

NOGS LOG

OCTOBER 2017

Volume 58, Number 4



OCTOBER 2 - NOGS LUNCHEON

Presentation: Great White Field: A Near Perfect Petroleum System
in the Perdido Fold-belt, Gulf of Mexico

Guest Speaker: Toby A. Roesler

Stone Energy Corporation • New Orleans, Louisiana



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Published monthly by the New Orleans Geological Society. This issue was sent to press on Sept. 23, 2017.

Interested in contributing to the NOGS LOG?

Please submit items by the 1st Friday of the month to nogseditor@gmail.com. Advertising requests should contact the NOGS office at info@nogs.org.

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ON THE COVER

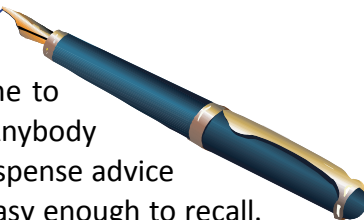
***Cover Photo: courtesy of Tom Brewer Photography
as reprinted by Bureau of Land Management***

California Wind Farm — California

This month's cover photo comes from BLM's coverage of the important role public land across the United States plays in energy production. Most Gulf Coast readers are well familiar with the sight of an oil rig or pump jack but perhaps less so with the expansive wind farms than can be found in the western part of the country. The wind turbines pictured above are part of California's Desert Renewable Energy Conservation Plan (DRECP), a 2016 initiative between California Energy Commission, California Department of Fish and Wildlife, the U.S. Bureau of Land Management, and the U.S. Fish and Wildlife Service. DRECP makes up a major part of California's efforts in developing a more robust renewable energy portfolio. It covers approximately 22.5 million acres of California desert and works to conserve desert ecosystems and facilitate outdoor opportunities.

From the Editor

While recently chatting about the job market for geologists, someone asked me to identify the bad advice and the good advice I received while on the job search. Anybody who's recently looked for jobs can attest that well-intentioned bystanders often dispense advice regardless of whether it's been solicited. The bad or unhelpful commentary was easy enough to recall. "Don't worry! Oil is on the upswing, and you're young anyways." (That upswing is debatable, and young adults have bills too. Besides, not everyone wants an oil job.) "Just work hard. Things will work out." (Please, please, please resist the urge to say this. It is kind and means well but brings no comfort.) The good advice was more rare and precious. "Don't be embarrassed to ask for help." "Work on your writing. It might not pay the bills now, but it could open some doors." "Send out applications and emails even when you're stressed and worn down. You can't let the process beat you." But the best advice wasn't given to me. Instead, it was demonstrated to me by many of the people who read this newsletter. "Keep busy. Whether it's church, Junior League, NOGS, YLC, etc., find something you enjoy where people care what you have to say and challenge you. It'll ease the bad days and keep you sane through the misery of unemployment and filling out applications." Maybe it'll never go on an inspirational poster, but that doesn't make it less true.



Laura
Laura Sorey, Editor



Contact:
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info@nogs.org

2017 ADVERTISING RATES

The New Orleans Geological Society was formed in 1941, with an initial membership of only 55. It has always been an active professional society and presently has a membership of 500.

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Eighth Page (3.75"x2.5")	\$600	\$300
Twelfth Page (3.75"x1.65")	\$375	\$188
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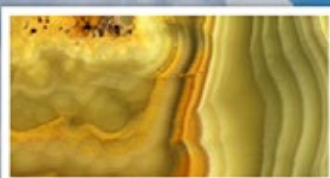
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FROM THE
PRESIDENT
CHRIS McLINDON

The largest earth science convention in the world will convene in New Orleans in less than two months. This is both a cause for celebration and a call to action. The Fall Meeting of the American Geophysical Union will probably bring close to 20,000 attendees to the city. Technical sessions will run the gamut from deep crustal processes to changes in the atmosphere. Every member of NOGS should consider attending the convention for at least one day. Pick out a session of interest and then stick around to discuss the science with others in attendance. This is the essence of what science is about, and it is through this type of interactive engagement that we can keep earth science alive and relevant in our society. As members of a professional geological society, we all have a certain responsibility to continue to educate ourselves about earth sciences and to participate in public conversations.

The importance of earth science plays out in the headlines almost every day. The tens of billions of dollars in flood-related damage experienced over the last few years point to a need to improve our understanding of flood cycles and natural drainage patterns. It also highlights the need to make the science behind that understanding accessible to the public and to integrate it into regional planning in a meaningful way. Earth science has also tended to take a back seat in south Louisiana's coastal sustainability planning. In the words of Len Bahr who ran the coastal program under four governors:

"Since its very inception in 1989 Louisiana's coastal restoration program has been dominated

by coastal wetland ecologists like me, folks who deal in relatively short-term surface processes, not the long term geophysical and riverine processes that underlie the delta. In other words, the planning expertise has been dominated by those who deal primarily with surface processes on the visible veneer of the delta, not the riverine hydrodynamics and sedimentary processes that created the delta and the underlying tectonic processes and shallow and deep subsidence to which the delta ultimately responds. It's a pity that the folks who described in great detail the ontogeny of the largest delta in North America and who performed the forensic work on delta dysfunction were only recently invited to the planning table...after key restoration plans had already been drawn up."

Fortunately, it is never too late to start doing geology. The responsibility of integrating earth science into the workings of our society rests squarely on the shoulders of earth scientists. If we don't work to bring it to the forefront, who will? I am proud to say that NOGS is already engaged in this effort. Four of the university research projects for which NOGS provided seismic data have been submitted to the AGU Fall Meeting for presentation. Energy Day at the Louisiana Children's Museum on September 16th was a big success. As organizer Tom Bergeon said "if we just get through to one kid, it was all worthwhile." My personal favorite was the virtual reality tour of a deep water facility provided by Shell. I can honestly say that it blew my mind. The October luncheon speaker will be Toby Roesler of Stone Energy. It is always gratifying to have one of our own members as a speaker. The efforts put forward by Tom and Toby embody the spirit of working to promote earth science.

The AGU Fall Meeting offers an excellent opportunity for every member of NOGS to participate in the promotion of earth science. It will also provide a great opportunity for us as residents to promote our city to the visiting attendees. I hope to see you there.

Chris McLindon



NOGS Office

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Correspondence and all luncheon reservations should be sent to the above address.

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October 2 • NOGS Luncheon

Holiday Inn Downtown Superdome

\$3.00 validated parking in hotel garage

Presentation:

*Great White Field: A Near Perfect Petroleum System
in the Perdido Fold-belt, Gulf of Mexico*

Guest Speaker:

Toby A. Roesler

Stone Energy Corporation • New Orleans, Louisiana

See pages 8 and 9 for Abstract and Biography

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Check with concierge or
front desk for location.

Lunch served at 11:30 am

ADMISSION:

With reservation..... \$30.00

Without reservation \$35.00

Student Member with reservations..... FREE

October 7

NOGS Fall Kick Off Party

Rock-N-Bowl • 4:30-7:00 • 3000 S. Carrollton Ave., New Orleans, LA

For more info: annette@nogs.org or 504-561-8980

**VOLUNTEERS
NEEDED!**

October 21

Girl Scouts Believe in Girls (B.I.G.) Event

UNO Campus • New Orleans, Louisiana

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October 13-15

47th Annual New Orleans Gem and Mineral Show

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For more information, www.facebook.com/GemAndMineralSocietyOfLouisiana/

October 24-26

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Cajundome and Convention Center • Lafayette, LA

For more info: <http://www.lagcoe.com/home-expo>

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Oct 2 NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

Great White Field: A Near Perfect Petroleum System in the Perdido Fold-belt, Gulf of Mexico

Presented by

Toby A. Roesler

**Chief Geoscientist — Deepwater Exploration
Stone Energy Corporation • New Orleans, Louisiana**

ABSTRACT

Great White Field in the Perdido Fold Belt is the preeminent Lower Tertiary field in the Deep Water Gulf of Mexico in terms of cumulative production. The field has produced over 124 MMBO and 249 BCF from a single zone, the WM12 Sand, since production started in 2010.

The WM12 reservoir differs from many of the other Wilcox reservoirs found to the east in Keathley Canyon and Walker Ridge in that its reservoir fluids are high GOR (~2000) and that oil bearing sands are seismically characterized as Direct Hydrocarbon Indicators.

The Wilcox reservoirs at Great White (GW) are composed of turbidite sands that were sourced from the NW and deposited in a near flat abyssal setting. Specifically, the WM12 is Lower Eocene in age (~50Ma). The trapping structures were formed by compressional tectonism that initiated near Frio time (28Ma) creating NNE-SSW trending anticlines. These structures were later subjected to significant extensional faulting.

For a sand with a gross thickness less than 150', the WM12 Sand uniquely forms one hydraulically connected reservoir across the structure and across numerous fault blocks. The proven oil column or Lowest Known Oil (LKO) extends past the structural spill point of

the GW structure indicating that the field has a stratigraphic element to its trap.

Basin Modelling was conducted to determine the timing of the critical elements that created the WM12 oil reservoir. Tithonian age shales (141Ma) are assumed to be the hydrocarbon source rocks for the field. Thermal Modelling and Structural Reconstruction indicate that an area to the east of the GW structure would have been in the peak oil expulsion window during the Upper Oligocene shortly after the formation of the GW structure and before the extensional faulting. This allowed oil charge across the whole structure prior to segmentation by later normal faulting with magnitudes greater than the sand thickness.

The WM12 interval thickens towards the SW onto the adjacent Lamprey structure. The LKO at GW extends across the saddle connecting these structures such that if the WM12 sand were to be contiguous across the saddle then the Lamprey WM12 could be considered to be proven oil bearing. Geophysical modelling and processing were used to determine if the acoustic characteristics at Lamprey are consistent with a thick, oil-bearing WM12 sand. The Lamprey structure is currently unleased.



BIOGRAPHY

Toby Roesler is a geophysicist who has been employed by a number of oil and gas companies in New Orleans for nearly 30 years. He has primarily worked exploration projects in the DW GOM but has also worked projects in the onshore Gulf basin, DW Brazil, offshore West Africa, and in north and south Alaska. He also mentors students at the University of New Orleans and the University of Western Kentucky for the AAPG Imperial Barrel Award competition. He is currently Chief Geoscientist at Stone Energy.

**THE OCTOBER LUNCHEON RESERVATION DEADLINE IS SEPT 29.
CONTACT THE NOGS OFFICE**

"And Looking Ahead . . ."

The next luncheon will be held on November 6. Our guest speaker will be Dr. Jeffrey S. Hanor of the LSU Geology & Geophysics Department. Contact the NOGS office at 504-561-8980 or use the PayPal link at www.nogs.org to make your reservation.

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CALENDAR OF EVENTS: OCTOBER — NOVEMBER 2017

If you know of upcoming seminars or academic events that may be of interest to our members, please email the event details to Laura Sorey at nogseditor@gmail.com to be included in the monthly calendar.

2017	EVENT	LOCATION	CONTACT / INFO
2 Oct	NOGS Luncheon Speaker: Toby Roesler "Great White Field: A Near Perfect Petroleum System in the Perdido Fold-belt, Gulf of Mexico"	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
6 Oct	LSU G&G Lecture Series "Perchlorate from Atmosphere to Aquifer: Quadruple Isotope Tracing and Forensic Applications" Neil Sturchio, University of Delaware	LSU Baton Rouge E137 Howe-Russell-Kniffen 3:30 pm	http://www.lsu.edu/science/geology/seminars/item72050.php
7 Oct	NOGS Fall Kick Off Party	Rock-n-Bowl • 4:30-7:00 3000 S. Carrollton Ave. New Orleans	annette@nogs.org or 504-561-8980
9 Oct	Columbus Day		
12 Oct	Deadline for AAPG ACE 2018 Abstract Submissions		http://ace.aapg.org/2018
13 Oct	LSU G&G Lecture Series "Can Continental Margin Sediments be Globally Correlated During Large Amplitude, Glacio-Eustatic Fluctuations?" Ceclia McHugh, Queens College	LSU Baton Rouge E137 Howe-Russell-Kniffen 3:30 pm	http://www.lsu.edu/science/geology/seminars/item72050.php
13-15 Oct	New Orleans Gem and Mineral Show	Alario Center Westwego, LA	
17 Oct	SIPES Luncheon • 11:30 a.m.	Andrea's - Metairie	Carol St. Germain 504-267-3466
20 Oct	Tulane Geology Seminar "EarthScope" Carl Tape, University of Alaska Fairbanks	Tulane University Boggs Center: Room 243 Noon	http://www2.tulane.edu/sse/eens/events-and-seminars/seminars/index.cfm
21 Oct	Girl Scouts Believe in Girls (B.I.G.) Event	UNO Campus	Interested volunteers should contact tom.bergeon@upstreamexp.com or 504-832-3772
24-26 Oct	LAGCOE Expo	Cajundome and Convention Center Lafayette, LA	www.lagcoe.com/home-expo
30 Oct	Halloween		
1-3 Nov	2017 GCAGS-GCSSEPM Convention	Marriott Rivercenter San Antonio, Texas	www.gcags2017.org/
3 Nov	End of Early Registration Discount for AGU Fall Meeting		https://fallmeeting.agu.org/2017/registration/
6 Nov	NOGS Luncheon Speaker: Dr. Jeffrey S. Hanor "The Potential for Subsidence Resulting from Subsurface Dissolution of Salt"	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
7 Nov	Election Day		
8 Nov	Joint Energy Industry Association Luncheon "A Case for the Growth of Louisiana's Oil and Gas Industry" Speakers: Sharon Hewitt, LA State Senator, District 1 Dr. Gregory Upton Jr., Assistant Professor at the Center for Energy Studies, LSU	Marriott at the Convention Center New Orleans, LA	http://www.api-delta.org/events/gno-joint-energy-industry-association-luncheons.aspx

New Orleans Geological Auxiliary News

"The objective of the Auxiliary is to promote fellowship among the wives of the members of the New Orleans Geological Society and to render assistance to NOGS upon request."

NOGA First Luncheon

The ladies of the Auxiliary gathered for their first luncheon of the 2017-18 season on Wednesday, September 13 at the lovely home of Camille and Jim Yeldell in Old Metairie. Retta Stephens and Mary Walther served on the committee with Camille. Decorations throughout the house included white orchids and red roses. Red roses had been on the invitation border. The menu included different salads catered by Peggy Fisk. Additionally, there were several desserts made by Camille. Mimosas, wine and iced tea were available in the living rooms.

As the ladies sat around eating, much of the talk revolved around how fortunate we were to have avoided the hurricanes so far this season but feeling so sorry for all those involved. On the brighter side, we heard of some of the more exciting vacations some of our members had during the summer. Alma Dunlap celebrated a milestone birthday with a cruise aboard the *Oasis of the Seas* where she zip-lined across the ship. She continued the celebration at home with parties and luncheons with family and friends. Trez and Jim Zokiewicz and daughter Claire visited New York and Boston where they toured the historical sights. While there, they attended a show on Broadway and a game at historic Fenway Park. We missed Beverly Kastler but were happy to hear that she was visiting her daughter and grandsons in Kansas City.



*Retta Stephens, Camille Yeldell,
Mary Walther*



Trez Zokiewicz, Mary Walther, Penny Bryant

The members of the Auxiliary were deeply saddened with the passing of longtime, very active member Earleen Rodan. She had held many offices including President. Our prayers go to her family and the families of Dorothy Jean Hill, who lost her husband Bernie, and of Alice Johnson, who lost her husband Art this summer.

We look forward to our next luncheon, which will be on November 8 at Heritage Grill.

Mary Walther, NOGA Director

New Orleans Geological Auxiliary Membership Application

Name _____ Spouse's Name _____
Address _____ Home Phone _____
City, State, Zip _____ Cell Phone _____
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Dues: \$25 payable to New Orleans Geological Auxiliary
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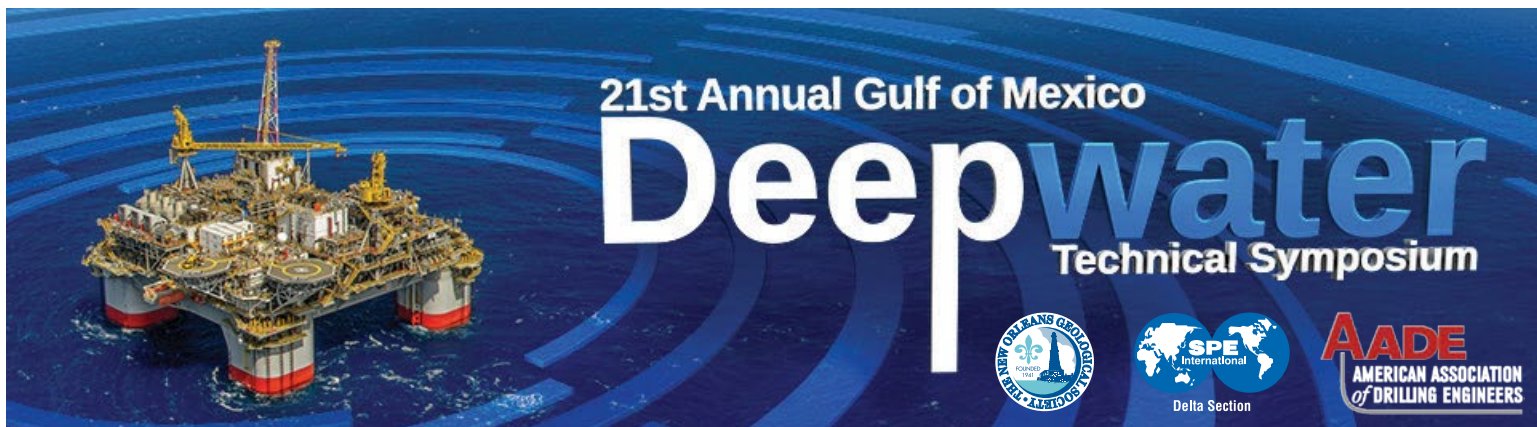


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The 21st Annual Gulf of Mexico Deepwater Technical Symposium was held August 21-23 at the Marriott Hotel at the New Orleans Convention Center. Featuring a Geoscience Seminar led by **John Dribus (Schlumberger)**, keynote talks by **Imran Khan (Wood Mackenzie)** and **Joe Leimkuhler (LLOG)**, and a plenary session presided over by **Director Scott Angelle (Director of BSEE)**, the well-attended symposium highlighted a wide variety of different topics in today's industry. With sessions featuring drilling, production, geoscience, emerging technology, and student research, attendees had countless opportunities to learn and network over the three-day event.

Chaired by **Sue Barth (Chevron)**, the symposium was made possible by volunteers from the American Association of Drilling Engineers - New Orleans Chapter, NOGS, and Society of Petroleum Engineers - Delta Section. Proceeds from the symposium will be used to support scholarships and other educational efforts promoted by the supporting societies.





South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

LAFAYETTE DISTRICT, ONSHORE AREA

By Kevin J. Trosclair and Carlo C. Christina

BREAKING NEWS

In Avoyelles Parish, **North Bayou Jack Field, (*)**, Sentry Energy Services has drilled the #1 Eagles Ranch, SN 250209, to a total depth of 20,662 feet in a horizontal hole measuring 5,500 feet to test the Austin Chalk. Casing has been set to total depth and the operator has received approval to perforate and frack in the interval from 16,275 feet to 20,563 feet. This well is located 2 miles southwest of nearest production in the field. As stated in the June LOG, a successful completion will possibly kick off a new series of drilling in the area.

Ted Griggs, in a report released in The Advocate, stated that the well is **owned by EOG Resources**, which has leased **130,000 acres or more** in Avoyelles, St. Landry and Pointe Coupee Parishes. A new 3-D seismic program has been completed.

The #1 Eagles Ranch well has been fracked and is now flowing back. We can expect an accurate flow rate in the near future. EOG has been active in the Austin Chalk in **Texas** recently and has successfully completed more than 12 wells, with these wells having averaged more than the **equivalent 2,600 barrels of oil a day**.

NEW LOCATIONS

Tri-C Resources will drill the #1 JOHN HENRY INNABNIT, SN 250439, in **West Starks Field, (A)**, in Calcasieu Parish. The well will be drilled in Sec. 2, 9S-13W to a depth of 12,500 feet to test the Yegua section. It is located one-half mile southeast of a well which was completed in 1995 in a Yegua sand in the interval 11,414 to 11,472 feet, flowing 431 BOPD. It was subsequently re-completed in a deeper sand and has produced for 12 years.

In Jefferson Davis Parish, **West Fenton Field, (B)**, Square Mile Energy will drill the #1 SABINE UPLIFT MIN, SN 250432, to a depth of 10,284 feet to test the Hackberry section. The well is located in Sec. 7, 8S-6W, 1 mile west of 2 wells which have produced from Hackberry sands.

In Livingston Parish, **Livingston Field, (C)**, Strand Energy has permitted the #1 WEYERHAEUSER CO 2, SN 250452, located in Sec. 2, 7S-4E, to a projected depth of 11,500 feet to test Wilcox sands.

This well is located 1 mile southwest of a deep well drilled in 1980 to a depth of 19,500 feet, (SN 165286), to test Lower Tuscaloosa sands. The well was completed in the **Austin Chalk**, and on a 14-day test

recorded its highest flow rate of **2117 BOPD** and **3430 MCFG** through perforations 16,215 to 16,350 feet. The well produced for 5 ½ years with **cumulative production of 291,710 barrels** of oil. Subsequently, several wells were drilled in the area for Chalk production, with very poor results.

Paloma Resources has permitted 2 shallow wells in St. Helena Parish to test seismic bright spot anomalies in Miocene sands. The #1 DENKMANN ASSOC, SN 250448, located in **Day Branch Field, (D)**, in Sec. 11, 1S-6E will be drilled to 4,000 feet. It is located 1 mile east of a well which had been permitted in 2015 by Paloma to a depth of 19,636 feet. The well was not drilled and the permit expired.

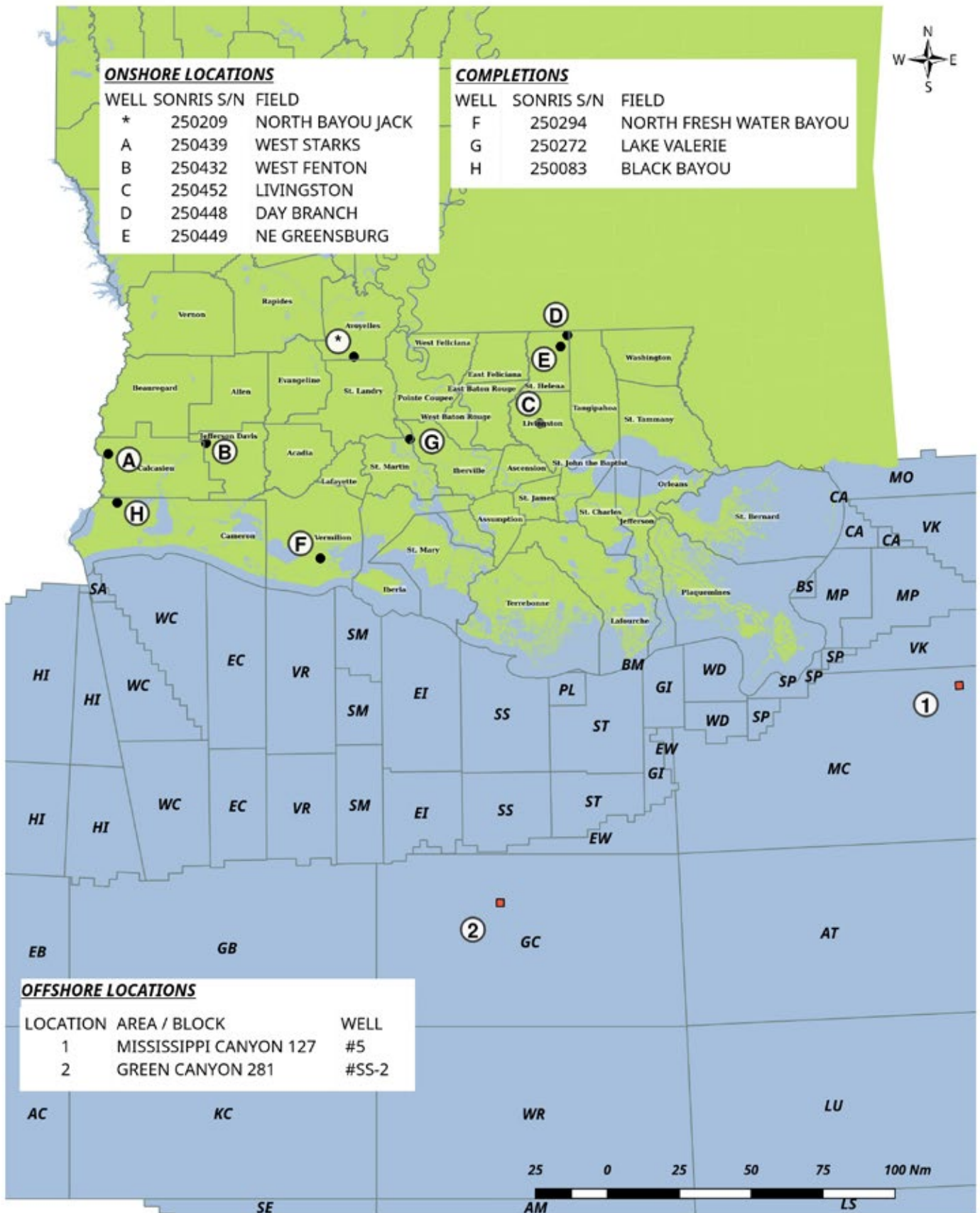
Also in St. Helena Parish, Paloma will drill the #1 DENKMANN ASSOC, SN 250449, in **N.E. Greensburg Field, (E)**, to 4,500 feet in Sec. 5, 2S-6E.

COMPLETIONS

Hilcorp has completed the #34 EXXON MOBIL CORPORATION, (250294), in **North Fresh Water Bayou Field, (F)**, Vermilion Parish as a gas well flowing 3619 MCFD and 23 BCPD through perforations 14,122 to 14,145 feet. It was



Onshore & Offshore Activity Map for South Louisiana OCTOBER 2017



located 1 mile north of production and drilled to a total depth of 14,488 feet in Sec. 34, 15S-2E.

In St. Martin Parish, **Lake Valerie Field, (G)**, Cico Oil and Gas has plugged and abandoned its #1 Ellison, (SN 250272), at a depth of 12,907 feet. It was drilled in Sec. 65, 8S-8E.

In Cameron Parish, **Black Bayou Field, (H)**, ROBERTSON ENERGY has completed the #272 Watkins (SN 250083), flowing 280 BOPD through perforations 5885 to 5934 feet. The well was drilled to a depth of 6040 feet at a location in Sec. 17, 12S-12W.

OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During **August 2017**, the **BOEM** approved **54** Gulf of Mexico drilling permits. Of these, **11** were for shelf wells, and **43** were for deepwater wells. Of the total number of permits, there were **2 new well permits**, both in **deepwater**.

The two deepwater new well permits were for one **exploration well** and a **development well**. The development well permit was issued to **Energy Resource Technology (Talos)** for their **Green Canyon 281 #SS-2** well. **Anadarko Petroleum** received a permit for their **Mississippi Canyon 127 #5** exploration well.

On August 25th, **IHS-Petrodata** reported that the Gulf of Mexico mobile offshore rig supply stood at **95**, which is the same as the last two months. The marketed rig supply consisted of **54** rigs, of which **33** were under contract. The marketed rig supply number increased by **2**, while the contracted rig supply number remained the same as last month. The marketed contracted versus total rig supply utilization rate remains at **34.7%**,

and the marketed contracted versus marketed supply utilization rate stands at **61.1%**. By comparison, the August 2016 total fleet utilization rate stood at 48.1% (versus 56.8% today) with 50 out of the 104 rigs under contract.

As of August 25th, **BakerHughes** indicated that there were **17** active mobile offshore rigs in the Gulf of Mexico, which is **51.5%** of the rigs under contract mentioned above. This active rigs number is **6** less than reported last month. Of the 17 rigs, **1** is located on the **shelf**, and **16** are situated in **deepwater**.

As of August 25th, the **BakerHughes** total U.S. rig count stood at **940** rigs **down 18** rigs from July. Of the 940 rigs, **759** are **oil rigs** and **180** are **gas rigs**. A year ago, there were only 489 rigs working in the U.S. Texas still has the largest number of rigs with 456, which is slightly less than half (48.5%) of the total number of rigs in the U.S.

On August 16th, the **BOEM** held **OCS Sale 249** in New Orleans. The sale drew **99 bids** on **90 blocks** by **27 companies**. It was mostly a deepwater sale, as **shelf** acreage captured only **10 single bids**. The total money exposed on the **high bids** was **\$121 million**. **Shell** tallied the **highest number of blocks**, with **19 high bids** spending **\$25.1 million**. **Chevron** followed with **15 high bids** totaling **\$27.9 million**. The BOEM has 90 days from the sale date to determine if the high bids are sufficient.

On August 22nd, **BHP Billiton** announced that it had made an **oil discovery** in **multiple horizons** at its **Wilding #2 well**. The discovery is situated in **Green Canyon Block 530**, which is in approximately **4035 feet of water**. The #2 well was spudded in April 2017 following the plugging and abandonment to the Wilding #1 well due to mechanical difficulty. No additional details were given in the press release.



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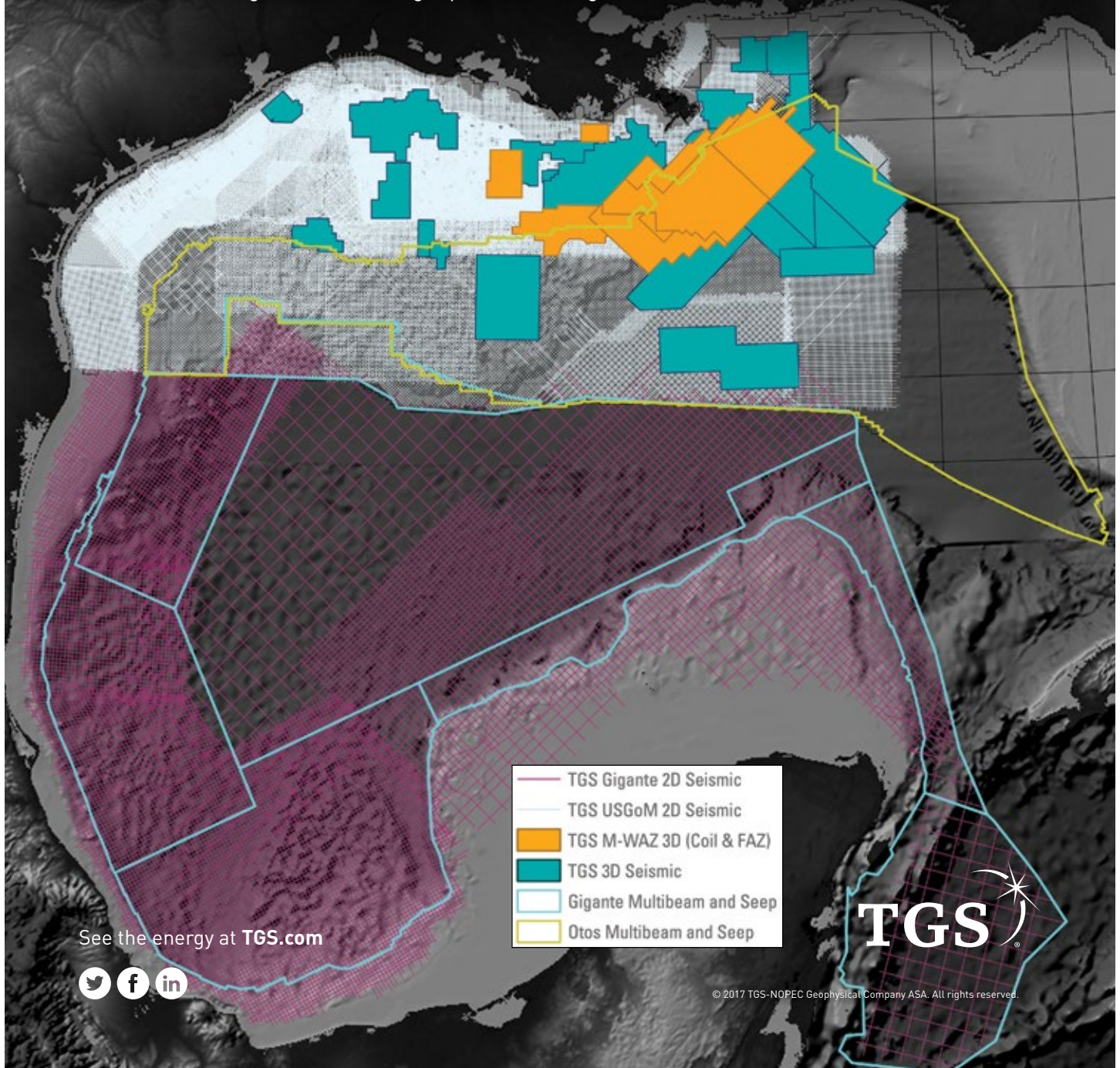
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Louisiana State University

NOGS Memorial Foundation Scholarships



LEE H. MELTZER GRADUATE SCHOLARSHIP

Mr. Jeff Bomer - \$3,000 Cash Award

Born and raised in Corpus Christi, TX, less than a mile from the Gulf of Mexico, Jeff Bomer spent much of his time outdoors on the beach and decided from a young age that he wanted to be a marine scientist of some sort. While in high school, he was exposed to biology, chemistry, and physics and wished there was some way he could integrate these sciences. It wasn't until his second year of college that Jeff realized he could do exactly that by pursuing a geoscience degree. He declared his major (geology) about five years ago and has been fortunate to learn and work in the same environments he had enjoyed in his youth. Jeff graduated with an MS in geology from LSU (2016) with his research centering on the shallow stratigraphy of Breton Sound estuary and its implications for implementing restorative sediment diversions. He is currently pursuing a PhD from LSU; Jeff's dissertation work focuses on characterizing sedimentation dynamics and resultant stratigraphy of point bars in the Ganges-Brahmaputra Delta, Bangladesh. Following graduation he plans on continuing deltaic research either in an academic (professor) or industry (R&D) role.

NOGS MEMORIAL FOUNDATION SCHOLARSHIP

Mr. Adam Gostic - \$2,500 Cash Award

Adam Gostic is a graduate student in LSU's Department of Geology & Geophysics. His research involves the meander and migration dynamics of the Mississippi River in southern Louisiana. Adam's thesis will investigate the effects of meander migration on point bar sedimentation by seismically imaging the False River point bar and comparing the results to cores and petrophysical logs from wells drilled at the seismic survey locations. Adam graduated from Sam Houston State University (SHSU) in 2015 with a BS in geology. Before graduating, he received the annual departmental scholarship for excellence in geology coursework. Adam also held the top grade at the conclusion of University of Missouri's 2015 Geology Field Camp and was nominated for participation in the 2016 USGS/NAGT Cooperative Field Training Program.

JULES & OLGA BRAUNSTEIN MEMORIAL SCHOLARSHIPS

Mr. Phoenix Harris - \$2,500 Senior Cash Award

Phoenix Harris is a senior at LSU majoring in geology with a concentration in geophysics. He went to Zachary High School in Zachary, LA. While in high school, Phoenix played football, ran track, and wrestled. Despite his busy schedule with sports, he was heavily involved in school, becoming a District AP Scholar and graduating summa cum laude. Now at LSU, his interest in academia has reached new heights. Phoenix has taken part in three different research projects with three different professors. He currently works in metamorphic petrology with Dr. Darrell Henry but has completed geophysical work as well. He recently embarked on an exciting trip to California to do field work for a seismic hazard project in the Los Angeles area. Despite the large amount of time that Phoenix puts into school and research, he manages to maintain a full-time job as a waiter at Capital City Grill downtown. As a part-time job, he tutors students ranging from high school to college level.

Ms. Heather Rayneri - \$2,000 Junior Cash Award

Heather Rayneri's family raised her to help the environment that we live in. Due to this upbringing, she has always had a passion for the environment and how she could possibly better it. One day, she would love to be a part of bringing clean water to communities across the world that are without this luxury. When she got to LSU, Heather realized that she could make a career out of this passion. In order to follow her passion, she recognized the need to further her education after undergraduate school and go to graduate school. This scholarship will help facilitate that goal and dream.

NOGS Memorial Foundation Scholarships

The NOGS Memorial Foundation Scholarships are granted each year to those students who have demonstrated exceptional talent in or commitment to their geologic studies and projects. It is the policy of the Memorial Foundation to posthumously name these scholarships after those members whose own extensive contributions to the profession have been particularly praiseworthy.

Lee Hilliard Meltzer for expertise in oil and gas appraisal and exploration, as well as manifold and unstinting support of and service to - from AAPG to NOGS - the region's professional geologic organizations.

James Allen "Al" Gilreath for his work as chief tool developer of down-hole instrumentation and 'pattern' interpretation, earning him, world-wide, the title, 'Mr. Dipmeter'.

Tulane University

NOGS Memorial Foundation Scholarships



JAMES ALLEN GILREATH GRADUATE SCHOLARSHIP

Mr. Daniel Culling - \$3,000 Cash Award

Daniel grew up in Southern California in a beautiful area with easy access to both the mountains and the ocean. It was here, with the aid of patient family, professors, graduate students, and colleagues, that Daniel found his passion for the earth sciences. Graduating with a BS in geological sciences from the University of California at Santa Barbara (UCSB), Daniel went on to manage a marine and atmospheric research lab at UCSB as well as deep-sea pore-water geochemistry and sediment dynamics research labs at the University of Washington in Seattle. Daniel met his current adviser, Dr. Mead Allison, while working on a sediment dynamics project in the lower reaches of the Mekong River in Vietnam. Daniel is presently working with Dr. Allison at Tulane University to understand the role of antecedent geology on modern barrier island migration and stabilization as well as mapping shallow sand resources for applications to Louisiana coastal restoration.

GEORGE W. SCHNEIDER SPECIAL AWARD

Mr. Christopher Young – \$2,500 Cash Award

Born in Los Angeles, CA, Chris's venture into geology began in high school where he took his first geology class. Always showing a passion for hiking and camping, he immediately took to geology and ultimately attained a BS in geosciences from the University of Arizona. Currently, Chris is a master's student at Tulane University working with Dr. Nancye Dawers researching normal fault relay-ramp evolution in southcentral Oregon. While at Tulane, Chris has been involved in the local Red Cross chapter helping those in southern Louisiana recover from disasters. After graduation, Chris hopes to work in the oil and gas industry and plans to continue volunteering for the Red Cross.

JULES & OLGA BRAUNSTEIN MEMORIAL SCHOLARSHIPS

Ms. Abigail Eckland - \$2,500 Senior Cash Award

Abigail was born and raised in Minnesota and has always been fascinated with the outdoors. When she took an environmental science class in high school, her passion for the environment flourished. It quickly became clear she wanted to explore this field at Tulane University. A few of Abigail's favorite classes for her environmental earth science major include Surface Water Hydrology, Managing Coastal and Marine Environments, and Earth and Environmental Geochemistry. She has taken full advantage of her college experience by studying abroad in Australia and by conducting research relating to the organic and sediment composition of the Mississippi River with her advisors, Dr. Mead Allison and Diana Di Leonardo. After graduation, Abigail wants to pursue a master's degree in environmental science to expand her learning in the field of water and coastal management.

Ms. Sara Nethercutt - \$2,000 Junior Cash Award

Sara grew up in central Arkansas with the Ozarks just a short drive away, allowing her to develop a love for being outdoors at a very young age. She entered her undergraduate career at Tulane University knowing she wanted to major in environmental science and soon after taking her geology course as a freshman, immediately discovered a new passion and decided to add geology as a second major. She has interned with the National Park Service at Barataria Preserve on a hydrology project and with Vermont EPSCoR at Middlebury College working on a bathymetric project. She shows great interest in the intersection of environmental science and geology and is excited to continue her studies in grad school.

NOGS Memorial Foundation Scholarships

Richard W. "Dick" Boebel for his outstanding abilities as an oil and gas finder and in being a unique individual who was most generous of his time and talent to the industry, his peers, and in his support of many professional organizations.

George W. Schneider, Sr. for exceptional leadership in exploration activities and for being a positive force in establishing the New Orleans Geological Society and serving as its first president in 1941-42.

Jules Braunstein gained wide recognition in the oil and gas industry not only for exceptional technical expertise but also as an exacting editor. His long career was conspicuous for selfless devotion and is carried on by his surviving wife, Olga, in her bequeathal of the residue of their estate to NOGS Memorial Foundation Scholarship Fund.

The University of New Orleans

NOGS Memorial Foundation Scholarships



RICHARD W. BOEBEL GRADUATE SCHOLARSHIP

Ms. Julie Torres - \$3,000 Cash Award

Julie Torres's interest in the physical sciences was fostered from an early age as she regularly pondered the explanations for everything she saw around her. As a child, her attention was perpetually captured by things like thunderstorms and insects. In high school, she developed great admiration for the scientific method. By college, Julie became acutely aware of the fragility and complexity of the wetlands that fringe our coast. In her graduate thesis research, she will investigate the geologic evolution of Grand Isle, examining barrier island formation while learning the intricacies of the scientific research process. This barrier island is unique in that it has experienced sustained growth and stability relative to neighboring barriers and therefore is habitable. However, there is little research available to explain this stability.

Julie credits the opportunity of conducting original research alongside experts in the field while also serving as a TA with making her work towards a Masters degree in earth and environmental science so fulfilling. She feels a calling to pass along the merits of critical thinking and to share knowledge regarding the captivating elegance of the natural world in order to help cultivate a new generation of problem-solving minds. Julie believes that now, more than ever, a reduction in scientific illiteracy is needed to develop scientifically sound solutions to the myriad problems facing our environment.

NOGS MEMORIAL FOUNDATION SCHOLARSHIP

Mr. Jarrett L. Levesh - \$2,500 Cash Award

Jarrett Levesh is a MS candidate at the University of New Orleans and originally hails from Branford, CT. Prior to enrollment at the University of New Orleans, he earned his BS in geology from Juniata College in Huntingdon, PA. While at Juniata, he conducted palynological research that was part of a larger project to document some of the oldest terrestrial life on Earth. He also held a summer internship at DRS Seismic Consultants in Oxford, CT, where he worked as a seismic consultant and measured seismic activity generated from construction blasting work. Over the current summer, Jarrett will be completing an internship at Upstream Exploration in Metairie, LA. At UNO, his MS thesis is focused on using well logs to map fault planes in Plaquemines Parish and to assess whether deep-seated faults of the region have cut near-surface stratigraphy and affected Holocene geomorphology. He plans to complete his MS degree in the spring of 2018 and to pursue a career in the oil and gas industry.

JULES & OLGA BRAUNSTEIN MEMORIAL SCHOLARSHIPS

Ms. Elizabeth Larroux - \$2,500 Senior Cash Award

Elizabeth Larroux was born and raised in Louisiana and attended high school at Saint Joseph's Academy located in Baton Rouge. Throughout her childhood, Elizabeth's parents put an emphasis on traveling in order to expose her and her brother to new experiences and to create a new respect towards the surrounding land. Camping was an frequent excursion for her family where Elizabeth and her father would hike the trails while he would relay the history of the area and his knowledge of the local fauna. These experiences have pushed her in the direction of a degree in earth and environmental sciences with a geoscience concentration at the University of New Orleans. Elizabeth will earn her Bachelor's degree in December 2017. Her main area of interest in this field is sedimentology and stratigraphy, however she also finds mineralogy and petrology fascinating. After her graduation in December 2017, she will take some brief time off to travel throughout the Northwestern United States and to research potential jobs. Her goal is to find field work upon graduation with the intention of attending graduate school at a later date.

Ms. Brittany Lynn George - \$2,000 Junior Cash Award

Brittany George was originally an engineering major when she first enrolled at the University of New Orleans, but upon taking Dynamic Earth with Dr. Sarwar, she fell in love with geology and changed her major. She has studied for a summer abroad at the University of Innsbruck in Austria and will be traveling again this summer to Europe on vacation to learn about the Bohemian Cretaceous Basin in the Czech Republic. Brittany found her niche this past year after completing her mineralogy and petrology courses, and she wishes to specialize in petrology and economic geology for her master's program at the University of Helsinki in Finland.



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