

NCGS LOG

March 2024
Volume 64 No. 9



Happy
St. Patrick's
Day



On the Cover *Kimmeridge Bay, UK*

Five years ago during my MSc program at the University of Copenhagen, I took a week-long trip to the Jurassic Coast of England to study the petroleum system of the North Sea. Each group analyzed collected field data and wrote a term paper on their assigned location. Ours was Kimmeridge Bay, the type location for the major source rock of the North Sea petroleum system, the Kimmeridge clay.

The Kimmeridge clay is a Late Jurassic fossiliferous, organic-rich marine clay and limestone. Through this study project, we were also able to image coccolithophore plates using SEM (see right, bottom). It was one of my favorite projects I've worked on as a geology student - I've included other photos taken on our fieldtrip. I hope to visit soon again!

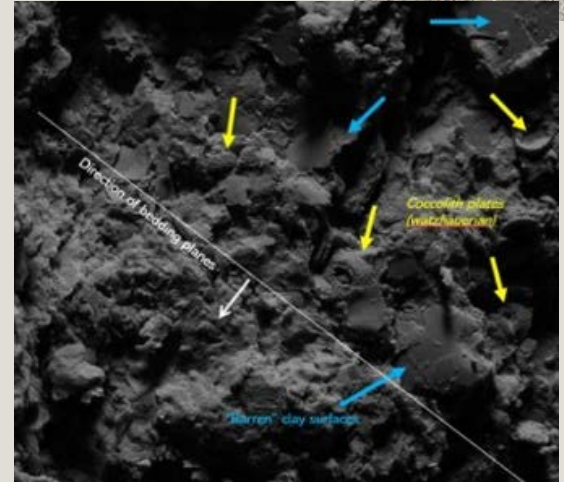


Image Sources: Brittany George

[Link to full term paper \(LinkedIn\):](#)

Dysoxic (or anoxic) bottom water conditions of limestone bands and thermal maturity of the type-location Kimmeridge Clay Formation (Kimmeridge, UK)



From the Editor...

Greetings Everyone,

I hope everyone enjoyed Mardi Gras whether it was in person or afar. I live and work in Baton Rouge now, and Mardi Gras is one of those times of the year when I am happy I don't live anywhere near New Orleans during that time of the year. Four years of working in the French Quarter during my undergrad at UNO was enough. :)

I'd like to thank all who contributed to Ed Picou's memorial page for this month's LOG. He will surely be missed.

As always, if you have any suggestions about content or would like to contribute to the Log, please reach out to me at editor@nog.org!



Brittany

Brittany George
2023/2024 NOGS Log Editor



MARK WOJNA

A MESSAGE FROM THE 2023/2024 NOGS PRESIDENT

The New Orleans oil and gas community lost a legendary and influential explorationist on February 22, 2024. The founder of LLOG Exploration, Gerald A. Boelte died in an accident on his property. Jerry founded LLOG in 1977 working out of his house. During his illustrious 47-year career as an independent, he grew his company by initially redeveloping old fields in South Louisiana. As his company grew, he explored South Louisiana and later the federal waters in the Gulf of Mexico. His crowning achievement was to become a successful, major player in the deep-water Gulf of Mexico as an independent operator.

Jerry created this success through a strong work ethic, paying attention to detail, attracting talented oil and gas professionals to work with him, taking calculated risks and being a cost-efficient operator. In 2014 Jerry formed a second oil and gas company, LLOX Onshore Exploration to focus once again on Gulf Coast exploration in onshore and state waters of Louisiana and Texas. Over the years, a significant number of NOGS members have worked with LLOG either as employees or on successful joint ventures. I consider myself very fortunate to be an explorationist at LLOX since 2019. Working with Jerry Boelte these past four years has been a highlight of my career. NOGS appreciates LLOG's support over the years. Moving forward Jerry leaves an unmatched legacy in our industry and in the greater community. His obituary is included in this month's NOGS Log.

This month's NOGS LOG GeoNews column features an article on Tulane University's Department of Earth & Environmental Sciences. Fellow NOGS member, Dr. Nancye Dawers has provided us with a summary of current activities at her department at Tulane University. As most of you may be aware, the NOGS Memorial Foundation provides annual scholarship awards to Earth Science students at Tulane, UNO and LSU. Please consider making annual donations to the NOGS Memorial Foundation so that we can continue to support locally educated future geologists.

Please join us at the March 6th NOGS March Luncheon Meeting at Dabs Bistro in Metairie. Local geologist, Bill Shedd will be sharing his work on mapping the Gulf of Mexico seafloor and how much fun that was. The Geogulf 2024 Convention takes place in San Antonio from April 10-12. This is a good opportunity to hear about the latest geologic developments in the Gulf Coast. The NOGS Golf Tournament is April 29th. Please consider signing up early for the tournament. We plan on having a seafood boil at the end of the tournament. I plan on being at all three events and hope to see you there.

Mark Wojna

2023/24 NOGS Board

Mark Wojna



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NOGS GOLF TOURNAMENT AND CRAWFISH & SHRIMP BOIL

MONDAY, APRIL 29, 2024
BEAU CHENE COUNTRY CLUB
10:00 AM SHOTGUN START

GOLF:

INDIVIDUALS - \$150

CORPORATE TEAM - \$600

4 MULLIGANS - \$40

CHAMPIONS SPONSOR - \$2,000

ACE SPONSOR - \$1,000

EAGLE SPONSOR - \$500

BIRDIE SPONSOR - \$250

**SEAFOOD BOIL BEGINS AT
3:00 PM**

MEMBERS & GUESTS \$40

**BOIL INCLUDED IN GOLF
REGISTRATION**



*Volunteers
Needed!*

**Funds raised will go towards Geological
Scholarships for LSU, UNO & Tulane**



Remembering Ed Picou

I first met Ed Picou when I started in the industry in 2000 at an API-Delta luncheon where he was awarded the distinguished Meritorious Service Award in New Orleans. He treated me as a friend I've known for many years even though we just met. Over the years I had the pleasure to work with Ed on various projects. He took extreme pride in the things he worked on and a focus on detail to make sure it was perfect. Ed was dedicated for decades to the geology industry and left incredible mark on all who were fortunate to know him. Ed's passion, expertise, and unwavering commitment to the field serves as a guiding light for us all. I am thankful I had a chance to work with and know Ed for so many years. You will be missed my friend. Rest in peace.

Charlie Miller

Ed will be greatly missed. His service to the geological community, especially NOGS is really unmatched. I am glad that I got to know and service alongside Ed through the years at NOGS."

Carol Avery

Ed was a fixture at GCAGS Annual Conventions for decades. We often sat around and talked about our mutual interest in South Louisiana oil and gas history. Ed, of course, especially liked to talk about old Shell Oil fields. Ed encouraged me to submit several short historical bits for the NOGS LOG and always had great suggestions (he never called it editing or revising!) to make them flow better. Ed also graciously included many symposia announcements for the Petroleum History Institute in the NOGS LOG at no charge. Always a gentleman; I don't think I ever heard a mean word come out of his mouth.

Jeff Spencer

The pleasure of working with Ed came when I became the Editor Elect of NOGS, Ed's first correction of my work was when he brought to my attention that log is spelled in capital letters when used with "NOGS LOG". There were many more corrections from Ed during my term as Editor Elect and Editor.

Each correction made me appreciate his dedication to excellence in any work with which he was associated, his drive to continue learning and how generous he was with his time.

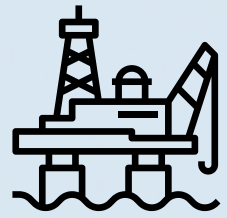
The friendship that grew during our work together has served me well in everything that I currently do. In addition to Ed's friendship, support and guidance, I will miss his calm, steady voice that guided the Board Members of the New Orleans Geological Society through some difficult times.

Although he left us too soon, his legacy remains as a beacon to guide us into the future.

Emmitt Lockard

DRILL BITS

OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES BY AL BAKER



During January 2024, the **Bureau of Safety and Environmental Enforcement (BSEE)** approved 57 Gulf of Mexico (GoM) drilling permits. Eight of the permits were for a shelf wells, and the remaining 49 permits were for deepwater wells. There was 1 new well permit issued on the shelf, and 4 new well permits issued in deepwater.

The shelf new well permit was given to **Arena Offshore** for their Eugene Island 308 #C-3 development well.

The 4 deepwater new well permit were for 3 exploration wells and 1 development well. **Murphy Exploration & Production Company** received 2 new well permits for their Green Canyon 389 #3 exploration well in Leon Field and their Green Canyon 478 #4 exploration well in Mormont Field. **Chevron U.S.A.** obtained a new well permit for their Atwater Valley 453 #1 exploration well. **LLOG Exploration Offshore** received a new well permit for their Keathley Canyon 642 #2 development well in Khaleesi Field.

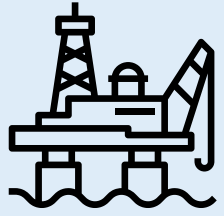
On January 26th, **S&P Global Petrodata** indicated that the GoM mobile offshore rig supply stood at 50, which is 1 more than last month. The marketed rig supply consisted of 37 rigs, of which 30 were under contract. The marketed rig supply increased by 1 from last month, whereas the contracted rig supply increased by 2 when compared to last month. The marketed contracted versus total rig supply utilization rate stood at 74%, and the marketed contracted versus marketed supply utilization rate stood at 81.1%. By comparison, the January 2023 total fleet utilization rate stood at 84.4% with 32 rigs under contract out of the 45 rigs in the fleet.

On January 26th, **Baker Hughes** reported that there are 17 active mobile offshore rigs in the GoM, which is 1 less than last month and 56.7% of the rigs under contract mentioned above. Currently, 2 rigs are drilling on the shelf, and 15 rigs are drilling in deepwater. The shelf rigs are located in the Eugene Island and Ship Shoal Areas. The deepwater rigs include 7 rigs in the Mississippi Canyon Area, 3 rigs in the Alaminos Canyon Area, 2 rigs in the Green Canyon Area, and 1 rig each in the Walker Ridge, Atwater Valley and Garden Banks Areas.

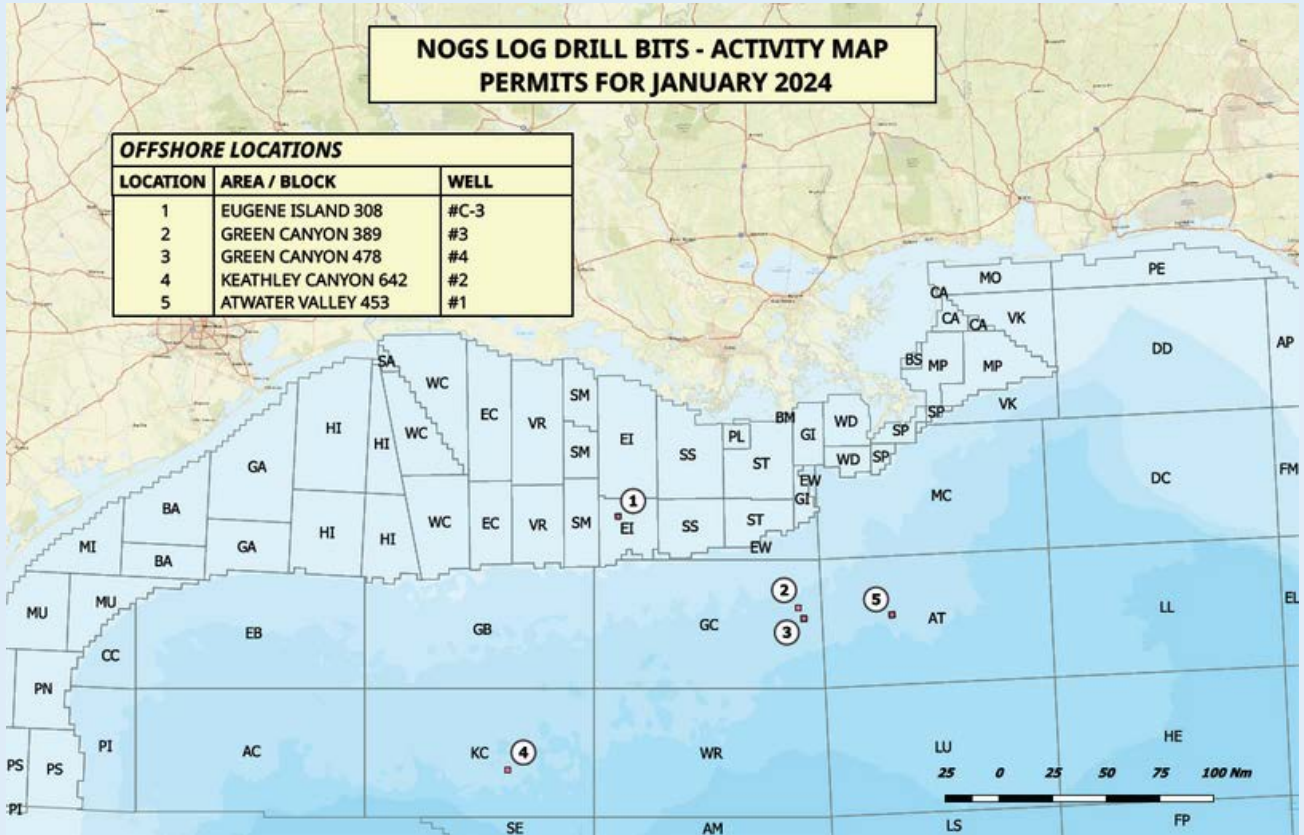
On January 25th, the **Baker Hughes** total U.S. rig count stood at 621 rigs, which is 1 less than reported at the end of December 2023. Of the 621 rigs, 499 (80.4%) are oil rigs and 119 (19.2%) are gas rigs. Three rigs are listed as miscellaneous. A year ago, there were 771 rigs working in the U.S. implying that the 150 rig decline corresponds to a 19.5% decrease in rigs year over year. Nationally, Texas continues to have the largest number of rigs with 304, which is 49% of the total number of rigs in the U. S. Louisiana currently has a total of 42 rigs, which is the same as last month. Louisiana ranks third and is tied with Oklahoma. New Mexico ranks second with 106 rigs.

On January 23rd, the **Bureau of Ocean Energy Management (BOEM)** released its first round of Phase 2 bid acceptances for OCS Sale 261 that was held on December 20, 2023. A total of 40 bids were deemed acceptable with the remaining 271 bids still under evaluation. The evaluation period runs for 90 days following the lease sale date.

DRILL BITS



NEW WELL PERMITS OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES MAP BY KEVIN TROSCLAIR



Recent Energy Headlines

February 2023 Recap

2/23/2024 - LLOG Announces Unexpected Passing of Founder, Chairman Gerald A. Boelte - LLOG Exploration Co. announced on Feb. 23 the unexpected passing of Gerald A. Boelte, chairman and founder of LLOG. The privately owned E&P issued the following statement in a press release: "It is with great sadness that we announce the unexpected passing of Gerald A. Boelte on February 22, 2024, in a single vehicle accident on his family property. The entire LLOG family mourns his loss as we extend our deepest sympathies to the Boelte family." [Read Full Article](#)

2/21/2024 - ExxonMobil to divest stake in deepwater Gulf of Mexico Ursa - Princess development - ExxonMobil Corp. has agreed to divest its 15.9% interest in the Shell Offshore Inc.-operated Ursa and Princess oil assets in the deepwater Gulf of Mexico. Esperanza Capital Partners and Andros Capital Partners LLC signed a definitive purchase agreement to acquire the assets as a joint venture focused on the acquisition and development of upstream and infrastructure assets in the deepwater Gulf of Mexico. Ursa, which began production in 1999, lies about 130 miles southeast of New Orleans, La., and encompasses Mississippi Canyon Federal OCS Blocks 765, 766, 808, 809, 810, 852, 853, and 854. [Read Full Article](#)

2/16/2024 - Occidental 2024 investment in the Gulf of Mexico increases - Occidental Petroleum Corp., Houston, plans to grow total production this year to 1.22-1.28 MMboe/d, the midpoint of which would mark a 2.2% increase from 2023's average. Permian basin production, which surged nearly 14% last year, is forecast to essentially stay flat in 2024—executives plan to cut two rigs there—while the company's assets in the Rockies region will provide some growth. Capital spending this year will shift somewhat from shale and exploration projects to longer-term investments that will set Occidental up for production growth late this decade. [Read Full Article](#)

2/14/2024 - Shell expects 50% rise in global LNG demand by 2040 - Global demand for liquefied natural gas (LNG) is estimated to rise by more than 50% by 2040, as China and countries in South and Southeast Asia use LNG to support their economic growth, Shell said on Wednesday. The market remains "structurally tight", with prices and price volatility remaining above historic averages, constraining growth, the world's largest LNG trader said in its 2024 annual LNG market outlook. [Read Full Article](#)

2/14/2024 - Another approval paves the way for development of Woodside's Gulf of Mexico oil project - The Mexican Ministry for Energy has given its stamp of approval to Woodside for the social impact assessment of the Trion oil and gas project, which was submitted in May 2023 to provide a comprehensive assessment of the project and outline how the Australian player would manage social impacts. Matthew Ridolfi, Woodside's Executive Vice President of Projects, commented: "This approval marks an important milestone on the pathway to developing this nationally significant resource project. We appreciate the ongoing support we have received from the Mexican government for Trion." [Read Full Article](#)

NOGS MEETING

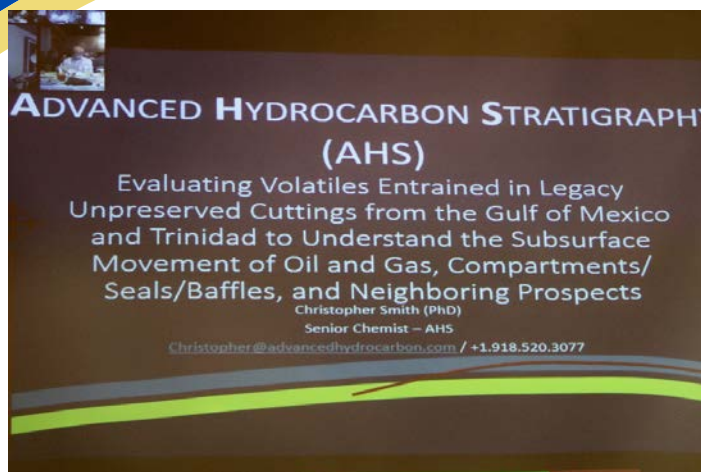
RECAP

CHRISTOPHER SMITH

EVALUATING VOLATILES ENTRAINED IN LEGACY UNPRESERVED CUTTINGS FROM THE GULF OF MEXICO AND TRINIDAD TO UNDERSTAND THE SUBSURFACE MOVEMENT OF OIL AND GAS, COMPARTMENTS/SEALS/BAFFLES, AND NEIGHBORING PROSPECTS



**FEBRUARY
2024**





AAPG



Calling for donations for the upcoming **AAPG Caughey-Zimmermann Energy Library**

LSU AAPG is developing a library that will provide a **wealth of valuable resources** to students. Our goal is to foster a **collaborative environment** where students can **explore** topics in petroleum geology, **empowering** them to **pursue careers** in the energy sector... ***BUT WE NEED YOUR HELP!***

How can you support us?

- ✓ Physical book donations
- ✓ Digital book donations
- ✓ Monetary donations

ALL donors will receive **recognition** in the library!

Donations over **\$150** will receive an **award!**

Follow the link to
learn how to
donate!

**[https://bit.ly/3
WfLuGa](https://bit.ly/3WfLuGa)**





In Memory
**GERALD ALFRED
BOELTE**

Gerald Alfred Boelte, affectionately known as Jerry, passed away in a single-vehicle accident on his family property on February 22, 2024 at the age of 77. He was born August 15, 1946 in New Orleans, LA, to Katherine and John Boelte. Jerry is survived by his cherished wife, Hedy, his sister Carolyn Sanford, his brother John Boelte (Jan), his five children Letty K. Boelte, Leah Chace (Trey), Annie Heard (Chris), Jeremy Boelte (Caitlin), and Caroline Butterworth (Taylor).

His legacy also extends to his 12 grandchildren who brought him immeasurable joy and wonder. Their memories of their beloved "Grand Duka" will forever be treasured. Jerry loved to spend time with his family members and was sincerely interested in the lives of each of his children and grandchildren. He was extremely cheerful in affection and ardent in his desire to have a tight-knit family. Pet names, meaningful birthday cards, long outdoor adventures, and purposeful conversation were commonplace in the Boelte household. He possessed a zest-for-life, brimming with fervor and driven by an insatiable passion for learning, family, faith, health and wildlife. His unwavering determination propelled him to remarkable achievements both personally and professionally. Though professionally known as an oil and businessman, one of Jerry's greatest joys in life was his dedication to the conservation and enhancement of wildlife.

He was deeply committed to the natural world around him, and his efforts to preserve and cultivate land were nothing short of inspiring. His favorite pastime was enjoying the great outdoors and had a daily habit of walking and observing God's creation to his heart's delight. This experience was greatly enhanced for him when he was joined by members of his family.

Jerry obtained his BS in Petroleum Engineering from LSU and grew to become an industry leader in exploration and discovery of oil and gas reserves. His business acumen was admired by many and he worked tirelessly with the staff until his dying day. His enthusiasm for exploration was infectious and in this spirit he built an organization of dedicated, loyal staff who strove for excellence. In recent years, Jerry underwent a profound spiritual deepening in which he devoted countless hours to truly knowing and loving The Lord. He compiled writings from spiritual giants highlighting insights that were inspiring to him. He joyously shared his "Keys to Success" in the hopes that each person would find at least one item that resonated with them. Though Jerry may no longer walk among us, his legacy will forever live on in the hearts of those who were touched by his extraordinary presence. His "keys" will continue to serve as guiding lights, helping his loved ones as they navigate life's challenges and uncertainties without him. Rest in peace, Jerry, you were truly "one of a kind".

In lieu of flowers, the family has requested memorial donations to St. Joseph's Monastery, 31 Airport Road, Natchez, MS 39120.

In Memory of KENNETH O. WILLIAMS



Kenneth Oliver Williams, 91, a native of Sulphur Springs, Texas and resident of Slidell, Louisiana since 1969 joined our heavenly father on Wednesday, January 31, 2024.

He was born July 9, 1932, to the late Byron L. and Lorena H. Williams

He was preceded in death by his brothers, Byron L. Williams, Jr., Hobbs Williams, Stanley Williams, James Williams, and Joseph Williams

Beloved husband of the late Nelda Rose Williams.

Survived by his devoted children, Matthew B. Williams (Tami), and Carmel W. Everard (Dave). He was the loving P-Paw to five grandchildren: Joshua B. Williams, Courtney W. Hall, Stacey Cruz, Stephanie Nikolas, and Taylor Nikolas; six great grandchildren; Michael Hall, Piper Rose Hall, Kilee Melancon, Trey LaSalle, Rylee Raffo, Eva Sanchell and two great-great grandchildren; Saxon Melancon and Bailey Melancon.

Ken graduated from Sulphur Springs High School in 1949. He enjoyed a full baseball scholarship to Baylor University where he received his Bachelor's of Geology in 1953. He was working with Seismic Engineering in Dallas just before he entered the Army in 1954 and served as an Aerial Photo Interpreter until his release in 1956. After the Army, he entered the Shell Oil Company training program which introduced him to all phases of Geological production. He was employed with Shell Oil Company as an Exploration Engineer, Production Geologist, and Senior Geological Engineer and held that position until his retirement in 1991. He was a member of the East Texas, Houston, Corpus Christi, and New Orleans Geological Society.

Mr. Williams was a devoted and loving husband and father. He enjoyed spending time with family, fishing, hunting, all sports especially baseball, lapidary creations and exploring for rock and mineral treasures in all his travels. He was the rock of the family.

In Memory of



GEORGE D. SEVERSON

George was a long-standing and distinguished member of the New Orleans Geoscience Community. He served in the Air Force during the Korean War (stationed in San Antonio, TX), after which he attended Tulsa University where he received his Master of Science Degree in Geology. George began his professional career in Norman, OK working for Texaco, then moved to Lafayette, LA to work for Exchange Oil and Gas in the mid-1960's. George later made the move to New Orleans to work for Louisiana Land and Exploration Co., where he served as a Vice President, and eventually joined McMoRan Oil & Gas where he served as the Operations Manager. He received numerous accolades throughout his career including the AAPG Distinguished Service Award in 1993. He was a member of several professional organizations, including SIPES, AAPG and NOGS. Those who had the opportunity to work with George through the years would tell you he was well-respected, well-liked and a consummate gentleman.



EDUCATIONAL SPOTLIGHT: An Overview of Tulane's Earth & Environmental Science Program

*by Nancye Dawers,
Associate Professor, Tulane University
Department of Earth & Environmental Sciences*



When Mark Wojna asked me to write a NOGS newsletter update on Tulane's Department of Earth & Environmental Sciences, I did not hesitate to agree, although our current department chair, Kyle Straub, might be better positioned for this. However, I now find myself having been at Tulane longer than any of my colleagues. Consequently, I have seen the department change in name (from Geology to Earth & Environmental Sciences in the early 2000s), experienced restructuring at Tulane following Hurricane Katrina, and been part of the department's growth in environmental science and, more recently, in planetary science.

The department's size, about 13 in terms of total faculty, has remained relatively stable in recent years. This is despite retirement of Steve Nelson in

2018, George Flowers' retirement this past fall, as well as other faculty moves. Mead Allison still has an affiliation with the department, however his primary role is in the still-evolving Department of River-Coastal Science and Engineering. Nicole Gasparini has recently started an appointment as a program manager at the National Science Foundation, taking a hiatus from teaching.

Fortunately, we have been allowed to fill tenure-track lines and also keep our Professor of Practice positions filled. This has helped in implementing undergraduate curriculum changes that were in the works for a long time, while growing the department's research profile and maintaining the size of the graduate program. Our most recent tenure-track hires include: Dr. Yi Wang, Dr. Dan Freiss (Cochran Family Professorship), Dr. Colin Jackson, and





Louisiana GeoNews

A New Orleans Geological Society Publication

MARCH 2024

Dr. Jennifer Whitten. Yi Wang, who just joined Tulane in January, works on stable isotope geochemistry applied mainly to ocean oxygenation over a wide range of timescales. She is currently developing a new mass spectrometry lab and recruiting graduate students. Dan Freiss joined Tulane in 2022 as a full professor. His group's research on blue carbon and natural climate solutions, bringing an aspect of ecosystem restoration that has potential for broadening the department's collaborations. Colin Jackson and Jennifer Whitten, who both joined Tulane in 2019, have backgrounds in planetary science. Jackson's high-pressure and high-temperature experimental lab studies processes related to planetary formation and Earth's earliest stages of development. Whitten's planetary geoscience focuses on mapping of planetary surfaces using a variety of ground- and space-based data, especially radar.

The breadth of research encompassed by these four new faculty provides an insight into our efforts to expand our research profile. We view this as key in attracting top calibre graduate students, post-doctoral researchers, and additional new faculty. These recent tenure-track hires join faculty that span a range of geoscience disciplines: Cindy Ebinger (Marshall-Heape Chair,

geophysics/seismology), Kyle Straub (sediment transport, experimental stratigraphy), Nicole Gasparini (geomorphology, landscape modeling), Tor Tornqvist (Holocene sea-level, Quaternary science), and myself (structural geology). Currently we are interviewing applicants for two additional tenure-track positions, both in earth systems and climate interaction.

Professors of Practice, renewable non-tenure-track faculty positions that were instituted at Tulane after Hurricane Katrina, focus on teaching. We are fortunate to have three Professors of Practice. Dr. Jeff Agnew (Senior Professor of Practice) teaches a wide range of courses employing a variety of pedagogies. As a paleontologist, his courses bring aspects of deep-time paleoecology and paleobiology. Dr. Keena Kareem, a Tulane alumnae who holds an LSU PhD, is also a recent faculty hire. Her experience ranges from igneous petrology to petroleum geology, and her courses range from introductory geoscience to advanced GIS. Dr. Jennifer Veilleux brings an aspect of water rights, including indigenous water rights to our hydrology courses. This year we also have a new visiting professor, Dr. Jamiat Nanteza, a groundwater hydrogeologist who is contributing to our GIS certificate program.





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About 5 years ago, we began seriously planning and undertaking changes in our geoscience curriculum. The most significant change has been a merger of the geology major with the major in environmental earth science. The geology major had been modified little over many decades, while the environmental earth science major originated mainly after Hurricane Katrina. Having two separate Bachelor of Science programs, neither of which carried the department name and required a different set of major requirements, presented challenges in recruiting majors. Last semester saw the implementation of our new major in Earth and Environmental Sciences, and an immediate increase in our numbers of declared majors. The new major, in a nutshell, includes 4 required 2000-level courses in: solid earth and planetary processes, including tectonics; deep-time perspectives on climate, evolution and extinction; geochemical processes that link earth systems; and processes that shape earth's surface. Developing these entailed melding topics that were once spread across traditional geology courses. This approach still allows students to follow an academic pathway of upper-level electives in line with their interests and career aspirations. From the faculty perspective, it allows us to continue teaching important courses that can now be taught at a higher level.

Around the same time, we began assessing the overall curriculum. We developed a GIS certificate program both at the undergraduate and graduate level. Many of our majors and graduate students now graduate with this certification. It continues to generate interest across a number of departments and schools within Tulane. Currently it is not available to students outside Tulane, however, the demand for these skills and interest in online programs makes its expansion a possibility for the future.

Amidst changes, there are also many department events and traditions that continue. We present the Steinmayer and Vokes awards each year to our topmost seniors. We host an alumni party during fall Homecoming. The Grand Canyon colloquium course and raft trip is continuing to be offered despite the disruption of the COVID pandemic. After being led by Ron Parsley for many years, Steve Nelson became lead-faculty following Ron's retirement, and in turn this passed on to Brent Goehring, and most recently Jeff Agnew. We often have opportunities for people outside Tulane to join the week-long trip, which spans the portion of the Colorado River within Grand Canyon National Park. Please do not hesitate to contact us about availability on the annual May raft trip.





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Graduate programs in Earth and Environmental Sciences at Tulane still include the MS and PhD programs (typically around 25 students). Both are structured as traditional full-time degree programs in which we support support students as teaching assistants, research assistants, or as research fellows. Particularly important to the graduate program is the McWilliams endowment, started in the 1970s by Kent McWilliams' McMoRan cofounders. As well as additional endowed funds from Freeport-McMoRan, and from the generosity of

Emily and Harold Vokes, George Hermann, the Cochran family, Bob Marhsall and Scott Heape.

I want to close this update by saying how much our department and students appreciate the support through the NOGS Foundation scholarships. My colleagues would whole-heartedly agree – the level of recognition and financial assistance that students receive is considerable. We also appreciate the additional fellowship support donated to the department by NOGS is 2021.





NOGS Member \$50 Discount Code:
nogs24

27th Annual Gulf of Mexico
Deepwater
Technical Symposium

GEOLOGY SEMINAR

Carbon Capture and Storage: An Industry Primer

SAVE THE DATE

August 14, 2024

Dr Tip Meckel - Gulf Coast Carbon Center,
Bureau of Economic Geology (USA)
Dr Trey Meckel - Monteverde Energy (Australia)

This one-day short course provides technical professionals, managers, and executives at various stages in their career an in-depth overview of Carbon Capture and Storage (CCS), one of the most rapidly emerging sectors in the energy industry and a critically necessary component of all credible low emissions and decarbonization scenarios and plans.

CCS is a safe, reliable, and proven method to safely and effectively remove carbon dioxide from the atmosphere. Under the right conditions, CO₂ stored in subsurface geologic formations is permanently isolated.

Many of the aspects of CCS that we will cover as topics and themes on the course will be familiar to participants with experience in oil and gas, but we will focus on how to leverage skills and experience to maximum benefit.

- CCS in the context of Net Zero and the Energy Transition
- Existing and emerging technologies to capture, transport, store, and monitor injected CO₂
- Sources of CO₂ emissions
- Distribution networks: Pipelines and flow assurance

- Characterizing and selecting potential storage sites
 - Onshore vs offshore
 - Depleted fields and saline aquifers
 - A forensic look at seal integrity
- Risk and uncertainty
- Reservoir surveillance
 - Migration
 - Measuring, monitoring, and verifying
- Permitting, Regulatory, and Policy issues
- Establishing and building successful partnerships
- Project management
- Financing, incentives and cost considerations
- Stakeholder engagement
- Critical success factors for technical and commercial viability

Course cost: \$200

The course will draw on the instructors' decades of first-hand experience on successful (and not so successful) USA and International commercial and technology research projects, including their learnings from applied case studies, a review of the status of current and planned global projects, projections for future growth, and thoughts on how to build a sustainable and rewarding career in the 21st century energy industry.

27th Annual Gulf of Mexico
Deepwater
Technical Symposium

**Stay tuned for these other
NOGS-sponsored courses!**

**Introduction to Western and Central Gulf
of Mexico Environmental Regulations**

Course cost: \$200

**Professional Geoscientist Exam (ASBOG)
Preparatory Course**

Course cost: \$125

**Observing Maturing Source Rocks on
Seismic Data**

Course cost: \$125

CALL FOR SPEAKERS!

**Have a great topic that you
would like to present to NOGS
Members at a Monthly
Meeting?**

**Submit your topic and
presentation for our Program
Committee to review**

[CLICK HERE TO SUBMIT](#)



Let's Rock!
GEOGULF2024
 SAN ANTONIO
 10-12 APRIL 2024

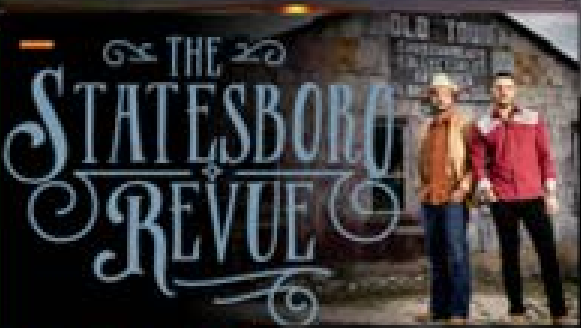
SPONSORS



EVENTS

Let's Rock!
GEOGULF2024
 18 Hole Golf Tournament
 \$100 per Golfer - \$400 for a team of 4
72 ENTRIES / 18 TEAMS OF 4
 April 9, 2024
 Olympia Hills Golf Club
 Primary Sponsor \$20K, Sponsoring Sponsor \$2K, Registration Sponsor \$2.5K, Food Sponsor \$100

Let's Rock!
GEOGULF2024
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