

NOGS LOG

JUNE 2018

Volume 58, Number 12



JUNE 4 - NOGS LUNCHEON PRESENTATION

**A Qualitative Examination of Direct Hydro Carbon Indicators (DHI's)
on Seismic Data**

**Guest Speaker: John R. Dribus
Schlumberger • New Orleans, Louisiana**

RUBY FALLS

Located 1120 feet within Lookout Mountain, Tennessee (near Chattanooga), Ruby Falls is a 145 foot underground waterfall.

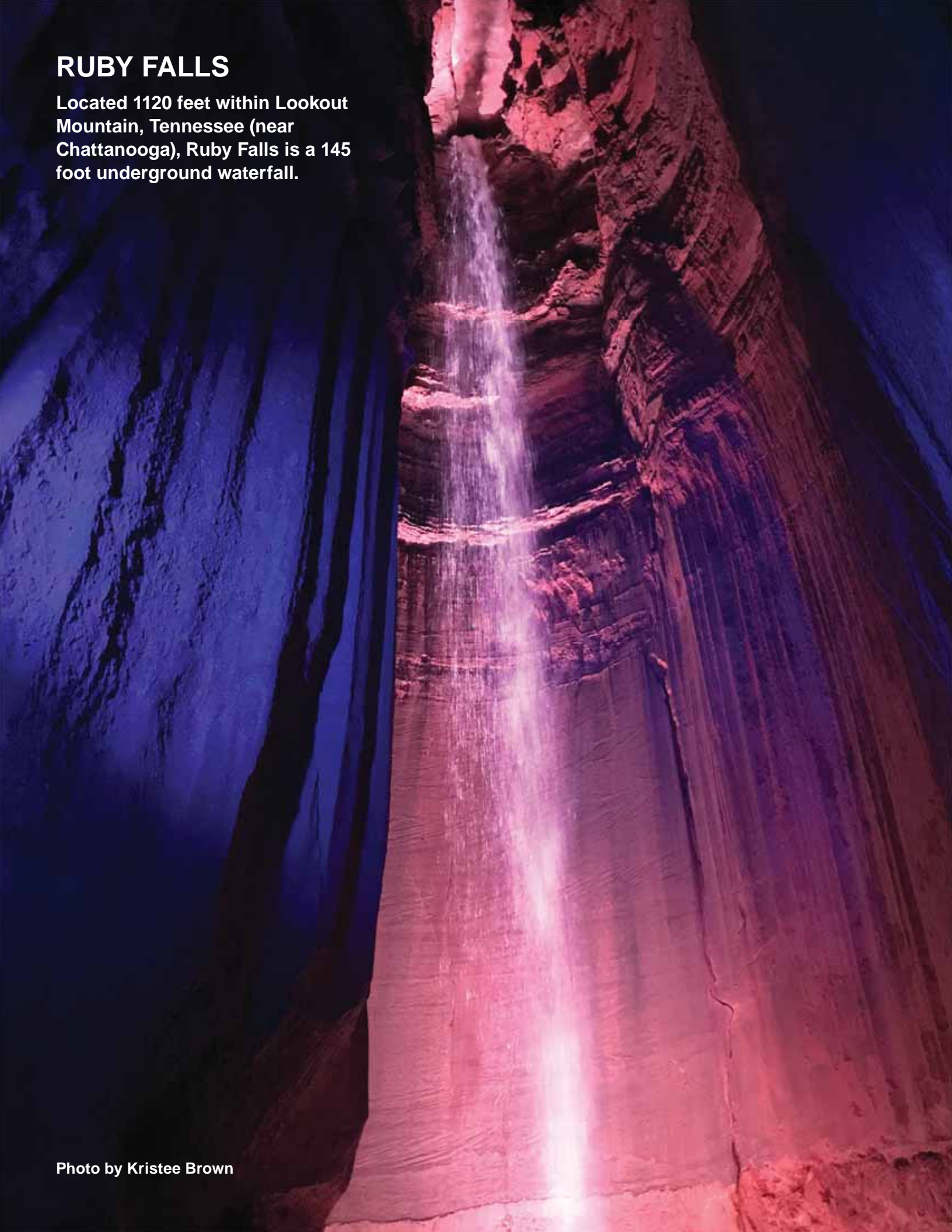


Photo by Kristee Brown



Published monthly by the New Orleans Geological Society. This issue was sent to press on May 31, 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 info@nogs.org.

IN THIS ISSUE

Regular Features:

On The Cover	3
From the Editor	3
From the President	4
NOGS Officers / Contacts	6
Upcoming Events & Activities	7
NOGS Luncheon Presentation	8
Calendar of Events: June - September	10
Drill Bits	14
NOGS Memorial Foundation & FONO Fund	21

Special Features:

Past Presidents' Luncheon	4
DWTS 2018 Save the Date!	5
New 2018 Ad Rates!	10
Super Science Saturday!	11
Super Science Saturday Photo Collage	12
LA Coastal Geology Symposium 2018	16
The NOGS Store	19
Like Us on Facebook!	20

on the cover

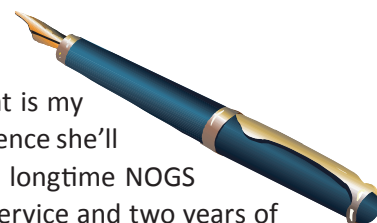
Cover photo by Laura Sorey

Strong River at D'Lo, Mississippi

While it's not difficult to find a grander, more dramatic stream, this month's cover photo taken in D'Lo, MS, features one of my favorite rivers. The Strong River is a little over 95 miles in length and flows from Bienville National Forest in Scott County down to its confluence with the Pearl River in Copiah County. Fans of the Coen Brothers may recognize the Strong at D'Lo as the site of the "Siren Scene" in *O Brother, Where Art Thou?*, but it's better known to Mississippians mostly as a pretty place with a funny name. Sources disagree on the origins of the word "D'Lo" (pronounced Dee-Low). Research suggests it's a phonetic spelling of the French term, "De'l'eau." More colloquial sources claim it to be the censored version of the suggestion to name the town "Too Damn Low," a reference to seasonal flooding from the Strong. The Miocene aged rocks of the Catahoula Formation at D'Lo themselves are noted less for their geologic significance than for their association as a sacred place within Choctaw tradition due to an unusual feature. At low water, the river makes an audible, strumming-like noise due to cavitation from the irregular sandstone surfaces as the water rushes over the rapids. The Strong may not be majestic, but it does sing.

From the Editor

After two years as serving as NOGS Editor, it's strange to write this note knowing that is my last for the *NOGS LOG*. Fran Wiseman will return as Editor, and I look forward to the excellence she'll bring to the role. But first, I'd like thank a very important person. Annette Hudson, the longtime NOGS office manager, is retiring this September from NOGS after almost twenty-five years of service and two years of helping an occasionally hapless *NOGS LOG* Editor keep it together. I originally planned to feature a whole write up on Annette with the help of Ed Picou, but upon further reflection I opted for this note since Annette shuns even well-deserved recognition. Even now I struggle to find the adequate words to express my gratitude for what she's done for me, so this may just have to suffice. When I ask stupid questions, she answers without judgment. When I was laid off, her words of encouragement were some of the first that actually comforted me. When I was embarrassed to tell anyone that I couldn't attend the NOGS President's Luncheon because \$50 is a lot of money when you're unemployed, she insisted on paying my way. She works on behalf of others with no expectation of recognition. Above all, Annette is kind and honest and matters so much to so many people.



Laura
Laura Sorey, Editor



FROM THE PRESIDENT **CHRIS MCLINDON**

The core mission of the New Orleans Geological Society played out over a span of four days in May 2018. On Tuesday May 15th, hundreds of students and teachers filed through the NOGS exhibits at the Core Element Stem Fest held at the New Orleans Baby Cakes facility. Tom Bergeon and his crew of volunteers put together a sequential exhibit that included hands on interaction with oil reservoirs and structural traps, Dave Cope's 3-D workstation, and the augmented reality topobox. The topobox looks like a sand box with a digital scanner and projector mounted above it. As students mold and shape the surface of the sand, the color-coded topography is projected onto the surface and updated in real time. Needless to say, the whole exhibit was a huge hit, and got students and teachers fired up about earth science as well as oil and gas exploration and production.

On Thursday May 17th the Louisiana Legislature unanimously passed Senate Concurrent Resolution 86, which requests the oil and gas industry in Louisiana to support the construction of the Louisiana Geological Survey Coastal Geohazards Atlas

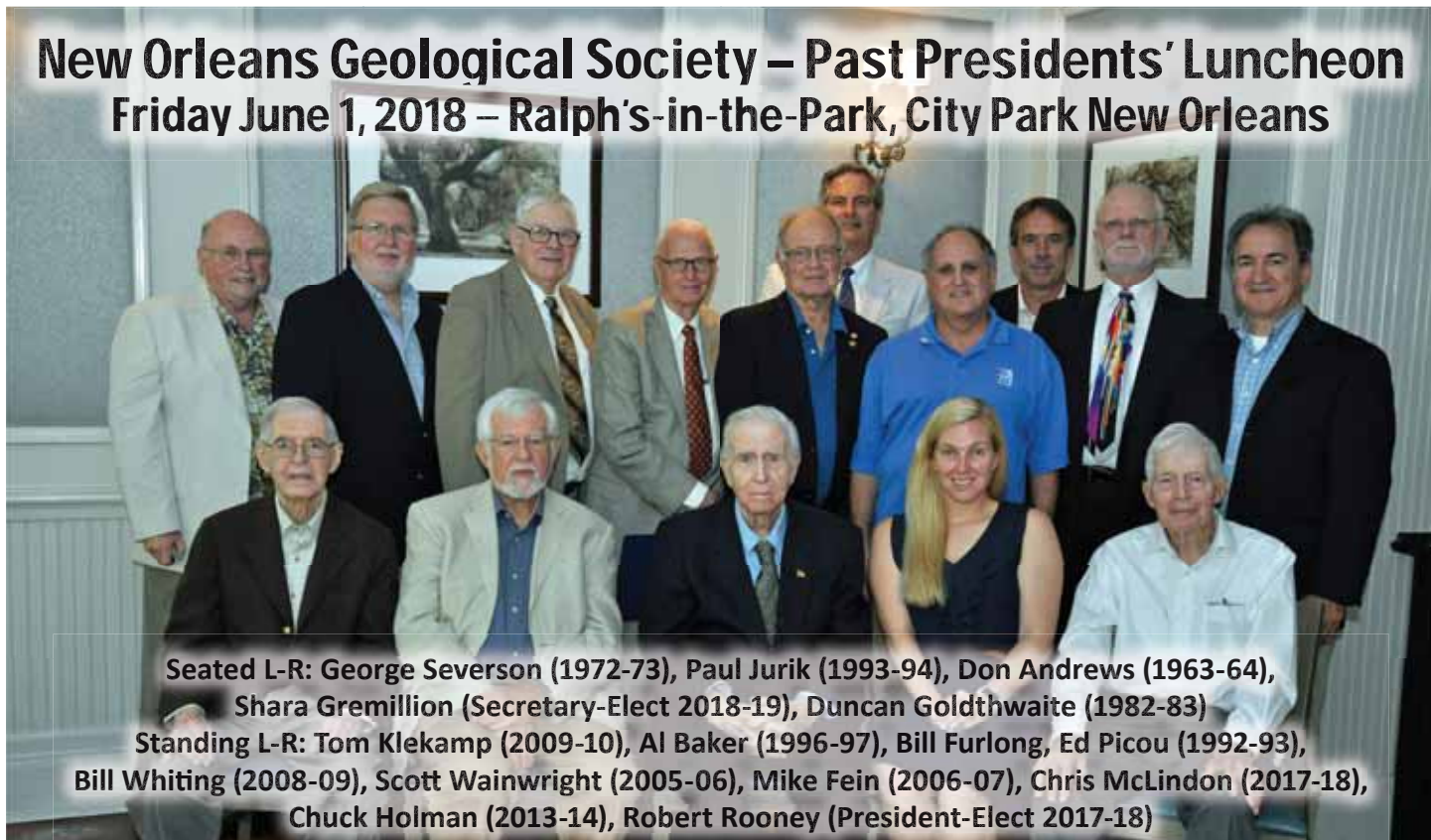
by providing access to interpretations from 3-D seismic data. This resolution not only helps to educate the public about the importance of understanding the role geology in coastal processes, it specifically mentions the role that NOGS is playing in that education. Two weeks after the passage of SCR 86 the value of industry support and engagement was on full display at the State of the Coast Conference. NOGS members Liz McDade and David Culpepper moderated sessions on incorporating subsurface geology into the coastal program, and several other NOGS members gave technical presentations.

On Friday May 18th the NOGS Golf Tournament, co-sponsored with PLANO and SPWLA, was held at the brand-new Bayou Oaks at City Park North Course. Alex Janevske organized the event with reliable support from Annette Hudson, Brenda Reilly, Margaret McKinney, and Dave Reiter. Special thanks also go out to Tim Klibert, Leslie Broussard and the entire crew at Diversified Well Logging, who put on an incredible spread for lunch. By all accounts the tournament was a significant success. This event insures that NOGS will continue to meet its annual pledges to the Louisiana Children's Museum and the St. Tammany Children's Museum.

The NOGS organization will continue to evolve with the times in the coming years. We will forge ahead without a permanent office or a full-time employee of the organization. I believe it is likely that five years from now the *NOGS LOG* will be an exclusive digital document, board meetings will be held online, and that luncheon presentations will be streamed live and recorded for later viewing. The only thing that really matters through all of these changes is that the organization stays true to its core mission. I think the events over these four days in May show that we are excelling at doing just that.

Chris McLindon

New Orleans Geological Society – Past Presidents' Luncheon Friday June 1, 2018 – Ralph's-in-the-Park, City Park New Orleans



Seated L-R: George Severson (1972-73), Paul Jurik (1993-94), Don Andrews (1963-64), Shara Gremillion (Secretary-Elect 2018-19), Duncan Goldthwaite (1982-83)

Standing L-R: Tom Klekamp (2009-10), Al Baker (1996-97), Bill Furlong, Ed Picou (1992-93), Bill Whiting (2008-09), Scott Wainwright (2005-06), Mike Fein (2006-07), Chris McLindon (2017-18), Chuck Holman (2013-14), Robert Rooney (President-Elect 2017-18)

SAVE THE DATE!

22nd Annual Gulf of Mexico

Deepwater

Technical Symposium



August 27-29

2018

***New Orleans Downtown Marriott
at the Convention Center***

www.deepwaternola.org





NOGS Office

Office Manager: Annette Hudson

Email: info@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.

BOARD OF DIRECTORS

		Company	Phone	E-mail
President	Chris McLindon	Upstream Exploration LLC	504-756-2003	chris.mclindon@Upstreamexp.com
Vice President	Robert Rooney	Robert M. Rooney Inc.	504-460-0319	robmrooney@aol.com
Secretary	Grant Black	Chevron	985-773-6882	gblack@chevron.com
Treasurer	Margaret McKinney	TGS	504-524-3450	margaret.mckinney@tgs.com
President-Elect	G. Alex Janevski	Shell	504-425-6214	gregory.janevski@shell.com
Editor	Laura Sorey	EarthCon Consultants	601-421-3352	lc.sorey@gmail.com
Director 2018	Brenda Reilly		504-430-4240	brendaerilly@hotmail.com
Director 2019	Jennifer Connolly	Shell	504-425-6411	jennifer.connolly@shell.com
Director 2020	David Reiter	Stone Energy	504-593-3623	reiterde@stoneenergy.com

COMMITTEE

	Chairperson			
AAPG Delegates	William M. Whiting	Consultant	504-947-8495	bootscon@aol.com
AAPG Student Chapter	Sam B. Shrull	LSU	281-705-3254	sshrul2@lsu.edu
AAPG Student Chapter	Tushar Bishnoi	Tulane University		tbishnoi@tulane.edu
AAPG Student Chapter	Joshua Flathers	UNO	504-952-6437	jrflathe@uno.edu
Advertising-Log	TBD			
Auditing	Al Melillo	Retired - Chevron	504-491-0683	allanmelillo@bellsouth.net
Awards	Michael N. Fein		504-717-6465	lfeinmn1@cox.net
Ballot	Margaret McKinney	TGS	504-524-3450	margaret.mckinney@tgs.com
Best Paper	Bay Salmeron	Chevron	832-854-6431	bay.salmeron@chevron.com
Entertainment	G. Alex Janevski	Shell	504-425-6214	gregory.janevski@shell.com
Environmental	TBD			
External Affairs	TBD			
Finance and Investment	Margaret McKinney	TGS	504-524-3450	margaret.mckinney@tgs.com
Historical	Edward B. Picou, Jr.	Retired - Shell	504-975-3096	epicou@bellsouth.net
Membership/Directory	TBD			
New Geoscientists (NGNO)	Rachel Carter		913-710-8021	r_carter@me.com
Nominating	J. David Cope	Rising Natural Resources LLC	504-214-6754	greatmre@aol.com
Non-Technical Education	Duncan Goldthwaite	Consultant	504-887-4377	DGldthwt@aol.com
Office Operations	Al Melillo	Retired - Chevron	504-491-0683	allanmelillo@bellsouth.net
Publications Sales	Edward B. Picou, Jr.	Retired - Shell	504-975-3096	epicou@bellsouth.net
School Outreach	Thomas C. Bergeon	Upstream Exploration	504-832-3772	tom.bergeon@upstreamexp.com
Special Projects	TBD			

NOGS LOG STAFF

Editor	Laura Sorey	EarthCon Consultants	601-421-3352	nogseditor@gmail.com
Editor-Elect	TBD			
Auxiliary	NOGA Officers and Directors	NOGA		
Drill Bits	Al Baker	Beacon Exploration, LLC	504-836-2710	ABaker1006@aol.com
Drill Bits	Carlo C. Christina	Retired (C & R Expl. Inc.)		carlocc398@aol.com
Drill Bits	Kevin Trosclair	BOEM	504-202-7997	kevintrosclair@gmail.com
Staff Photographer	Arthur Christensen	Shalimar Consulting	985-893-2013	arthur_shalimar@yahoo.com
Layout / Printing	Kristee Brown	Creative Graphics & Printing, LLC	985-626-5223	kpbrown@bellsouth.net
Webmaster	Charles Miller	OCSBBS Website		

NOGS AUXILIARY

Officers		Phone	Directors	Year	Phone
President	Margie Conatser	504-469-2496	Linda Pierce	2016-18	504-393-7365
Vice-President	Camille Yeldell	504-835-7467	Genny Melillo	2016-18	985-725-1553
Secretary	Trez Marie Zotkiewicz	504-831-3023	Penny Bryant	2017-19	504-831-7744
Treasurer	Judy Lemarié	504-393-8659	Loretto Stephens	2017-19	504-451-3472
Parliamentarian	Alma Dunlap	504-737-2678			
Member-at-Large	Trudy Corona	504-737-6101			



U
P
C
O
M
I
N
G

June 4 • NOGS Luncheon

Holiday Inn Downtown Superdome

\$3.00 validated parking in hotel garage

Presentation:

A Qualitative Examination of Direct Hydro Carbon Indicators (DHI's) on Seismic Data

Guest Speaker:

John R. Dribus

Schlumberger • New Orleans, LA

See page 8 and 9 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

July 9

NOGS Luncheon

Holiday Inn Downtown Superdome • New Orleans, Louisiana
For more info, annette@nogs.org or 504-561-8980

August 27-29

22nd Annual Gulf of Mexico Deepwater Technical Symposium

N.O. Downtown Marriott Convention Center • New Orleans, Louisiana
For more information: www.deepwatermola.org/

July 10-11

Louisiana Coastal Geology Symposium

Dalton J Woods Auditorium • LSU • Baton Rouge, Louisiana
For more information: www.lsu.edu/ces/conferences/lcgs2018/indwx.php

September 17-21

Applied Stratigraphix

"Halokinesis and Sequence Stratigraphy of Salt Plays"
For more info, info@stratigraphyhelp.com or 720-434-3864

NOGS CONTACT LIST

Continued from previous page

MEMORIAL FOUNDATION

BOARD OF TRUSTEES

2017-2018	Chairman	Al Melillo
2017-2018	Secretary	Chris McLindon
2017-2018	Trustee	Chuck Holman
2017-2018	Trustee	Al Baker
2018-2019	Trustee	Kelli Hardesty
2018-2019	Trustee	William M. Whiting
2019-2020	Trustee	David E. Reiter
2019-2020	Trustee	TBD

Company

Retired - Chevron
Upstream Exploration LLC
Beacon Exploration, LLC
ERM
Consultant
Stone Energy Corporation

Phone

504-491-0683
504-756-2003
504-975-6735
504-836-2710
504-846-9245
504-947-8495
504-593-3623

E-mail

allanmelillo@bellsouth.net
chris.mclindon@upstream.com
charleswholman@bellsouth.net
abaker1006@aol.com
kelli.hardesty@erm.com
bootscon@aol.com
reiterde@stoneenergy.com

AAPG DELEGATES

Term Ends

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

Reservoir Frameworks LLC
Consultant
Shell

985-630-6898
504-947-8495
504-425-6214

earlcumming@bellsouth.net
bootscon@aol.com
balcer@bellsouth.net
elizabeth_mcdade@fmi.com
gregory.janevski@shell.com



June 4 NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

A Qualitative Examination of Direct Hydro Carbon Indicators (DHI's) on Seismic Data

Presented by

John R. Dribus

Schlumberger Oil Field Services • New Orleans, Louisiana

ABSTRACT

Since the first HCI (hydrocarbon Indicator) was mapped in the Gulf Of Mexico during the 1980's, explorationists have been using impedance contrast and geometry anomalies to prospect for and assess the risk of gas and some oil accumulations in the shallow clastic section above 15,000 feet. Many companies have made substantial discoveries as a result of utilizing DHI's analysis work flows, while others have gone out of business by relying only on DHI's to fill their prospect portfolios. This talk will discuss the historical development of DHI prospecting and examine various types of DHI's from "amplitude anomaly" bright spots, to up-dip dim-outs in the geopressured section, to attenuation and sag anomalies, and also review geometric anomalies including flat spots and gas plume/chimney/cloud anomalies. The talk will also address pitfalls of using DHI's including a discussion of low saturation gas anomalies and other features that can create DHI-looking events. The talk will conclude with a discussion of utilizing certain aspects of DHI's to augment the geologic risk analysis process such as structural conformance, internal mottling, and amplitude over background considerations.

BIOGRAPHY

John Dribus is the Global Geology Advisor for Schlumberger Oil Field Services. He is a Reservoir Geologist with over 40 years' experience, and has worked all aspects of petroleum exploration, exploitation, and production geology. He worked five years as a uranium field geologist, and then 20 years



for Mobil Oil Corporation as a petroleum geologist, including 14 years working the deep water Gulf of Mexico and subsalt province, and managing their Gulf of Mexico Geologic Risk Analysis team.

He has worked the past 19 years for Schlumberger as Northern Gulf of Mexico Data and Consulting Services Manager, and as the Global Geologic Advisor for exploration projects. He has worked deep water basins along the Atlantic margin from W. Greenland down to the Malvinas/Falkland Island Basins, including the Gulf of Mexico. His primary focus has been on understanding the petroleum systems characteristics of basin fan floor and channelized turbidites, pre-salt and subsalt reservoirs, and other clastic and bioclastic reservoirs of the Atlantic margin basin.

He is the former Chairman of the Advisory Board of the American Petroleum Institute (API) Delta Chapter, serves on the Imperial Barrel Award (IBA) Committee of the American Association of Petroleum Geologists (AAPG), and is a member of the AAPG (30 years), New Orleans Geological Society (NOGS), Houston Geological Society (HGS), and the Society of

Petroleum Engineers (SPE), and European Association of Geoscientists and Engineers (EAGE). In 2013, he was recognized by the Society of Petroleum Engineers with the Eastern North America Region Reservoir Description and Dynamics Award. In 2014, he was an invited speaker at both the AAPG Discovery Thinking Forum and Playmaker Forum, and received the Meritorious Service Award from the American Petroleum Institute (API) Delta Section. In 2017 he was recognized by the AAPG as an AAPG Heritage Geologist at the 100th Annual Convention in Houston. In 2018, he will receive the 2017 A.I. Levorsen Memorial Award for best technical paper at the GCAGS Annual Meeting (different paper).

THE JUNE LUNCHEON RESERVATION DEADLINE IS JUNE 1.

"And Looking Ahead . . ."

The next luncheon will be held on July 9. Our guest speaker, David Kosmitis from Talos Energy LLC, will present "The Zama Discovery in Salina del Istmo Basin, Offshore Tabasco: 'New Dawn' for Offshore Mexico Exploration." Contact Annette at annette@nogs.org or use the PayPal link at www.nogs.org to make your reservation.

Halokinesis and Sequence Stratigraphy of Salt Plays

Sept 17-21, 2018

WHO SHOULD ATTEND

- Geologists
- Geophysicists
- Petrophysicists
- Engineers

This course is meant for all who are working on mobile substrate basins, especially the GOM, Angola and Brazil

YOU WILL LEARN HOW TO:

- Relate seismic facies to reservoir and non-reservoir rocks
- Interpret salt-related plays on seismic data
- Determine timing of deposition vs salt movement
- Describe mixed evaporite-carbonate-siliciclastic successions



www.stratigraphyhelp.com

TRIP HIGHLIGHTS

- Chartered flight over structures produced by salt tectonics
- Seismic-scale diapirs
- Minibasins in outcrop
- Core workshop on salt-encased reservoir sandstone

\$4250/person – this price includes tuition, course manuals, exercise materials, hotels, all meals, transportation and pick-and-drop from the airport, and 1-hour long overflight. To register e-mail us: info@stratigraphyhelp.com or call (720) 434-3864



CALENDAR OF EVENTS: JUNE - SEPTEMBER 2018

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.

2018	EVENT	LOCATION	CONTACT / INFO
1 Jun	Start of Hurricane Season		
4 Jun	NOGS Luncheon Presentation "A Qualitative Examination of Direct Hydro Carbon Indicators (DHI's) on Seismic Data" Speaker: John Dribus • Schlumberger	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
4 Jul	Independence Day		
9 Jul	NOGS Luncheon Presentation "The Zama Discovery in Salina del Istmo Basin, Offshore Tabasco: 'New Dawn' for Offshore Mexico Eclploration" Speaker: David Kosmitis • Talos Energy, LLC	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
10-11 Jul	Louisiana Coastal Geology Symposium	LSU Baton Rouge, LA	http://www.lsu.edu/ces/conferences/lcgs2018/index.php
27-29 Aug	22nd Annual Gulf of Mexico Deepwater Technical Symposium	N.O. Downtown Marriott Convention Center	http://www.deepwaternola.org/
17-21 Sep	Applied Stratigraphix "Halokinesis and Sequence Stratigraphy of Salt Plays"		info@stratigraphyhelp.com 720-434-3864



Contact:
Annette Hudson
info@nogs.org

2018 ADVERTISING RATES

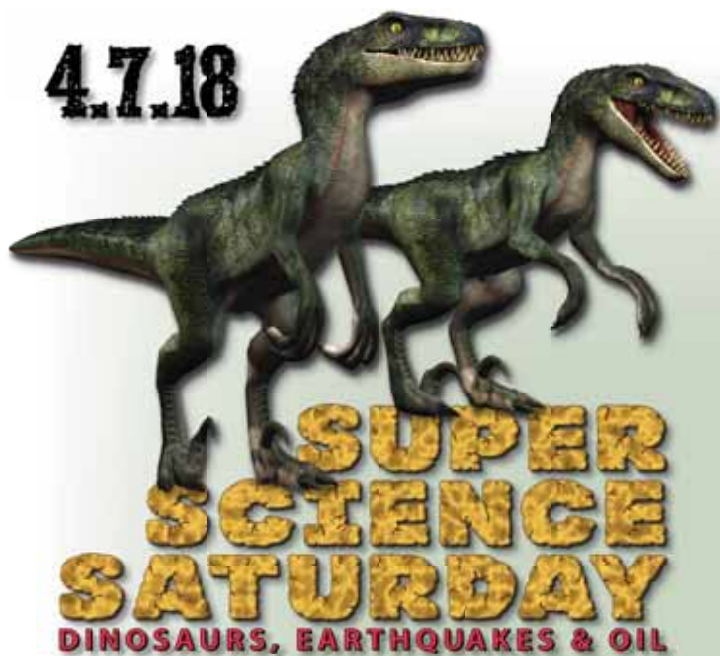
The New Orleans Geological Society was formed in 1941, with an initial membership of only 55. It has always been an active professional society and presently has a membership of 500.

AD SIZE	2015 RATE	NEW 2018 RATE!
Full Page (7.5"x10")	\$3500	\$1750
Half Page (3.75"x10" or 7.5"x5")	\$1850	\$925
Quarter Page (3.75"x5" or 7.5"x2.5")	\$1000	\$500
Eighth Page (3.75"x2.5")	\$600	\$300
Twelfth Page (3.75"x1.65")	\$375	\$188
Note Size (3.75"x.75")	\$120	\$60

PREMIUM LOCATIONS

Inside Front Cover.....	+30%
Opposite President's Page.....	+20%
Opposite Oral Abstract.....	+20%
Inside Back Cover.....	+30%
Outside Back Cover.....	+40%





On Saturday April 7th, NOGS and SGS hosted the 18th Super Science Saturday at the Louisiana Children's Museum. The event was a huge success with great attendance from children and their families. This year we had wonderful museum weather – cloudy and threatening with 56 volunteers on hand to share in the excitement. T-Rex, allosaurus, and the raptors not only showed their hunting prowess but also their scavenger tendencies. Plenty of aspiring paleontologists scurried around the museum in scavenger hunt mode as well with their prize being a dinosaur bone fragment. The kids not only roamed the Jurassic and Cretaceous stations but were also treated to an exposé on how an oil field forms from many seasoned NOGS professionals and a few adventuresome geology students.

Southeastern University took top honors with 22 volunteers; **Ivy Mincey, Elizabeth Bolton, Hanna Gonzales, Allison Hill, Sierra Allegar, Erica Lovell, Chris Bodet, Rebecca Rushing, Tyler Oliva, Chris Bodet, Casey Webb, Brittany Howard,**

Corrine Zelaya, Jaclyn Scholvin, Stephanie Buch, Amber Dawson, Bethany Duhon, Ashley Culmone, Lacy Loupe, Tyra Flowers, Ariel Cook, and Robert Nelson.

Attending from **LSU** was **Helen Hafner, Jimmy Whitlow, Connor White** and **Grant Allian**. The **Tulane Green Wave** rolled in with **Jon Bridgeman** and **Bobola Akintomide**. **Anthony Rizzi** and **Abby Eckland** from **Loyola** and **Peyton Madere** from **Holy Cross High School** shared their extensive dinosaur knowledge. **UNO** geology students **Jennifer Housey, Joshua Flathers, Ryan** and **Stephanie Jones**. **Jared Bullock** and **Jarrett Levesh** returned again for another NOGS outreach event.

Rounding out our enthusiastic group of volunteers were **NOGS** members **Brenda Reilly, Lisa Kennedy, Monte Shalett, Mike Fauquier, Cliff Williams, Mike** and **Opie Anderson, Leanne French, Anna Strimas** and **Lily, Alex Janevski, Dave Cope, Bill Vollenwider, Doug Bradford, Phillip** and **Sheri Richardson** with their son **Adam, Drew** and **Amanda Akins**, and **Shima Massiha**.

Major thanks to the following people. **Al Melillo** worked as our station co-trainer. **Jim Brooks** was behind the lens taking great photographs of the event. **Jennifer Housey** and **Joshua Flathers** walked the T-rex from **UNO** to the museum. **Bruce Sherman** was instrumental in our Southeastern volunteer drive. **The Louisiana Children's Museum** was so gracious to host us again and big thanks to **Amy, Jacob** and **Cassey**. Special thanks to **Emily Barnitz**, the Early Learning Manager at LCM, who was incredible to work with making the event so successful.

My deepest appreciation for all our great Super Science Saturday volunteers.

Tom Bergeon



SUPER SCIENCE



GE SATURDAY



PHOTOGRAPHY BY JIM BROOKS

OFFSHORE GULF OF MEXICO

SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During **April 2018**, the **BOEM** approved **94** Gulf of Mexico drilling permits. **Twelve** of these were for shelf wells, and **82** were for deepwater wells. Of the total number of permits, there were **15 new well permits in deepwater** and **1 new well permit on the shelf**.

Walter Oil & Gas received the single new well shelf permit for their **South Timbalier 320 #A-2** development well.

The fifteen deepwater new well permits were for **3 development wells** and **12 exploration wells**. Two of the three development well permits were given to **Shell Offshore** for their **Mississippi Canyon 810 #UI-4** and **Alaminos Canyon 857 #GD-3** wells. The third development well permit was granted to **W&T Energy VI** for their **Viosca Knoll 779 #B-17** well. Four companies received exploration new well permits. **Murphy Exploration & Production Company** was given a new well permit for their **Green Canyon 432 #2** well. **Deep Gulf Energy III** received a new well permit for their **Mississippi Canyon 214 #2** well, and **BP Exploration & Production** obtained a new well permit for their **Mississippi Canyon 520 #3** well. The remaining nine of the fifteen deepwater exploration new well permits were awarded to **Shell Offshore** for their **Mississippi Canyon 940 #VA-1, #VA-3, #VA-4, #VA-5, #VA-6, #VA-7, #VA-8 and #VA-9** wells and their **Walker Ridge 508 #14** well. The eight **Mississippi Canyon 940** wells are situated on Shell's **Vito Prospect**, which is comprised of Blocks 940, 941, 984 and 985. The **discovery well** drilled in mid-2009 on **Block 984** by **Anadarko** found **250 feet net oil pay in sub-salt Miocene-aged sands**. Appraisal drilling has established an estimated 300 million BOE reserve potential. Shell, the operator, owns a 63.11% stake in the field, which is located in approximately 4,000 feet of water. Their partner, Statoil, owns the remaining 36.89% interest.

On April 27th, **IHS-Petrodata** reported that the Gulf of Mexico mobile offshore rig

supply stood at **85**, which are **1 more** than last month. The marketed rig supply consisted of **47** rigs, of which **35** were under contract. The marketed rig supply and contracted rig supply numbers were each **1 less** than reported last month. The marketed contracted versus total rig supply utilization rate stands at **41.2%**, and the marketed contracted versus marketed supply utilization rate stands at **74.5%**. By comparison, the April 2017 total fleet utilization rate stood at 46.3% (**versus 55.3% today**) with 44 out of the 95 rigs under contract.

As of April 27th, **BakerHughes** indicated that there were **18** active mobile offshore rigs in the Gulf of Mexico, which is **51.4%** of the rigs under contract mentioned above. This active rigs number is **6 more** than reported last month. Of the 18 rigs, **2** are located on the **shelf**, and **16** are situated in **deepwater**. At the same time last year, there were 17 mobile offshore rigs operating in the Gulf of Mexico.

As of April 27th, the **BakerHughes** total U.S. rig count stood at **1021** rigs, which are **28 additional** rigs than at the end of March 2018. Of the 1021 rigs, **825 (80.8%)** are **oil rigs** and **195 (19.2%)** are **gas rigs**. A year ago, there were 870 rigs working in the U.S. Thus, the current rig figure represents a **17.4% increase** in rigs year over year. **Texas** still has the largest number of rigs with **513**, which is slightly more than half (50.2%) of the total number of rigs in the U. S. **Louisiana** has a total of **60** rigs.

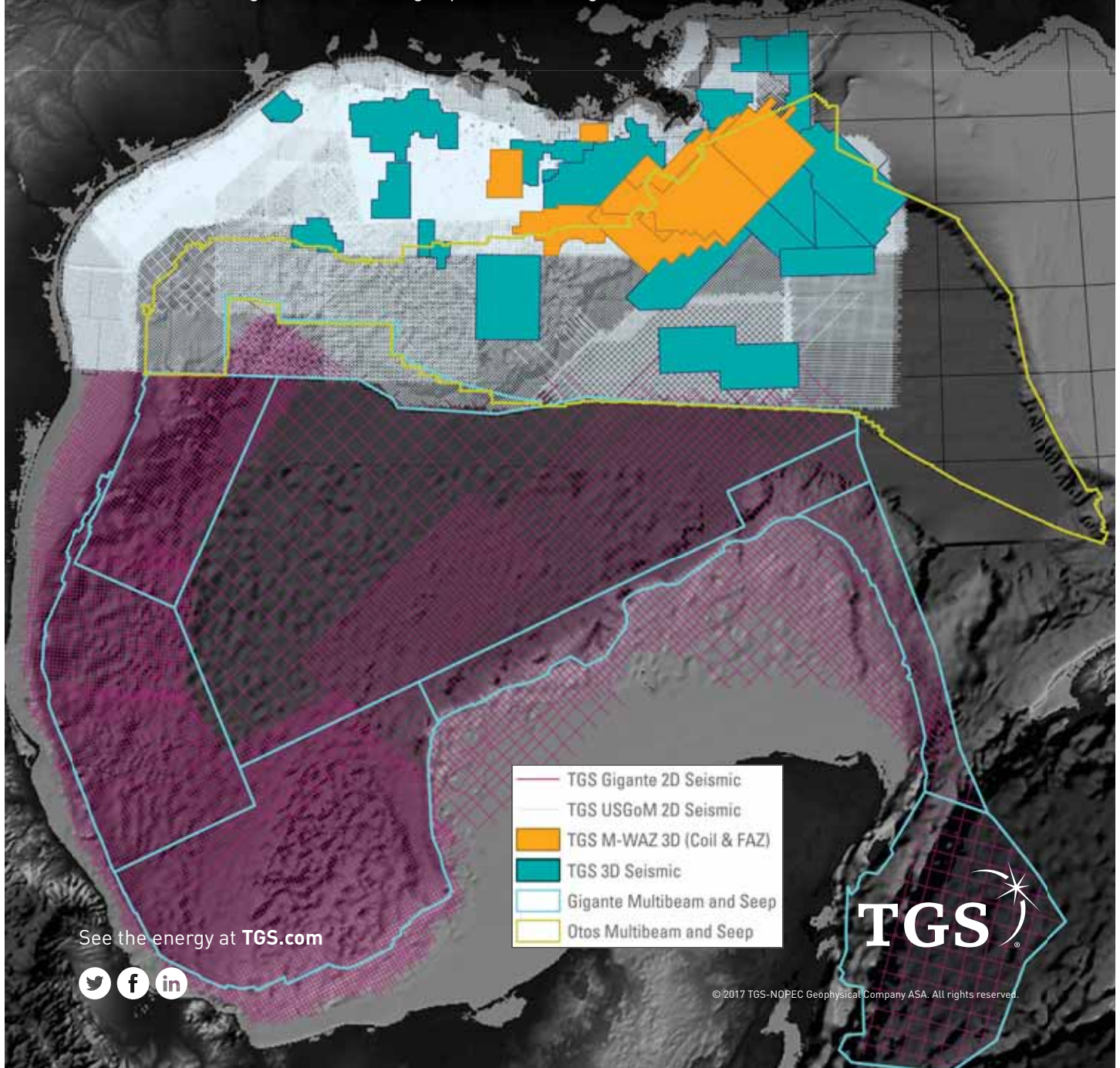
As of April 19th, the **BOEM** had accepted **13** out of the **148** high bids that it received on March 21, 2018 in **OCS Sale 250**. The BOEM has until **June 19th** to review the remaining **135** bids for adequacy.



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.



LSU

Center for Energy Studies

Louisiana Coastal Geology Symposium 2018 July 10-11, 2018

Dalton J. Woods Auditorium • LSU Energy, Coast & Environment Building • Baton Rouge

Presented by: Louisiana Geological Survey and New Orleans Geological Society

Preliminary Call for Abstracts

This symposium will bring together scientists, engineers and policy makers from across a range of disciplines to exchange ideas, interpretations and insights on Louisiana coastal geology – both onshore and offshore – and on associated topics. It will be held in the Dalton J. Woods Auditorium of the Energy, Coast and Environment Building at Louisiana State University. John E. Johnston III of the Louisiana Geological Survey will serve as symposium chair.

You are hereby invited to submit an abstract for consideration as an oral or poster session at the symposium.

Deadline for abstracts: May 30, 2018

Topics for submission related to the Louisiana coast (specifically including the offshore) and its geology include:

Coastal geology • Coastal geohazards • Coastal ecology • Coastal environments • Coastal erosion
Coastal landforms and geomorphology • Coastal oil and gas regulation • Coastal sedimentology • Coastal subsidence
Geological components of coastal sustainability planning • Geological oceanography • New technologies or methodologies
Geological processes affecting the onshore and offshore landscapes
Geology, geomorphology, and geohazards of Louisiana barrier islands • Oil spill studies
Onshore and offshore geological, geophysical, geochemical, sedimentological and paleontological investigations
Onshore and offshore oil and gas exploration and production • Onshore and offshore pipelines • Paleoclimate studies
Planning impacts of coastal geologic features • Salt dissolution • Salt water intrusion • Sea level rise • Tsunamis, waves and tides

Abstracts must be submitted here: <https://easychair.org/conferences/?conf=lcs2018>

Registration Information

- Advance registration must be postmarked by June 30, 2018.
- Checks should be made out to "New Orleans Geological Society" with "LCGS 2018" in the "For" blank
- Regular registration is \$40 until June 30, 2018, and \$80 thereafter.
- Student registration is \$5 until June 30, 2018, and \$10 thereafter.
- Speakers and posters presenters receive free registration.
- Click [HERE](#) for the advance registration form.

Additionally the Louisiana Geological Survey and the New Orleans Geological Society have joined forces in 2018 to lead the development of a Louisiana Coastal Geohazards Atlas. Several presentations will be made regarding the atlas and its progress.

For further information, please contact John E. Johnston III at hammer@lsu.edu.



Drill with confidence.

Diversified Well Logging, LLC brings the accuracy and expertise only a company with over sixty years in the oil and gas industry can deliver. We are your eyes and ears in the field, especially when it comes to deep water or high pressure, high temperature areas.

DWL offers 24-hour formation evaluation. We provide secure and customized real-time data communication, in-house research and development, and 24/7 on-call support for our equipment and our engineers.

Whether you have a 10-day job or a 110-day job, we provide the specialized attention you require. **Our experience means you can be confident in the safety and performance of your well.**



- *Formation Evaluation*
- *Geosteering*
- *Drilling Optimization*
- *Real-time Data Transmission*
- *Early Kick Detection*



Serving the Oil and Gas Industry for Over 60 Years



Continuous innovation, from pore to pipeline.

In 1927, Conrad and Marcel Schlumberger used their new electrical well logging technique to identify formations in the Pechelbronn oil field in the Alsace region of France—a first in the oil and gas industry. Today Schlumberger continues to innovate by introducing pioneering technologies delivered with technical expertise gained from decades of experience. From reservoir characterization and drilling to production and processing, we integrate multidisciplinary products and services to optimize hydrocarbon recovery and maximize production for our customers.

slb.com

Schlumberger

*Mark of Schlumberger. Copyright © 2017 Schlumberger. All rights reserved. 17-05-241970

THE NOGS STORE

OFFICIAL NOGS GEAR

Check out the new NOGS online store for great deals on NOGS branded merchandise like mugs, tote bags, polo shirts, and jackets! It's a great, easy way to support NOGS!



See <http://nogs.org/nogs-merchandise> for more info!



Like us on Facebook!

Our Facebook page for the New Orleans Geological Society is a great way to connect with other geologists and keep up to date with the latest NOGS events, videos, updates, and fun geology tidbits.

Find us at <https://www.facebook.com/nogs.org/>



610 E. Rutland St.
Covington, LA 70433
985.898.3577

Jack M. Thorson
Eric C. Broadbridge
J. Daryl Gambrell

**ROCK SOLID
SERVICE**



Core Lab
RESERVOIR OPTIMIZATION
www.corelab.com
337-837-8616

© 2013 Core Laboratories.
All rights reserved.



Anthony Catalanotto
Manager

**Geological
Geophysical
Land**
Drafting & Graphics

516 Maryland Avenue
Metairie, LA 70003
(504) 481-7291
E-Mail: geodraft@bellsouth.net
Website: www.geodraftinc.com



Domestic &
International



BIOSTRATIGRAPHY

**ANYTIME,
ANYWHERE,
ANY FOSSIL**

Complete paleo services

Largest single-source database

Custom projects & mapping

Multiple fossil disciplines



**504-488-3711
PALEODATA.COM**

LLDG
exploration



Covington Office

1001 Ochsner Blvd., Suite 200
Covington, Louisiana 70433
p: 985.801.4300
f: 985.801.4796

Houston Office

CityCentre Three
842 W Sam Houston Pkwy N
Suite 600
Houston, Texas 77024
p: 281.752.1100
f: 281.752.1199

Scott Office

814 S. Frontage Rd.
Scott, LA 70583
p: 337.408.4000
f: 337.408.4049

www.llog.com

THE NEW ORLEANS GEOLOGICAL SOCIETY MEMORIAL FOUNDATION, INC.

The Memorial Foundation is an IRS Tax Exempt Code #501(c)(3) organization. The Federal I.D. is 72-1220999. Please consider making a donation to the Foundation. Your individual support in any amount will help meet the IRS Guidelines for our Foundation. Thanks!

\$10,000

Gibbet Hill Foundation

*In Memory of Steve & Marion Millendorf, William J. Prutzman,
Roger G. Vincent, Ron Youngblood, Uno Numella and Dr. Robert T. Sellars, Jr.*

\$8,400

NOGS/PLANO Golf Tournament

\$1,000

Chevron Your Cause

Volunteer Hours William D. Haworth and Allen J. Melillo

Mr. Armour C. Winslow

In Memory of Rita Menzel Winslow and Lawrence C. Menconi

\$500

Mr. Thomas C. Bergeon

Mr. Edward Falis, Sampling Associates International, LLC

In Memory of Willis E. Conatser and Mr. Arthur H. Johnson

\$250 TO \$499

Mr. Carlo C. Christina

In Memory of Al Gilreath

Mr. Jeff Jandegian

In Memory of Dr. Raymond W. "Ray" Stephens, Jr., Ron Youngblood and D. William W. Craig

Mr. Reuben J. Klibert, Jr.

In Memory of James Wade Klibert

Mr. Edward B. Picou, Jr.

*In Memory of Arthur H. Johnson, Willis E. Conatser,
Bernard L. Hill, Jr., and Russell H. Nordwell*

UP TO \$249

Mr. Woods W. Allen, Jr.

In Memory of William C. Ward

Mr. Maurice Birdwell

In Memory of Al Gilreath

Mr. Hilary James Brook

Mr. Rob Burnett

Chevron Humankind Matching Funds

Mr. Carlo C. Christina

In Memory of Willis E. Conatser

Carlo and Beverly Christina

In Memory of Arthur H. Johnson

Trudy and Charles Corona

*In Memory of Arthur H. Johnson,
Peter G. Gray, Willis E. Conatser,
James "Jim" A. Hartman, PhD
and all deceased former past
presidents of NOGS*

Ms. Nancye H. Dawers

In Memory of Arthur H. Johnson

Mr. Merle J. Duplantis

Mr. Kenneth Huffman

Mr. Edward J. Graham

Mr. Alex G. Janevski

In Memory of Arthur H. Johnson

Mr. Tom Klekamp

In Memory of Arthur H. Johnson

Ms. Jeannie F. Mallick

Ms. Margaret M. McKinney

Mr. Chris McLindon

New Orleans Geological Auxiliary (NOGA)

In Memory of Earleen Rodan

Mr. Richard Olsen

Mrs. Teresa O'Neill

In Memory of Brian J. O'Neill

Mr. William S. Peirce

Mr. Jack N. Peterson M.D. and Mr. Tom R. Young

In Memory of Arthur H. Johnson

Cecil and Tanya Pickens

In Memory of Willis E. Conatser

Mr. Edward B. Picou, Jr.

In Memory of James "Jim" A. Hartman, PhD

Ms. Nancy Shepard

*In Memory of Clark Kinler
In Memory of Alfred P. Daigle*

Shell Matching Funds

Dr. J. O. Snowden

Ms. Candace V. Strahan

*In Memory of Raymond W. "Ray" Stephens, Jr.,
and James R. Strahan for The Bill Craig Fund*

Mr. David M. Tatum

Mr. William M. Whiting

In Memory of Arthur H. Johnson

Mr. and Mrs. James W. Yeldell

In Memory of Willis E. Conatser

Mr. Jim Zotkiewicz

FONO FUND

The FONO Fund accepts contributions that are invested and the income dedicated to assure sufficient financial resources will always be available to maintain the NOGS business office. Contributors are reminded that donations to the FONO Fund are not covered by the IRS 501(c)(3) tax exempt classification and should be reported as a business expense on your IRS tax report.

UP TO \$249

Mr. Joseph E. Boudreaux

Mr. Merle J. Duplantis

Mr. Dwight Easterly

Mr. Kenneth Huffman

Mr. Tom Klekamp

Mr. James R. Landrem

Ms. Jeannie F. Mallick

Mr. William S. Peirce

Mr. Bay Salmeron

Mr. David M. Tatum

Mr. Roy C. Walther

Contributions for both funds for one year through May 23, 2018. Donations are listed for one year.

<p>ANSYTHE Donald I. Andrews 504-887-3432</p> 	<p>James S. Classen CLASSEN & CO. LLC 6417 Plantation Lane • Boise, ID 83703</p>
<p>THE BOEBEL COMPANY Oil and Gas Investments New Orleans, LA 70153 (504) 866-4313</p>	<p>D-O-R ENGINEERING, INC. 3-D and Geoscience Services 6161 Perkins Rd. Bus: (225) 765-1914 P.O. Box 80812 Baton Rouge, LA 70898</p>
<p>BOO-KER OIL & GAS CORP. Gray S. Parker 826 Union, Suite 300 Bus. (504) 581-2430 New Orleans, LA 70112 Fax (504) 566-4785</p>	<p>EDWARD B. PICOU, JR. Shell - Retired 504-975-3096</p>
<p>C & R EXPLORATION, INC. Carlo C. Christina Lawrence G. Ringham</p>	<p> GEOLOGY ENVIRONMENTAL MANAGEMENT GEM Consulting, LTD Emmitt Lockard Michael Louis Merritt emlockard@yahoo.com admin@gemconsultingltd.com</p>
<div data-bbox="175 678 727 871">  </div> <div data-bbox="152 884 756 1024"> <p><i>Thanks Our Sponsors for Their Support!</i></p> </div> <div data-bbox="324 1039 570 1108"> <p>\$2,500</p> </div> <div data-bbox="105 1144 800 1192"> <p> Diversified Well Logging</p> </div>	<p> THOMAS L. DAVIS GEOLOGIST, Ventura, CA, 93001 tel: 818-429-4278, www.thomasldavisgeologist.com tldavisgeo@gmail.com, +35 yrs exploration & development experience in the western US, overseas and offshore. Prospects, data and field assessments available. Lots of free petroleum geology info at web site.</p>
	<p>ZOT OIL & GAS, LLC Jim Zotkiewicz - Petroleum Geologist Business Phone: 504.267.9138 Email: jimzot38@zotoil.com</p>
<p>SIPES Society of Independent Professional Earth Scientists New Orleans Chapter  For membership info. Contact: Eric Broadbridge - eric@northcoastoil.com 504-884-0049 www.sipesneworleans.org</p>	<div data-bbox="901 1136 1425 1402">  </div> <div data-bbox="927 1417 1417 1465"> <p>Seismic Exchange Inc.</p> </div> <div data-bbox="967 1480 1393 1539"> <p>Strategic Speculative Surveys Geophysical Data Marketing & Management</p> </div> <div data-bbox="1089 1566 1271 1709"> <p>YouR Full Service National Seismic Data Marketing Firm</p> </div> <div data-bbox="896 1757 1440 1787"> <p>DALLAS DENVER NEW ORLEANS TULSA</p> </div> <div data-bbox="984 1829 1391 1894"> <p>201 St. Charles Ave Suite 4300, New Orleans, La 70170</p> </div> <div data-bbox="997 1917 1343 1950"> <p>www.seismicexchange.com</p> </div>
<p> LaBay Exploration Co., L.L.C. 1080 West Causeway Approach Mandeville, Louisiana 70471 (985) 951-2011 www.labayexploration.com</p>	



LOVER'S LEAP LOOKOUT MOUNTAIN

Legend says, a young brave named Sautee fell deeply in love with a beautiful Cherokee maiden, Nacoochee, but their tribes were engaged in a bitter feud. The two finally ran off together. Sautee was soon captured and thrown from the lip of Lovers' Leap. Nacoochee, in despair, quickly followed her lover, leaping to her own death.



NEW ORLEANS GEOLOGICAL SOCIETY

P.O. Box 58108

New Orleans, LA 70158

www.nogs.org



creative graphics
& printing, llc

*Proudly designing and printing the NOGS LOG since 2012!
Specializing in design and printing for the oil and gas industry and their affiliates.*

ID Tags • Numbered Raffle Tickets • Banners • Signs • Posters

Letterhead • Envelopes • Business Cards • Postcards • Newsletters • Custom Forms

Logo Design • Push Cards • Table Tent Cards • Custom Invitations • Magnetic Signs & Business Cards

T-Shirts • Cups • Coozies • Pens • Hats & Caps • Coasters • USB Drives

Full Service, Custom Graphic Design & Printing!

985.626.5223 • 985.630.7824 • kpbrown@bellsouth.net
or contact annette@nogs.org