



Advancing Excellence

UPDATE FROM THE DEVELOPMENT & ALUMNI OFFICE

NO. 16 | SPRING 2018

A Living Classroom, Pg. 2



The University of Texas at Austin
Jackson School of Geosciences

DEAR JACKSON SCHOOL FRIENDS,



It's been a great year highlighted by our No. 1 ranking in Geology by the *U.S. News and World Report* 2019 edition of Best Graduate Schools.

Each and every one of us should be proud of being named top in the nation. I would like to personally thank you for the success we are achieving at the school because none of it would be possible without your continuing support.

This edition of *Advancing Excellence* brings that point home.

Throughout these pages, you will see great examples of the transformative power of your gifts. The story on page 2 about Les and Dianne White's wonderful donation to the Jackson School is a perfect illustration. The Whites' generosity will pay dividends for generations of geoscientists, both in research and education. It will help transform young lives in ways we can only imagine.

As shown on page 10, a record number of our friends and alumni created endowments over the last year to help

fund scholarships, student fieldwork, an endowed chair in structural geology and more. I am honored and humbled by this type of generosity, but I also know that you view it as an investment in the future. I couldn't agree more.

These types of investments are the lifeblood of the Jackson School as we strive to tackle the big issues that matter to Texas and the world. These are issues like finding and managing sustainable energy and water resources, and predicting and responding to natural disasters (see the story on our Rapid Response program on page 8).

With your ongoing support, we will continue the type of research that will help solve these issues and educate the next generation of geosciences leaders.

Thank you again, and have a great summer!

A handwritten signature in black ink that reads "Sharon Mosher".

Sharon Mosher, Dean

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ON THE COVER An oak tree on Les and Dianne White's ranch that they donated to the Jackson School of Geosciences.



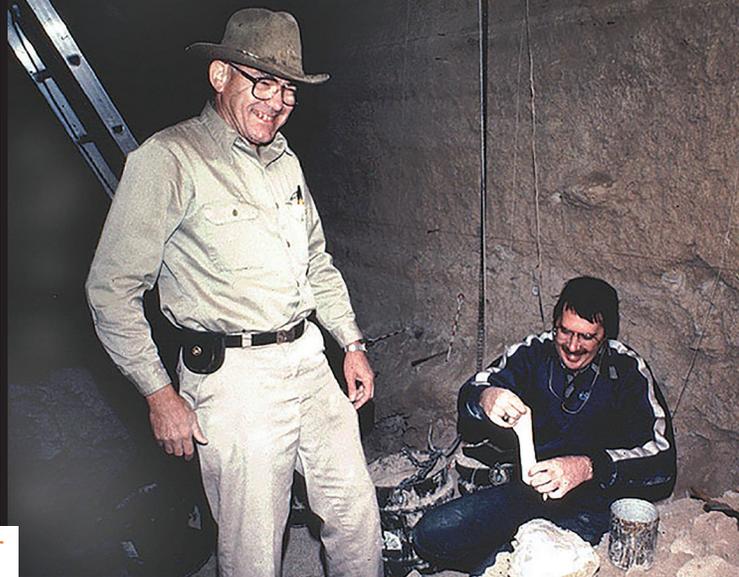
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THE IMPORTANCE OF BEING ERNEST

Celebrating 90 Years

December 2, 2017, marked the 90th birthday of Ernest (Ernie) Lundelius, Professor Emeritus in the Department of Geological Sciences. In honor of this occasion, 93 of Ernie's friends, family and colleagues gathered in Austin for a surprise brunch. Nine of his 24 former students were able to attend. Ernie was kept completely in the dark about the event until he walked into the room to a loud chorus of the "Happy Birthday" song. He was then treated (subjected?) to a running commentary in open-mic format as attendees reflected on Ernie's career, his influence on them as individuals and on science generally, and his talents as a teacher, mentor and supervisor.

Ernie is a native of Austin and started his affiliation with The University of Texas at Austin in 1945 as an undergraduate in geology. He took a short break when he was drafted into the U.S. Army, which provided him with an all-expense paid tour of the Philippines. Ernie returned to Austin in 1947 to continue his education. He graduated from UT Austin in 1950 and

moved to the University of Chicago to do his Ph.D. with E. C. Olson. He and Judy met and married in Chicago and travelled together in 1954-55 on a Fulbright Scholarship to Australia, where Ernie helped to expand the study of vertebrate paleontology and established himself as a leading figure in Quaternary paleontology.

After a brief interlude at California Institute of Technology in 1956-1957, he returned to Austin and joined the faculty in the Department of Geology. He was promoted to associate professor in 1963, and professor in 1969. In 1978, he was named as the John A. Wilson Professor in Vertebrate Paleontology, a title he held until his retirement in 1998.

Ernie remained engaged in academic and administrative roles in the department throughout his tenure here, and served as director of the Vertebrate Paleontology Laboratory and the Radiocarbon Laboratory from 1986 to 1998. In addition, he served as president of the Texas Academy of Sciences in 1975, as president of the Austin

Geological Society in 2006-2007, and he held every possible elected office in the Society of Vertebrate Paleontology, serving as president in 1981. He was elected to Honorary Membership in the SVP in 2001.

Ernie's work in Australia included extensive field work in fossiliferous cave deposits, especially in Western Australia. His early recognition of the paleontological significance of cave deposits led to a fruitful career investigating cave biotas across much of the Edwards Plateau in Texas. That research led him to explore the complex relationships between climate change and faunal dynamics, and he played a leading role in shaping debates and discussions about causal mechanisms for the extinction event at the end of the Pleistocene. Ernie's reputation as a leading Quaternary scientist was firmly established early in his career, and never waned. In 2014, he was honored with the American Quaternary Association Distinguished Career Award.

It is difficult to know what to give as a birthday present to such a person. Realizing that we are unable to provide him with new knees, a group of faculty, staff and research associates at the Vertebrate Paleontology Laboratory decided on the next best thing: a joint gift in his honor to support the Vertebrate Paleontology program at UT Austin that Ernie has worked so hard to build and maintain. We welcome anyone who would like to join us in the gift to send contributions in support of the Vertebrate Paleontology Laboratory. Those gifts will help to ensure Ernie's continuing influence and legacy for many generations to come!

—Christopher J. Bell, Professor and Associate Dean for Academic Affairs
and Matthew A. Brown, Director of Museum Operations for VPL

Left: Ernest Lundelius at work. JACKSON SCHOOL OF GEOSCIENCES; Right: Ernest Lundelius enjoys a moment while helping collect mammoth bones near Langtry, Texas. HERB ELING; Below Judy and Ernie Lundelius enjoy a light-hearted moment with Professors Julia Clarke and Rowan Martindale at the surprise brunch on December 2. JACKSON SCHOOL OF GEOSCIENCES.





“I HAVE NO DOUBT THIS PRETTY PIECE OF LAND WILL YIELD A RICH HARVEST OF LEARNING FOR THE STUDENTS AND FACULTY OF THE JACKSON SCHOOL. THE REWARD FOR ME AND MY FAMILY IS BEING PART OF SOMETHING AS GREAT AS THE JACKSON SCHOOL AND HELPING THEM BE EVEN GREATER.”

—LES WHITE

A LIVING CLASSROOM

Generations of Geoscientists will Benefit From Les and Dianne White's Epic Donation

As Les White walks the 266 acres of his beautiful Hill Country ranch, he's every bit the geologist. He knows every rock, every stream, every outcrop, and he carries a white board to help him map out the features and explain them to guests. He's even had a creek on the ranch named Cardium Creek by the USGS, after the fossil mollusks that abound on the property.

White loves the ranch and the opportunity it offers him to spend time outside sharing its natural splendor, and maybe a few geology lessons, with friends and family. But he loves his alma mater even more. That's why Les and his wife Dianne have gifted the ranch to The University of Texas at Austin Jackson School of Geosciences through the University of Texas Foundation to act as a living classroom for future generations of geoscientists to learn their craft.

“Geologists need to be outside,” said White, who graduated from UT with a degree in geology in 1956.

The property—roughly an hour's ride southwest of campus outside Dripping Springs—is a game changer for the Jackson School, particularly for hydrogeology research and education. The school's mission involves tackling the big, hard issues facing

Texas and the world. These are issues like how to manage scarce water resources in the face of a booming population or, conversely, how to determine when heavy rains will turn into dangerous floods.

Conducting the type of science that provides the knowledge and understanding of ecological and hydrological processes necessary to tackle these issues requires long-term access to key research sites. Educating students to understand these challenges and someday take leadership roles to overcome them is something that really can't be taught in the classroom.

“Field work is foundational for geosciences education at every level,” said Jackson School Dean Sharon Mosher. “I can't stress how important Les and Dianne's donation is to the school and the opportunities it affords us to educate young geoscientists. Their foresight and generosity will pay dividends for Texas and beyond for generations to come.”

White was at the ranch in May when students had their first look at the property, as Jackson School professors incorporated a visit into the annual hydrology field camp. “It just thrills me to see these young people out here,” he said.

White passed when given the chance to offer any pearls of wisdom, telling the group that he was “skeptical about the correlation between gray hair and wisdom.” But he did relay wisdom that had been imparted to him as a student; “question all things, do your own thinking.” And he asked them to be sure to save back a little money from their pay checks to give back to the university, particularly to a Jackson School endowment he's started with matching funds from Exxon. The endowment will pay for the property's upkeep and eventually pay for a few educational facilities. He had advice for how to do so, even on a potentially meager early career paycheck.

“When you eat out, don't buy the \$2.50 soda or sweet tea,” he said. “Drink water. After all, you are hydrologists.”

Students were thrilled with their first trip to the property and said that White was inspiring. Master's student Lakin Beal, who did her undergraduate work at Idaho State University, said she was surprised by how beautiful the property was, having envisioned Texas as flat and barren. Lakin's research focuses on urban waterways, specifically Austin's Waller Creek, but she said that the opportunity to visit White's



To make a gift to the Les and Dianne White Family Outdoor Learning Center Endowment, contact Jackson School Executive Director of Development Belle German at **512-471-1993** or **bgerman@jsg.utexas.edu**.

Opposite page: Les White explaining the hydrology of one of the ponds he built on the property. This page from top left clockwise: Les with Jackson School Associate Dean for Research David Mohrig; Les and Dianne White; Les speaking to the hydrology field camp.

ranch gave her a perspective that will help her research.

“It was great to span out to the Onion Creek watershed and see what a natural environment in Texas looks like,” she said. “To see what a functional Texas watershed looks like is a view of how we’ve changed these watersheds so much with urban development. The property is just beautiful, and I’m grateful that we were able to spend the day out there and pick his brain on his knowledge of hydrology and what the property has to offer.”

The property contains rolling meadows, wooded hillsides and a 1920s-era windmill. The ranch is transected by South Onion Creek and many smaller waterways, and White has documented over 140 different species of plants on the land.

“It’s absolutely a dream come true in terms of being a hydrologist or an ecohydrologist in particular,” said Assistant Professor Ashley Matheny, who helped lead the field camp. “There are many different avenues for research that we can pursue. Not just the typical hydrology research you think of in terms of stream gauging, well pumping and aquifer testing, but also in terms of understanding how the landscape interacts with hydrology.”

White, who spent a career with

Humble Oil and Exxon, began buying the property that would make up the ranch in 1995 and has enjoyed it with family and friends throughout the years. Among his many fond memories is hosting the 92nd birthday party of one of his former UT geology professors, the legendary geologist Stephen Clabaugh. It’s a story he likes to share, as he did with the students, because it shows the lifelong connection he made as a student to a teacher who influenced his life both academically and as a role model.

“The school for me became like extended family,” he said. “I’ll bet you will find that for yourself too.”

White clearly remembers his journey to the Forty Acres more than half a century ago, from hitching a ride from his home town of Waco to his first nervous days looking for a job that would allow him to pursue his studies. He fondly talks about his time as a student as one of “luxurious poverty”—full of rich learning and life experiences, despite not always being sure of how to scrounge next month’s rent.

Ironically, White wasn’t in love with geology when he came to campus. He was young, bright and hardworking and pursued geology because it offered him a good chance of a productive career. But

he developed a lifelong love of the science along the way and said he jumped at the chance to help others do the same.

“I have no doubt this pretty piece of land will yield a rich harvest of learning for the students and faculty of the Jackson School,” White said. “The reward for me and my family is being part of something as great as the Jackson School and helping them be even greater.”

The ultimate plan for the property is still being developed and will likely change over time with research and educational needs. Jackson School Associate Dean for Research David Mohrig said the property can play a big role in the school’s emerging plans to establish a Texas Observatory that focuses on the science and human impacts of water, weather, surface processes, energy resources, tectonics and geochemistry in the state of Texas. But as an educator, Mohrig said he knows the donation will pay dividends far beyond what can be scripted out in an educational or research plan.

“Just having a place like this and getting students out here can change a whole generation’s idea of what the environment is,” he said.

—Anton Caputo,
Jackson School Communications Director



Students Esben Pedersen (left) and Sam Robbins (right) took pies in the face from Department Chair Charlie Kerans at UT's first GeoCarnival.

Undergrad Riley Monk shows her appreciation for financial support that covered the cost of field camp on Thanks Day fall 2017.

The JSG Alumni and Friends Networking Receptions are a great place to catch up with other professionals. From left to right: Nicole Hart (M.S. '15), Katie Fry (M.S. '15), Jess Hudock Prather (M.S. '13), and Barbara Tillotson (M.S. '03) at AAPG ACE.

ConocoPhillips geologist Mel Bechberger with early career graduate student Kelly Olsen at the Student Research Symposium.

Ph.D. candidate Yaser Alzayer (left) presents his research to JSG alumnus Ross Moczygamba (B.S. '79) at the Annual Jackson School of Geosciences Student Research Symposium sponsored by ConocoPhillips.





Ted Cross (B.S. '11) and Yomi Olufowoshe (B.A. '12) enjoyed visiting with other alumni and JSG student interns at a networking happy hour in Houston.

Dr. Bill Fisher (center in burnt orange hat), a legend in the field, leads the annual sequence stratigraphy trip to the Guadalupe Mountains in April 2018.

Undergraduate student Raeann Garcia shows her Jackson School pride at UT's first GeoCarnival.



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GIVING SOCIETIES WELCOME NEW MEMBERS

The Generosity of the Jackson School's Alumni and Friends Fuels our World-Class Research and Education

The Jackson School of Geosciences encompasses the breadth of the geosciences at the highest possible levels. Through the generosity of our alumni and friends, we have been empowered to think big. We honor these amazing philanthropists annually at the Evening of Thanks when we welcome new members to the school's giving societies. These faithful donors help build upon the legacy left by Jack and Katie Jackson to push boundaries—from the core to the cosmos.

In 2018, fifteen new members were welcomed into the Hill Society, honoring those who have contributed a total of \$10,000 or more over the years. Those new members are: Steve Crews, Lorraine Clasquin and Eric Harslem, Michael Fox, Janet Harman and Kent Mayes, Lisa Helper, Ann and John Howard, Jillian Jopling and Peter McGillivray, Suzie and Robert Kent, Dianne Kline, Susan and Ken Longacre, Deb and Ron Pfeiffer, Ed Picou, Adrienne and Les Ruthven, Floyd Sabins, and Pam and Rom Welborn.

Five new members joined the Barrow Founders Circle, distinguishing those who have given cumulative gifts of \$100,000. Among those honored were friends who have been longtime supporters through annual gifts, those who have established endowments and those who have included the school in their estate plans: Heather and John Echols, Terry and Elliott Pew,



Mark Cloos, Earle McBride, the late Bob Folk and Bill Carlson greet Lynton Land as a new member of the Hill of Distinction, with Dean Sharon Mosher. JACKSON SCHOOL OF GEOSCIENCES.

Nancy and David Pustka, Cambria and Brian Reinsborough, and Wendy Weiss and Robert Mace.

The Flawn Circle of Excellence recognizes those who have given cumulative gifts of \$1,000,000 or more to the Jackson School. This is a small and elite group which welcomed Les and Dianne White as new members.

Every gift matters and changes the lives of our students.

Right: Susan (B.S. '64, Ph.D. '68) and Ken (B.A. '63, B.L. '67) Longacre are welcomed into the Hill Society. JACKSON SCHOOL OF GEOSCIENCES.



JACKSON SCHOOL NATION'S TOP GEOLOGY PROGRAM

U.S. NEWS AND WORLD REPORT'S 2019 EDITION OF BEST GRADUATE SCHOOLS FINDS THE JACKSON SCHOOL'S PROGRAMS AMONG BEST IN THE NATION

LEARN MORE AT WWW.JSG.UTEXAS.EDU/NEWS

#1 GEOLOGY

#7 EARTH SCIENCES

#7 GEOPHYSICS AND SEISMOLOGY

ALVA ELLISOR AND LYNTON LAND JOIN ELITE GROUP OF GEOSCIENTISTS

The Jackson School honors a pioneering petroleum geologist and a distinguished academic scientist.

Alva Ellisor and Lynton Land were welcomed into the Jackson School's Hall of Distinction at the annual Evening of Thanks on April 12, 2018. Membership is reserved for individuals who have made exceptional contributions to the field of geosciences, in industry, government or academia, and have a strong connection to the Jackson School.



ALVA ELLISOR

Alva Ellisor was a pioneer in the petroleum industry who made *the* major technical breakthrough in 1921 when she discovered and proved that foraminiferal micropaleontology could be reliably used to correlate geological units in the Texas Gulf Coast. Her work and collaboration with two other female paleontologists, Esther Applin and Hedwig Kniker, led to the discovery of valuable new oil fields, created oil industry jobs for 300 micropaleontologists and gave rise to micropaleontology courses in 31 geology departments. By 1931, 75 percent of all oil wells drilled and completed in the country were using micropaleontology. This new technology had a profound impact. Prior to that, there was no reliable way to correlate strata other than fragments of macrofossils found in cuttings—the dogma of the day was that one-celled animals could not provide the diversity and rapid change through time to be effective.

Alva is a University of Texas alumna. She graduated with high honors in 1915 and taught at UT afterwards for two years. She started working for Humble Oil in 1920 when Walter Pratt hired her for its paleontological laboratory to examine megascopic fossils, and her discovery revolutionized the industry. In 1927, she became Humble's first research stratigrapher and paleontologist, and worked there until her retirement in 1947. She became a Fellow of the Geological Society of America in 1929, and in 1962 received the Distinguished Alumni Award from the Geology Department of The University of Texas at Austin. She is a founding member of the Houston Geological Society. After a life devoted to stratigraphic research and marked by numerous publications on most phases of Cretaceous and Tertiary stratigraphy and paleontology of the American Gulf Coast, she passed away in 1964 at the age of 72. Alva's nephew, Rik Ellisor, accepted the honor on her behalf and read a note from his sister, Regina Thomas, who was unable to attend.



LYNTON LAND

Lynton Land is a distinguished scientist who spent his entire academic career at the University of Texas Department of Geological Sciences, bringing worldwide recognition to our program in sedimentary geology and geochemistry. Lynton made major contributions to the study of diagenesis of sedimentary rocks, especially burial diagenesis in the Gulf of Mexico sedimentary basin. This research had important implications for petroleum reservoirs, and his work was funded and closely followed by major oil companies. He was also the principal investigator of numerous National Science Foundation grants throughout his career. Lynton's work has been cited 5,374 times, and, as of 1996, Lynton had supervised 19 M.A. and 21 Ph.D. students, including two future presidents of the Society for Sedimentary Geology (SEPM) (Kitty Milliken and Dave Budd). He was an excellent teacher and won the Knebel Teaching Award in 1979. He worked closely with his colleagues (and Hall of Distinction members) Robert L. Folk and Earle F. McBride, making the department *the* place to study sedimentary petrology and geochemistry.

In 1996, Lynton received the SEPM Pettijohn Medal in recognition of his continued contributions to carbonate sedimentology and geochemistry, diagenesis of siliciclastics, and origin of dolomite and saline formation waters; his inspiring teaching skills, and his international stature and leadership in sedimentary geology. Lynton is now a professor emeritus in the Department of Geological Sciences. In retirement, Lynton uses his scientific expertise to help society. As he states on his Jackson School web page, "Since retiring to Northumberland County in tidewater Virginia, I have tried to use my scientific knowledge to educate citizens and local and state government officials about critical [environmental] issues for the future." Lynton attended the event and was surrounded by former colleagues and friends as he accepted this honor.

The Jackson School's Hall of Distinction was founded in 1980 and currently has 38 members, including this year's new inductees. To see a full listing of honorees, visit www.jsge.utexas.edu and type Hall of Distinction in the search field.

Left: Robbie Gries (M.A. '70) and Rik Ellisor share the stage as Alva Ellisor is recognized as a member of the Hall of Distinction; Right: Lynton Land is inducted into the Hall of Distinction. JACKSON SCHOOL OF GEOSCIENCES.

GEOSCIENCES AT THE CENTER OF THE STORM

The Jackson School Rapid Response Program Rushed Scientists to the Texas Coast Shortly after Hurricane Harvey Hit

Hurricane Harvey devastated Texas communities when it tore through the state in August 2017. The deadly storm claimed dozens of lives, caused billions of dollars in damage and displaced thousands.

Much of the damage was obvious. But some was more subtle and easier to overlook. These storms eroded beach dunes, scraped sand from the barrier islands, and scoured and altered the seafloor.

It is easy to understand most people not paying attention to this type of damage in the face of human suffering, but geoscientists know that understanding how a storm affects coastal systems is vitally important. These systems are the first line of defense for coastal communities and industries when a storm hits and act as home to numerous species of fish and wildlife. Knowing how these systems are changed and damaged can offer vital information for how to rebuild or prepare for future storms.

That's why when Hurricane Harvey was making its way to the Texas coast, scientists at the University of Texas Jackson School of Geosciences were already preparing to launch research missions and gather important data. Time was of the essence, as evidence of the damage caused by the hurricane would quickly start to disappear.

The Jackson School Rapid Response Program was ready to act. The program was

created to place geoscientists on the scenes of natural disasters as quickly as possible to measure the often vanishing traces of hurricanes, earthquakes, tsunamis and other disasters.

Jeff Paine led the charge. Paine, a researcher at the Jackson School's Bureau of Economic Geology and coordinator of its Near Surface Observatory (NSO), had been watching the storm since it was just a tropical wave in the Caribbean. When it rapidly gained strength as it approached the Texas coast—going from a Category 1 hurricane to a Category 4 in less than 24 hours—Paine began discussions with colleagues at the General Land Office (GLO), the state agency that manages coastal lands and is a long-time supporter of coastal studies at the bureau. By the following Thursday, researchers from the NSO were surveying the aftermath from the air.

Supported with funds from the GLO and the Rapid Response Program, he and a team of scientists from the bureau's NSO research group captured changes from the air using high-resolution photography and LIDAR, an imaging technique that measures landscape elevation. From early September through October, they surveyed the entirety of the Texas Gulf shoreline—flying from South Padre Island near the mouth of the Rio Grande River to Sabine Pass along the Louisiana border. The bureau's GLO-supported

research focused on quickly getting images of the beach and dune system, shipping channels, bays and bird rookeries back to the state so workers could assess damage in these important areas and begin cleanup and recovery efforts.

"Collecting data early doesn't help if you can't get it out to anybody for them to use," Paine said.

The crews flew daily missions and incorporated the data into an online map in almost-realtime so emergency responders could look for hazards or damaged infrastructure.

Paine and his group weren't the only ones from the Jackson School to take to the coast. He was part of one of three research teams—one from each of the school's research units—to conduct fieldwork in the aftermath of the storm.

The other missions gathered on-site data about sand and sediment—the primary ingredients that build the barrier island system. John Goff, a senior research scientist at the University of Texas Institute for Geophysics (UTIG), went to the coast in September to collect information on seafloor sediments in Lydia Ann Channel and Aransas Pass during a four-day seismic survey. And in October, David Mohrig, associate dean for research and a professor in the Department of Geological Sciences, studied the seashore of Matagorda Peninsula and Sargent Beach during a three-day



Students takes notes on the sediment layers deposited on a beach over time, including sediments deposited by Hurricane Harvey. They revealed the layers by digging a trench. From left to right: Undergraduates Matthew Nix and Arisa Ruangsirikulchai, and Mitchell Pham and graduate student Kat Wilson. JACKSON SCHOOL OF GEOSCIENCES.



UTIG Research Scientist Associate Marcy Davis prepares to anchor the research vessel after a day of surveying; UTIG Graduate Research Assistant John Swartz (right) and Research Scientist Associate Dan Duncan pull up sediment samples. JACKSON SCHOOL OF GEOSCIENCES.

mission that included Jackson School undergraduates Arisa Ruangsirikulchai, Matthew Nix and Mitchell Pham, as well as Ph.D. students Kathleen Wilson, John Swartz and Benjamin Cardenas, and postdoctoral researcher Eric Prokocki.

“All barrier islands are made of sediment — sand, silt and clay,” said Swartz, who took part in both Goff’s and Mohrig’s missions.

The islands offer vital protection for communities, industries and natural habitat along the coast, Swartz added, which makes understanding how they were impacted by storms critically important.

Months after the storm, researchers have made some important initial discoveries. Among them:

Mohrig’s group has found hard evidence to support a theory that coastlines hit by hurricanes are more susceptible to erosion by future storms. The idea, called unzipping, makes sense conceptually, but until the research from Mohrig’s group, there was no evidence to document just how much more easily a coastline is eroded after an initial

hurricane strike.

The UTIG group led by Goff, using data collected from the seafloor surveys of Lydia Ann Channel and Aransas Pass, documented how the hurricane’s storm surge eroded parts of the waterways’ seafloor and swept away large amounts of sediment.

The LIDAR data Paine collected has revealed that San José Island, a 21-mile-long barrier island off the coast of Rockport, lost about 125 feet of its Gulf-side beach and about 13 feet of dune elevation. And Matagorda Island, a 38-mile-long barrier island across from the Aransas National Wildlife Refuge, lost about 75 feet of its Gulf-side beach and about three feet of dune elevation.

It will take years to understand the long-term impacts of Hurricane Harvey on the Texas Gulf Coast. But the data retrieved by the Rapid Response missions will be an important starting point for evaluating how the coast is recovering and what actions the state can take to prevent damage from future storms.

DOUBLE YOUR DONATION TO RAPID RESPONSE

Natural disasters affect all of us. Being able to react quickly and understand the long-term impacts of such events are critical to recovery. Dr. James A. Austin, Jr., a Senior Research Scientist at the University of Texas Institute for Geophysics (UTIG) feels so passionately about the importance of these missions that he established an endowment to support them. Austin, who has been with UTIG for 40 years, will match gifts made in support of Rapid Response dollar-for-dollar up to \$100,000.

To participate, you may make a gift online at www.jsg.utexas.edu. Click the “make a gift” link at the top of the page and note that it is for Rapid Response. You can also contact Belle German, Executive Director of Development at bgerman@jsg.utexas.edu or 512-471-1993.



ENDOWING THE FUTURE OF THE JACKSON SCHOOL

Jackson School Friends and Alumni Provided a Record Number of Endowments Last Year

John F. and Carolyn Bookout Endowed Chair In Structural Geology

John F. Bookout, Jr. (B.S. '49 and M.A.'50) "I have profound respect for all of my former professors, but one in particular, Dr. Henryk B. Stenzel, remained a life-long friend and mentor. This endowed chair is given out of respect and honor for all faculty and research scientists who through the years have contributed toward the creation of one of the world's most prominent geosciences schools." John and Carolyn are members of the Flawn Leadership Circle.

Byron F. and Connie Mayes Dyer Field Endowment

Byron and Connie (B.A. '58) pursued their careers in the geology field in various professional roles. It is their wish to help students complete their undergraduate degrees by providing scholarships to those enrolled in a field course required for graduation. Connie has served on the Geology Foundation Advisory Council for many years, and the Dyers are members of the Hill Society and the Texas Leadership Society.

Echols Family Scholarship in Honor of Mary Lou and Mark Dale Wilson

The Echols family represents three generations of geoscientists. Heather Wilson Echols (B.S. '79) and John T. Echols and their family have served the energy sector in the Southwest U.S., and their combined efforts have contributed to improving the quality of life of many individuals in Texas. In an effort to honor the family legacy of Mary Lou and Mark Dale Wilson, who was known as the "Eternal Optimist," Heather and John established a scholarship in their name. Heather has served on the Friends and Alumni Network Board and they are members of the Hill Society.

Ann Molineux Excellence Fund With the help of friends and family, Ian Molineux honored his late wife, Ann Molineux (Ph.D. '97) by establishing an endowment fund to further her goals, aspirations and dreams for the continued development of the University of Texas Non-vertebrate Paleontology Laboratory. Ian is a member of the Hill Society.

Nancy B. and David A. Pustka Graduate Fellowship

Nancy (B.B.A. Marketing '75) and David (B.S. '76), "This endowment serves to recognize a family legacy over many generations beginning with Lester E. Pogue, Sr., who co-founded Pogue Brothers Drilling in Kilgore, Texas, in the early 1930s. It is our wish to honor our grandfather's contributions to the Texas energy sector and to express our devotion to our alma mater, The University of Texas at Austin." Their endowment will provide fellowships to graduate students majoring in geosciences. They are members of the L. T. Barrow Founders Circle.

Bob and Suzie Kent Hydrogeology

Field Endowment Bob (B.S. '72) and Suzie (B.A. Zoology '68) were inspired to provide funding for hydrogeology field camp scholarships with a preference for students who are working part-time jobs while pursuing higher education. Having worked their way through college, they understand the financial challenges faced by students. They are members of the Hill Society.



As one of the largest and most prestigious public geosciences institutions in the world, the Jackson School has a mission that serves society through teaching and research. Our 53 faculty, 90 research scientists, 110 research staff and postdoctoral scientists, and 500 graduate and undergraduate students, are generating ideas for addressing some of the world's most formidable challenges. A number of individuals have chosen to provide lasting and sustainable funding for some of the world's most innovative geoscientists by establishing endowments. These gifts make it possible to teach and conduct research to push the boundaries of knowledge, ignite productive collaborations that

lead to astonishing discoveries, and encourage findings that can transform our world.

During the 2016/2017 fiscal year, endowments and philanthropy accounted for 27 percent of the Jackson School's income. Endowments help address critical needs such as undergraduate scholarships, graduate and postdoctoral fellowships, state-of-the-art equipment, research initiatives, student field experiences, marine seismic field training, buildings and facilities, and an offsite hydrology classroom and research center. We applaud the influential group of philanthropically minded people who recently invested in the Jackson School by creating endowments.

Stephen P. and Katherine Hubby Weiner GeoFORCE Scholarship

Stephen (M.A. '81) and Kathy (B.S. '83) created an endowment for the Jackson School to provide scholarship funds for undergraduate students with a priority for students who have completed the GeoFORCE program. If the need for GeoFORCE should ever cease to exist, the scholarship will be directed to economically disadvantaged, underrepresented, or first-generation university students wishing to study the geosciences. They are tireless volunteers and have both served on the board of the Friends and Alumni Network. They are members of the L. T. Barrow Founders Circle and the Texas Leadership Society.

Dean and Charlene Henney Endowed Scholarship for UT Austin

Although they are not UT alums, Dean and Charlene have made Texas their home since they were in their early twenties. They are passionate about education, emerging technologies, energy, and scientific discoveries that have great potential for human kind. In addition to their endowment, they have planned for a lasting legacy and are members of the Barrow Founders Circle and the Texas Leadership Society.

The Endowment for the Support of the Outdoor Learning Center

Leslie P. (B.S. '56) and Dianne G. White created an endowment to benefit and maintain the White Family Outdoor Learning Center composed of 266 acres of ranch land, southwest of Austin, which is to be used for teaching and research. They are members of the Flawn Circle of Excellence.

Deborah Susan Pfeiffer Endowed GeoFORCE Scholarship

Deborah (M.A. '88), "I want to recognize a family legacy spanning two generations, which includes my daughters, who share my dedication to the pursuit of knowledge in the fields of geological and environmental sciences. It is my wish to give back to the Jackson School of Geosciences for preparing me to serve in various leadership roles during my career in the energy sector." Distributions from the endowment will provide graduate fellowships for GeoFORCE students majoring in geosciences. Deborah and her husband Ron are members of the Hill Society and she serves on the Geology Foundation Advisory Council.

Makes Moves that Shake the World Endowment Fund

Jillian Jopling (B.S. Petroleum Engineering '04) and Lisa Helper (M.S. '12), created a scholarship endowment for undergraduate students studying geological sciences to be awarded at the department's discretion with a preference for female students who are under-represented nationally in the field. Jillian and Lisa represent two of the youngest alums to create an endowment for the benefit of the Jackson School. They are both members of the Hill Society and Lisa has served on the board of the Friends and Alumni Network.

Sheri and James V. White Endowed Scholarship

Sheri and Jamie (M.A. '95) have a young family, but they decided to give back to the Jackson School by providing funding for undergraduate students with financial need. It is their hope that these students will have the opportunity to pursue their dreams without incurring heavy debt. They are members of the Hill Society.

Longacre Endowment for Geosciences

Susan B. (B.S. '64, Ph.D. '68) and Kenneth W. Longacre (B.A. Economics '63, B.L. Law '67) created an endowment to provide financial resources for field experience for both undergraduate and graduate students, currently referred to as GEO 660. They are members of the Hill Society and Susan serves on the Geology Foundation Advisory Council.

Joe and Claire Greenberg Endowed Graduate Fellowship

Joe (M.A. '86) and Claire created their endowment to provide fellowships to graduate students majoring in geosciences, with a preference for students pursuing petrography or geochemical studies. They are members of the Hill Society, and Joe serves on the Geology Foundation Advisory Council.

If you have an interest in learning more about endowments and specific needs at the Jackson School, please contact Belle German at bgerman@jsg.utexas.edu

FELLOWSHIP FOR EER STUDENTS MEMORIALIZES ENERGY EFFICIENCY PIONEER

CLEAResult Helping Students and Honoring Their Founder

Glenn Alan Garland spent his career as a visionary in energy efficiency, an arena where policy, technology and leadership can come together to benefit society, the economy and the environment.

Given Garland's lifelong passion, his company found it fitting to create a fellowship in his memory at The University of Texas at Austin in a program that epitomizes the values he championed. CLEAResult has created a fellowship to honor its co-founder in the university's Energy and Earth Resources (EER) graduate program, a multidisciplinary program that seeks to develop leaders who can expertly manage the Earth's resources.

"Glenn built CLEAResult with a unique vision for the energy efficiency industry," said CLEAResult CEO Aziz Virani. "The work we do every day is a tribute to that vision, and we can't think of a better way to carry on Glenn's legacy to future generations."

The Glenn Garland Memorial Graduate Fellowship in Energy & Earth Resources will cover tuition, fees and a stipend for three students for two years each as they earn a master's degree at the EER graduate program in the UT Jackson School of Geosciences. The fellowships are the first of their kind for the program, which provides students a multidisciplinary education in the geosciences, engineering, policy, finance and economics.

CLEAResult will also provide fellowship recipients opportunities to intern with the company and to attend industry-related networking events and conferences.

EER has chosen Indre Altman as the inaugural fellowship recipient. She is a student at Bowdoin College and is studying Earth & Oceanographic Science and Government & Legal Studies and is minoring in German. Indre has worked

and studied in Germany, New Zealand, Lithuania and Mongolia. Indre's interest in the geosciences grew from her participation in GeoFORCE (a Jackson School program that inspires interest in geology among students from underserved schools in Houston and Southwest Texas), and summer research on river deltas with Jackson School Professor Wonsuck Kim. Her interest in foreign affairs stems from her Lithuanian-American upbringing, affinity for languages, and love of politics. Last summer, Indre worked with a gold exploration team in Mongolia and became fascinated by international resource development. Indre begins the EER program this fall.

EER Director, Richard Chuchla, said CLEAResult's support will pay tremendous dividends for a new generation of visionary leaders.

"Both dimensions of support are important: the financial award and the internship, which complement in-class learning with valuable practical experience and perspective," he said. "CLEAResult's business model, which addresses energy issues from the demand side, is so well aligned with the concept of efficiency as the greatest source of energy, a point taught in our curriculum and increasingly recognized in the broader energy

industry. I am further delighted that a student of Indre's caliber and background will be the first recipient of this fellowship."

Garland was a pioneer in the energy efficiency industry until his retirement in 2015. He built a distinguished career over 25 years working to change the world by creating innovative solutions in energy saving strategies. He was a recipient of the prestigious Central Texas Ernst & Young Entrepreneur of the Year Award in 2013.

Co-founded by Garland in 2003, CLEAResult provides technology-enabled energy efficiency design and

"THE CLEAResult FAMILY IS HONORED TO EXTEND GLENN'S MISSION TO THE INNOVATIVE THINKERS AT THE UNIVERSITY OF TEXAS AT AUSTIN, IN THE SAME TOWN WHERE GLENN STARTED IT ALL."

AZIZ VIRANI,
CLEAResult CEO



Glenn Garland



Indre Altman

implementation services for businesses and consumers. Under Garland's leadership, the company quickly grew from a six-person operation in Austin to a nationally-recognized consulting firm with offices in over 60 cities in the U.S. and Canada.

Garland tragically died in a plane crash in February 2017. Although he was not an alumnus of UT Austin, Garland's colleagues and friends felt that his personal values closely aligned with the goal of the EER graduate program, and chose to create the fellowship in his memory to benefit those students.

"The CLEAResult family is honored to extend Glenn's mission to the innovative thinkers at The University of Texas at Austin, in the same town where Glenn started it all," said Virani.



New Job? New Adventure? Share Your News!

Your Jackson School family wants to hear from you. Visit apps.jsg.utexas.edu/form/alumni-update by August 15 to update your contact information and submit your class notes for the 2018 Newsletter.

GET CONNECTED. STAY **HOOKED.**

EVENTS

ANNUAL JACKSON SCHOOL TAILGATE PARTY

September 15, 2018
Austin, TX



ALUMNI RECEPTION DURING SEG'S ANNUAL MEETING

October 16, 2018
Anaheim, CA



ALUMNI RECEPTION DURING GSA'S ANNUAL MEETING

November 5, 2018
Indianapolis, IN



UT AT EXXONMOBIL ALUMNI EVENT

November 7, 2018
Houston, TX



SCHOLARS LUNCHEON

November 16, 2018
Austin, TX



ALUMNI RECEPTION DURING AGU'S ANNUAL MEETING

December 12, 2018
Washington, D.C.



ALUMNI RECEPTION DURING NAPE SUMMIT

February 14, 2019
Houston, TX



EVENING OF THANKS

April 11, 2019
Austin, TX



Visit www.jsg.utexas.edu/alumni/events-calendar to learn about these events and to stay informed about other upcoming events and activities.



TAKING ON 21ST CENTURY CHALLENGES CREATING 21ST CENTURY LEADERS

From the Earth's core to outer space, research at The University of Texas at Austin's Jackson School of Geosciences is advancing the understanding of our world and beyond for the benefit of humankind.



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