austin, Texas, and writes, "Last year was a real busy one. Spent a total of three months at sea conducting underwater acoustic research for the Navy. Looks like this year will be the same!" James can be reached at piper@arlut.utexas.edu.

Gerald S. "Jerry" Pitts (B.S., 1954) is retired and living in Midland, Texas, has an e-mail address of jerry@pittsenergy.com, and reports, "looking for Permian Basin properties to purchase! Should be a good year as prices are weak, and many properties are already on the market."

Robert B. "Bob" Porter (M.A., 1951) is semi-retired from RBP Land Company in Midland, Texas, and writes, "broke my leg last November (fell down a mountain up at Ruidoso) but moving pretty good again now. New great-grandson born last summer. Polly and I celebrate 56 years together this June. Do they still have artificial moonlight in Austin? I suppose not. But maybe they still do the cotton-eyed-Joe out at Dessau Hall. Come see us. Semper Fi."

J. Dan Powell (Ph.D., 1961) is retired and living in Grand Junction, Colorado, and reports, "now working full time: keeping me off the streets and out of the bars!" Dan can be reached at dandorth@aol.com.

Dennis Prezbindowski (Ph.D., 1981) is Chief Geologist with 4D Consulting, Inc., in Indianapolis, Indiana, and can be reached at prezbindowski@yahoo.com.

John Proctor (B.A., 1950) is retired and living in New Braunfels, Texas, and

writes, "Last August, we went on a cruise of the Baltic Sea. The highlight was the Hermitage in St. Petersburg, though for me it was Helsinki. The Finns are like Texans of former times, they still honor their heroes."

Leo Pugh (B.S., 1952) is retired and living in Houston, Texas, where he is "doing babysitting with grandchildren. Still helping wife in her flea market business. Regards to all old friends."

Walter K. Rainbolt, Jr. (B.A., 1957) is the President of Dynamic Exploration, Inc., in Lafayette, Louisiana.

Nathan Rakestraw (B.S., 1980) is a Senior Drilling Engineer for Dominion Exploration and Production in Jane Lew, West Virginia, and writes "I have just completed my 20th year drilling and completing wells in the Appalachian Basin. Living in West Virginia with my wife Paula and two kids Ryan and Rebecca, it has truly been a great place to raise a family."

Sherri Kay Randal (B.S., 1999) is a student in Arlington, Texas, living in Euless, Texas, and can be reached at sherrirandal@uta.edu.

Clyde M. Rascoe (B.S., 1949) is the President of Merit Oil Company in San Angelo, Texas, and writes, "not doing much in the oil business, but still working on my old house."

M. Allen Reagan (B.A., 1950) is retired and living in Houston, Texas, and lets us know "still traveling quite a bit—France and England last year. Sue Ann and I are enjoying our 11 grandchildren ranging in age from 30 years to 6 months."

Robert M. "Rob" Reed (B.S., 1985; Ph.D., 1999) is a Postdoctoral Fellow at the Bureau of Economic Geology in

Austin, Texas, and writes, "I am still working on fractures in sedimentary rocks. In my 'spare' time I continue my work on the Proterozoic rocks of Central Texas." Rob can be reached at rob@alumni.utexas.net.

Jeffrey C. Reid (M.A., 1973) is a Senior Geologist in Raleigh, North Carolina, and reports, "Our daughter, Sarah, graduated from college and is teaching first grade at a nearby school. Our son, Sam, will begin college this fall. Mary is a pharmacist now employed by a national chain pharmacy. I am still doing geology (mineral resource investigations and GIS) at the state geological survey. I also teach GIS at N.C. State University, where I am on the faculty." Jeffrey can be reached at rksrus@aol.com.

James V. "Jim" Richards (B.S., 1956) is a consulting geologist in Houston, Texas, can be reached at jr1934@aol.com, and writes, "I am never retiring—enjoying exploration too much. Still generating prospects in the Gulf Coast and becoming more proficient at working 3-D seismic."

Harold "Gene" Richardson (B.S., 1958) is retired and living in San Antonio, Texas, and reports "just completed four wonderful days exploring many areas of Big Bend." Gene can be reached at generich7@worldnet.att.net.

Wade C. Ridley (B.S., 1953; M.A., 1955) is the President of Ridley Oil Corporation in Tyler, Texas, and says "not retired de jure but I guess I am de facto. I'm still here every day, so come see me." Wade can be reached at cridely@cox-internet.com.

Jess P. Roach (B.A., 1941) is retired and living in Austin, Texas, and writes, "One hospital stay per year hasn't accelerated, so I guess I'm doing okay."

Ron S. Robinson (B.S., 1958) is the owner of Robinson Real Estate in El Dorado, Arizona, has an e-mail address of ron@robinsonrealestate.net, and writes, “2001 *Newsletter*—best ever! Contacted former roommates and classmates in four states this past year. Our directory and e-mail have made the difference. The extended Robinson family continues to grow with seven grandchildren. We are blessed!”

William B. Rodan (B.S., 1942) is retired and living in Metairie, Louisiana, and writes, “retired for the second time. Not as great as I had expected, but what can you expect when you get old.”

Jennifer Roberts Rogers (Ph.D., 2000) is an Assistant Professor at the University of Kansas in Lawrence, Kansas, and can be reached at jrrogers@ku.edu.

Rollins M. Roth (B.S., 1958) works in product support in Breckenridge, Texas, and writes, “still active in the oil patch drilling and completing and workovers—no plans to retire.”

Sally Rothwell (M.A., 1987) is a Permit Coordinator with Phillips Alaska in Anchorage, Alaska, and reports she’s “happily employed obtaining environmental permits for oil and gas projects on the North Slope of Alaska. Loving the skiing, boating, hiking, and other wonders of Alaska living.”

Jimmie Norton Russell (B.S., 1952; M.A., 1954) is an Educational Assistant III with GOALS Learning Center with the Round Rock, Texas, I.S.D., and writes “continuing to educate middle and high school emotionally disturbed students as part of the Round Rock, Texas, public school system. Recently joined the Austin Community College’s pool of adjunct geology instructors.”

Floyd Sabins (B.S., 1952) is retired and living in Fullerton, California, and has an e-mail address of ffabins@adelphia.net.

Chester C. Sadler, Jr. (B.S., 1953) is the owner of Tejas Real Estate in Gatesville, Texas.

Chris Sagebiel (B.S., 1993; M.S., 1998) is the Curator of Geology at the San Bernardino County Museum in Redlands, California, and writes, “Currently, I am living a double life. At the museum I am completing work on the largest paleontological project ever conducted—the Diamond Valley reservoir project—and also working on various projects in California and Nevada. I am also developing grant money to revamp the mineralogical displays and the collections at the museum.

My other life is as a graduate student at the University of California, Riverside. I received a fellowship in the Genetics and Bioinformatics program to study South American mammals using combined analyses of genetics and morphology.” Chris can be reached at jsagebiel@sbcm.sbcounty.gov.

James L. Salyer (B.S., 1948) is retired and living in Sedona, Arizona, and writes, “I work as a volunteer at the Museum of Northern Arizona in Flagstaff in the geology department directed by Dave Gillette. Boy, am I learning about dinosaurs!”

Philip Sampler (B.S., 1951) is retired and living in Richardson, Texas, has an e-mail of psampler@hotmail.com, and reports, “Retirement gives us time to do things we never had time to do! Luci and I are taking computer courses at Richland College. We are now into digital imaging and desktop publishing. It blows your mind what you can do with photographs!”

Charles E. Sandidge (B.S., 1978) is an independent geologist in Tyler, Texas, and can be reached at charlessandidge@hotmail.com.

George W. Schneider, Jr. (B.S., 1958) is retired and living in Madisonville, Louisiana, and says he is enjoying life on the river. George is a former member of the Geology Foundation Advisory Council.

Paul E. Schnurr (M.A., 1955) is retired and living in Concord, California, and writes, “mostly enjoying my family, especially the grandchildren. Attending track meets, soccer games, dance reviews, concerts, stage plays, and in the summer, the Oakland A’s. Doing some traveling and lots of gardening.”

Ted Schulenberg (M.A., 1958) is a geologist in Kerrville, Texas, can be reached at schulen@krc.com and writes, “no news, just happy to still be around.”

Rubin A. Schultz, Jr. (B.S., 1961) is a District Maintenance Manager with the Texas Department of Transportation in Corpus Christi, Texas, and reports, “not much change, still working for TxDOT and enjoying a little travel. Still making our yearly stay on Maui, Hawaii, in May. We did move to a larger house last March (have to have room for visiting grandkids!!)”

Eugene P. Scott (B.S., 1957) is a petroleum geologist consultant in Corpus Christi, Texas.

Sandra J. Scott (B.S., 1985) is a consultant and CPA in Dallas, Texas, and can be reached at sandy363@aol.com.

John E. Seale (B.S., 1941) is retired and living in Houston, Texas, and writes “enjoy the *Newsletter* and enjoy news about the oil business. At this stage of

my life, most of my activities concern family and home.”

Kenneth O. Seewald (Ph.D., 1964) is an independent geologist affiliated with Thomasson Partner Associates in Denver, Colorado, and reports, “Thanks UT Geology Department for hosting a well-attended alumni party at AAPG Houston! Mary and I enjoyed visiting with everyone. Still searching for natural gas in West Texas and the Rockies.” Kenneth can be reached at seewa2@aol.com.

William W. “Bill” Sharp (B.S., 1950; M.A., 1950) is a geologic consultant and investor in Dallas, Texas, and writes, “made additional donations of photos to Benson (a relative) Latin American Library. Photos of Motilone community dwelling—west side Lake Maracaibo—east flank Perija Mountains, Venezuela. Need to find a home for the diary of a Japanese captain killed by an American patrol after the end of World War II, the Nimitz Museum says it is a historic document. Onward through the fog.”

Stephen L. Shaw (B.S., 1971; M.A., 1974) is the Senior Geological Advisor with Burlington Resources in Midland, Texas, and reports that he is enjoying serving on the Geology Foundation Advisory Council. He can be reached at sshaw@br-inc.com.

Steve Shelburne (B.S., 1985) is a Claims Supervisor with Farmers Insurance in Austin, Texas, and reports “still in Texas and bike racing in the Texas State Mountain Bike Championship Series. Rosemary is pregnant with twins, so soon I will have two newborns and two teenagers! WOW!” Steve can be reached at steve_shelburne@hotmail.com.

William T. “Bill” Sherman (B.S., 1951) is an independent geologist

in Houston, Texas, and writes “still working, still showing, still breathing, still 3 putting, and double faulting. Great school and great campus—hope to see more of it in the near future.”

Scott Simmons (B.S., 1987) is the Director of Business Development with Techni Graphic Systems, Inc., in Wooster, Ohio, has an e-mail address of ssimmons@mindspring.com, and writes, “I really seem to have become hooked on this GIS stuff. I am now the Director of the GIS application development division of TGS and split my time between Wooster, Ohio, and Fort Collins, Colorado. I still do some geology-related work, but mostly save the UT Geology education for trivia at bars. I’ll be back in Fort Collins full time in late 2002 unless I go nuts and decide that I like dreary weather.”

Samuel J. Sims (M.A., 1957) is a consulting geologist in Bethlehem, Pennsylvania, and reports, “I still continue keeping busy as a consultant in the commercial and chemical stone business here in southeastern Pennsylvania.” Samuel can be reached at s768@aol.com.

Robert Samson Singer (B.S., 1961) is a Senior Petroleum Engineer Consultant with Sproule Associates, Inc., in Houston, Texas, has an e-mail address of sam.singer@sproule.com, and reports, “Prices are better but prospects are smaller. Still working as an engineer and keeping geologists honest.”

Cole E. Singletary (B.S., 1948) is retired and living in Midland, Texas, and can be reached at coyle25@prodigy.net.

David K. Skidmore (B.S., 1976) is the Vice President of Ventex Oil and Gas, Inc., in Dallas, Texas.

Ben Sloan (Ph.D., 1995) is a geologist with ChevronTexaco in

San Ramon, California, and reports, “Having moved out of Texas for the first time since 1987, I am happy to report I’ve become a strict New Age neo-buddhist ovo-lacto vegan environmental wacko. Hook ’em ’Horns!”

Marriott Wieckhoff Smart (B.S., 1957) is retired and living in Centennial, Colorado, and writes, “John and I are still in Colorado. We have been traveling—last year to Canada, this year to Germany. Always glad to be home in the U.S.” Marriott can be reached at marriott@ix.netcom.com.

Tommy T. Smiley (B.S., 1951) is retired and living in San Antonio, Texas, and writes “enjoying life and looking forward to next football season. Hook ’em ’Horns!”

Charles D. Smith (B.S., 1978) is a Senior Geologist and Project Manager for Intera, Inc. in Austin, Texas, and can be reached at csmith@intera.com.

Charles E. Smith (B.S., 1954) lives in Dallas, Texas, and writes, “I am now working as Southwest Representative for Factory Outlet Consultants, Washington, D.C., worldwide.”

Harry L. Smith (B.S., 1951; M.A., 1956) is retired and living in Boerne, Texas, and reports, “My daughter and son got my wife and me involved with computers. So now this household spends a lot of time exploring the many things that can be done with them.” Harry can be reached at yrrah@grtc.com.

J. T. Smith (B.S., 1950; M.A., 1956), formerly of Sun Oil Company, reports “still enjoying retirement in Fredericksburg, Texas” and can be reached at cjtsmith@vtechworld.com.

Paul K. Smith (B.S., 1984) is a yoga and fitness instructor at Lake Austin

Spa Resort in Austin, Texas, and can be reached at bluegeckoyoga@cs.com.

Traci Trauba Smith (B.S., 1985) is the Office Manager for Birdsong Real Estate in Lake Jackson, Texas, and has an e-mail address of trackeye@swbell.net.

Frederick C. Smyth (B.S., 1947) is retired and living in Dallas, Texas.

Deana Sneyd (B.S., 1984) is a Senior Geologist and Associate with Golder Associates, Inc., in Atlanta, Georgia, has an e-mail address of asneyd@golder.com, and writes "still working at Golder Associates part time and raising my daughter Aliyah, who turned 4 on December 31, 2001."

Stephen W. Speer (M.A., 1983) is a General Partner with Genesis Limited Partnership/Speerex Limited Partnership in Roswell, New Mexico, and reports: "Still busy chasing gas and oil in Southeast New Mexico. This industry never ceases to amaze me with its cyclicity, especially with the seemingly shorter duration of the price/demand cycles and the ferocity of its amplitudes. It's gotta be similar to the plight of the animals and plants that chased the Virgilian shoreline around in the Sacramento Mountains: huh? Where'd it go? Anyhow, the Lord has seen to it that I have plenty to do and has graciously given us reasonable success to boot. And despite my share of dry holes, it is still a whole lotta fun hunting elusive hydrocarbon resources; makes me feel like Wez the Pirate!!

Therese and I are both doing great, and the kids are all growing up too rapidly. Our oldest, Sarah, is now a junior at Liberty University in Virginia, Janine is a high school junior here, and Erik follows as an 8th grader. Therese is now finishing her bachelor's degree here and is working part-time as a medical assistant.

After about 20 years here in the mesquite, we are contemplating what it must be like to live in a coastal setting, so we are considering making a move sometime soon, the Lord permitting. Hope all is well with all the rest of the Dirty Dozen; drop a line if you get a chance." Stephen can be reached at speerex@msn.com.

Scott Dunbar Spradlin (B.S., 1974; M.A., 1980) is a geologic associate with ExxonMobil in Nova Scotia, Canada, and reports, "Moved to Halifax, Nova Scotia, this January. Working Eastern Canada Development offshore Newfoundland. People are great, weather is cool and comfortable, and the Screech and Cod tongues aren't bad!" Scott can be reached at spradlin@ns.sympatico.ca.

Theodore E. Stanzel (B.S., 1956) is the President of Victor Stanzel Company and the Stanzel Family Foundation in Schulenburg, Texas, and reports "continuing as wholesaler for Stanzel Model Airplane toys manufacturing by Victor Stanzel Company. The Family Foundation awards scholarships to Schulenburg and Weimar students and is collaborating with Texas A&M School of Rural Public Health to improve the health of the communities of Schulenburg and Weimar." He can be reached at tedstanz@fais.net.

Frederick L. Stead (M.A., 1950) is a part-time consultant in Addison, Texas, and writes "drilling for Cambro-Ordovician natural gas in western New York state at the north end of the Appalachian Basin." He can be reached at flstead@earthlink.net.

Burgess Stengl (B.S., 1985) is a Project Manager with Schaumburg and Polk, Inc., in Tyler, Texas, and writes, "The Stengl family is finally completely settled in Tyler, and we are loving it. The consulting business is treating me

good, with work piling up (of course, there's always room for more). I am with Schaumburg and Polk, Inc., with 14 people in Tyler and around 50 people in Beaumont. It is very interesting to see the TNRCC from the 'other side.' Having worked there 11 years, I now clearly see both sides of the issues. I am definitely learning many new things that I would have never seen while working at the State. I am still working on municipal solid waste projects that are 'old hat' for me (trash is my business!), but I am also working on Federal and State grant projects as well as street projects.

As for the rest of the family, Angela is teaching second grade at Owens Elementary in Tyler ISD and enjoying a smaller school district. Shara has graduated from UT Austin and is following in her mom's footsteps as an elementary school teacher and will be staying in the Austin area. Susan is in 9th grade at White House High School and is gaining many new friends. She just made cheerleader, also. She still gets back to Austin as often as she can, and plans on attending UT Austin in a few years. One more year and she will be driving (ugh!). Kyle keeps me very busy and will be 4 in August. Of course, he loves cars, like me, and enjoys riding in our recently purchased '59 F-100 pickup.

If you're ever in the East Texas area, or need a great consulting firm anywhere in the state, look me up. P.S. The azaleas and dogwood trees are beautiful in the spring!" Burgess can be reached at bstengl@spi-eng.com.

Bill St. John (B.S., 1958; M.A., 1960; Ph.D., 1965) is the owner of New Ventures, L.L.C. in Vanderpool, Texas, has an e-mail address of stjohnbill@cs.com, and reports "preparing report to be titled *Western Indian Ocean—Petroleum Potential of Undiscovered and Unexplored Rift Basins*. Looks like it'll be about 600 pages and include

around 200 maps and illustrations. Wonder if it'll sell?"

Winston L. "Skip" Stokes (B.S., 1957) is retired and living in The Woodlands, Texas, and writes "leaving soon for five weeks in London. Side trip planned for a safari in Kenya and Tanzania. Up to six grandchildren now. Kathryn and I are having a great time in retirement."

John L. Stout (B.A., 1953) is retired and living in Lonetree, Colorado, and can be reached at johnstout@aol.com.

Ted Stout (B.S., 1985) is a Supervisory Park Ranger at Mount Rainier National Park in Ashford, Washington, and writes "going on my 6th year at Mount Rainier National Park. The Nisqually earthquake and a good sized debris flow in 2001 have helped to renew interest in the dynamic geology of this large glacier-covered volcano. I am excited about starting work on a new exhibit focused on geology at the Sunrise Visitor Center." Ted can be reached at stoutrum@mashell.com.

Bert L. Stovall (B.A., 1948) is retired and living in Casper, Wyoming.

Mike Stowbridge (B.S., 1982) is a consulting geologist in Abilene, Texas, and reports "still working with Geosite, Inc., in San Angelo. I'm taking more time between wells to map oil and gas fields and find new prospects. I can't believe it's been 20 years since graduation! Hello back to Charles Brasier!"

Robert E. Stowers, II (B.A., 1986) is an Environmental Compliance Coordinator for the Houston Ship Channel Pipeline Relocation Project in Houston, Texas, and reports, "time keeps moving; kids keep growing; UT Geology keeps improving. The past is the key to the future! Best wishes to all." He can be reached at rstowers@houston.rr.com.



On the banks of South Onion Creek (left to right): Jim Underwood, Steve Clabaugh, Bill Ward, Bill Lindemann, and Les White, 2002. Photo provided by Les White.

John L. Stripling (B.A., 1940) is retired and living in Fort Worth, Texas, and writes, "Marjorie and I are still traveling—mostly to the Austin area and the Gulf Coast. Still enjoy golf two or three times a week. We hope to hear from some old classmates, and wish all you the best."

Bruce Swartz (B.S., 1983) is an independent geologist in San Angelo, Texas, and reports, "I have been in business for 19 years despite myself. Sometimes the oil and gas business drives me insane. My three children are doing well, and my oldest will attend The University in 2004. I have enjoyed reading about our classmates in the *Newsletter*, it is nice to catch up with them. Drop me a note sometime." Bruce can be reached at swartz.oil@verizon.net.

Dick Teel (B.S., 1941) is a Geological Systems Consultant with IHS Energy

in Houston, Texas, has an e-mail address of dickteel@ihsenergy.com, and writes, "life about the same—hunted in South Africa in July 2001, their coldest month, going to Canada in May 2002 for bear."

C. B. "Tim" Thames, Jr. (B.A., 1954; M.A., 1957) is retired and living in Buchanan Dam, Texas, and reports, "Retirement is a good thing, recommended to all. Plenty of time for hobbies, including looking at rocks. Regards to all old friends."

George L. Thomas (M.A., 1960), formerly of the Texas Department of Transportation, Fort Worth District, is retired and living in Boerne, Texas, and writes, "I've been retired since December 1998; Eloise is still working at Methodist Hospital in San Antonio. Two more grandchildren born December 2001 and February 2002 (boy and girl, respectively)." George can be reached at elogeo@gvtc.com.

Sterling Thomas (B.S., 1982) is a veterinarian in The Dalles, Oregon, and reports, "Hi to all in the class of '82. After leaving the Bureau of Economic Geology in 1984, could not find work in the Northwest, so I changed careers. Have been a practicing veterinarian for 12 years. I miss the hot summers." Sterling can be reached at pets@netcnet.net.

Karen Bergeron Thompson (B.S., 1992) is an independent conference planner in Helena, Montana, and can be reached at mtntrio@earthlink.net.

T. J. Thompson (B.S., 1957) is the owner of Toro Exploration Company in Rockwall, Texas, and writes, "enjoyed the brief natural gas boom. Maybe again one of these days? Straight ahead, with best regards."

John M. Thomson (B.S., 1982) is a Senior Exploration Geophysicist with ExxonMobil Indonesia, Inc., and is living in Jakarta. He writes, "In 2001, I returned to Jakarta after 14 years and have settled wife and three boys into a satisfying, though chaotic, lifestyle. Plenty to do and not enough time to do it. Central Java onshore proving to be a very challenging and interesting project area. Around town, many people identify us by the burnt orange Longhorn decal on the back of our SUV." John can be reached at john.thomson@exxonmobil.com.

Guy Tidmore (B.S., 1982) is with the U.S. Environmental Protection Agency, Region 6 in Dallas, Texas, has an e-mail address of tidmore.guy@epa.gov, and writes "more regs than rocks these last several years, but the pay is good and steady."

Joe Tondu (M.A., 1976) is the President of Tondu Corporation in

Houston, Texas, and can be reached at joe@tonducorp.com.

Deborah Travis (M.A., 1988) is an attorney in Corpus Christi, Texas, and writes, "Life is good, **Dan Neuberger** (M.A., 1987) and I are expecting our third child in November, 2002." Deborah can be reached at debdanray@aol.com.

Everette Travis (M.A., 1951) is retired and living in Buchanan Dam, Texas, and says he is "enjoying retirement on Lake Buchanan. Mary Ellen and I are not traveling as far or as fast."

Robert F. "Bob" Travis (B.A., 1957) is retired and living in Corpus Christi, Texas, and writes "no news—still fishing, painting, and traveling." Bob can be reached at bobpegray@aol.com.

Arthur J. "Art" Tschoepe (B.S., 1951) is an independent geologist and oil operator in Leakey, Texas, and says he is "working and enjoying my wonderful family!"

James J. "Jeff" Tucker (B.S., 1948) is retired and living in Jackson, Mississippi.

John D. Tuohy (B.S., 1939) is retired and living in Canyon Lake, Texas, and writes "still doing well and living happily in the Hill Country. Sad to see fewer and fewer names of the Class of '39 in the *Newsletter*. It was a great group, but asi es la vida."

Neil L. Turner (Ph.D., 1970) is a consulting petroleum geologist in Fulshear, Texas, and writes "continuing my work on carbonate fields. Our trip to China last fall was eventful—many remarkable sights and occurrences."

Robert Chan Tysor (B.A., 1952) is an independent geologist in Sugar Land, Texas, and reports "teamed up

with another UT Ex geologist, Bob Owens, trying to get wells drilled in the Texas Gulf Coast area."

Martin Ullrich (B.S., 1974) is a geologist with Caldine Natural Gas in Houston, Texas, has an e-mail address of mullrich@calpine.com, and writes, "Julie and I are still here with two in college this fall. I have one left at home, and she is my last chance to have one of the kids go to Texas. Hello to everyone and best wishes to all. Has it really been almost 30 years??"

Don Urbanec (B.S., 1960) is an independent geologist in San Antonio, Texas, and writes "still trying to put together a few drilling deals and operating a few wells."

Jean-Paul Van Gestel (Ph.D., 2000) is a geophysicist with bp in Houston, Texas, and reports "currently with the Upstream Technology Group. For more information check www.vangestel.com." Jean-Paul can be reached at jeanpaul@vangestel.com.

Joseph W. Versfelt (B.A., 1984) is a Senior Geologist with AEC International (USA) Inc., in Houston, Texas, and reports, "For those who might have kept up or noticed, I offer a condensed recap here: after UT, did M.S. Geology at Duke along with Project PROBE seismic acquisition in East Africa rift lakes, then 10 years at Texaco International, 3½ years at CMS Nomeco, and now I am 1 year on at AEC (Alberta Energy Co. of Canada) working international E & P. I would love to hear from anyone of UT Geology '84 time frame." Joseph can be reached at jversfelt@aec.ca.

Charles D. Vertrees, Jr. (B.S., 1951) is retired and living in Dallas, Texas, and writes, "Retirement is great. Nancy and I play lots of golf. Health is good if you ignore all the aches and pains of

getting old. Both daughters live in the Dallas area with two grandchildren, so we do some babysitting.”

Harry A. Vest (M.A., 1959) is retired and living in Houston, Texas, and reports “Just celebrated my 73rd birthday, who said ‘the good die young’? Still looking forward to those football games and Scholz Biergarten each fall.” He can be reached at harryvest@aol.com.

R. B. “Bob” Vickers (B.S., 1947) is retired and living in Abilene, Texas, has an e-mail address of unicorn@bitstreet.com, and writes, “I unhappily report that Martha, my wife of 57 years, died last August, 2001, due to cancer. Since then I have been trying to get normal and handle details that need to be taken care of.”

Kenneth D. Vogel (M.A., 1985) is a Senior Associate with Leggette, Brashears and Graham, Inc., in St. Paul, Minnesota, and reports, “Environmental consulting is still a challenging field, but not as challenging as having three teenage boys!” He can be reached at kvogel@lbgmn.com.

William Vrana (B.A., 1939) is a former consulting geologist, now retired and living in Corpus Christi, Texas, and writes, “Still attend local Geological Society luncheons. This provides some exposure to the oil patch and my past career. Our local newspaper ceased publishing the *Oil Page*, perhaps to provide space for more commercials.”

Martin James Wachel, Jr. (B.S., 1956) is retired and living in Laird Hill, Texas, and writes that he is “presently serving as Vice President of Leverette’s Chapel ISD. Enjoy the *Newsletter*.”

A. H. Wadsworth, Jr. (B.S., 1941; M.A., 1941) is a consulting geologist in Houston, Texas, has an e-mail address

of glenrose@airmail.net, and writes, “Last August marked my 60th year as a geologist. Where did the years go? Still working and actually sold a deal.”

Tom Waggoner (B.A., 1957) is semi-retired and living in Spicewood, Texas, and reports “love living in the Hill Country—enjoy UT athletics and seeing old friends at the games.”

Frank H. “Trey” Wagner, III (B.S., 1996) is a graduate student in Tucson, Arizona, and reports “got married to Jennifer Miller in January, 2002. Still working on my Ph.D. here at the University of Arizona, passed my orals this semester.” Trey can be reached at fwagner@geo.arizona.edu.

J. Dudgeon Walker, Jr. (B.S., 1951; M.A., 1951) is retired and living in Houston, Texas, and writes, “Shall we say, I and the family made another year! Still basically the same as last year. Still staying as active as possible indoors and outdoors. Wife Shirley, three children, and ten grandchildren. Still trying to record as much contemporary history as possible but population diversity ‘will cast it aside’.”

Mark C. Walker (B.A., 1981) is a shareholder in the law firm of Mounce, Green, and Myers in El Paso, Texas, and can be reached at walker@mgmsg.com.

Bernie Ward (B.A., 1955) is a geologist in Tyler, Texas, and reports, “We took a group trip to the ‘Lands Down Under’ in February. Spectacular beauty, very impressed with the land and people. Trip almost too long, but worth it. Have added two more grandchildren: another boy in Longview and a first girl in Wichita Falls.”

Bill (B.S., 1955; M.A., 1957) and **Kathy** (B.A., 1957) **Ward** report that Kathy is a Curriculum Specialist at

Our Lady of the Lake University, and Bill has retired from the University of New Orleans in New Orleans, Louisiana. They write, “Kathy continues training middle school teachers in earth/space science, helps run a program on science-teacher mentoring, and still conducts GLOBE training. Bill volunteers at Cibolo Nature Center and is active in the Native Plant Society of Texas. Recently he went on a great trip to the Solitario with Muehlberger, Amsbury, Haenggi, and Les White. Also enjoyed the recent riverside lunch on Les White’s ranch with Clabaugh, Underwood, White, and Lindemann.” They can be reached at cwkwaw@aol.com.

Ralph H. Warner (M.A., 1961) is retired and living in Kingwood, Texas, and writes “hanging in with the 21st century as everything continues to change. Best wishes for a prosperous 2002!”

Joel S. Watkins (Ph.D., 1961) is the E.F. Cook Professor of Geoscience at Texas A&M University in College Station, Texas, and reports, “I am retiring from TAMU after 17 years. These Aggies are good people. Billie continues to co-run her bookstore with daughter Christi. We had a great trip last time to Tromso, Norway, and Ireland.” Joel can be reached at joelw@tamu.edu.

John Allen Watson (B.S., 1956) is retired and living in Austin, Texas, and reports, “I’m now a supporter of Mount Blanco Fossil Museum of Crosbyton, Texas (Joe Taylor, Director) in addition to activity with Creation Evidence Museum of Glen Rose, Texas. The past year has been quite eventful for me: diagnosed with Parkinson’s disease in an early stage, so it is treatable. Then apparently as I was lowest in my spirit with the disease, praying increasingly about it all, supported by friends, the Lord could work according to II Corinthians 12:9 in His strength, to make things happen for

His glory. They came as Mount Blanco Fossil Museum staff picked up on my rough draft manuscript *Phosphate Rocks/ Bone Phosphates of South Carolina*, and revised it under the title *Man, Dinosaurs and Mammals Together.*”

John E. Watson (B.A., 1972) is the President of Seabridge Gold Corporation in Evergreen, Colorado, and can be reached at jewats@aol.com.

Joseph Watzlavick (B.S., 1941) is living in Bellaire, Texas, and reports he is “still looking for another discovery.”

Gerald Weber (M.A., 1968), a former lecturer at The University of California, Santa Cruz, is retired and living in Santa Cruz, California, and writes he “retired after 18 ½ years teaching field geology at UCSC. Still consulting (part-time) in engineering geology—expert witness work. Largely working on my painting and drawing skills, helping out in a winery, and trying to float rivers and go scuba diving.” Gerald can be reached at jweber@earthsci.ucsc.edu.

Nelson Webernich (M.A., 1952) is an independent geologist in Midland, Texas.

Bonnie R. Weise (B.S., 1974; M.A., 1979) is a Senior Explorationist for Venus Exploration, Inc. in San Antonio, Texas, and has an e-mail address of bweise@venusexploration.com.

James V. White (M.A., 1995) is a geologist with ExxonMobil and writes “relocated to Jakarta, Indonesia, in May, 2002, to work on Miocene carbonates.”

Leslie P. White (B.S., 1956) is retired and living in Austin, Texas, and writes, “A highlight of the year was a get-together with Steve Clabaugh and some of my classmates in his 1952 mineralogy class. We ate chili on the bank of South Onion Creek, then

strolled along the creek to view a puzzling, pitted surface of a middle Glen Rose bed. We speculated about interference ripples, algal mats, and tadpole nests and, finally, decided not to decide. Geology never ceases to be entertaining, and our Foundation, faculty, and staff seem to never cease achieving remarkable results. Congratulations on a spectacular year.”

Rex H. White, Jr. (B.S., 1956; M.A., 1960) is an attorney and counselor at law in Austin, Texas, and reports, “This has been a banner year for grandchildren. Granddaughters born on October 11, 2001, and December 27, 2001. Brenda and I are getting our share of babysitting in between my busy work schedule. Grandson Rankin is 3, and we will go fossil hunting this summer. High five to Les White and Bill Ward.” Rex can be reached at rex@rexwhite.com.

Steve White (B.S., 1978) is a consulting geologist in Tyler, Texas, and says he is enjoying it.

Fred L. Whitney (B.S., 1943) is retired and living in Kerrville, Texas, and writes “happy to send greetings to old friends and new.”

James C. Whitten (B.S., 1956) is self-employed and says “still an independent geologist in Midland, Texas. I’ve been retired about 10 years.”

Frederick W. Wiegand, Jr. (B.S., 1969) is a consultant in Lockhart, Texas, and reports “worked in Yemen during January 2002. Visited the outcrops of the Safter salt mines about 100 miles east of Mareb. Spectacular structural geology in the mountains.” He has an e-mail address of fredwiegand@lockhart.net.

Warren James Wiemann (B.A., 1998; B.S., 1998) is the Vice President

of Engineered Semiconductor Products, Inc., and has an e-mail address of jwiemann@espspares.com.

Michael A. Wiley (B.S., 1957; M.A., 1963; Ph.D., 1970) is a consultant in Canyon Lake, Texas, has an e-mail address of mawiley@att.global.net, and writes “enjoying semi-retirement at Canyon Lake. Staying busy with community and AAPG activities. Still working on graphical data management software for oil patch and environmental remediation.”

Richard A. Wiley (B.S., 1942) is a retired geologist, living in Lafayette, Louisiana, and reports “enjoying retirement after 40 years employment (also enjoyed) with Amerada Hess Corp.”

Addison A. Wilkinson (B.S., 1956) is retired and living in Lafayette, Louisiana, has an e-mail address of baawol@aol.com, and writes, “I enjoy the *Newsletter* and hearing about the current activities and old classmates.” Mr. Wilkinson is a member of the Geology Foundation Advisory Council.

James Richard Williams (B.S., 1950), formerly of Chevron, is retired and living in Bullard, Texas, and tells us “Thanks for the *Newsletter*. Quitau and I are still going strong at our activities and doing fine, and our kids and grand-kids are okay. I am an octogenarian now. Still in Emerald Bay on Lake Palestine. Been here 20 years.”

James C. Willrodt (B.S., 1977) works for ExxonMobil in Houston, Texas, and writes, “Well, I’m still a driller. I finished in the Sahara Desert of Algeria and now moved in to deepwater operations off of Angola. Karen, Erika, Alec, and I are still in Houston and keeping up with all the busy happenings here. Best wishes to all.” He can be reached at james.c.willrodt@exxonmobil.com.

John Willrodt (B.S., 1982) is a Director of Retail Compliance with Valero Energy Corporation in San Antonio, Texas, and writes “was ‘upstream’ until the mid-80’s, got to do some neat stuff; since then have settled ‘way downstream’ and am enjoying it! A lot is happening in refining and marketing these days! ‘Hello’ to everyone from Mary and me!”

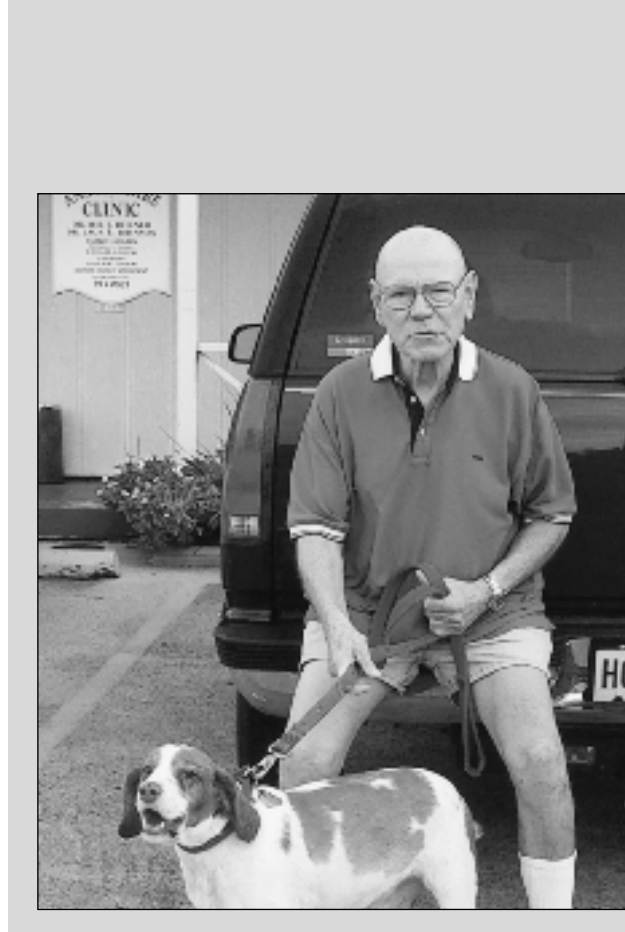
Doug Wilson (B.S., 1980) is an Exploration Supervisor for Anadarko Petroleum Corporation in Houston, Texas, has an e-mail address of doug@houston.rr.com, and writes, “I’m still exploring the deepwater Gulf of Mexico and enjoying every challenging minute.”

James Lee Wilson (B.A., 1942; M.A., 1944) is living in New Braunfels, Texas, has an e-mail address of mrgrey@nbt.com, and writes “still working stratigraphy and regional geology in Mexico. I received the Sidney Powers Award this year from AAPG.”

Jennifer Wilson (B.S., 1995; M.S., 2001) is a hydrologist with the U.S. Geological Survey in Austin, Texas, and reports “I FINALLY finished my Master’s and got hired on at the USGS. Our sediment coring team did fieldwork in Alaska and Canada during August and September. What a trip!” Jennifer can be reached at jenwilso@usgs.gov.

Irwin T. Winter (B.S., 1953) is retired and living in Fort Worth, Texas, has an e-mail address of itwinter@waymark.net, and says, “Remember the names Bullard, Bybee, Clabaugh, DeFord, Folk, Whitney, Yager, and Ellison? Well, I do—do you?”

Brad D. Wolaver (B.S., 1995) is an Associate Hydrogeologist with Montgomery Watson Harza in Pasadena, California. He writes, “Los Angeles is



John B. Wright and his dog, Bear. Photo provided by John Wright.

big, but in terms of culture, outstanding restaurants, and entertainment—I have enjoyed myself. The San Gabriel Mountains (formed as a result of a bend in the San Andreas fault) are Pasadena’s backyard, and I’ve really taken advantage of the excellent mountain biking opportunities here. However, my family still lives in Austin and I’m happy every time I get a chance to return. If you are in the Los Angeles area, look me up in Pasadena!” Brad can be reached at brad_wolaver@yahoo.com.

Amy Wood (B.S., 1985) is taking an extended leave from her programming career to be at home with her baby in Austin, Texas, and announced the birth of her son, Ian Wood Shaw, on May 1, 2001. She can be reached at amywood@alumni.utexas.net.

Robert L. Wood, Jr. (B.A., 1956) is retired and living in Houston, Texas.

Arnold Woods (M.A., 1981) is a consulting geologist in Casper, Wyoming, and reports, “International consulting and local paleontological projects keep me busy. Helping out a bit this summer at Bob Bakker’s Como Fluff digs. Anybody coming through Casper should stop at the Tate Museum—lots to see.” Arnold can be reached at Arnold@touchtronics.net.

Leroy A. Woollett (M.A., 1951) is retired and living in Houston, Texas, and can be reached at lwoollett@aol.com.

David A. Worthington (B.A., 1986) is the president and CEO of EGA Consultants in Costa Mesa, California, and writes, “Greetings, my erstwhile classmates, professors, and other Texas hooligans! I’m still enjoying social life on the rock pile, consulting, racing bicycles, and loving my darling wife, Kimberly. Big news: Shiner Bock now available here. Chuy’s pending? Will



Photo from 1979 UT field trip to Chihuahua, Mexico, led by Fred McDowell. Pictured left to right: Emil Bramson, Mary (last name unknown), Peter Megaw, David Ward, Jim Stimac, and Tucker Barrie. Photo provided by Peter Megaw.

always savor the Texas flavor.” David can be reached at worthy1@aol.com.

John B. Wright (M.A., 1956) is a retired geologist in New Orleans, Louisiana, and can be reached at 3661 Mimosa Court, New Orleans, Louisiana, 70131; (504) 394-2237.

Michael Wright (B.S., 1985) is the Western Region Manager for Vertex Engineering in Rohnert Park, California, and writes he “opened a new office in Sonoma County, California, 40 miles north of the Golden Gate Bridge and San Francisco. Vertex Engineering is a TetraTech company. We are searching for geoscientists and engineers to join us in environmental geotechnical and construction management consulting business.” Michael can be reached at mwright@vertexeng.com.

Steve Wright (M.A., 1980) is a Development Geologist with Chevron USA Product Corporation in Anchorage, Alaska, and reports, “Alaska geology is as fascinating and challenging as ever! Natural gas development will lead the next Alaska boom... only question is when! Let’s all push to make it sooner rather than later.” He can be reached at sswr@chevrontexaco.com.

Phil Wyche (B.S., 1951) is retired and living in Austin, Texas. Phil is a member of the Geology Foundation Advisory Council.

Bob Wynne (B.S., 1957) is an independent petroleum geologist in Fort Worth, Texas, and reports “not active in business but still enjoying a rather sedentary life. Family all doing great.”

John C. Yeager (M.A., 1960) is still active as an independent geologist in Lafayette, Louisiana, and has an e-mail address of yeagers@globalreach.net.

Francis Scott Zimmer (B.S., 1986) is a Senior Public Health Sanitarian with the Oneida County Health Department in Vernon, New York, and writes, “Hi geobuddies—a very productive year for Melanie and me. Melanie’s ‘Dancing Bear Puppet Theatre’ is taking off. She is doing puppetry and storytelling at schools and on the road. I am enjoying my position at the Health Department (always something new). This year expecting a drought (yes, even in New York). House gets paid off this year (yeah!) Hope everyone is doing well. Feel free to drop a line.” Francis can be reached at fsz@dreamscape.com.

We always need and appreciate your help—

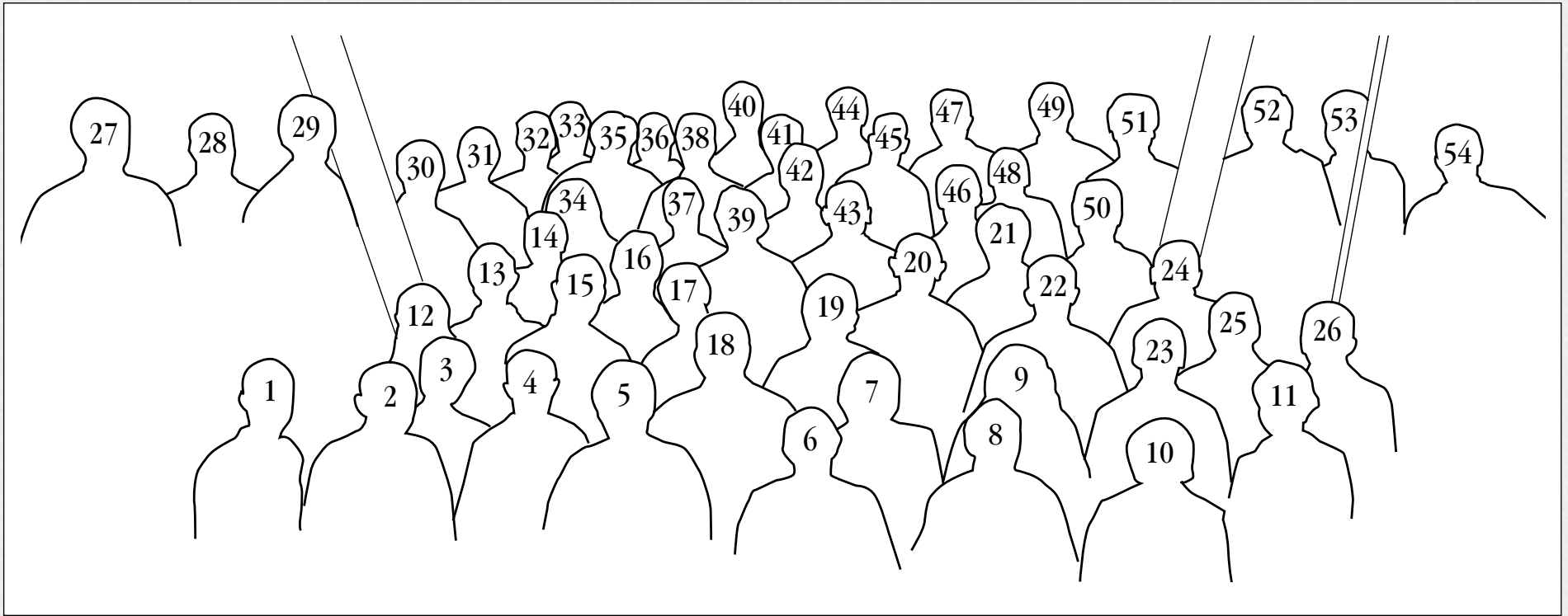
We are launching a major new enterprise in the geosciences at UT Austin, the largest in the country, one we aim to be the very best, and one in which we can all take pride. Jack Jackson's marvelous bequest will bring us to unprecedented heights. We very much want all our Exes and friends to be a part of the great enterprise. Your continued gifts along with your support in counsel and identification are as vital as ever to our efforts. We have the chance to make the new Jackson School truly unique. This past year the Geology Foundation received gifts from over 300 friends and Exes and from nearly 60 corporations and groups. We appreciate each and every gift and pledge to make the most of your support in ever enhancing the geologic training, research, and public service that goes on here.

This year, we had responses from more than 400 Exes for the Alumni Notes. We are thankful for these, but we would like to have more, for this section of the Newsletter is the most important and the most read. We strive to keep your current address on our mailing list and ask your cooperation in advising us if you move. If you know of other alumni who do not receive our letters, please send us their names and addresses.

Contributions to the Geology Foundation may be made in the form of cash, 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 me 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/>. We appreciate your support.

Bill Fisher, Director



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Austin American-Statesman

Editorials

A heart as big as Texas

The \$150 million bequest that retired Dallas oil man John A. Jackson has made to the University of Texas at Austin set a new benchmark for generosity to the university, not only surpassing the not-very-old school record of \$53.2 million set by Red



John A. Jackson

and Charline McCombs of San Antonio but making him the largest donor in a single public university campus in U.S. history.

A 1940 UT graduate, Jackson could not make it to Austin recently for a celebration that included a tribute to his decision to leave his estate, estimated by his representatives to be worth \$150 million, to the university. We'd like to add to the pile of thanks to Jackson for his wonderful gift.

We hope such generosity from Jackson and others, who in the university's "We're Texas" campaign have given or pledged \$1.135 billion, will not prompt a financially pressed Legislature to cut back even more on state support for an institution that has contributed so much to the state's wealth. The heartfelt generosity of a donor should not be used by lawmakers as a substitute for appropriations.

Jackson, 88, is a widower; his wife of 60

years, Katherine Jackson, died last year, and the couple had no children.

He was "very, very adamant about the fact that his intention at this point in his life is to leave something to the citizens of Texas and to this place that has meant so much to him," said Johnnie Ray, UT vice president for resource development.

The beneficiary of Jackson's gift will be the John A. and Katherine G. Jackson School of Geosciences at UT-Austin, which includes the Department of Geological Sciences and two research facilities, the Institute for Geophysics and the Bureau of Economic Geology. The money will pay for fellowships, scholarships and research, rather than construction.

But construction has not been overlooked: the Jacksons earlier had given the school \$15 million for a 60,000-square-foot building addition and renovation. And they had previously given UT a \$25 million endowment, prompting the university to name the school of geosciences after them.

Jackson's bequest really goes beyond generous. It was like Texas itself: an oversized, can-you-top-this grand gesture that, ultimately, is an expression of deep love for an institution and a state that reward — and are rewarded by — big doers.