

NOVEMBER 2021
Volume 62 No. 5

N O G S L O C



IN THIS ISSUE



On the Cover

Postojna Cave is a 24,340 m long karst cave system near Postojna, southwestern Slovenia. It is the second-longest cave system in the country as well as one of its top tourism sites. The caves were created by the Pivka River. Wikipedia
Address: Jamska cesta 30, 6230 Postojna, Slovenia
Length: 24,120 m (79,130 ft)
Depth: 115 m (377 ft)
Geology: Limestone



From the Editor...

The southeast Louisiana region's recovery from the damage caused by Hurricane Ida is making progress but we are only in the initial phase of recovery. Please continue to help your neighbors who are in need with your time, talent, and treasure.

The eyes of the world we be focused on the UN Climate Change Conference of the Parties (COP26) in Glasgow from October 31 – November 12, 2021. The conference acknowledges that the climate is already changing and that it will continue even though emissions will be reduced, and the effects will be disruptive. Among the goals the conference wants to achieve is to help communities adapt to protect themselves and their natural habitat.

Improving the resilience of our community is in alignment with the stated goal of COP26 to

- Protect and restore ecosystems
- Build defenses, warning systems and resilient infrastructure and agriculture to avoid loss of homes, livelihoods, and lives

Recent research using ocean acidity rather than temperature to predict El Nino events from ocean dynamics models produced very interesting results using data from the Pliocene Epoch as an analogue. [Click here for more information.](#)



Emmitt Lockard
2021/2022 NOGS LOG Editor



HILLARY SLETTEN

A MESSAGE FROM 2021/2022 NOGS PRESIDENT-ELECT

To members and friends of the New Orleans Geological Society:

To many of you I may be a new face, and certainly I am new to writing this letter to our NOGS membership. Last year I served as the Vice President helping to run our speaker series and this year I have been serving as President Elect. Our current President, Doug Bradford, has had to step away from his NOGS duties to care for a family member. For the remainder of this term I have agreed to step into Doug's role, and with NOGS membership approval, Doug will return to his duties as President in the 2022-23 term. We wish Doug the best as he serves in this new role as caretaker and for his family during difficult times.

Another one of our core NOGS members who has suffered from an unfortunate family matter is our administrator, Christy Himel. In late August Christy's husband, Eddie Himel, passed away. His funeral service was held on September 24, 2021 after being delayed by the aftermath of Hurricane Ida. As you can imagine, this has been an upending experience for Christy and her family. Christy returned to work with NOGS in mid-October and we send our hearts out to her and her loved ones as they continue to heal from this very tragic loss.

With two of our rocks coping with extraneous circumstances on top of several members who were impacted by Hurricane Ida, the board decided to cancel September meetings and our October speaker. We apologize for this disruption in our programs, but we hope you all understand and thank you for your continued patience as we get the organization back on schedule. Moving forward, we have some exciting talks and program events ahead!

On December 6 meeting we will meet for the first time IN PERSON since the beginning of the pandemic to host our speaker and celebrate the NOGS 80th Anniversary!! We plan to hold this event at The Cannery in New Orleans beginning at 11:30 AM. Lunch to be served. Please look for an invite and RSVP request later this month. We can't wait to welcome our membership back to in-person events. We will still offer a virtual option for folks to join who cannot attend in-person. With that, I look forward to serving NOGS in this new way. Please reach out with any questions, comments, or concerns you may have as we round out another wild year! You can email me at Hillary.Sletten@shell.com.

Stay safe and be well,
Hillary Sletten



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PICTURE FROM THE PAST



Photo taken at NOGS Luncheon January 9, 1995 showing (from left) Poster Paper by Tony Friedman, Andy Petty, and S. Thieling

Submitted by
Ed Picou, Chairman - Historical Committee

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The New Orleans Geological Society was organized on October 3, 1941, as a non-profit organization for the purpose of facilitating the development of the profession and science of Geology, with specific emphasis to exploration and production of petroleum and natural gas. Secondary related objectives include the dissemination of pertinent geological and environmental technological data, and the maintenance of a high standard of professional conduct of its members. The full history of the Society can be found at nogs.org.

The NOGS LOG is now a digital magazine with live links to your site to reach NOGS Members and support your Society. Please contact Christy Himel admin@nogs.org for placement availability. Full page NOGS LOG advertisers will have their Company LOGO posted on the NOGS Website front page. All advertisers are included on the Society's monthly PowerPoint and listed on the website with a link to their home page. Please check out our website www.nogs.org

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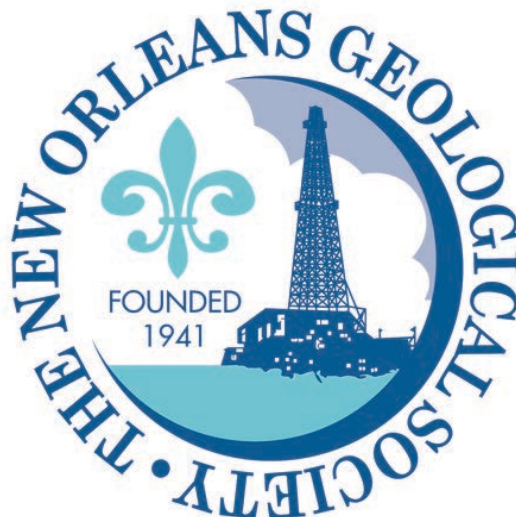
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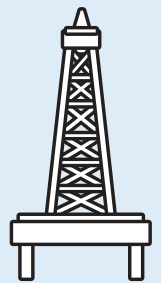
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DRILL BITS

OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES BY AL BAKER



During September 2021, the U.S. Department of the Interior Bureau of Safety and Environmental Enforcement (BSEE) approved 40 Gulf of Mexico (GoM) drilling permits. Ten of the permits were for shelf wells, and the remaining 30 permits were for deepwater wells. Of the total number of permits, there was 1 new well permit issued in deepwater.

The single deepwater new well permit was given to BOE Exploration & Production for their Green Canyon 943 #1 well.

On September 24th, IHS-Petrodata indicated that the GoM mobile offshore rig supply stood at 45, which are 7 less than last month. The marketed rig supply consisted of 30 rigs, of which 24 were under contract. The marketed rig and contracted rig supply numbers are 4 greater than last month. The marketed contracted versus total rig supply utilization rate was 66.7%, and the marketed contracted versus marketed supply utilization rate was 83.3%. By comparison, the September 2020 total fleet utilization rate stood at 56.5% with 35 rigs under contract out of the 62 rigs in the fleet.

On September 24th, Baker Hughes reported that there are 8 active mobile offshore rigs in the GoM, which is 6 less than last month and 33.3% of the rigs under contract mentioned above. Currently, 2 rigs are drilling on the shelf, and 6 rigs are drilling in deepwater. They include 2 rigs in the Mississippi Canyon Area and 1 rig each in the Alaminos Canyon, Keathley Canyon, Green Canyon, Viosca Knoll, Eugene Island and Main Pass Areas.

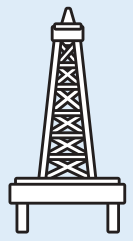
On September 24th, the Baker Hughes total U.S. rig count stood at 521 rigs, which is 13 more rigs than reported at the end of August 2021. Of the 521 rigs, 421 (80.8%) are oil rigs, 99 (19%) are gas rigs and 1 miscellaneous rig. A year ago, there were 261 rigs working in the U.S. inferring that the current rig figure represents a 99.6% increase in rigs year over year. Presently, Texas continues to have the largest number of rigs with 242, which is 46.4% of the total number of rigs in the U. S. Louisiana currently has a total of 43 rigs, which is 6 less than last month. Nationwide, Louisiana continues to rank third in the rotary rig count. New Mexico ranks second with 84 rigs.

On October 1st, the Bureau of Ocean Energy Management (BOEM) announced that it would hold OCS Sale 257 this fall. The sale had been originally scheduled for March 17, 2021 but was delayed by the Biden administration and the Department of the Interior. The new sale date has been set for November 17, 2021.



DRILL BITS

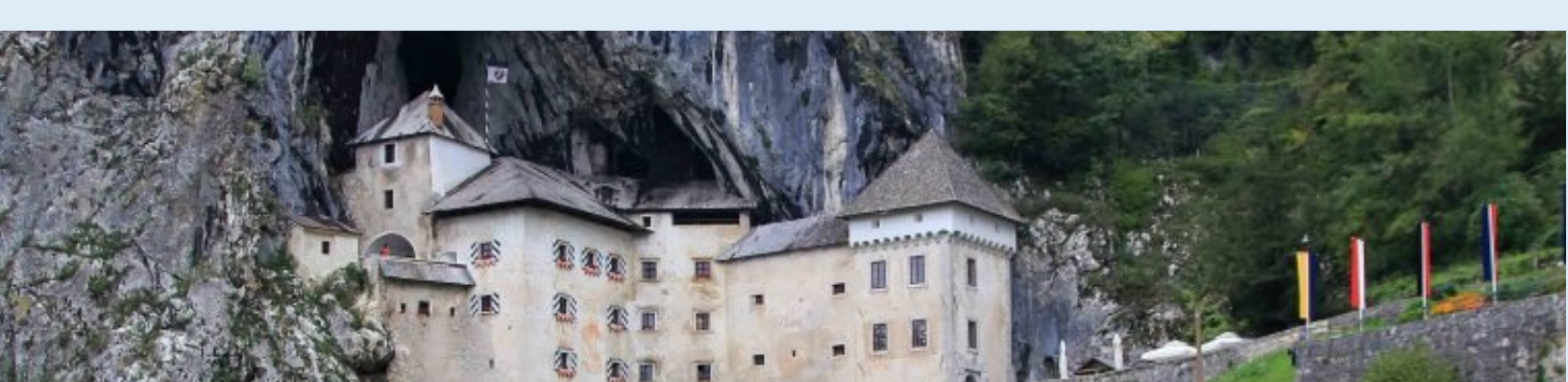
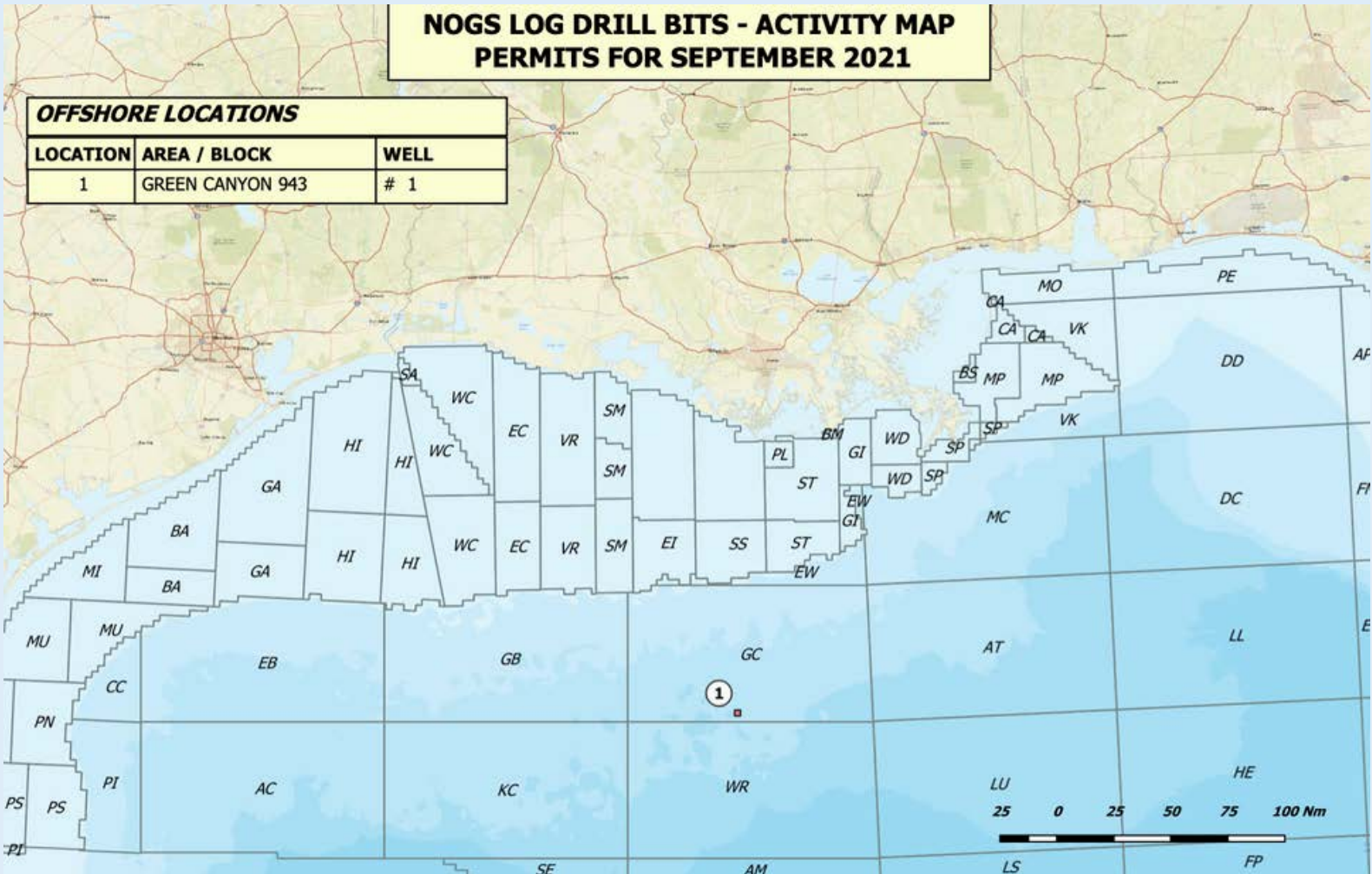
OFFSHORE GULF OF MEXICO SHELF AND
DEEPWATER ACTIVITIES
MAP BY KEVIN TROSCLAIR



NOGS LOG DRILL BITS - ACTIVITY MAP PERMITS FOR SEPTEMBER 2021

OFFSHORE LOCATIONS

LOCATION	AREA / BLOCK	WELL
1	GREEN CANYON 943	# 1



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MEMORIAL
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Founded March 14, 1978, the mission of the New Orleans Geological Society Memorial Foundation is to promote earth science related or scientific purpose by granting of scholarships to outstanding Geology students at the universities in Southeast Louisiana having a comprehensive curriculum and offering a degree in Geology. The Bill Craig Memorial Fund provides for any earth science related educational or scientific purpose that is a direct benefit to grades K-12 teacher or teachers within the Greater New Orleans Area. This area is defined as the area encompassing New Orleans, Jefferson, Plaquemines, St. Bernard and St. Tammany Parishes.

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Recent Oil Industry HeadlinesOctober 2021

10/4/2021 - Oil vs. environment: Debate continues after Biden administration schedules Gulf lease sale - The Biden administration's decision to schedule a Gulf of Mexico oil lease sale for next month has sparked continued debate among industry representatives, environmentalists and public officials. BOEM scheduled the Nov. 17 lease sale in New Orleans after the Democratic president's ban on new oil and gas leasing on federal lands and waters, enacted in January, was blocked by a judge. **Read Full Article**

10/5/2021 – BOEM sets Nov. 17 date for Gulf of Mexico oil and gas auction - The United States will hold an auction for drilling rights in the Gulf of Mexico on Nov. 17 to comply with a court order to resume oil and gas lease sales, as reported by Reuters. The auction of some 80 million acres offshore will be the first the Interior Department has held under President Joe Biden, who campaigned on a promise to end new federal oil and gas leasing as part of a climate change agenda. The last such sale in the Gulf of Mexico was in November of 2020. **Read Full Article**

10/8/2021 - BP begins producing oil at expanded field in Gulf of Mexico - BP said that it has begun producing oil from one of the Gulf of Mexico's largest fields. At its peak, Phase 2 of the Thunder Horse South Expansion, about 160 miles southeast of Port Fourchon, will produce about 25,000 barrels of oil a day from the initial two subsea wells, the company says. Eventually, a total of eight wells are expected to be drilled as part of the project's overall development. The new wells will connect to the Thunder Horse platform nearby. **Read Full Article**

10/11/2021 - U.S. oil books first settlement above \$80 in almost 7 years - U.S. oil futures on Monday settled above \$80 a barrel for the first time in almost seven years, as a global energy crisis persisted, boosting crude demand. "From a fundamental standpoint, the story remains virtually unchanged," said Brian Steinkamp, commodity analyst at Schneider Electric, in a daily note. "Supply is tight as the world holds steady against COVID and economic activity continues to recover, sending fuel prices across the board higher throughout the year and surging as of late" with the approach of winter. **Read Full Article**

10/12/2021 - First Fully Automated Land Rig Drills First Well - Nabors Industries Ltd. (NYSE: NBR) has announced that the world's first fully automated land drilling rig has reached total depth on its first well, which was for ExxonMobil in the Permian basin. XTO Energy, a subsidiary of ExxonMobil, contracted the rig to drill 3 horizontal wells on a test pad in Midland, Texas, as part of its own research efforts, efficient and responsible operations, Nabors highlighted. The first well was drilled to a total measured depth of 19,917 feet. **Read Full Article**

10/19/2021 - Tech advancements drive Permian productivity gains - The Permian Basin, which spans western Texas and eastern New Mexico, represents the most prolific hydrocarbon production region in the United States. They accounted for about 30% of U.S. crude oil production and 14% of U.S. natural gas production (measured as gross withdrawals) in 2020. Technology innovations, such as longer lateral wells and multi-well pad drilling, has helped reduce costs and increase productivity in developing oil and natural gas resources in the Permian Basin. **Read Full Article**

TOP 10 REASONS TO JOIN NOGS

1

Proclaim your professionalism

With an 80 year history and over 300 active members, NOGS is the premier professional organization for geologists in New Orleans. Adding your name to the ranks declares your pride in the profession you have chosen.

2

Advance your career

NOGS members enjoy educational opportunities and top speakers designed to increase knowledge and keep up with the newest trends in geoscience, both on the national and local levels.

3

Advertise your integrity

NOGS has a reputation of over 75 years for upholding high standards. Align yourself with like-minded geologists and related fields.

4

Further your cause

NOGS was organized for the purpose of facilitating the development of the profession and science of Geology, at the time with a focus on production of oil and gas. Since Hurricane Katrina our objectives expanded to include the dissemination of the geological facts of flood control, engineering and environmental geoscience.

5

Network with others who do what you do

Making connections, between people and ideas, is an important part of any scientific endeavor. Meet others who can help you make those connections.

6

Advocate for your profession

Serious-minded professionals know that serving the profession means responding to calls for action from those who represent the profession. NOGS monitors trends in geoscience education, regulation, and practice standards and periodically advises members on required action.

7

Serve your profession and community

Opportunities for individuals to serve on NOGS committees that work on a variety of issues from building educational programs to sharing knowledge with others to providing scholarships to young geologists in our area.

8

Don't reinvent the wheel ... use available resources

NOGS members can provide you with the resources you need to do your job well. Long-time members remain active and are happy to share their knowledge and best practices.

9

Play a part in elevating the status of geosciences.

Your membership in NOGS and your dedication to geoscience elevates the entire profession.

10

Do it for YOURSELF!

It's all about YOU! NOGS' educational, networking, and career planning programs will take you where you want to go!





NEW ORLEANS GEOLOGICAL SOCIETY MEMORIAL FOUNDATION INC.

The New Orleans Geological Society Memorial Foundation is pleased to announce the recipients of the 2019 Scholarship Awards. Scholarship awards are made in partial fulfillment of the mission of the foundation to provide a source of revenue for the support and promotion of earth science education. These scholarship awards have been made possible by the generous donations of individuals and other organizations to the NOGS Memorial Foundation.

2021 marks the 43rd year of the NOGS Memorial Scholarship Program. Nearly \$800,000 in scholarships have been awarded over that time. Past scholarship recipients have gone on to careers in the oil and gas industry, the U.S. Geological Survey, the Bureau of Ocean Energy Management, the Louisiana Department of Natural Resources, the Water Institute of the Gulf and the Lake Pontchartrain Basin Foundation. Donations to the NOGS Memorial Foundation will provide for the continuation and expansion of the scholarship program and other programs supporting earth science education for years to come. Donations can be made at the foundation website.

**This year's
scholarships include
the Jules and Olga
Braunstein Memorial
Scholarship, the
Lee H. Meltzer
Graduate
Scholarship, the
George W. Schneider
Memorial
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Richard W. Boebel
Graduate Scholarship
and the J.A. Gilreath
Graduate
Scholarship.**

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Nicole Phaneuf

\$2,500 Jules & Olga
Braunstein Memorial
Scholarship

Nicole Phaneuf is a senior attending Tulane University. She is double majoring in Environmental Earth Science and Sociology with a GIS certificate. Growing up in Colorado, she has always had an interest in geology and environmental science. Nicole is highly interested in conducting research with a goal of better understanding the environments that I explore. She is extremely lucky to study in the Department of Earth and Environmental Sciences and hopes to utilize her GIS skills to benefit earth science related research after graduation.

Nicole is currently working with GIS as an Undergraduate Research Assistant with the Quaternary Research Group here at Tulane. She also conducted spatial analyses for the Department of Sociology. She also worked as a GIS intern in Troy, Michigan.

Outside of academics, Nicole is an NCAA D1 athlete, and competes for Tulane's cross country and track teams. A member of Student-Athlete Advisory Committee (SAAC). She is also on the executive board of Tulane's Earth Science Club, served as treasurer for the past two years and will be president this upcoming year.



Nadim Abu Hashmeh

\$2,500 NOGS
George W. Schneider
Scholarship

Nadim is pursuing a PhD in Earth and Environmental Sciences at Tulane University. Specifically, he uses remote sensing datasets collected from Mars to study the nature of a vast volume of water ice found at the planet's south pole. These south polar layered deposits contain varying amounts of dust from different climatic environments driven by the planet's orbital dynamics, providing a laboratory for interdisciplinary planetary studies.

Previously, Nadim earned his undergraduate degree in Earth and Planetary Sciences at University of California, Santa Cruz. His thesis project examined the characteristics and possible evolution of icy morphologies on the surface of Pluto. Upon completion of his Bachelor's, Nadim spent time in lab and research positions, including a cosmochemistry lab at UC Santa Cruz and a Cassini image analyst at SETI and NASA Ames. His work in these positions explored a range of geoscience topics, exposing him to a diverse array of subfields and research questions that continue to inform his thinking and motivate his pursuit of geoscience research after graduate school.

Outside of his academic interests, Nadim enjoys discovering and listening to new music, riding his bicycle, playing guitar, and complaining about the weather.



Jose Silvestre

\$3,000 J.A. Gilreath
Graduate Scholarship

Jose is a 2nd year Ph.D. student at Tulane University, studying the surface processes and stratigraphy in delta-marsh systems. My current work deals with using physical laboratory experiments to understand the implications of organic sediment deposition resulting from marshes on deltaic stratigraphy. I am originally from Gonzales, TX, and obtained my B.S. in Geology from The University of Texas at San Antonio in 2019. Prior to graduate school, I interned at the Edwards Aquifer Authority in San Antonio.



Trap Puckette

\$2,000 Jules & Olga
Braunstein Memorial
Scholarship

Trap Puckette is Honors student at Tulane University pursuing a major in Geology and minor in Mathematics. Growing up in the South Carolina Lowcountry, he has always loved spending time outdoors and on the water. Trap's interest in Geology comes from a deep-rooted appreciation for coastal landscapes. Going to school in New Orleans and learning more about wetland loss in the Mississippi delta has highlighted to him the importance behind studying the geologic history and structure of the coast. In his free time, Trap enjoys fishing and serves as a Student Ambassador for CRCL. With his education, he hopes to contribute to ongoing research regarding the management of coastal systems as a habitat and a resource.

LSU

2021 Scholarship Recipients



Larry F. Tuttle Jr.

\$3,000 Lee H. Meltzer
Graduate Scholarship

Larry has had a fascination for science since he was a boy and saw dinosaur fossils for the first time at the Denver Museum of Nature and Science. His interests steadily shifted from paleontology to geology. He chose to enroll at Texas A&M as a geology major and while he liked all of the geology courses, Igneous and Metamorphic Petrology stood out among the rest. Metamorphic petrology combines his interests in deep earth history with his affinity for chemistry. Larry looks forward to a career as a metamorphic petrologist. Research interests continue to develop as he is exposed to new topics. His professional career will likely focus on high-grade, particularly high temperature metamorphic rocks like migmatites. Larry has been a Graduate Teaching Assistant at LSU since 2018. His hobbies include reading sci-fi, field trips and spending time with family, friends and his dog.



Mallory Pilié

\$2,000 Jules & Olga
Braunstein Memorial
Scholarship

Mallory was awarded a graduate research assistantship at the CENEX lab at LSU to work under Dr. Sophie Warny on a National Science Foundation funded project entitled "Fungi in a Warmer World." She displays superior academic achievement as exhibited by various scholastic awards and strong undergraduate GPA. Mallory has a genuine interest in geology that drives me to continue learning. she has perseverance and tenacity that allows her to overcome obstacles and was still able to thrive at field camp, and was even awarded the Golden Rock Hammer Award. Her long-term goals of obtaining a master's degree in geology and ultimately joining the workforce as a recognized scientist

Mallory's role as Project Coordinator for the Louisiana Board of Professional Geoscientists and memberships in various geoscience organizations have provided the opportunity to view academia, oil and gas, conservation, and government regulation. Her love for micropaleontology, will continue making scientific contributions throughout her life.



Seija Meaux

\$2,500 George
W. Schneider Memorial
Scholarship

Seija has always had an affinity for the natural world and understanding how things around us work. Seija's father was a professional geologist in Canada, so undoubtedly some of his enthusiasm for earth science was passed on to her. Seija is well on her way to earning her degree, and plans to be the first woman in her family to pursue a career in the sciences. After graduation, she looks forward to a position in the geosciences industry. She hopes to increase her knowledge in a variety of areas and get more hands-on experience in the field and office. Seija uses her GIS skills in ways that will help further our understanding of climate change and water management. She plans to go to graduate school in the future. Since January 2021 she has been a Student Ambassador for the Coalition to Restore Coastal Louisiana. She is currently working on a creative project focused on Blue Carbon, and how coastal plants can reduce levels of carbon dioxide. She ran her first quarter marathon this year, plays tennis and is a member of the LSU Rowing Club.



Jonothan Patrick Chappell

\$2,500 Jules & Olga
Braunstein Memorial
Scholarship

Jonothan Patrick Chappell is a third-year undergraduate student at Louisiana State University majoring in geology. Geology has been his passion for nearly his entire life. Like many of us, he began as a rock collector and his interest grew after he delved into geologic literature. From that point on, his knowledge became his pride. Within the first month of entering LSU, he became an employee within Dr. Bentley's sedimentology lab. As an undergraduate, academics were the utmost priority and that was also reflected through Dr. Bentley. He started his research career as an assistant for other PhD students' research: first, running sediment samples through a germanium gamma detector; then, collecting water column samples from along the flood plain to evaluate volumetric masses of sand, silt, and clay to determine how to redirect the Mississippi to preserve the coast and wetlands. In addition, his classwork has provided the necessary background to enter the field of geology. There are many more subcategories of geology to explore before choosing one to pursue as a career. Thank you, NOGS Memorial Foundation, for providing the means to do so!



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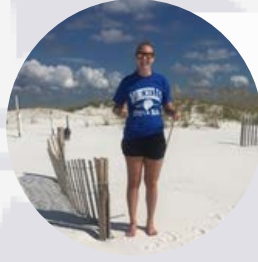
2021 Scholarships Recipients



Brittany George

\$2,500 Jules & Olga
Braunstein Memorial
Scholarship

Brittany George is a candidate for a masters degree at the University of New Orleans and a resident of Chalmette. She graduated in 2018 cum laude from the University of New Orleans before studying for two years at the University of Copenhagen in Denmark. It was there where she studied the petroleum system of the North Sea with fieldwork on outcrops along the Jurassic Coast, England. Since 2020 she has been back in New Orleans and has been studying the effect of localized subsidence due to fault movement near St. Rose, Louisiana. Her interests include green infrastructure, cooking international recipes, and traveling throughout Eastern Europe.



Marley Allen

\$2,000 Jules & Olga
Braunstein Memorial
Scholarship

Ph.D. candidate Marley Allen is from Lexington, Kentucky. She completed an undergraduate degree in natural resources and environmental science at the University of Kentucky and then completed a GIS certificate at Bluegrass Community and Technical College. She attended the University of West Florida for her masters degree in environmental science with a focus on examining the influence of sand fences on wind flow and sand accumulation. When she is not working on her academics she enjoys running around with her chocolate lab.



Breanna Roberts

\$2,500 NOGS Memorial
Foundation Scholarship

Breanna Roberts was born and raised in the New Orleans area which is why she decided to attend the University of New Orleans. Currently, she is majoring in Earth and Environmental Sciences with a concentration in geosciences. She hopes to attend graduate school at the University of New Orleans as well, and use her education and knowledge to become an environmental consultant and help the city and state. In her opinion a career that provides the opportunity to protect the environment would be very fulfilling.



Miranda Brengartner

\$3,000 Richard W.
Boebel Graduate
Scholarship

Miranda Brengartner is a senior at UNO. For the past several semesters she has been working on a grain size analysis project of the Wax Lake Delta with Dr. Robert Mahon. Her research focus is to find the total suspended solids and grain size distribution of suspended and bed samples in the Wax Lake System to incorporate into a geographic information systems project that will examine the Wax Lake Delta evolution. Ultimately these data will be incorporated into a numerical model focused on understanding the Wax Lake sediment dispersal patterns and growth. Her primary interests are in the areas of geomorphology and sedimentology and she plans on pursuing a master's degree after graduation from UNO.

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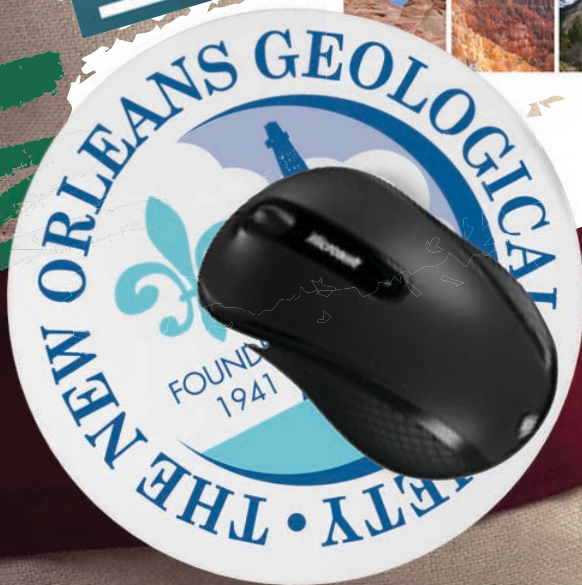
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Mark
your
Calendar

The American Geophysical Union's Fall Meeting (#AGU21: Science is Society) is scheduled for December 13-17, 2021 in New Orleans, LA. This will be a hybrid meeting of Earth and Space Scientists, students and other scientists from diverse disciplines who will present their findings and solutions in person and online.

[Click here for more information](#)

A call for papers for The Society of Applied Geoscientist and Engineers has been announced for the SAGE 2022 conference March 23 -25, 2022 in Lafayette, LA

[Click here for more information](#)

SAGE2022

Society of Applied Geoscientists & Engineers 23-25 March 2022 ♦ Lafayette, LA

1st SAGE Convention and Exposition—
A Hybrid Conference on
Applied Geoscience & Engineering

March 23-25, 2022 • Lafayette, Louisiana

Mark Your Calendar Information Packet including Call for Papers

Hosted by the SAGE Acadiana Chapter,
Lafayette Geological Society &
Association of Applied Geoscientists



www.sagetechnology.org

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SAGE2022

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AAG Association of
Applied Geoscientists
Linking Geoscience with Application



Travis A. Helms



Membership Levels & Dues

Professional, \$25; Associate, \$25; Student, \$10 (80% of student dues are returned to official student chapters).

Become a Cornerstone Member for Special Recognition in Supporting SAGE, esp. our K-12 SAGEkids & SAGEteens initiative, student research grants, and more.



JOIN US AT GEOGULF 2021! SAGE is a proud Gold Sponsor of GeoGulf 2021 (71st GCAGS/AAPG GCS/GCSSEPM conference), 27-29 Oct., 2021, in Austin, Texas. We are the sole sponsor of the Presidents Reception, a happy hour type event with the GCAGS, GCSSEPM, AAPG, and SEPM presidents, and the SAGE President as well (5-6:30 pm, 28 Oct.). Also, if you're attending GeoGulf 2021, please visit us at Booth 11, next to the GCAGS Bookstore. For more information, please visit www.geogulf2021.org.

SAGE2022

Society of Applied Geoscientists & Engineers 23-25 March 2022 ♦ Lafayette, LA

General
Information

We are excited to announce our first international conference, **SAGE 2022**, a **hybrid event** of both speakers and attendees focusing on aspects of Applied Geoscience and Engineering. We are planning 3-4 concurrent hybrid sessions and additional live virtual-only sessions, with post-convention on-demand access to presentations (speakers permitting) for all attendees. Come join us and enjoy some Cajun hospitality with our Icebreaker event on Wednesday evening. Complimentary Lunches on both Thursday and Friday, and Happy Hour on Thursday evening.

- 3-4 Hybrid Sessions with additional Live Virtual Sessions
- Post-Convention On-Demand Access to All Presentations (speakers permitting) for All Attendees
- Digital Copy of the *SAGE Record* conference proceedings
- Continuing Education Short Courses and Field Trips
- Student Poster Session and Expo
- Exhibits and Prospects
- SAGEkids & SAGEteens Activities
- Lots of food and drink, including our Icebreaker on Wed. night, complimentary lunches on Thurs. and Fri., morning and afternoon snacks, and our Happy Hour on Thurs. evening, followed by our Banquet Dinner honoring some legends of applied geoscience and engineering.
- Golf Tournament
- And More!

Anticipated Registration Costs*

Professional Early-Bird: \$225 member / \$250 nonmember*
Professional Virtual Early-Bird: \$75 member / \$100 nonmember
Student Early-Bird: \$65 member / \$75 nonmember
Student Virtual Early-Bird: \$30 member / \$40 nonmember

*Member discount is equivalent to annual dues. Speakers receive additional 10% discount.

SAGE2022

Society of Applied Geoscientists & Engineers 23-25 March 2022 ♦ Lafayette, LA

SAGE 2022
Call for Papers

1st SAGE Convention and Exposition—
A Hybrid Conference on Applied Geoscience & Engineering
March 23-25, 2022 • Lafayette, Louisiana
www.sagetechnology.org

Join us for our 1st conference and exposition and enjoy some Cajun hospitality at the Petroleum Club in Lafayette, Louisiana, for lots of food and drink (Icebreaker, Happy Hour, and Complimentary Lunches) as well as multiple hybrid sessions on key applied geoscience & engineering topics, continuing education program, student poster session and expo (including SAGEkids & SAGEteens), and more!

SAGE 2022 Proposed Session Themes

- Oil & Gas Exploration and Development
- Drilling and Logging Appl. & Tech., including **Special Symposium on Image Logging**
- Onshore and Offshore Regulations and Law
- Geoscience Applications of Machine Learning and Artificial Intelligence
- Carbon Capture, Utilization, and Storage Applications & Technology
- Geothermal Energy Applications & Technology
- GIS Technology and Applications
- Cuttings and Core Analysis, including **Special Symposium on Chemostratigraphy**
- Geomodelling and Applications
- Subsurface Characterization and Imaging
- Geoscience Applications of Drone Technology
- Gulf Coast Sedimentology, including **Special Symposium on the Gulf Jurassic**
- Geomechanics—Conventional and Unconventionals
- And more! Please let us know if you're interested in helping organizing the above or additional sessions.

Professionals and Students: We welcome you to submit an abstract or extended abstract (preferred) to sage2022@sagetechnology.org for consideration of oral or poster presentation by Dec. 15, 2021. Please do consider early submission. Physical presentations preferred, although we do have limited virtual slots available. Attendees will be both physical and virtual.

Accepted speakers are encouraged to expand their initial submission to an extended abstract or full paper for publication in our conference proceedings, the *SAGE Record*, by Jan. 15, 2022. We are also considering Special Publication volumes on Chemostratigraphy, the Gulf Jurassic, and Image Logging Technology & Applications for post-convention release. Please inquire further at: publications@sagetechnology.org.



As part of our key initiative to encourage K-12 participation in the applied geosciences and engineering, we are planning a special program for the future of our industries, including science fair (with publication in *SAGEkids Research* and *SAGEteens Research*), fossil dig for primary students, short course for K-12 educators, and more.

The Society of Applied Geoscientists and Engineers presents:

SAGE 2022

March 23-25, 2022
Lafayette, Louisiana



www.sagetechnology.org

General Sponsorship

- ☐ Diamond (5) \$20,000+
- ☒ Sapphire (3) \$10,000+
- ☐ Platinum (2) \$5,000+
- ☐ Gold (1) \$2,500+
- ☐ Silver (1) \$1,000+
- ☐ Bronze (1) \$500+
- ☐ Patron \$100+
- ☐ Friend \$25+

Sponsorship Benefits Include:

Based on level of sponsorship, a mix of benefits including:

- Bronze and higher SAGE 2022 sponsorships receive Complimentary Registration Passes (# in parentheses above/double if virtual only)
- Directed Sponsorship Opportunities
- Onsite and Website Signage
- SAGE Record and SAGE MAGE ads
- Announcement & Convention Program Books

☐ Invoice Immediately

Directed Sponsorship Examples

- ☐ Icebreaker Reception \$20,000
- ☐ SAGE Record \$10,000
- ☐ President's Reception \$10,000
- ☐ Awards Banquet \$10,000
- ☐ All-Convention Luncheon \$10,000
- ☐ Cash Bars \$5,000
- ☐ Golf Tournament \$5,000
- ☐ Luncheons/Breakfast \$5,000
- ☐ Other Events \$500 to \$5K+

For complete listing discuss with SAGE 2022 Sponsorship Rep shown below

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For your tax records, we are a 501(c)(6) tax-exempt educational organization, tax ID number 87-1323954.

Return with shaded areas filled-in to: James J. Willis, james.willis@sagetechnology.org or jwillis3@lsu.edu

SAGE2022

Society of Applied Geoscientists & Engineers 23-25 March 2022 Lafayette, LA

SAGE 2022 Sponsorship Opportunities

THANKS IN ADVANCE to the sponsors of SAGE 2022 to be March 23-25, 2022, in Lafayette, Louisiana! Your support is essential for the success of this meeting and is appreciated.

DIAMOND (\$20,000+)

5 comp full SAGE 2022 registrations • comp Diamond Cornerstone Membership • full color 2-page ad spread with bleed to edge of page in the SAGE Record, our conference proceedings, pre-convention issues of the SAGE MAGE, our newsletter magazine, Announcement Brochure, Convention Program, and on website • targeted sponsorship available (e.g., solo Icebreaker sponsor or solo SAGE Record sponsor) • prominent logo placement in full color on inside front or back cover of the SAGE Record, website, and convention signage • name on sponsor list (all publications, convention signage, and website).

SAPPHIRE (\$10,000+)

3 comp full SAGE 2022 registrations • comp Sapphire Cornerstone Membership • full color 1-page ad with bleed to edge of page in the SAGE Record, pre-convention issues of the SAGE MAGE, Announcement Brochure, Convention Program, and on website • targeted sponsorship available (e.g., extra drink ticket, half Icebreaker sponsor or half the SAGE Record sponsor, or other activities, e.g., all-convention luncheon) • prominent logo placement in full color on inside front or back cover of the SAGE Record, website, and convention signage • name on sponsor list (all publications, convention signage, and website).

PLATINUM (\$5,000+)

2 comp full SAGE 2022 registrations • comp Platinum Cornerstone Membership • 1/2-page ad in the SAGE Record, pre-convention issues of the SAGE MAGE, Announcement Brochure, and Convention Program, and on website (color for digital versions/greyscale for printed); targeted sponsorship available • logo placement on website and convention signage • name on sponsor list (all publications, convention signage, and website).

GOLD (\$2,500+)

1 comp full SAGE 2022 registration • comp Gold Cornerstone Membership • 1/4-page ad or logo space in the SAGE Record, pre-convention issues of the SAGE MAGE, Announcement Brochure, and Convention Program, and on website (color for digital versions/greyscale for printed); targeted sponsorship available • logo placement on website and convention signage • name on sponsor list (all publications, convention signage, and website).

SILVER (\$1,000+)

1 comp full SAGE 2022 registration • comp Silver Cornerstone Membership • 1/8-page ad in the SAGE Record, pre-convention issues of the SAGE MAGE, Announcement Brochure, and Convention Program, and on website (color for digital versions/greyscale for printed); logo placement on website and convention signage • name on sponsor list (all publications, convention signage, and website).

BRONZE (\$500+)

1 comp full SAGE 2022 registration • comp Bronze Cornerstone Membership • name placement in all digital and printed publications, including the SAGE Record, pre-convention issues of the SAGE MAGE, Announcement Brochure, and Convention Program, and website.

Patron (\$100+)

Complimentary digital copy of the 2022 SAGE Record • comp Patron Cornerstone Membership • name placement in all digital and printed publications, including the SAGE Record, pre-convention issues of the SAGE MAGE, Announcement Brochure, and Convention Program, and website.

Friend (\$25+)

Complimentary digital copy of the 2022 SAGE Record • comp Friend Cornerstone Membership • name placement in all digital and printed publications, including the SAGE Record, pre-convention issues of the SAGE MAGE, Announcement Brochure, and Convention Program, and website.

Contact us at 337-277-3652 or sage2022@sagetechnology.org

SAGE2022

Society of Applied Geoscientists & Engineers 23-25 March 2022 Lafayette, LA

Exhibitor Information

Want to engage with the SAGE 2022 attendees and promote your company or organization? Consider signing up for exhibitor space at an affordable cost—10'x10' commercial booth (\$1200) or non-profit (\$600). Each exhibitor booth includes 2 complimentary full registrations. Space is limited so reserve your space early.

Please contact sage2022@sagetechnology.org for more details.

Student Poster Session & Exposition (including SAGEkids & SAGEteens activities)

As an integral part of SAGE 2022, we are pleased to announce our plans for a student exposition, including a dedicated student poster session, short courses and workshops, networking opportunities, and other activities.

Student Poster Session: Abstract submission is now open. Please note that slots are limited so we encourage early submission to ensure placement in the program. Submit to: sage2022@sagetechnology.org. Depending upon funding, we anticipate cash prizes for best student poster awards!

Professionals: Interested in interview space, sponsorship, or participating in resumé building workshop, education forum, etc.? Please contact sage2022@sagetechnology.org.

WE ARE SEEKING CORPORATE SPONSORSHIP FOR THIS EVENT.
Please contact James Willis at james.willis@sagetechnology.org or jwillis3@lsu.edu or 1-337-277-3652.



As part of our key initiative to encourage K-12 participation in the applied geosciences and engineering, we are planning a special program for the future of our industries, including science fair (with publication in SAGEkids Research and SAGEteens Research), fossil dig for primary students, short course for K-12 educators, and more.

SAGE

Society of Applied Geoscientists & Engineers

Our mission is to advance the applied geoscience and engineering professions through research, scholarship, and enjoyment.

Interested in:
Joining SAGE?
Participating in SAGE 2022?
Supporting our SAGEkids & SAGEteens Initiative?
Volunteering?
Publishing?
Starting a Professional Chapter?
Starting a Student Chapter?



Please visit us at:
www.sagetechnology.org



The LSU Center for Energy Studies presents

Gulf Coast Energy Outlook 2022
Kickoff Zoom Webinar

Free Zoom Webinar
Wednesday, November 17, 2021
10 a.m. – 11 a.m.

What are crude oil and natural gas prices likely to do in the near future?
How will crude oil and natural gas drilling and production change over the
next year and beyond?

What is the outlook for energy and industrial capital investment for the
region?

Will industry's response to COVID-19 persist into a post-pandemic world?

Have the fundamental relationships between energy consumption and
economic activity changed as a result of the global pandemic?

How might offshore activity be impacted by leasing restrictions?

How have the 2020 and 2021 hurricane seasons impacted regional energy
infrastructure investments?

What risks might new trade policies with China pose for Gulf Coast energy
production and exports?

Speakers

David Dismukes, professor and executive director, Center for Energy Studies

Greg Upton, associate professor, Center for Energy Studies

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