

NOGS LOC

FEBRUARY 2019

Volume 59, Number 8



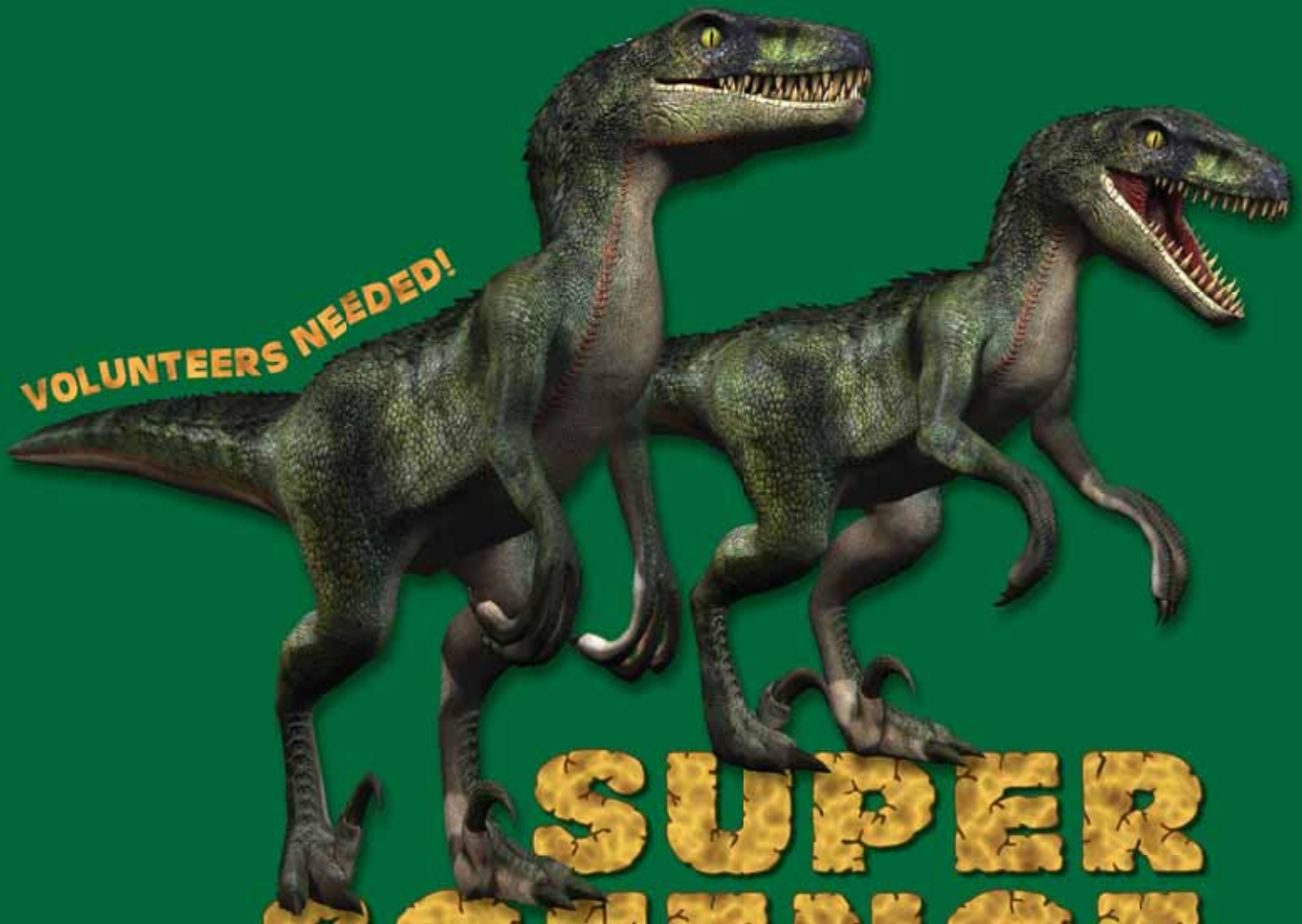
FEBRUARY 4 - NOGS LUNCHEON PRESENTATION

"Lower Paleozoic Reservoirs in the Delaware Basin: Gas and Liquids Distribution"

**Guest Speaker: James Keay
TGS • Houston, Texas**

APRIL.6.2019

11:00 am - 3:00 pm



SUPER SCIENCE SATURDAY

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The Southeastern Geophysical Society

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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 credit: Weazelwise.com

Cathedral Caverns State Park — Alabama

Originally called Bat Cave, Cathedral Caverns was opened to the public by Jacob Gurley in the 1950's. The cave was renamed because of its cathedral-like appearance. Purchased by the state in 1987, it was opened as a State Park in the summer of 2000. The first feature most people notice about Cathedral Caverns is its massive entrance. The huge opening measures 126 feet wide and 25 feet high, a possible world record for commercial caves. The grand entrance is only the beginning. Inside the cavern are some of the most beautiful formations Mother Nature has ever created including "Goliath"- one of the largest stalagmites in the world measuring 45 feet tall and 243 feet in circumference.

Cathedral Caverns features many amazing sites: a "caveman" perched atop a flowstone wall, a "frozen" waterfall, a large stalagmite forest and a most improbable stone formation - a stalagmite that is 27 feet tall and 3 inches wide!

Information courtesy of Alabama
State Parks website:
[Cathedral Caverns State Park](http://CathedralCavernsStatePark.com)



Cathedral Caverns entrance

From the Editor

The government shutdown has been wreaking havoc with our lined-up monthly speakers. Some speakers are federal workers that have been furloughed. Hence, they are unable to present their scheduled talk. Although at this moment the shutdown is over until Feb. 15th, the planned February speaker was replaced by James Keay from TGS. The talk will be "Lower Paleozoic Reservoirs in the Delaware Basin: Gas and Liquids Distribution." The March speaker is also a federal employee, Mike Celata from BOEM. This talk will be a joint meeting with SPE. We will see what happens.

Also, Mardi Gras madness is upon us this month in New Orleans and other pseudo-civilized cities. Most of us know about Mardi Gras but, there's lots of craziness and strange events in our world and beyond. The giant spinning ice disc in the Presumpscot River in Westbrook, Maine, is most unusual, although it is not paranormal. Fast moving currents in the river can create a force called rotational shear that can break off a chunk of ice and cause it to spin.

Elsewhere in the universe, on Earth's moon, China planted cotton seeds that sprouted in a controlled environment. However, the little plants did not survive. They also sent fruit flies, and really, if anyone has had fruit flies in their kitchen, they know that this is cuckoo. This mission was a prelude to the preparation of sending Chinese astronauts to the moon. If they really wanted something to survive on the moon, they should have sent cockroaches.

Laissez les bon temps rouler!

Fran
Fran Wiselady,
NOGS LOG Editor



FROM THE PRESIDENT **ALEX JANEVSKI**

New Orleans winters are short, and the occasional 70-degree day always makes me feel like spring is just around the corner. This is quite unlike when I lived in Michigan where it might snow until May, and warm weather and waking from the winter slumber always felt months away. But for New Orleans, and for NOGS, it is already time to think about renewal. In just a few months we will consider candidates for the Board of Directors. If you are interested in serving on the Board, I encourage you to contact our Nominating Committee Chair, Brenda Reilly. Of immediate need is a new Editor-elect on the Board. Grant Black, who was elected Editor-elect last year, has moved to Oklahoma after a year and a half serving on the Board (for which I thank him). This leaves us with a vacancy for a good Editor who will maintain the quality of the *NOGS LOG*, and getting your feet wet by serving on the Board as Editor-elect for a few months is a good idea.

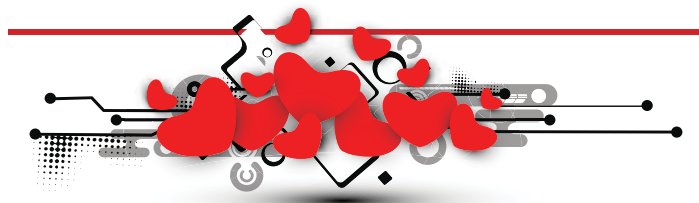
Speaking of Board changes, my own position as President will likely also come to an early end. In late November I resigned from my job at Shell after almost eight years as a production geologist. Much has been written about the generational changes in the American workforce. Gone are the days of spending your lifetime with a company, getting a retirement watch, and receiving a nice pension. Loyalty is out and changing careers, often without a choice, is in. But my change is driven more by another generational shift in America, which is that my partner, Rosalyn, found a job out-of-state. Like me, she earned a doctorate (hers in Applied Mathematics), and has been pursuing her own career, having found opportunities up until recently in New Orleans. When she was offered a long-term appointment at Los Alamos National Lab, back in her home state of New Mexico, it was hard to say no. It will be hard to leave New Orleans behind, but I have to admit I am looking forward to seeing geology on something other than a workstation. Once we sell our home here and I find employment in New Mexico, it will be time for me to move on and join Rosalyn for the next stage of our two careers.

In academic circles the difficulties faced by dual-career couples is sometimes called the two-body problem (a nerdy reference to a problem in classical mechanics).

Most universities are working towards accommodating couples in this position. Some employers do, although this is far from common. What this means is that young workers today are faced with uncertainty, changes, and complicated problems of work and life that require flexibility. What it likely means for NOGS is a more rapid turnover of membership, and a stronger need than ever to engage with young workers, to provide stability, career development, and professional connections that help them make transitions. It likely also means being flexible as an organization with more frequent career changes among members and leadership. We also should also be aware that according to the American Geosciences Institute, for some years now about 40% of geology students, at both undergraduate and graduate levels, have been women (both numbers have actually declined from a peak of just under 50%)¹. This means that over time NOGS membership should grow to include a higher ratio of women. The current NOGS Board is $\frac{1}{3}$ female, which is a good sign. You will soon see a membership survey from us as well so we can try to understand the demographics of current NOGS membership, to help determine which, if any, members we are missing, and to ensure that we are meeting the needs of our current membership, of every demographic. Just as the seasons continuously change, so must we.

References

- 1) Keane CM. 2016. *Geoscience Currents*. No. 110. June 2, 2016. (<https://www.americangeosciences.org/sites/default/files/currents/Currents-110-GenderEnrollments2015.pdf>)



Valentine's Day Fun Facts

Every year, more than 36 million heart-shaped boxes of chocolates are sold across the country.

The average man spends \$130 on Valentine's Day, while women spend about \$70.

Every year, around 9 million people buy their pets a Valentine's Day gift.

February 14th is the second largest card-giving day of the year, just after Christmas. This year, it's expected that one billion cards will be exchanged around the world.

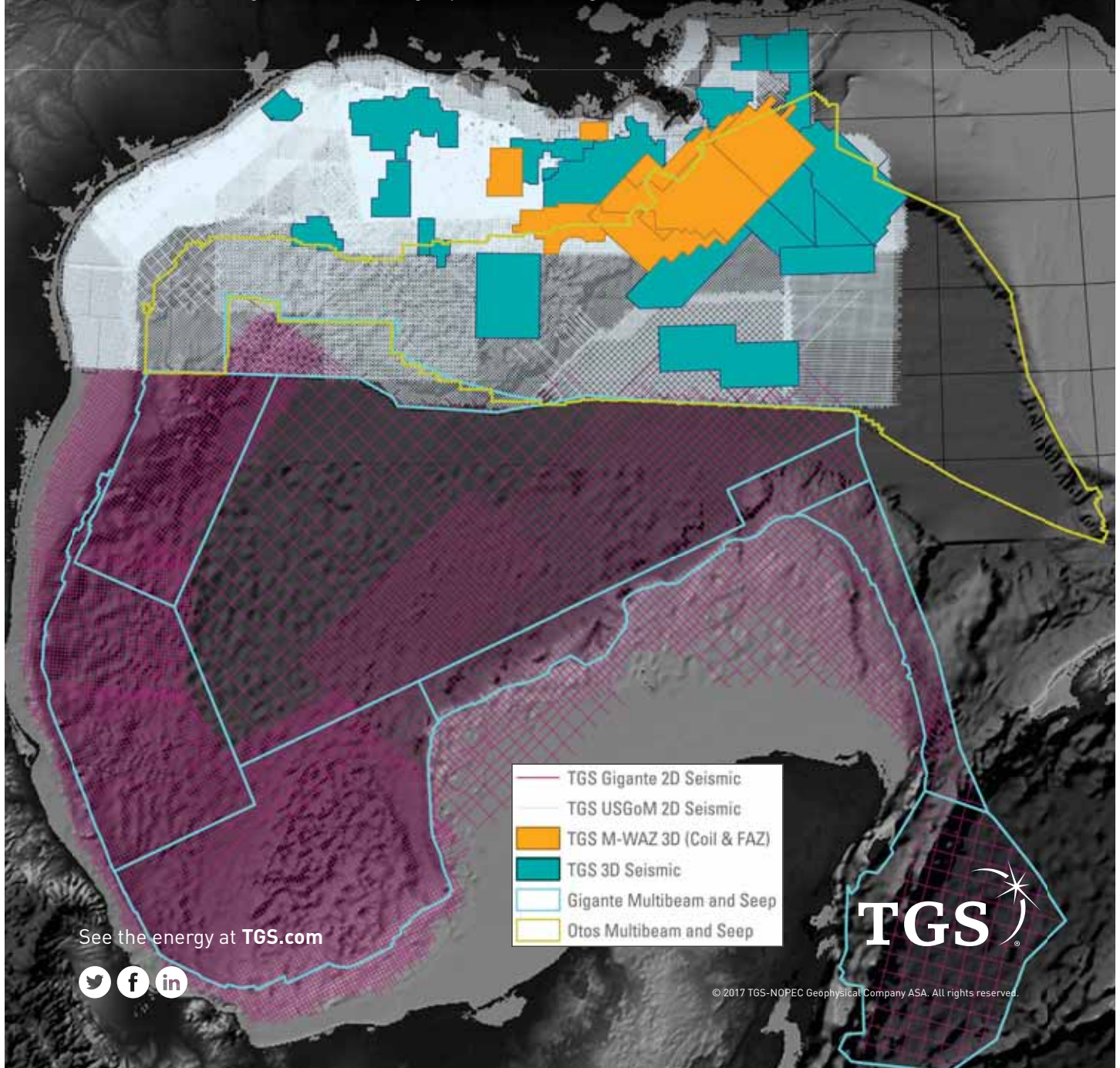
Teachers receive the most Valentine's Day cards, followed by kids, mothers, wives and girlfriends.

Hallmark was one of the first to mass produce a Valentine's Day card, all the way back in 1913.

The only other day that beats Valentine's Day in floral sales is Mother's Day.

Set your sights. **Gulf of Mexico**

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.





NOGS Contact Information

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

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February 4 • NOGS Luncheon

Holiday Inn Downtown Superdome

\$3.00 validated parking in hotel garage

Presentation:

**Lower Paleozoic Reservoirs in the Delaware Basin:
Gas and Liquids Distribution**

Guest Speaker:

James Keay

TGS • Houston, Texas

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

March 12

SPE/NOGS Joint Luncheon Presentation

Speaker: Michael Celata - Director of GOM Regional BOEM

Holiday Inn Superdome • New Orleans, Louisiana

May 3

NOGS-PLANO-SPWLA Golf Tournament

Bayou Oaks at City Park • New Orleans, Louisiana

See page 19 for more details or www.nogs.org

**VOLUNTEERS
NEEDED!**

April 6

Super Science Saturday

Louisiana Children's Museum • New Orleans, Louisiana

For more information: tom.bergeon@upstreamexp.com

**VOLUNTEERS
NEEDED!**

May 19-22

AAPG Annual Convention

Henry B. Gonzalez Convention Center • San Antonio, Texas

For more information: <https://ace.aapg.org/2019>

NOGS CONTACT LIST

Continued from previous page

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2018-2019	Trustee	Kelli Hardesty
2018-2019	Trustee	William M. Whiting
2019-2020	Trustee	David Reiter
2019-2020	Trustee	TBD
2020-2021	Trustee	TBD
2020-2021	Trustee	TBD

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Term Ends

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2018	William M. Whiting
2018(a)	Dave Balcer
2020	Elizabeth McDade
2020(a)	G. Alex Janevski

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February 4 NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

Lower Paleozoic Reservoirs in the Delaware Basin: Gas and Liquids Distribution

Presented by

James Keay

TGS • Houston, Texas



ABSTRACT

We discuss early results of a project in the Delaware Basin aimed at providing a more comprehensive view of the distribution of gas and liquids. We focus on the lower Paleozoic section, which is well known for prolific dry gas production, and the study identifies

an interesting area of deep gas liquids that may lead to similar play concepts.

A detailed basin-wide stratigraphic framework has been built and well perforations are correlated to specific zones and intervals, enabling accurate assignment of public production data and EUR analysis specific to the producing zones. A basin-wide temperature model offers some insight to the preservation of deep liquids and recent 3D seismic helps characterize these deep traps.

"And Looking Ahead . . ."

The next luncheon will be held on March 12th. Our guest speaker will be Michael Celata, Gulf of Mexico Regional Director of BOEM. Reservations online at www.nogs.org or by email at admin@nogs.org or call 504-348-3500.

BIOGRAPHY

Mr. James Keay has over 30 years experience in international oil and gas exploration and business development. His background is in structural and reservoir geology, and his experience includes exploration throughout North and South America, field development and operations in Canada, and reservoir studies in Colombia, Kuwait and Canada. He has also held senior management positions in international consulting and business development. James leads a team of geoscientists at TGS performing basin and prospect scale analysis in support of TGS's seismic project development. Along with technical evaluation of investment opportunities, the geoscience team contributes to seismic design and imaging, seismic attribute studies, well performance studies, and the development of new interpretation products.

**THE FEBRUARY LUNCHEON RESERVATION
DEADLINE IS FEBRUARY 1.**

www.gcagshouston.com



69th Annual Gulf Coast Association of Geological Societies 2019 GCAGS Convention

October 23-25, Marriott Westchase, Houston

Hosted by the Houston Geological Society and the GCSSEPM

General Chair: Mike Erpenbeck, Vice Chair: Larry Bartell, GCAGS President: Deborah Sacrey

Submit an Oral or Poster Abstract by March 4, 2019



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CALENDAR OF EVENTS: FEBRUARY 2019 - MAY 2019

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.

2019	EVENT	LOCATION	CONTACT / INFO
4 Feb	NOGS Luncheon Presentation Lower Paleozoic Reservoirs in the Delaware Basin: Gas and Liquids Distribution Speaker: James Keay • TGS - Houston, Texas	Holiday Inn Superdome	Reservations: www.nogs.org Email: admin@nogs.org Call: 504-348-3500
7 Feb	NOGA "Day at the Races"	New Orleans Fairgrounds	Contact Sue Baker
4 Mar	CALL FOR PAPERS OR POSTERS - GCAGS Convention Oral or Poster Abstract by March 4th		See page 18 this issue
12 Mar	SPE/NOGS Luncheon Presentation Speaker: Michael Celata • GOM Regional Director, BOEM	Holiday Inn Superdome	Reservations: www.nogs.org Email: admin@nogs.org Call: 504-348-3500
6 Apr	Super Science Saturday	LA Children's Museum	tom.bergeon@upstreamexp.com
15-16 Apr	13th Annual Louisiana Water Conference See page 17 for more information	Dalton Woods Auditorium LSU • Baton Rouge, LA	https://easychair.org/conferences/?conf=lawater2019
15 Apr	CALL FOR PAPERS Petroleum History Institute		Dr. William Brice wbrice@pitt.edu Marilyn Black 814-677-3152 mblack@oilregion.org
3 May	NOGS - PLANO - SPWLA Golf Tournament	Bayou Oaks at City Park New Orleans, LA	Reservations: www.nogs.org Email: admin@nogs.org Call: 504-348-3500
19-22 May	AAPG 2019 Annual Convention & Exhibition Henry B. Gonzalez Convention Center	San Antonio, Texas	https://ace.aapg.org/2019

Picture From Our Past...

1992 NOGS Kick Off Party at the Petroleum Club atop the Energy Center Building



In the photo, left to right: Carlo Christina, Bob Douglass, Ed Picou, Bob Ingham and George Severson

NOGS JANUARY 2019 LUNCHEON

Speaker: Chris McLindon

"Update on the Coastal Geohazards Atlas"



South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

LAFAYETTE DISTRICT, ONSHORE AREA

By Carlo C. Christina and Kevin J. Trosclair

During the month of December 2018, the Louisiana Department of Conservation issued only 3 permits to drill for oil and gas in South Louisiana. These wells are reported below:

NEW LOCATIONS

Firststrike Energy will drill the #1 Columbia Land & Timber, SN 251455, a **Wildcat, (A)**, in Beauregard Parish. The well will test Yegua sands at a depth of 10,700 feet, (9500 feet, TVD). It is located in Sec. 4, 7S-13W, 1½ miles south of production in South Bancroft Field.

In **St. Charles Parish, Bayou Des Allemands Field, (B)**, LLOX is drilling its #1 Sellers Heirs, SN 251479. It is located in Sec.13, 15S-20E on the west flank of the field. It will be drilled to a total depth of 12,340 feet to test Cib op sands. Bayou Des Allemands Field was discovered in 1937. To date, more than 250 wells have been drilled in the field.

Strand Energy will drill the #1 Sibille in **Port Barre Field, St. Landry Field, (C)**, to a depth of 9500 feet to test Frio sands. It will be drilled offsetting shallow production in Sec. 7, 6S-6E on the east flank of the field. The field, a shallow salt dome, was discovered in 1929. To date more than 700 wells have been drilled in the field.

OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During **December 2018**, the BSEE approved 75 Gulf of Mexico drilling permits. **Eighteen** of these were for shelf wells, and **57** were for deepwater wells. Of the total number of permits, there were **6 new well permits**; 2 were issued on the **shelf** and 4 in **deepwater**.

The shelf new well permits were for 1 exploration well and 1 development well. The exploration well permit was issued to **Talos ERT** for their **Ship Shoal 359 #1** well, and the development well permit was granted to **Arena Offshore** for their **South Timbalier 52 #CA-8** well.

The 4 deepwater new well permits were for 2 exploration wells and 2 development wells. The exploration well permits were awarded to **BP Exploration & Production** for their **Mississippi Canyon 430 #1** well and to **Chevron** for their **Walker Ridge 759 #PS-6** well. The development well permits were also given to **BP Exploration & Production** for their **Green Canyon 825 #7** and **826 #8** wells.

On December 31st, **IHS-Petrodata** reported that the Gulf of Mexico mobile offshore rig supply stood at **73**, which is **the same as** last month. The marketed rig supply consisted of **43** rigs, of which **36** were under contract. The marketed rig supply number was also the same as last month, where as the contracted rig supply was **1** more than the previous month. The marketed contracted versus total rig supply utilization rate remained at **58.9%**, and the marketed contracted versus marketed supply utilization rate stood at **83.7%**. By comparison, the December 2017 total fleet utilization rate stood at 37.2% (**versus 49.3% today**) with 35 out of the 95 rigs under contract.

As of December 31st, **BakerHughes** indicated that there were **24** active mobile offshore rigs in the Gulf of Mexico, which is **66.7%** of the rigs under contract mentioned above. This active rig number is **1** more than as reported last month. Of the 24 rigs, **7** are located on the **shelf**, and **17** are situated in **deepwater**. At the same time last year, there were 18 mobile offshore rigs operating in the Gulf of Mexico suggesting a **33.3% increase**.

As of December 31st, the **BakerHughes** total U.S. rig count stood at **1083** rigs, which are **7 more** rigs than reported at the end of November 2018. Of the 1083 rigs, **885 (81.7%)** are **oil rigs** and **198 (18.3%)** are **gas rigs**. A year ago, there were 929 rigs working in the U.S. Thus, the current rig figure represents a **16.6% increase** in rigs. **Texas** had the largest number of rigs with **532**, which is slightly under half (49.1%) of the total number of rigs in the U. S. **Louisiana** had a total of **67** rigs, **up 2 rigs** from last month.



Onshore & Offshore Activity Map for South Louisiana

FEBRUARY 2019



13th Annual Louisiana Water Conference

April 15-16, 2019

Dear Colleagues:

Louisiana Geological Survey (LGS), LSU Agricultural Center (AgCenter), and Louisiana Water Resources Research Institute (LWRRRI) are co-hosting the 13th Annual Louisiana Water Conference, April 15-16, 2019 at Louisiana State University, Baton Rouge, Louisiana.

You are cordially invited to submit titles and abstracts to the Water Conference.

The Conference offers 1 PDH Ethics Lecture for Professional Geologists (PG) and Professional Engineers (PE) and certificates of Continuing Education Units (CEUs).

Conference announcement (LAWater 2019 CFP): <https://easychair.org/cfp/lawater2019>

Title/Abstract submission (LAWater 2019): <https://easychair.org/conferences/?conf=lawater2019>

Important Dates:

Title and Abstract Submission Open: Now

Registration Open: January 2, 2019

Title Due: February 15, 2019

Abstract Due: March 15, 2019

Early Registration Deadline: March 15, 2019

Conference Days: April 15-16, 2019

Ethics Lecture for Geoscientists and Engineers (1 PDH): TBA

Conference Location:

Dalton Woods Auditorium, Energy, Coast & Environmental Building,
Louisiana State University • Baton Rouge, Louisiana

Program Committee:

Douglas Carlson, Louisiana Geological Survey (co-chair)

Ryan Clark, The Water Institute of the Gulf

Stacia Davis Conger, LSU AgCenter, Red River Research Station

Mark Davis, Tulane University, Tulane Institute on Water Resources Law and Policy

Mary Gentry, Louisiana Department of Environmental Quality

Emad Habib, ULL, Department of Civil Engineering

Krishna Paudel, LSU AgCenter and LSU Agricultural Economics and Agribusiness (co-chair)

Frank Tsai, LSU Department of Civil and Environmental Engineering (co-chair)

Thomas Van Biersel, Louisiana Department of Natural Resources

Carol Wicks, LSU Department of Geology and Geophysics

Jun Xu, LSU School of Renewable Natural Resources

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:

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2019 Annual Golf Tournament

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City Park • New Orleans, LA

Friday • May 3, 2019

Format: 4-person scramble
with shotgun start at 8:30 a.m.

Post tournament lunch sponsored by
Diversified Well Logging

Registration opens at 7:00 a.m.
with breakfast served until tee time (8:30 a.m.)

Price includes green fees, cart, range balls, food & drinks, and prizes.

What else could you possibly ask for?

Costs:

\$150/individual • \$700/corporate • Hole sponsors are \$125

A portion of your tournament participation fee may be tax deductible under the NOGS Memorial Foundation 501(c)3.

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