

NOGS LOG

OCTOBER 2018

Volume 59, Number 4



OCTOBER 1 - NOGS LUNCHEON PRESENTATION

**Insights from Elevation Surveys of Faulted Bridge Structures in Lake Pontchartrain
Suggest a New Methodology for Quantifying Subsidence in South Louisiana**

**Guest Speaker: Dr. Michael Hopkins
Lake Pontchartrain Basin Foundation • New Orleans, Louisiana**

NOGS FIELD TRIP LOWER MISSISSIPPI RIVER PHYSICAL MODEL

DATE: SATURDAY DECEMBER 1, 2018
TIME: 8:30 AM TO 1:30 PM

COST: ABOUT \$30 - STUDENTS ARE FREE
INCLUDES TRANSPORTATION FROM UNO LAKEFRONT CAMPUS
INCLUDES BOX LUNCH AND SOFT DRINK/WATER

LOOK FOR DETAILS IN NOVEMBER NOGS
LOG AND ON THE NOGS WEBPAGE





Published monthly by the New Orleans Geological Society. This issue was sent to press on Sept. 30, 2018.

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 NOGS at admin@nogs.org.

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on the cover

Cover photo courtesy of www.turnerfallspark.com

Close-up photo (below) courtesy of Iris Greenwell Photography

Turner Falls — Oklahoma

Turner Falls is locally considered Oklahoma's tallest waterfall at 77 feet tall. The falls are located on Honey Creek in the Arbuckle Mountains in south central Oklahoma, approximately 5 miles south of Davis.

The Arbuckle Mountains are the oldest known formations in the United States between the Appalachian and Rocky Mountains. They contain a core of granite and gneiss that dates back at least 1.4 billion years. The core is overlain by a 1,500 feet (460 m) layer of Cambrian-era rhyolite that is about 525 million years old. Above the rhyolite is about 15,000 feet (4,600 m) of folded and faulted limestones, dolomites, sandstones, and shales deposited in shallow seas from Late Cambrian through Pennsylvanian time (515 - 290 million years ago).¹



Reference: 1. Wikipedia

From the Editor

Hurricane Florence hit the coast of North Carolina on Sept 14th south of Wrightsville Beach as a category 1. However, the slow-moving rain bands dropped heavy rain and caused severe flooding and damage. The pictures of the flooding and devastation reminded me of Katrina in some ways. We all need to be alert to this danger and prepare for it during the hurricane season. Have your medications for yourself, family, and your animals ready to go. BUT I'm not sure how to prepare for Sharknado. Maybe get your chainsaws, filet knife, ice chests and grill ready.

Please send any comments and corrections to nogseditor@gmail.com. Also, if you have any vintage pictures from NOGS events or meetings and would like to see them in the *NOGS LOG* please send them to me.

Fran
Fran Wiselady,
NOGS LOG Editor



FROM THE PRESIDENT **ALEX JANEVSKI**

One of the most surprising aspects of my role as NOGS President has been how often I am asked to explain why NOGS is important. The importance of professional involvement is self-evident to me, but I want to explain my beliefs here to help refine my pitch, and maybe to help you make the case for NOGS to new members.

My first public presentation of my own research was to the Cleveland Geological Society, where I presented my summer research on Devonian trace fossils and received encouragement to go on to graduate school. That work was funded through an internship from the Kirtlandia Society, which supports education and research at the Cleveland Museum of Natural History. That summer of research was likely key on my grad school applications. Two local societies supporting science, one eight-week internship, and my life was changed forever. And that was as an undergraduate, before even greater support came from the University of Michigan, the Geological Society of America, the Paleo Society, and others.

The impact from NOGS on students in the New Orleans area is just as important. At our October luncheon, the Memorial Foundation will present our annual recipients of Foundation scholarships. The criteria for selecting these twelve students stated in the Foundation bylaws is “scholastic ability, high moral and ethical conduct, need, [and] a genuine interest in Geology.” Come to the luncheon to congratulate these students and know that one of them might one day be writing a column like this one and explaining how your support is the reason they became a geologist. And try to attend future luncheons where one of these students or another presents their work to NOGS. I am a big proponent of providing a venue for students to present their research, for what should be obvious reasons.

In September we participated in two big events, the Energy Day on September 22nd at the Louisiana Children’s Museum, and September 29th at the Girl Scout’s “Believe in Girls” event on the UNO Campus. The new Louisiana Children’s Museum is going up at City Park, and those of you who volunteered at or played in our annual golf tournament supported that. The impact of NOGS on students young and old is clear.

Of equal importance is the benefit of NOGS to current members. As an industry geologist, NOGS provides one of the most convenient venues for me to learn about

the latest developments in oil and gas. At our September luncheon I got to learn about the outlook for Gulf Coast energy from LSU professor Greg Upton. For what is less work and more play, NOGS is often the place where I get to hear talks in other geological disciplines. For those with Professional Geology licensure, our talks often qualify as continuing education credits. As an affiliated society of AAPG, we represent the New Orleans area, mutually supporting each other’s missions. We also support the Gulf Coast Association of Geological Societies, the Deepwater Technical Symposium, and the Louisiana Coastal Geology Symposium, all of which provide opportunities for professional development and collaboration. Many networks have been created at NOGS events that resulted in new research initiatives. These networks are particularly important for industry professionals, especially during recoveries, when your next job might come from someone you met at a NOGS a meeting. For those of us lucky enough to be gainfully retired, NOGS events may be a chance to see old friends and stay immersed in the geologic community.

The last impact I want to mention is the hardest to measure, but is arguably the most important, and existential. Increasingly, the world and southern Louisiana is looking to geologists to help make sense of the natural world, and to protect our environment, our cities, and our homes. This focus has intensified in southern Louisiana since Hurricane Katrina. Unfortunately, the discussion is far too often politically charged, with partisans making claims that are not supported by the latest science. It is the mission of NOGS to ensure that the very best science of geology is employed in these debates. Our neck of the woods is built on a delta, a geologically ephemeral piece of real estate that continually subsides and repeatedly gets buried by subsequent delta deposits. Most citizens do not realize how fragile and temporary this land is, but geologists get it because much of our oil and gas comes from reservoirs beneath us that were at the surface not that long ago, geologically-speaking.

A little over a year ago, the late Art Johnson made a comment that the 2017 Coastal Master Plan presented by the Coastal Protection and Restoration Authority insufficiently considers a dynamic subsurface in its plans. If that is the case, then it is because geologists have been insufficiently involved in the planning, or the science has not matured enough to have an impact. It is up to us to ensure our geological knowledge improves and impacts the decisions. And this is not restricted to the Louisiana coast. The future of our nation will increasingly depend on geologists to understand the impacts of climate change, to continue to ensure the economic benefit and strategic advantage provided by our nation’s energy development, and to ensure the impact to the environment by all human activity is minimized and mitigated. NOGS is working to help achieve all of these aims for New Orleans and all of Louisiana. What could be more important?

Alex Janevski

VOLUNTEERS NEEDED

STEM QUEST

Bring the whole family and journey to STEM
Science • Technology • Engineering • Math

Saturday, November 10th
10 am - 1 pm

Entrance: \$5 per person

Children's Museum of St. Tammany • 21404 Koop Drive • Mandeville



Picture From
Our Past...



**1958-1959
NOGS
Board of Directors**

Seated, L to R: Wayne H. Grimes, The California Company, Treasurer; Jules Braunstein, Shell Oil Company, vice-president; E.A. Gibson, Humble Oil and Refining Company, president; E.P. Roth, Leslie Bowling & Associates, secretary. Standing are the new directors. L to R, they are H.N. Hickey, The California Company; W.K. McWilliams, consultant; E.M. Baysinger, consultant, and Carl Grubb, The Superior Company.

Photo and caption courtesy of Jeff Spencer



NOGS Contact Information

Email: admin@nogs.org • Website: www.nogs.org

P.O. Box 58108 • New Orleans, LA 70158.

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

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504-756-2003
504-554-0319
985-264-1677
504-460-0319
504-615-5170
504-425-6411
504-593-3623
504-975-6735

E-mail

gregory.janevski@shell.com
chris.mclindon@Upstreamexp.com
shara.gremillion@usm.edu
dculpepper@theculpeppergroup.com
robmrooney@aol.com
snowde.fran@gmail.com
jennifer.connolly@shell.com
david.reiter@talosenergy.com
charleswholman@bellsouth.net

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Duncan Goldthwaite
Chris McLindon
Edward B. Picou, Jr.
Thomas C. Bergeon
TBD

Consultant
LSU
Tulane University
UNO

504-947-8495
281-705-3254
504-952-6437

bootscon@aol.com
sshul2@lsu.edu
tbishnoi@tulane.edu
jrflathe@uno.edu

Upstream Exploration LLC
The Culpepper Group, LLC
Chevron
Robert M. Rooney Inc.

504-756-2003
504-717-6465
985-264-1677
832-854-6431
504-460-0319

chris.mclindon@Upstreamexp.com
lfeinmn1@cox.net
dculpepper@theculpeppergroup.com
bay.salmeron@chevron.com
robmrooney@aol.com

Louisiana Geological Survey
TGS
Retired - Shell

225-931-6622
504-524-3450
504-975-3096

hammer@lsu.edu
margaret.mckinney@tgs.com
epicou@bellsouth.net

Consultant
Upstream Exploration LLC
Retired - Shell
Upstream Exploration

913-710-8021
504-430-4240
504-887-4377
504-756-2003
504-975-3096
504-832-3772

r_carter@me.com
brendaerilly@hotmail.com
DGldthwt@aol.com
chris.mclindon@Upstreamexp.com
epicou@bellsouth.net
tom.bergeon@upstreamexp.com

NOGS LOG STAFF

Editor	Fran Wiseman
Editor-Elect	Grant Black
Auxiliary	NOGA Officers and Directors
Drill Bits	Al Baker
Drill Bits	Carlo C. Christina
Drill Bits	Kevin Trosclair
Staff Photographer	Arthur Christensen
Layout / Printing	Kristee Brown
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Retired - BOEM

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Beacon Exploration, LLC

Retired - C & R Expl. Inc.

BOEM

Shalimar Consulting

Creative Graphics & Printing, LLC

OCSBBS Website

504-615-1570

918-906-4485

504-836-2710

504-202-7997

985-893-2013

985-626-5223

snowde.fran@gmail.com

gblack@chevron.com

ABaker1006@aol.com

carlocc398@aol.com

kevintriosclair@gmail.com

arthur_shalimar@yahoo.com

kpbrown@bellsouth.net

NOGS AUXILIARY

Officers

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Phone

504-469-2496
504-835-7467
504-289-6585
504-392-9332
504-737-2678
504-737-6101

Directors

Penny Bryant
Loretto Stephens
Judy Lemarié
Peggy Rogers

Year

2017-19
2017-19
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Phone

504-831-7744
504-451-3472
504-393-8659
504-392-6323



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October 1 • NOGS Luncheon

Holiday Inn Downtown Superdome

\$3.00 validated parking in hotel garage

Presentation:

**Insights from Elevation Surveys of Faulted Bridge Structures
in Lake Pontchartrain Suggest a New Methodology for Quantifying Subsidence
in South Louisiana**

Guest Speaker:

Dr. Michael Hopkins

Lake Pontchartrain Basin Foundation • New Orleans, Louisiana

See page 8 for Abstract and Biography

HOLIDAY INN DOWNTOWN SUPERDOME

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 14-20

Earth Science Week 2018

Theme: Earth as Inspiration

For more info, www.earthsciweek.org

November 5

NOGS Luncheon Presentation

Holiday Inn Superdome • New Orleans, Louisiana

Speaker: Gary Kinsman • UL-L

For more info, admin@nogs.org or 504-561-8980

October 19-21

48th Annual NO Gem, Mineral, Fossil & Jewelry Show

Alario Center • 2000 Segnette Blvd. • Westwego, Louisiana

Fri & Sat: 10 am - 6 pm • Sun: 10 am - 4 pm

For more info, gemshow2018@gmail.com or 504-214-3205

December 1

NOGS Field Trip

Lower Mississippi River Physical Model

UNO Lakefront Campus to Baton Rouge, LA • 8:30 am - 2:30 pm

For more info, see inside front cover (pg 2).

NOGS CONTACT LIST

Continued from previous page

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AAPG DELEGATES

Term Ends

2018	Earl Cumming	Reservoir Frameworks LLC	985-630-6898	earlcumming@bellsouth.net
2018	William M. Whiting	Consultant	504-947-8495	bootscon@aol.com
2018(a)	Dave Balcer			balcer@bellsouth.net
2020	Elizabeth McDade			elizabeth_mcdade@fmi.com
2020(a)	G. Alex Janevski	Shell	504-425-6214	gregory.janevski@shell.com

Company	Phone	E-mail
Upstream Exploration LLC	504-756-2003	chris.mclindon@Upstreamexp.com
Shell	504-425-6214	gregory.janevski@shell.com
ERM	504-846-9245	kelli.hardesty@erm.com
Consultant	504-947-8495	bootscon@aol.com
Talos Energy LLC	504-593-3623	david.reiter@talosenergy.com



October 1 NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

Insights from Elevation Surveys of Faulted Bridge Structures in Lake Pontchartrain Suggest a New Methodology for Quantifying Subsidence in South Louisiana

Presented by

Dr. Michael Hopkins

Lake Pontchartrain Basin Foundation • New Orleans, LA

ABSTRACT

One contributor to land loss in Louisiana is subsidence driven by active faulting; however, rates of vertical motion due to faulting are poorly constrained in coastal Louisiana. At least three faults associated with the Baton Rouge-Denham Springs Fault System in Lake Pontchartrain are actively deforming man-made structures. Six automobile bridges span the lake and intersect these fault traces. The bridges are supported on pilings, which were driven into well-consolidated Pleistocene clays, so measured offsets are from faulting over the last 90 years and not Holocene compaction. High-resolution elevation data were acquired on all structures by walking or driving the road surface or measuring elevations on pilings by boat. Depending on how and where offsets are measured across the faults, rates of subsidence can vary from 1.5 to 2.8 mm/yr (0.06-0.1 in/yr.). These patterns and calculated rates reveal that coastal neotectonic processes contribute to subsidence in a more complex way than currently envisioned by the Louisiana Coastal Master Plan (CMP). Previous work has shown that subsidence may be caused by as at least eight natural processes (e.g. natural faulting) and at least six anthropogenic processes (e.g. fluid withdrawal). Any particular area of the Louisiana coast is not subject to all these processes. However, all areas of the coast are subject to some combination of them, which contributes to the local subsidence vector in unique and variable amounts over time. Understanding future land surface and water bottom elevations of Louisiana coastal area is critical to coastal planning but highly problematic. Rather than considering subsidence as a single rate over a broad region, as currently done in the Louisiana CMP, each contributor should be considered individually. A range of rates, based on statistical probabilities from experts and models,

can be assigned to each process over a geographical extent. The individual rates are then summed yielding in a cumulative subsidence rate for any given location. The resultant product is envisioned to be a grid with each cell value representing the sum of the individual processes. The grid would be dynamic and can be updated regularly as new data emerge. This study highlights the complexities in measuring current and predicting future rates of subsidence and suggests a new perspective on subsidence for planning purposes is needed.

BIOGRAPHY

Dr. Michael Hopkins is a Gulf Coast native originally from Biloxi, Mississippi. He completed his undergraduate degree in geology at the University of Southern Mississippi in 2010 and a Ph.D. in earth and environmental sciences at Tulane University in 2016. His graduate research focused on understanding extensional fault growth and interaction and how that interaction is transferred to and preserved in the landscape. Since 2016, he has been on staff with the Lake Pontchartrain Basin Foundation as a geologist and GIS specialist. While at LPBF he has worked on a variety of projects. One topic that his work at LPBF has focused on is how faults contribute to subsidence in coastal Louisiana.

**THE OCTOBER LUNCHEON RESERVATION
DEADLINE IS SEPTEMBER 28.**

"And Looking Ahead . . ."

The next luncheon will be held on November 5. Our guest speaker will be Gary Kinsman from UL-L. Contact NOGS at admin@nogs.org or use the PayPal link at www.nogs.org to make your reservation.



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CALENDAR OF EVENTS: OCTOBER - DECEMBER 2018

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

2018	EVENT	LOCATION	CONTACT / INFO
1 Oct	NOGS Luncheon Presentation "Insights from Elevation Surveys of Faulted Bridge Structures in Lake Pontchartrain Suggest a New Methodology for Quantifying Subsidence in South Louisiana" Speaker: Michael Hopkins Lake Pontchartrain Basin Foundation	Holiday Inn Superdome	admin@nogs.org or 504-561-8980
14-20 Oct	Earth Science Week 2018 "Earth as Inspiration"		For more information: www.earthsciweek.org
19-21 Oct	48th Annual New Orleans Gem, Mineral, Fossil & Jewelry Show	Alario Center 2000 Segnette Blvd. Westwego, LA 70094	Levette Carlos • 504-214-3205 gemshow2018@gmail.com See page ? for more information.
31 Oct	Halloween		
5 Nov	NOGS Luncheon Presentation "Chicxulub Impact: Gravity and Topography on the Yucatan Peninsula...Effects in Northern Louisiana: Mass Wasting, Tsunami and Fall Back" Speaker: Gary Kinsman • UL-L	Holiday Inn Superdome	admin@nogs.org or 504-561-8980
22 Nov	Thanksgiving		
1 Dec	NOGS Field Trip Lower Mississippi River Physical Model	8:30 am - 2:30 pm UNO Lakefront Campus to Baton Rouge, LA See inside front cover.	See inside front cover. More details to follow in November NOGS LOG.

NOGS September Luncheon

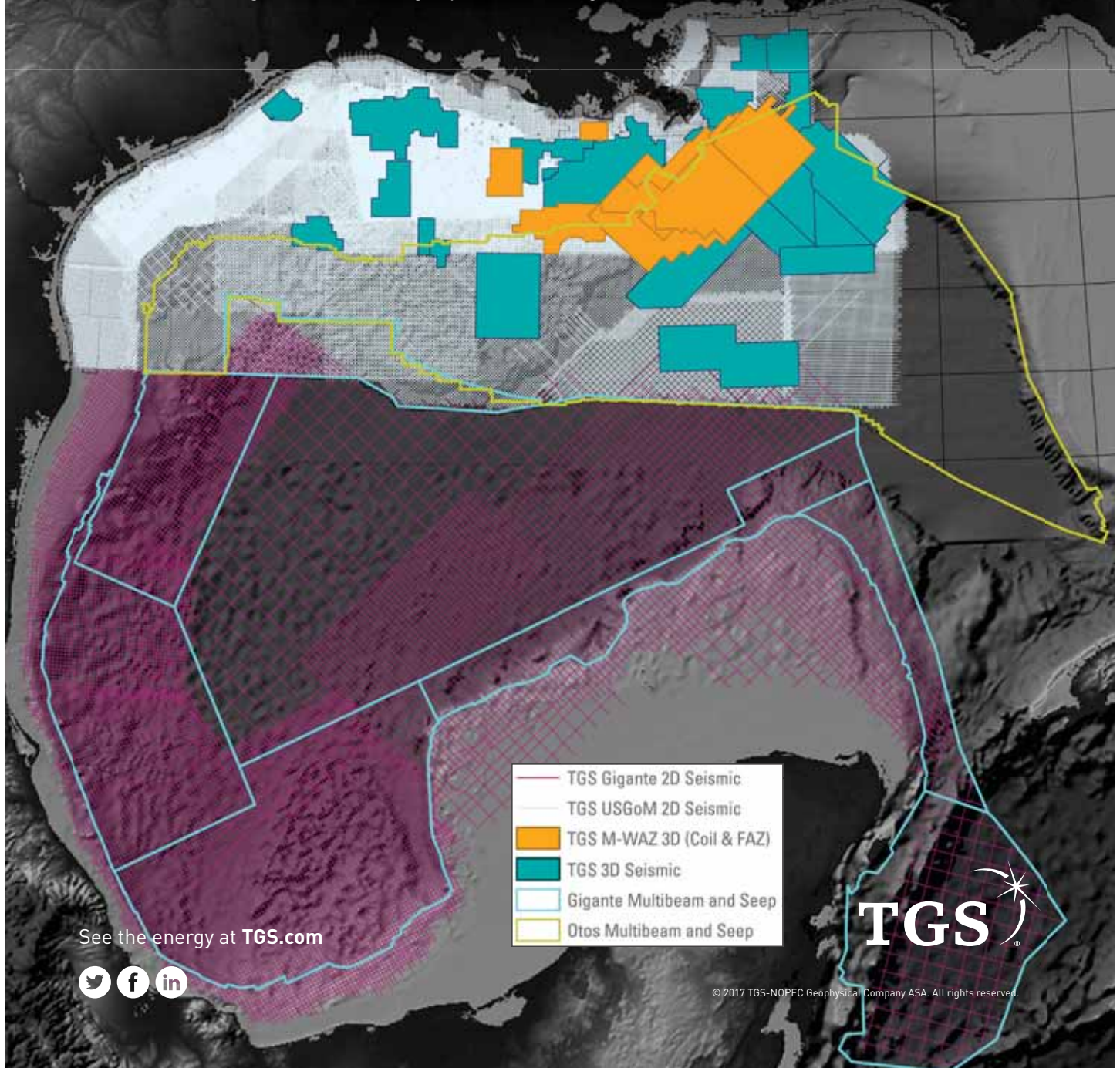
September 10, 2018

Guest Speaker: Dr. Gregory Upton



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TGS provides industry-leading offshore seismic data using an innovative mix of technologies and unmatched imaging capabilities. Through strategic partnerships, we provide a comprehensive collection of advanced marine acquisition technologies for enhanced reservoir delineation, characterization and monitoring. TGS delivers the E&P industry unlimited potential with our collection of advanced offshore data including **Declaration M-WAZ 3D** survey, **Fusion M-WAZ 3D**, **Otos Multibeam and Seep** and **Gigante 2D Multibeam and Seep** programs. Explore the Gulf of Mexico with the right data, in the right place, at the right time.



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's First Luncheon for 2018-19

On September 12, the ladies of the Auxiliary gathered at the lovely home of Camille and Jim Yeldell. It was the first event of the 2018-19 year. The luncheon was catered by Martin's Wine Cellar and there was an abundance of food. Everyone raved about the crabmeat cheesecake. The delicious desserts were all made by Camille. Thank you Camille. Retta Stephens and Mary Walther assisted Camille in planning the day.

Everyone enjoyed catching up on summer vacations and the latest news. Among those in attendance were Beverly Christina and Joanne Severson. Also enjoying conversations were Elizabeth Furlong, Judy Sabaté and Trez Zotkiewicz.

The following day, the committee for the November luncheon met at Il Tony's to plan the next event. The report is that the food is great, and we will invite spouses and guests to join the NOGA members. Linda Peirce and Pat Williamson will be handling that event.

Mary Walther



Joanne Severson and Elizabeth Furlong



Beverly Christina, Trudy Corona, and Elizabeth Furlong



Retta Stephens, Penny Bryant, and President Margie Conatser



Committee: Mary Walther, Camille Yeldell, and Retta Stephens

New Orleans Geological Auxiliary Membership Application

Name _____ Spouse's Name _____
Address _____ Home Phone _____
City, State, Zip _____ Cell Phone _____
Spouse's Company _____ Email _____

Dues: \$25 payable to New Orleans Geological Auxiliary
Please mail to Mary Walther, 2421 Prancer St., New Orleans, LA 70131

2018 NOGS FALL KICK-OFF PARTY & MEMBERSHIP DRIVE

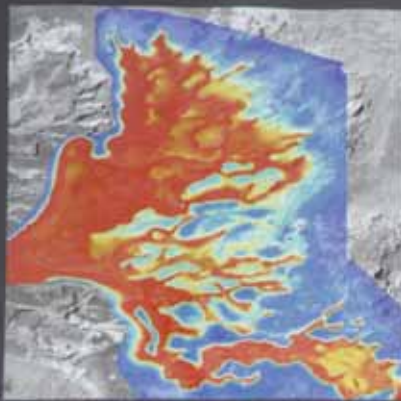
September 19, 2018 • NOLA Brewing Company



22nd Annual Gulf of Mexico Deepwater Technical Symposium




Eberswalde Delta on the Planet Mars!!!!



Topographic rendering of the Eberswalde Delta on the planet of Mars. Part of research being done by Leah Wood and John Andrews, UGA.

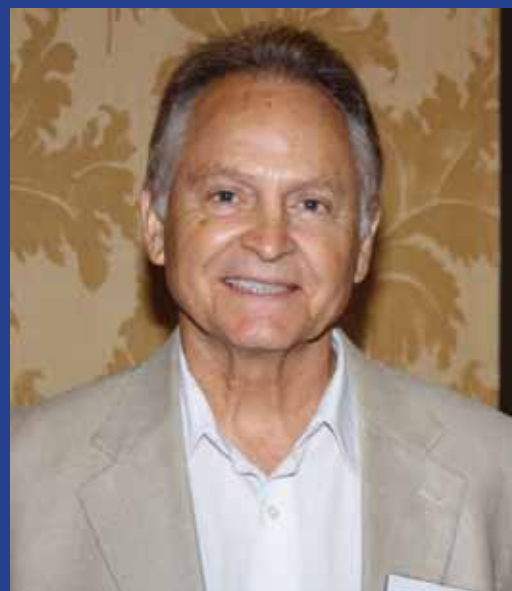
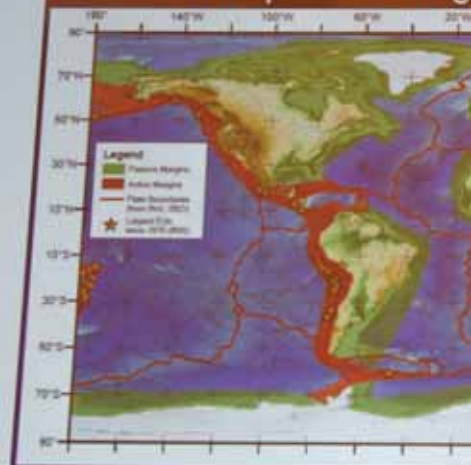
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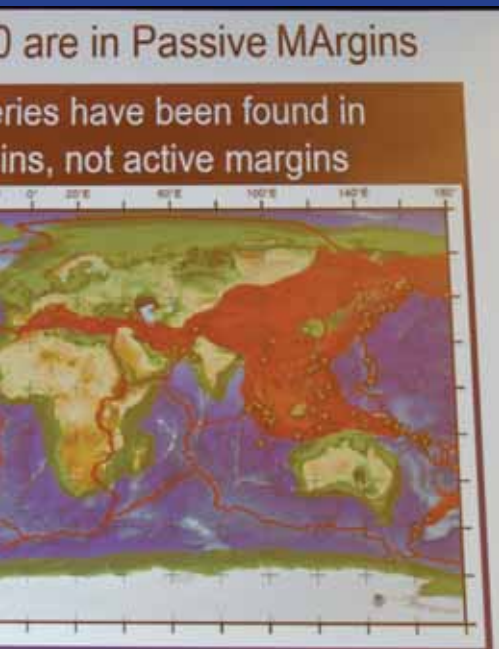
Schlumberger



Top Ten Hot Spots 2018-2020

Most large oil discoveries
riffs or passive margins





South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

LAFAYETTE DISTRICT, ONSHORE AREA

By Carlo C. Christina and Kevin J. Trosclair

September 19, 2018

Crude Oil (\$/barrel)	West Texas Intermediate	\$69.25
	Brent – (Sweet)	\$79.25
	Louisiana (Light)	\$77.57
Natural Gas (\$/million BTU)	Spot price Louisiana	\$2.93

During the month of August, the Louisiana Department of Conservation issued 17 permits to drill for oil and gas in the Lafayette District. Following are the most significant and interesting locations and completed wells:

NEW LOCATIONS

In East Feliciana Parish, **Freeland Field, (A)**, ConocoPhillips will drill its first **Austin Chalk** well on the new block of acreage containing 40,000 net acres, acquired from Amelia Resources. The #1 McKowen, SN 251215, is located in Sec 58, 3S-1W, with the proposed bottom hole to be located in Sec. 61, 3S-1W, approximately 6,153 feet southwest of the surface. It will be drilled to a proposed total depth of 17,500 feet, or true vertical depth of 15,500 feet.

Shelf Energy will drill its #1 Brown-Odom, SN 251249, in **South Black Bayou Field, (B)**, Cameron Parish. The well is located in Sec. 28, 12S-12W, and will test Camerina sands at **10,868 feet**. Nearest production is located 1 mile to the south from a Hackberry well at **13,500 feet**. However, several resistive sands **are found between 10,300 feet and 10,800 feet**.

LLOX will drill a **rank wildcat, (C)**, in Iberia Parish, in Sec. 15, 13S-7E, located more than 1 mile north of the nearest well. The #1 Patout, SN 251216, was permitted in **Lydia Field**, and will be drilled to 11,000 feet to test Big 2 and Cib op sands.

In Lafourche Parish, **Rousseau Field, (D)**, Rovig Minerals will drill the #1 Boudreaux, SN 251203, in Sec. 3, 15S-17E, to a depth of 13,818 feet. The well is located approximately 1 mile south of a well which was recently re-completed as a gas well flowing 2958 MCFD and 324 BCPD.

Byron Energy of Delaware has permitted a significant deep test in **Shell Island Field, (E)**, St. Mary Parish. The #1 Weiss-Adler,

SN 251204, is located in Sec. 7, 18S-12 E, and will be drilled to a total depth of **18,700** feet to test Cris I and Cib op sands. It is located approximately 1 mile west of production in West Deer Island Field, which is operated by Castex Energy. These wells are completed in Tex W sands, found at depths of 12,800 feet to 13,500 feet.

COMPLETIONS

Castex Energy and its partners have drilled and completed the #1 SL 21615, SN 250499, at a total depth of 17,809 feet and have logged 2 massive gas distillate sands having **more than 450 feet of net pay** over an interval of 1,050 feet. The well was completed in the Disc 12 Sand as the discovery well for **Bayou Goreau Field, (F)**, flowing 6757 MCFD and 744 BDPD through perforations 17,244 to 17,370, overall. It is located in Terrebonne Parish, in Sec. 34, 21S-13E.

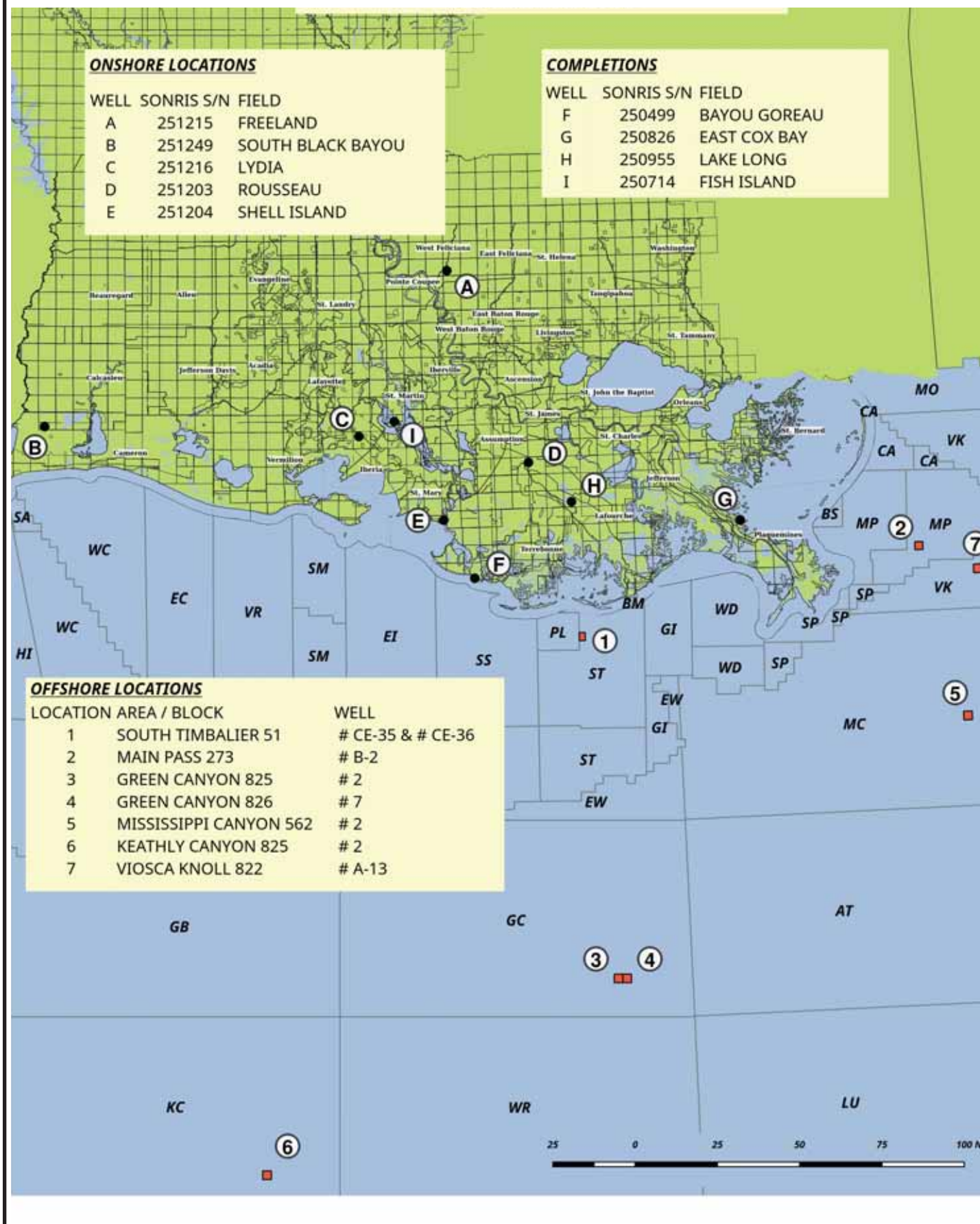
Castex Energy and its partners have been very active and very successful in Terrebonne Parish in the past 2 years. A review of the activities follows:

The #1 SL 21614, SN 250090, was completed as a gas well in **Oyster Bayou Field**, flowing 3030 MCFD and 276 BDPD through perforations 12,386 to 13,054, overall, in the 8200 Sand. It was drilled to a total depth of 13,828 in 21S-13E.

Castex then drilled and completed the #1 LL&E, SN 250180, as the discovery well for **King Lake Field** flowing 6608 MCFD and 202 BDPD through perforations 17,164 to 17,729, overall, in a Tex L sand. It was drilled to a total depth of 18,071 in Sec. 26, 20S-14E.



Onshore & Offshore Activity Map for South Louisiana OCTOBER 2018



Castex followed with the discovery of **Bayou Goreau Field**, and the completion in the Dis 12 sand, having more than 450 feet of net pay, as described above.

Castex has recently spudded its #1 SL 21612, SN 251180, as a significant deep test in **Four League Bay Field**. It will be drilled to a total depth of **22,065** feet to test Tex W sands in 20S- 13E.

Upstream Exploration has completed its #1 SL 21380, SN 250826, in **East Cox Bay Field, (G)**, Plaquemines Parish. It was drilled to a total depth of 14,240 feet and completed **through perforations 13,935 to 14,035** as an oil well flowing **663 BOPD and 4869 MCFD**. It is located in Sec. 26, 18S-16E, approximately 5700 feet from 2 producing oil wells. The field was discovered in December 2014 by Upstream, (then Century 21), and the confirmation well was completed in December 2016. To date, these 2 wells have produced more than 650,000 barrels of oil and 2.2 billion cubic feet of gas.

In Lafourche Parish, **Lake Long Field, (H)**, S2 Energy has dually completed the #32 SL 328, SN 250955, located in the Lake in 17S-19E. It was drilled to a total depth of 11,150 feet and completed in the lower zone flowing 1266 MCFD through perforations 10,767 to 10,804, overall.

The upper zone was completed flowing 2327 MCFD and 24 BCPD through perforations 10,134 to 10,162, overall.

Walter Oil & Gas has drilled its #1 Jeanerette, SN 250714, to a total depth of 11,765 feet where it was junked and abandoned after sticking drill pipe at 11,765 feet. It was projected to a total depth of 19,064 feet, located in **Fish Island Field, (I)**, Iberia Parish, in Sec 16, 12S-9E.

OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During **August 2018**, the **BOEM** approved **84** Gulf of Mexico drilling permits. **Seventeen** of these were for shelf wells, and **67** were for deepwater wells. Of the total number of permits, there were **8 new well permits; 3** were issued on the **shelf** and **5** in **deepwater**.

The 3 shelf new well permits were for development wells. **Arena Offshore** was granted 2 permits for their **South Timbalier 51 #CE-35** and **#CE-36** wells, and **Castex Offshore** received a permit for their **Main Pass 273 #B-2** well.

The 5 deepwater new well permits included 2 exploration wells and 3 development wells. Three new well permits were given to **BP Exploration & Production** for their **Green Canyon 825 #2** and **Green Canyon 826 #7** development wells and their **Mississippi Canyon 562 #2** exploration well. **Anadarko Petroleum** received a new well permit for their **Keathley Canyon 825 #2** exploration well. **W&T Offshore** obtained a new well permit for their **Viosca Knoll 822 #A-13** development well.

On August 31st, **IHS-Petrodata** reported that the Gulf of Mexico mobile offshore rig supply stood at **77**, which is **1** less than last month. The marketed rig supply consisted of **45** rigs, of which **36** were under contract. The marketed rig supply number was the **same** as reported last month, and the contracted rig supply was **1** less than the previous month. The marketed contracted versus total rig supply utilization rate stands at **58.4%**, and the marketed contracted versus marketed supply utilization rate stands at **82.2%**. By comparison, the August 2017 total fleet utilization rate stood at 36.2% (**versus 48.1% today**) with 34 out of the 95 rigs under contract.

As of August 31st, **BakerHughes** indicated that there were **16** active mobile offshore rigs in the Gulf of Mexico, which is **43.2%** of the rigs under contract mentioned above. This active rigs number is **1 more** than as reported last month. Of the 16 rigs, **2** are located on the **shelf**, and **14** are situated in **deepwater**. At the same time last year, there were also 16 mobile offshore rigs operating in the Gulf of Mexico.

As of August 31st, the **BakerHughes** total U.S. rig count stood at **1048** rigs, which is the same as reported at the end of July 2018. Of the 1048 rigs, **862 (82.3%)** are **oil rigs** and **184 (17.6%)** are gas rigs. A year ago, there were 943 rigs working in the U.S. Thus, the current rig figure represents an **11.1%** increase in rigs year over year. **Texas** still has the largest number of rigs with **528**, which is approximately half (50.4%) of the total number of rigs in the U.S. **Louisiana** has a total of **55** rigs.

On August 15th, the **BOEM** held **OCS Sale 251** in New Orleans. **Twenty-nine companies** submitted **171 bids** on **144 blocks**. The sum of the **high bids** totaled **\$174,069,406**. Of the 144 high bids, **32 (16.4%)** were on the **shelf** and **112 (83.6%)** were in **deepwater**. The **highest bid** of the sale, **\$25,919,784**, was submitted by **Hess Corporation** for **Mississippi Canyon Block 338**. **ExxonMobil** was the most active bidder with **25 high bids** totaling **\$40,555,000**. **Hess Corporation** was the **second highest bidder** with **\$36,178,321** on **16 blocks**.

THE OIL PATCH WARRIORS OF WORLD WAR II

Seventy-five years ago this month, a Band of Roughnecks went abroad on a top secret mission into Robin Hood's stomping grounds to punch oil wells to help fuel England's war machines. It's a story that should make any oilman or woman proud.

The year was 1943 and England was mired in World War II. U-boats attacked supply vessels choking off badly needed supplies to the island nation. But oil was the commodity they needed the most as they warred with Germany.

A book *"The Secret of Sherwood Forest: Oil Production in England During World War II"* written by Guy Woodward and Grace Steele Woodward was published in 1973 and tells the obscure story of the American oil men who went to England to bore wells in a top-secret mission in March 1943.

England had but one oil field, in Sherwood Forest of all places. Its meager output of 300 barrels a day was literally a drop in the bucket of their requirement of 150,000 barrels a day to fuel their war machines.

Then a top-secret plan was devised: to send some Americans and their expertise to assist in developing the field. Oklahoma-based Noble Drilling Company, along with Fain-Porter, signed a one year contract to drill 100 wells for England, merely for costs and expenses.

Forty-two drillers and roughnecks from Texas and Oklahoma, most in their teens and early twenties, volunteered for the mission to go abroad. The hands embarked for England in March 1943 aboard the HMS Queen Elizabeth. Four National 50 drilling rigs were loaded onto ships but only three of them made landfall; the Nazi U-boats sank one of the rigs in route to the UK.

The Brits' jaws dropped as the Yanks began punching the wells in a week, compared to five to eight weeks for their British counterparts. They worked 12 hour tours, 7 days a week and within a year, the Americans had drilled 106 wells and England oil production shot up from 300 barrels a day to over 300,000.

The contract fulfilled, the American oil men departed England in late March 1944. But only 41 hands were on board the return voyage. Herman Douthit, a Texan derrick-hand was killed during the operation. He was laid to rest with full military honors and remains the only civilian to be buried at The American Military Cemetery in Cambridge.

"The Oil Patch Warrior," a seven foot bronze statue of a roughneck holding a four foot pipe wrench stands near Nottingham England to honor the American oil men's assistance and sacrifice in the war. A replica was placed in Ardmore Oklahoma in 2001.

It is by no means a stretch to state that without the American mission, we might all be speaking German today.

Special thanks to the American Oil and Gas Historical Society.



The University of New Orleans NOGS Memorial Foundation Scholarships



RICHARD W. BOEBEL GRADUATE SCHOLARSHIP

Mr. Jared Bullock - \$3,000 Cash Award

Jared Bullock is a M.S. candidate at the University of New Orleans. Originally from Lafayette, Louisiana, Jared earned his B.S. in Geology from Millsaps College in Jackson, Mississippi. While at Millsaps College he conducted geophysical research to determine the near-surface geologic structure of the Big Ridge Escarpment along the Mississippi Gulf Coast. Jared enrolled at UNO in the Fall of 2017 to begin his graduate school journey. His M.S. thesis is focused on using well logs and industry-donated seismic data to assess whether deep-seated growth faults have affected modern geomorphology cutting near-surface stratigraphy. After completing his M.S. degree in 2019, he plans on pursuing a career as a geologist in the oil and gas industry.

GEORGE W. SCHNEIDER MEMORIAL SCHOLARSHIP

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

Jarrett Levesh is a M.S. candidate at the University of New Orleans and originally hails from Branford, Connecticut. Prior to enrollment at The University of New Orleans he earned his B.S. in geology from Juniata College in Huntingdon, Pennsylvania. While at Juniata he conducted palynological research that was part of a larger project to document some of the oldest terrestrial life on Earth. Last summer he held an internship at Upstream Exploration LLC in Metairie, Louisiana, where he interpreted seismic data and well logs to evaluate the economic viability of fields. This spring he served as the team leader of UNOs Imperial Barrel Award team that came in second at the Gulf Coast regional competition.

At UNO his M.S. thesis is focused on using well logs and industry seismic data to map a major fault in Plaquemine Parish. The study of the fault's history of motion is used to determine if the fault is affecting Holocene geomorphology cutting near-surface stratigraphy. He plans to complete his M.S. degree in the fall of 2018 and pursue a career in the oil and gas industry.

JULES & OLGA BRAUNSTEIN MEMORIAL SCHOLARSHIPS

Mr. Matthew Tift - \$2,500 Senior Cash Award

Matthew Tift is a student at the University of New Orleans since the Spring 2016. When he was young, environmental science classes were always his favorite. This led to a decision to pursue higher education in this field. He has been concentrating his studies in Geosciences, that he has found immensely rewarding. He has learned much about the physical processes of the Earth, how to identify rocks and minerals, and how Earth scientist's conduct studies. He is currently President of the SEES club at UNO (Society for Earth and Environmental Sciences). The responsibilities include putting on the yearly mineral auction and finding volunteer work across the city for our club members. He is also a part time waiter in the French Quarter. He has lived in New Orleans his entire life and his major has given him a greater understanding and appreciation for the unique geology of Louisiana and the gulf coast.

Ms. Hailey Robert - \$2,000 Junior Cash Award

Hailey Robert was born and raised in the New Orleans area. She attended Destrehan High School and graduated with an Academic Honors Diploma and a 3.8 overall GPA. She loves animals and the outdoors and was always curious about nature, bodies of water, and wildlife. She enrolled at the University of New Orleans (UNO) as a Biology Major. Soon after she switched to Earth and Environmental Science focusing on coastal environmental science. She is a member of Sigma Gamma Epsilon honor society. Hailey plans to attend graduate school after receiving her BS degree. She has worked as a volunteer at the St. Charles and Jefferson Parish animal shelters. Hailey aspires to have a career focusing on the preservation and restoration of the Louisiana coast and the protection of its wildlife.

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



NOGS MEMORIAL FOUNDATION SCHOLARSHIP

Mr. Keir Nichols- \$2,500 Cash Award

Keir Nichols is a relatively recent convert to the field of geology. His background is in Physical Geography. He received a BSc from Aberystwyth University, Wales, which included a semester studying at the University Centre in Svalbard, Norway. He received a masters degree in Geoscience Research from Keele University, England. Keir's thesis focused on the Holocene palaeoceanography of Arctic Canada. He is entering his fourth year at Tulane working towards a PhD. His main project is analysing glacially transported material from Antarctica. The isotopic content is used to constrain the past thickness of ice and the timing of retreat at study sites that have proven problematic using other techniques.

JAMES ALLEN GILREATH GRADUATE SCHOLARSHIP

Mr. Cari Rand – \$3,000 Cash Award

Cari Rand was born on Yokota Air Force Base while his father was still a Seabee. Cari Rand's family lived around the Pacific rim until settling in Virginia Beach, VA, where his father taught at Old Dominion University. Cari's interest in glaciology was piqued by his parents' stories of meeting while stationed at McMurdo Station in Antarctica and by his father's experiences on the 2005 Healy-Oden Trans-Antarctic Expedition to collect seafloor cores from the Arctic Ocean. A move to Denver, CO, exposed Cari to landscapes that further cemented his interest in Earth Sciences and geology. He majored in these studies at James Madison University. Now a master's student at Tulane University, he studies glacial erosion under the guidance of Dr. Brent Goehring at the Tulane University Cosmogenic Nuclide Laboratory.

JULES & OLGA BRAUNSTEIN MEMORIAL SCHOLARSHIPS

Ms. Sara Nethercutt - \$2,500 Senior Cash Award

Sara Nethercutt is a senior at Tulane University pursuing a double major in Geology and Environmental Science. She is originally from Conway, AR where she enjoys hiking and spending time in the Ozarks. This past summer she interned for the NASA Student Airborne Research Program. Currently, she is working on a senior honors thesis in the Geology department. After graduating from Tulane in the spring, Sara plans on attending graduate school to pursue her interests of river and coastal system dynamics.

Mr. Colby Lejeune - \$2,000 Junior Cash Award

Colby LeJeune was born and grew up in rural Acadia Parish, in an area called l'Anse LeJeune. Growing up in the rice fields of South Louisiana was not exactly conducive to being interested in geology, but through books and the Internet he developed an interest in planetary science in high school. He enjoyed reading about planets and moons, but what really introduced him to geology was reading Kim Stanley Robinson's *Mars* trilogy. The fascinating descriptions of the geologic features of Mars got him interested in studying geology. At Tulane he enjoyed the introductory courses, so he declared as a geology major. Colby is now a junior working with Dr. Brent Goehring in the University's Cosmogenic Nuclide Lab. His undergraduate work focuses on glaciers.

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.

Louisiana State University

NOGS Memorial Foundation Scholarships



LEE H. MELTZER GRADUATE SCHOLARSHIP

Mr. Rasheed Ajala - \$3,000 Cash Award

Rasheed Ajala was born and raised in Lagos, Nigeria and moved to Houston in 2013. He graduated from the University of Houston with a major in geophysics and seismology and a minor in mathematics. After realizing that he still had a lot more to learn about geology, he decided to pursue a doctorate. Rasheed is passionate about geologic studies that benefit the society such as natural resource exploration and natural hazard assessment. He is particularly interested in seismic hazard assessment. With the lack of any serious hope of predicting earthquakes in the near future, he believes that ground-shaking hazard analysis is the best tool in a geologist's arsenal for seismic hazard assessment. Besides research, Rasheed loves to meet new people and learn about their culture, traveling to unfamiliar places and participating in marathons.

NOGS MEMORIAL FOUNDATION SCHOLARSHIP

Mr. Elliott Helgans - \$2,500 Cash Award

Elliott Helgans is currently employed as a Graduate Research Assistant in the Geology and Geophysics Department of Louisiana State University. In this position he is required to complete graduate coursework in geophysics while providing new, unique, and independent geologic research. His current research project involves the development of a forward model for crustal stress in Southern California. The model attempts to combine stress from a myriad of tectonic sources into a comprehensive estimate for the state of stress in Southern California. Crustal stress estimates in the region constrain earthquake hazard analyses and are important to accurately define earthquake risk for Southern California. Elliot is a very active individual, both mentally and physically. When not completing duties as a graduate student he enjoys working out and playing sports. The physical exercise and competition are great meditative outlets that allow him to relax and engage in something other than coursework.

JULES & OLGA BRAUNSTEIN MEMORIAL SCHOLARSHIPS

Mr. Andrew Osborne - \$2,500 Senior Cash Award

Andrew Osborne is a junior at LSU and hails from Mandeville, Louisiana. Geology has always been one of his interests, but it wasn't until college that it became a passion. Andrew plans to attend graduate school for geological engineering and would eventually like to work in the field of mining. Andrew received the distinction of "Most Outstanding Sophomore" in the geology department for the 2016-2017 school year. As a member of two research groups within the department, he is currently working on a personal project with Dr. Peter Clift studying sediment from the Mississippi River. He's also involved in a project with Dr. Darrell Henry, analyzing metamorphic rocks from the Beartooth Mountains of Montana. He is a returning member of the Geology Club and an avid member of the Rowing Club, where he is in the running to be next year's captain. In the transient periods when he isn't studying, doing research, working, or sleeping, he enjoys exercising and playing music.

Ms. Sophie Vincent - \$2,000 Junior Cash Award

Sophie Vincent, a sophomore undergraduate, is pursuing a bachelor's degree in geology at LSU. She was born and raised in Lafayette LA where she attended a small public school and worked at a grocery store throughout high school. At the end of freshmen year in college, she was selected to attend a geology trip to Ireland with several graduate students and professors. During this trip, she observed and learned about many beautiful geological and archaeological structures that further confirmed her desire to pursue a geology degree. She was nominated as the secretary of the LSU Geology Club. She hopes to bring about many changes and improvements to the club. She is currently doing paid and volunteer work for Dr. Peter Clift. She intends to declare a minor in Geographic Information Systems (GIS) and hopes to be accepted into graduate school after earning a bachelor's degree in geology.

NOTICE FOR POTENTIAL CANDIDATES TO APPLY FOR VACANCIES ON THE SOUTHEAST LOUISIANA FLOOD PROTECTION AUTHORITY EAST AND WEST LEVEE BOARDS.

The State contact person is Ms. Stephanie Aymond at Stephanie.Aymond@LA.GOV . Applicants need to complete the official application, which can be found at the following link: <http://www.coastal.louisiana.gov/wp-content/uploads/2013/09/SLFPAApplication1.pdf>. Applicants are needed to fill the following Board vacancies:

The Nominating Committee will be seeking applicants for this year to fill the following vacancies for their term beginning in 2019 and ending in 2023.

A. Non-Resident:

1. SLFPA –East Board: One (1) Vacancy. A Non-Resident for the East Board means anyone who resides in the State of Louisiana or the United States; but, does not reside in either Jefferson or Orleans Parish in that respective portion of these Parishes that is located on the East side of the Mississippi River or anyone who resides in St. Bernard or Tangipahoa Parishes.
2. SLFPA-West Board: One (1) Vacancy. A Non-Resident for the West Board means anyone who resides in the State of Louisiana or the United States; but, does not reside in either Jefferson or Orleans Parish in that respective portion of these Parishes that is located on the West side of the Mississippi River.

A Non-Resident applicant can apply to both Board's or may choose to apply for only the East or West Board's, subject to the residency requirements.

B. Resident:

1. SLFPA-East Board Tangipahoa Parish Resident: One (1) Vacancy. The applicant for this vacancy must reside within the boundaries of Tangipahoa Parish.
2. SLFPA-West Board Orleans Parish West Resident: One (1) Vacancy. The applicant for this vacancy must reside in that portion of Orleans Parish that is located on the West side of the Mississippi River.



Contact NOGS at:
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Suite 600
Houston, Texas 77024
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