

# NOGS LOG

JULY 2016

Volume 57, Number 1



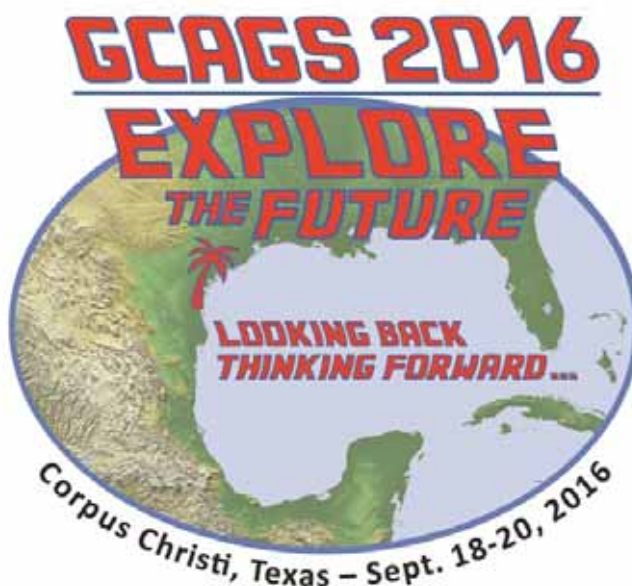
## JULY 11 - NOGS LUNCHEON

**Presentation: Recent Global Deepwater Discoveries and the Look Forward  
for Deep Water Exploration**

**Guest Speaker: John R. Dribus**

**Schlumberger Oilfield Services • New Orleans, Louisiana**

# *Low Oil Prices got you stressed?*



[www.gcags2016.com](http://www.gcags2016.com)

## **YOUR CONVENTION VALUE FOR 2016**

### **Technical Sessions (181 presentations)**

- Gulf of Mexico Systems and Field Studies; Salt Tectonics; Deep Water Plays and Field Studies; Other Gulf Coast Studies
- Understanding the Resource Plays; Conventional Carbonates & Clastics; Plate Tectonics; Uranium
- Reservoir Quality and Prediction; Reservoir Pressure Prediction
- Advances in Geophysical Technologies; New Methodologies; Geo-Education
- Mexico, Latin America, Caribbean
- Climate from Multiple Perspectives; Protecting and Stewarding Water Resources; The Changing Coastal Landscape

### **Field Trips**

- Geology of Holocene Rio Grande Delta (2 days)
- Storm Signals in the Stratigraphic Record
- Ice Age Mammal Fossil Hunt
- Coastal geomorphology field trip from the Nueces River to the Gulf of Mexico, Celebrating South Texas History\*
- Fulton Mansion Tour; Segway Tour of Corpus Christi Bay Front (Guest Activities)

### **Short Courses**

- Depositional Environments from Well Logs\*
- Basic and Advanced Methods of Biostratigraphy
- Geopressure and Prospect Risk Assessment
- Basic Seismic Attributes and AVO

\*Short course/field trip combination compares ancient and modern clastic systems.

*Estimated total attendee cost is less than \$950/person, including early registration, hotel, food, and travel from Houston or San Antonio.*





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This issue was sent to press on June 25, 2016.

**Interested in contributing to the NOGS LOG?** Please submit items by the 1st Friday of the month to [nogseditor@gmail.com](mailto:nogseditor@gmail.com). Advertising requests should contact the NOGS office at [info@nogs.org](mailto:info@nogs.org).

## IN THIS ISSUE

### Regular Features:

On The Cover .....	3
From the Editor .....	3
From the President .....	5
NOGS Officers / Contacts .....	6
Upcoming Events & Activities .....	7
NOGS Luncheon Presentation .....	8
Calendar of Events: July - September .....	11
NOGA News .....	12
Drill Bits .....	18
NOGS Welcomes .....	20
On the Rocks .....	23
NOGS Memorial Foundation .....	25
FONO Fund .....	25

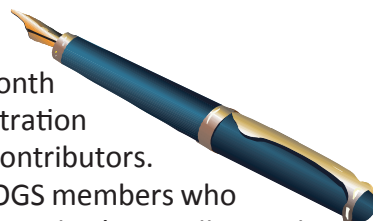
### Special Features:

GCAGS 2016 .....	2
New 2016 Ad Rates! .....	4
STEM/PIPE Event .....	14
Family Fun Eat & Run .....	16
2016 DWTS Geoscience Opening Seminar .....	17
Sporcle Games for the Summer! .....	20
20th Annual Deepwater Technical Symposium .....	27



## From the Editor

Editing and geology don't share many obvious characteristics, but after this past month I've hit upon at least one of them. Collaboration. The *NOGS LOG* is a remarkable orchestration born of labor by people like Tom Klekamp, Ed Picou, Tom Bergeon, and our various contributors. In taking on my first issue as editor, I relied on help and insight from experienced NOGS members who played an integral role in teaching me the first steps in putting together a publication that's actually worth reading. I contend that scientific accomplishments are only as effective as our ability to communicate them to others. Science provides information, but writing enables us to actually discern, collaborate, and challenge. As a vehicle for technical science, expository pieces, and industry updates, the *NOGS LOG* endeavors to effectively communicate to diverse audiences within the geologic community through writing. I encourage you to be part of this effort by becoming a *NOGS LOG* contributor. According to a piece in Scientific American, science and the literary arts are often wrongly separated by "a gulf of mutual incomprehension." Submit to the *NOGS LOG* and help us bridge that gulf.



**Laura**  
Laura Sorey, Editor

## on the cover

### Cover Photo by Laura Sorey

#### Ardvreck Castle, Loch Assynt — Sutherland, Scotland

Ardvreck Castle on Loch Assynt, exceptional though it may be in any other locale, stands small in relation to the famous geologic sites of the surrounding countryside of the northwest Scottish Highlands near the village of Inchnadamph. Renowned as a field site, the Assynt region is noted as the location of the Moine Thrust Belt associated with the Caledonian orogeny. First identified by Peach and Horne in 1907, the discovery and mapping of this complex geologic structure served as one of the first accurate models and explanations of thrust structures. This picture looks WSW towards Conival, one of the regional peaks carved by glacial processes out of the Moine Supergroup rocks. Lewisian gneiss, a 3 bya pre-Cambrian basement rock, makes up the hummocky hills at the foundation of many of the regional promontories and freshwater lochs. The ancient, highly metamorphosed basement is then overlain by the reddish-brown Torridonian sandstone with a contact representing a nearly 800 mya unconformity and capped in an angular unconformity by Cambrian basal quartzite. This quartzite is noted for the presence of well-preserved worm burrows seen throughout the formation, giving rise to the colloquial name "pipe rock."



Contact:  
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# 2016 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 2016 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%



## LOUISIANA BOARD OF PROFESSIONAL GEOSCIENTISTS



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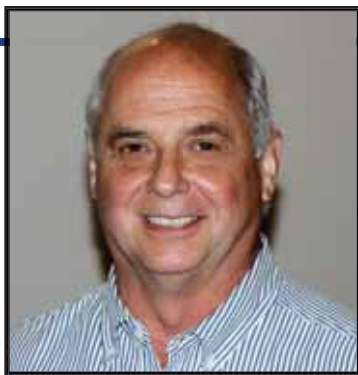
REVIEW THE REQUIREMENTS

[www.lbopg.org](http://www.lbopg.org)

### PROTECTING OUR NATURAL RESOURCES

Our mission is to protect the public health, safety, and welfare and to guard the state's natural resources with regard to environmental and civil projects where a geoscientific review and evaluation is required in the making of recommendations of any geoscientific components of said projects.





As I write my first President's column (scheduled for publication in July) it is actually Memorial Day. I hope you all had a safe and happy holiday and found time to give thanks to the men and women who have died to keep America free. At about the time you will read this, we will celebrate July 4th, and I hope it too is safe and happy.

For the past year I have been the President-Elect, which means that my main duty has been to serve as Entertainment Chairman. During that time I have been fortunate to have the help and guidance of a number of people. We had a very successful Christmas party with some 85 guests sharing wonderful food and great company at the home of Ed Picou and Dan Armstrong. Many thanks to Ed and Dan for allowing NOGS to use their home. Also, many thanks to Trudy Corona, Suzie Baker, and Camille Yeldell of the New Orleans Geological Auxiliary (NOGA) whose advice and assistance in planning the party were invaluable. Also, despite the very uncertain conditions in our industry, we had a successful golf tournament by partnering with the Petroleum Landman's Association of New Orleans (PLANO). This was due in large part to the efforts of President David Reiter, Leslie Broussard of Diversified Well Logging, NOGS office assistant Annette Hudson, and Bill Johnson of PLANO. Special recognition must be given to Tim Klibert, also of Diversified Well Logging, for his outstanding support of both the Christmas party and the golf tournament.

I would like to recognize this past year's Board of Directors for their service. President Dave Reiter provided great leadership and kept NOGS fiscally sound during this tumultuous year.

Vice-President Kathy Haggard did a great job getting us interesting and informative speakers. Thanks to Treasurer Rhonda Roederer for keeping our finances in order and to Secretary Andrew Thorne for keeping accurate records of our Board meetings. Very special thanks to our *NOGS LOG* Editor Tom Klekamp. He makes what, in my opinion, is the most difficult job of all look easy. Thanks also to Jim Zotkiewicz, Dave Cope, and Brenda Reilly who put in many hours serving as Directors.

Our incoming Board includes President-Elect Kathy Haggard of Riparian, Inc. and Alex Janevski of Shell as our Vice-President. Chevron retiree Bill Haworth will be our Secretary, and Margaret McKinney of TGS will be Treasurer. Laura Sorey will be the *NOGS LOG* Editor. I look forward to working with all of them and thank them in advance for their service to NOGS.

As Dave Reiter mentioned in his President's column last month, this year marks the 75th Anniversary of the founding of NOGS. I will write a bit more about the early years of our society in future columns, but now I would like to ask for ideas on how to celebrate our Silver Jubilee. Anyone with ideas or who wants to help out can contact me at [allanmelillo@bellsouth.net](mailto:allanmelillo@bellsouth.net).

Next month, NOGS will co-sponsor the 20th Annual Deepwater Technical Symposium on August 17th and 18th at the Marriott. On the 16th Dr. Mark Rowan will present "Structure and Salt Tectonics of the Gulf of Mexico" at the NOGS Geoscience Opening Seminar. The seminar will last from 8:30AM to 3:00PM at the Marriott and registration is \$250. For more information visit [deepwaternola.org](http://deepwaternola.org).

*Al Melillo*



# NOGS Office

Office Manager: Annette Hudson

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The office is located at 810 Union Street, Suite 300, New Orleans, LA 70112.

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



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2016-18
2015-17
2015-17

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# June 11 • NOGS Luncheon

**Holiday Inn Downtown Superdome**

\$3.00 validated parking in hotel garage

## Presentation:

***Recent Global Deepwater Discoveries and the Look Forward  
for Deep Water Exploration***

## Guest Speaker:

**John R. Dribus**

**Schlumberger Oilfield Services • New Orleans, LA**

*See page 8 & 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 16**

**SGS Northshore Summer Social**

Covington, Louisiana  
Columbia Street Taproom

**August 16-18**

**20th Annual Gulf of Mexico Deepwater Technical Symposium**

Presented by NOGS • SPE-Delta • AADE

Downtown New Orleans Marriott • New Orleans, LA  
"Innovation is Our Future"

For more information and to register, [www.deepwatermola.org](http://www.deepwatermola.org)

**July 28-31**

**Petroleum History Institute Symposium**

Ramkota Hotel & Conference Center • Casper, Wyoming  
"The Oil City"

For more information, <http://petroleumhistory.org/2016-oil-history-symposium>

**September 18-20**

**66th GCAGS Convention**

American Bank Center • Corpus Christi, TX

For more information, <http://www.gcags2016.com/>  
See announcement on page 2 of this issue

## **NOGS CONTACT LIST**

*Continued from previous page*

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2016-2017	Trustee	Tom Klekamp
2017-2018	Trustee	Chuck Holman
2017-2018	Trustee	Al Baker
2018-2019	Trustee	TBD
2018-2019	Trustee	TBD

#### **AAPG DELEGATES**

##### **Term Ends**

2017	Elizabeth McDade
2017(a)	G. Alex Janevski
2018	Art Johnson
2018	William M. Whiting
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William Donoghue	
Dylan Hales	Geologist
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# July 11 NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

## Recent Global Deepwater Discoveries and the Look Forward for Deep Water Exploration



*Presented by*

**John R. Dribus**

**Schlumberger Oilfield Services**

**New Orleans, Louisiana**

### ABSTRACT

This talk begins by examining some of the key factors that are negatively impacting global exploration activities today including commodity price declines. Then several areas that have received focused exploration attention in 2014-2015 such as Brazil and Angola Presalt, the Gulf of Mexico Lower Tertiary, Senegal and western Africa basin margin turbidites, and others are discussed, including recent key global deep water discoveries. Exploration challenges of the Brazilian and Angolan Presalt plays are examined, and successes in the Gulf of Mexico, Newfoundland, Senegal and other areas are reviewed. Then the talk looks to the future by reviewing important deep water exploration wells that were scheduled to be drilled in 2016, and their potential impact. The talk then closes by looking at a few other interesting areas around the globe that are very likely to receive exploration attention beyond 2016 and drilling within the next five years.

### BIOGRAPHY

**John Dribus** is the Global Geosciences 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 15 years for Schlumberger as Northern Gulf of Mexico Data and Consulting Services Manager, and as the Global Geologic Advisor for exploration and deep water projects. He has worked deep water basins in Western Greenland, Newfoundland, the Northern and Southern Gulf of Mexico (including Mesozoic carbonates of onshore Mexico), Colombia, Equatorial South America from Trinidad/Tobago, Surinam, French Guiana, Ceara and Portiguar Basins in Brazil, the Brazil pre-salt play in Santos and Campos Basins, the Malvinas/Falkland Island Basins, South Africa, Angola presalt in Kwanza and Benguela Basins, Gabon clastic presalt, Ghana Jubilee turbidite play, Liberia and Sierra Leon turbidites, Mauritania/Senegal turbidites, the Black Sea, the Red Sea, and parts of the Arctic Basin.

His primary focus has been on understanding the petroleum systems characteristics of basin fan floor and channelized turbidites, pre-salt and subsalt carbonates and carbonate diagenesis, and



other clastic reservoirs of the Atlantic margin basin. His expertise is in exploration, clastic and carbonate sedimentology and sequence stratigraphy, petroleum systems analysis, global deep water analogs, exploring in salt basins, sea floor and salt-related hazards, and geological risk analysis.

He is the former Chairman of the Advisory Board of the American Petroleum Institute (API) Delta Chapter, serves on the Imperial Barrel Award 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 the AAPG Discovery Thinking Forum and Playmaker Forum, and received the Meritorious Service Award from the American Petroleum Institute (API) Delta Section.

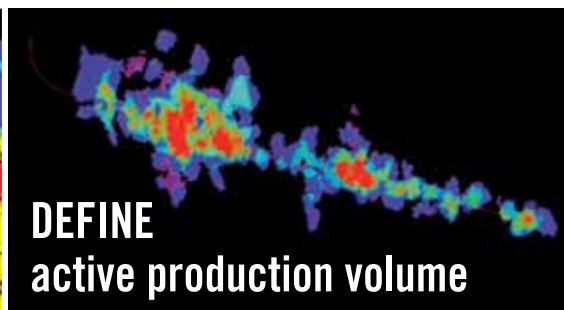
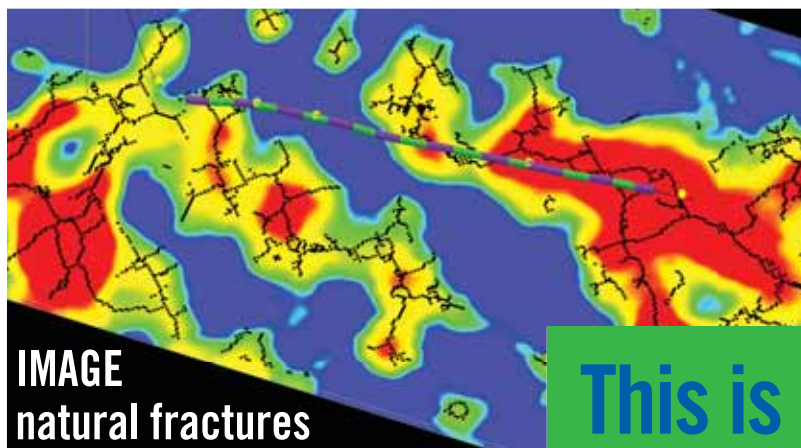
For additional information and examples of the geologic publications of and technical articles by John Dribus, please Google "John Dribus Geology."



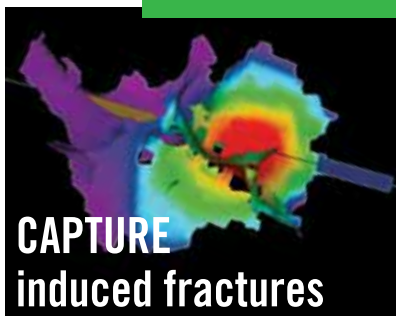
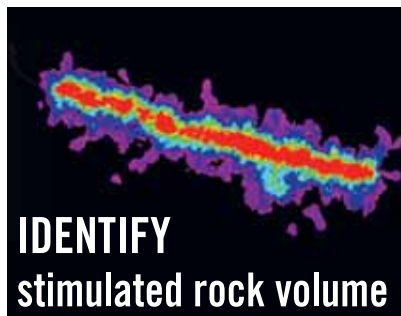
**THE LUNCHEON RESERVATION DEADLINE IS JULY 8 - CONTACT THE NOGS OFFICE**

### *"And Looking Ahead . . ."*

*The next luncheon will be held on August 1. Our guest speakers, John Johnston and Bill Schramm, will jointly present "Ethics and Legal Responsibilities for Geoscientists in Louisiana in 2016." Contact the NOGS office at 504-561-8980 or use the PayPal link at [www.nogs.org](http://www.nogs.org) to make your reservation.*



## This is AMBIENT Seismic.



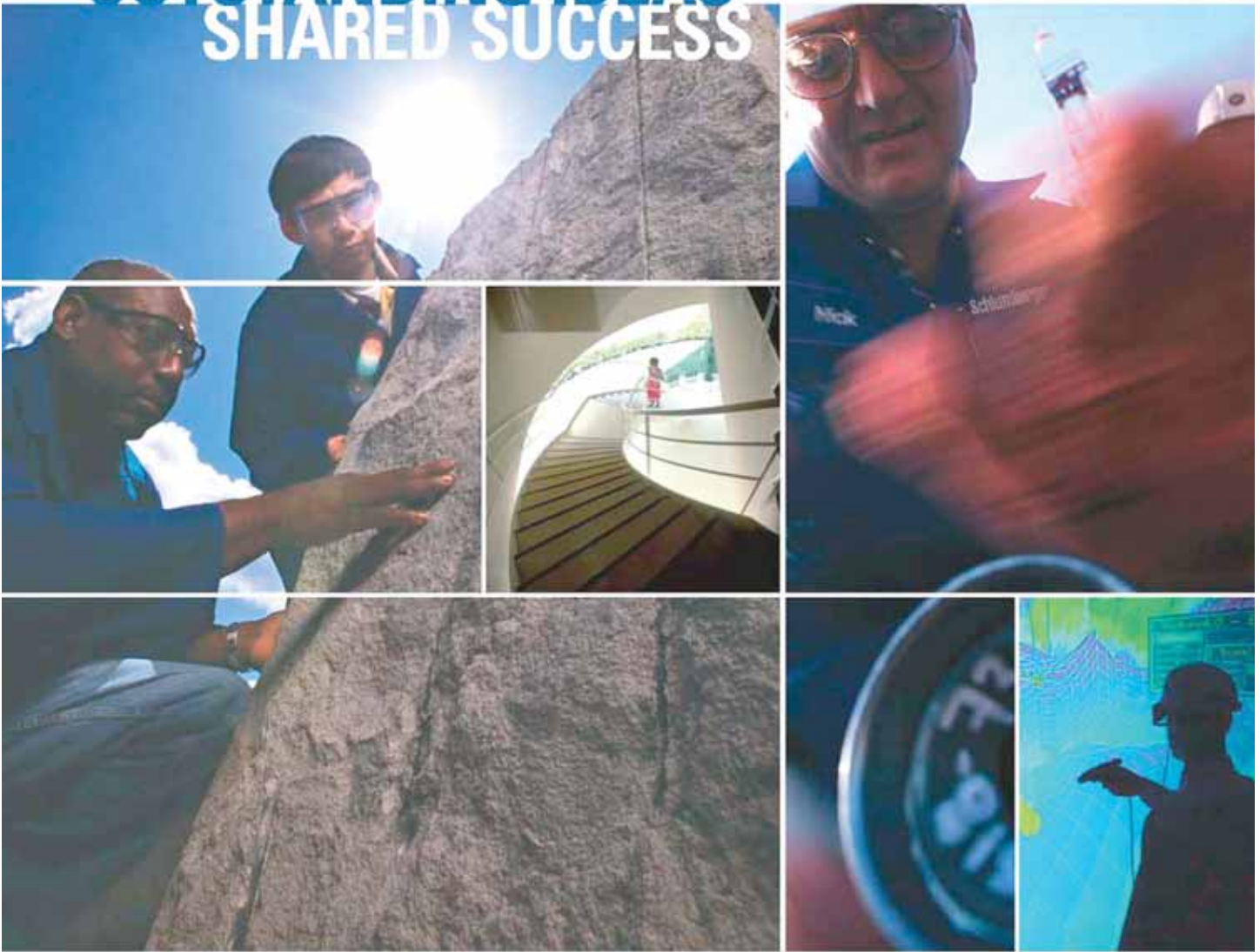
Global Geophysical's innovative approach to ambient seismic provides direct imaging of acoustic activity in the subsurface. This allows us to identify areas or zones that are acoustically active due to natural fractures, hydraulic stimulation or production-related activities. Our ambient seismic results can be presented as 3D attributes, as discrete volumes of acoustic activity or as Tomographic Fracture Images<sup>SM</sup>.

For more information:  
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## CALENDAR OF EVENTS: JULY — SEPTEMBER 2016

2016	EVENT	LOCATION	CONTACT / INFO
1 July	Deadline for August NOGS LOG		nogseditor@gmail.com
4 July	Independence Day		
8 July	Baton Rouge GS Luncheon	Mike Anderson's 1031 W Lee Dr, Baton Rouge	Lisa Pultz at lisapultz@cox.net or <a href="http://www.brgs-la.org/">http://www.brgs-la.org/</a>
11 July	<b>NOGS Luncheon</b> <b>John R. Dribus</b> <b>Schlumberger (New Orleans)</b> <b>"Recent Deepwater Discoveries and the Look Forward for Deepwater Exploration"</b>	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
1 Aug	<b>NOGS Luncheon</b> <b>John Johnston and Bill Schramm</b> <b>"Ethics and Legal Responsibilities for Geoscientists in Louisiana in 2016"</b> <b>Qualifies for 1 hour of Ethics for LBOPG</b>	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
1-3 Aug	URTeC - Unconventional Resources Technology Conference (AAPG, SEG, SPE)	San Antonio, TX	<a href="http://urtec.org/2016">http://urtec.org/2016</a>
10-11 Aug	2016 Summer NAPE	Geo. Brown Conv. Center, Houston	<a href="http://napeexpo.com/shows/about-the-show/houston">http://napeexpo.com/shows/ about-the-show/houston</a>
16 Aug	Deepwater Technical Symposium Short Course Dr. Mark Rowan "Structure and Salt Tectonics of the Gulf of Mexico"	Downtown N.O. Mariott	<a href="http://www.deepwaternola.org">www.deepwaternola.org</a>
17-18 Aug	2016 Deepwater Technical Symposium "Innovation is Our Future"	Downtown N.O. Mariott	<a href="http://www.deepwaternola.org">www.deepwaternola.org</a>
18-20 Sep	GCAGS Convention	Corpus Christi, TX	<a href="http://www.gcags2016.com">http://www.gcags2016.com</a>

# 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."*



**2016-17 Officers: Trudy Corona, Margie Conatser, Trez Zatkiewicz, Judy Lemarié, Jean Jones, Alma Dunlap, Camille Yeldell, Mary Walther, Linda Peirce, and Genny Melillo**

The grand house at Ormond Plantation in Destrehan was the setting for our Geological Auxiliary's annual installation luncheon on May 11. Our group has been there before to enjoy the delicious food, but we were seated in the carriage house then. This time we sat around the large dining table in the main house. It was perfect for visiting and installing! Linda Peirce and Peggy Rogers were thanked as the creative chairmen.

Installed were Trudy Corona, president, and Margie Conatser, vice president, both returning for a second year; TrezMarie Zatkiewicz, incoming secretary; Judy Lemarie, treasurer for the umpteenth year; Camille Yeldell, parliamentarian, Mary Walther, member-at-large, Alma Dunlap and Jean Jones, directors, all returning for a second year; and incoming directors

Genny Melillo and Linda Peirce. So NOGA still has a pulse! We have new officers! Really! NEW officers! Trudy and Margie were really new last year, not having held office much before then. And now Trez and Genny have come aboard. Congratulations to all. Exciting times!

Then there was my big surprise! I had no clue that I was to receive a Lifetime Membership award. The committee met, decided, and presented Beverly Christina with a beautifully framed certificate at the Spring Soiree in April. It was a wonderful surprise for her. I thought that was it from the Awards Committee. But no! Here came one for me at the luncheon at Ormond. I am so honored and thank everyone involved for this lovely tribute!



**Trudy Corona and Linda Peirce**

As you can see, this is not Peggy Rogers writing this monthly column as she has done for several years. The Auxiliary is very grateful to Peggy for her devotion to this job. She was so good, and no one can replace her!



**Anne Dunlap Honeywell, Alma Dunlap, and Trudy Corona**

So until someone can, there will be substitutes like me and anyone else who volunteers to take it for a time or two. Anyone???

Also, is there anyone out there who would like to join this wonderful group of ladies? We have a lot of fun!

**Alma Dunlap, NOGA Director**

## New Orleans Geological Auxiliary Membership Application

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# TAKE ME OUT TO STEM/PIPE Event

This April at Zephyrs Field in Metairie, NOGS took part in a twelve person team from PIPE (Petroleum Industry Promotes Education) that introduced over 6,000 students and teachers from 50 schools to aspects of the oil industry. The event featured thirty area science organizations including NASA, Ochsner, and Entergy. PIPE set up a series of tables in the grand stand breezeway then watched the long line of buses rolling in.

Active volunteers in our oil industry STEM exhibit included SPE engineers utilizing a layered cake with jelly filled oil fields and representatives from ADA (American Drilling Association) with many drilling materials on hand. NOGS utilized our "How an Oil Field Forms" set of stations to lead students through the stages of how oil is formed, a look at its properties, a test for porosity in rocks (sand versus shale), and then to track migration into an oil field. A seismograph station and 3D workstation helped the students visualize how we map potential oil fields seismically. The event was a big hit and the kids were able to take in a Zephyrs game afterwards. Everyone was very excited about reaching so many students in such an ideal setting.

Major thanks go to Jan Catalano, Katrina Ostrowicki, and Will Weidner for co-coordinating the Oil Industry STEM program, Jan Brennan the Executive Director of Core Element, and the Zephyr's organization. A major shout out to our invaluable NOGS members Bernie Regel running the seismograph, David Cope on the 3D workstation, and Katrina teaching the kids about the properties of oil.



*The oil stations are available to check out if you would like to introduce petroleum geology to your local schools.*

*Tom Bergeon*





# THE BALLGAME...

April 18, 2016



ly.  
s





# Family Fun Eat & Run 5K Event a Big Success

## Area Children's Museums Fundraising Event



"Coco" (short for Cocodrie)  
The Bayou Country  
Children's Museum Mascot

NOGS, as a member of PIPE (Petroleum Industry Promoting Education), was a sponsor of this inaugural family event held in City Park on Sunday, May 15, 2016. It was held on the Festival Grounds across the street from the location of the future Louisiana Children's Museum's Early Learning Center, which is scheduled to begin construction later this year. The proceeds of the event are to be shared by the LCM, the Children's Museum of St. Tammany in Covington and the Bayou Country Children's Museum in Thibodeaux. The event brought in \$30,000 and along with a \$25,000 donation from SPWLA and \$21,000 in previous donations, the amount distributed will be over \$71,000.

A total of 385 entrants participated in the event with many family and friends supporting their favorite runners. There was bountiful food and beverages supplied by many industry service companies for all to enjoy, plus three bounce houses to keep the small tykes entertained. Of course, the weather could not have been better with a cool morning and low humidity. New Orleans Running Systems provided the professional touches for the races including registration and run time results. Major thanks to Rick Fowler, of LLOG Exploration, who was the coordinator of the event and to the many STEM participants and volunteers who truly made it such a big success.



And...they're off!!



Tom Bergeon (NOGS) and Julia Bland (CEO - LCM)



Rick Fowler, Event Chairman and Lisa Barnett (Director CMST)



At the finish line: "Coco" along with Christie Naquin (BCCM), Rick Fowler, Lisa Barnett (CMST), and Julia Bland (LCM)



20th Annual Gulf of Mexico

# Deepwater

Technical Symposium

## **GEOSCIENCE OPENING SEMINAR August 16, 2016**

**"Structure and Salt Tectonics  
of the Gulf of Mexico"**

**MARK ROWAN**

*Rowan Consulting, Inc.*



This one-day course is designed to give participants an overview of the structural geometries and evolution of the Gulf of Mexico (GoM) since the Triassic. This includes the opening of the GoM basin, deposition of Middle Jurassic salt, gravitational failure above the salt, and the emplacement and development of salt canopies. Although the emphasis is on the northern GoM, the southern GoM will be addressed as well.

The topics will generally be covered from the bottom up. Thus, we will first examine the history of crustal rifting and oceanic spreading, and the consequent control on salt distribution. Second, we will review salt tectonics at the autochthonous (depositional) level, which was dominated by gravitational failure comprising proximal extension, translation, and distal contraction. Third, we will discuss the development and evolution of allochthonous salt sheets and canopies. Fourth, we will briefly address some aspects of shale tectonics in the basin. And finally, we will summarize the influences of salt-related deformation on various aspects of the petroleum systems, from trap development to reservoir distribution to hydrocarbon maturation and migration.

**REGISTRATION IS OPEN!**

[www.deepwaternola.org](http://www.deepwaternola.org)

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for NOGS is MEMNOGS2016.**

To register at the website for the seminar, you also have to register for the symposium. To register for just the seminar, call the NOGS office or online at the payment center on the NOGS website.





# South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

## LAFAYETTE DISTRICT, ONSHORE AREA

By Kevin Trosclair and Carlo C. Christina

The Baker-Hughes rig count for United States at the end of May was 404 rigs, down 875 rigs from a year ago. The May 27th rig count for Louisiana (not including the OCS) was 25 rigs, down from 49 rigs one year ago.

North Louisiana Rigs: .....16

South Louisiana Rigs: .....9 (5 Land - 4 Inland Waters)

*The Office of Conservation, Lafayette District, Onshore Area, issued 9 permits to drill during the month of May, compared to 19 permits one year ago. There are three new location of interest to report this month:*

### NEW LOCATIONS

In Pointe Coupee Parish, **Lottie Field (A)**, Pennington Operating Company will drill the #1 CF RB SUA; A WILBERTS SONS LLC (SN 249609) in Sec. 34, 6S-7E to a proposed total depth of 10,500 feet targeting Sparta Sands. This location offsets oil production from Sparta Sands that have produced since 1988.

In Cameron Parish, **Big Lake Field (B)**, Warhorse Oil & Gas, LLC will drill the #1 JOYCE D GRANIER ETAL (SN 249625) in Sec. 13, 12S-9W to a proposed depth of 14,800 feet (13,500 TVD). There is currently no production in the field.

Also in **Big Lake Field (C)**, Cameron Parish, Cypress Production, Inc is drilling the #1 MC DONALD FAMILY (SN 249596) in Sec. 18, 12S-8W to a proposed total depth of 9000 feet targeting the 8900' Sand.

### COMPLETIONS

In East Baton Rouge Parish, **University Field (D)**, University Field Management LLC has completed the #12 Duplantier, (SN 249356), as an oil well in the Nelson Sand flowing 78 BOPD through perforations 6833 to 6839 feet. The well was drilled to a depth of 7500 feet in Sec. 65, 7S-1W.

Davis Petroleum Corp. has completed an excellent gas well in **Cameron Canal Field (E)**, Cameron Parish, after reentering an old well. The #1 Broussard-ALT, (SN 249424), was completed flowing 6499 MCF and 391 BCPD through perforations 13,450

to 13,465 feet. Davis reentered the old well, (SN 198484), which had been drilled in 1985 and was plugged and abandoned at a depth of 16,925 feet. The well is located in Sec. 31, 12S-2W, southeast of current production in the field.

In Cameron Parish, **Holly Beach Field (F)**, Mertz Energy has plugged and abandoned its #1 Constance, (SN 249522), at a depth of 11,599 feet in Sec. 36, 14S-11W. As reported in April Drill Bits, the well was drilled to test a Planulina sand which had produced in an offsetting well, (SN 70038).

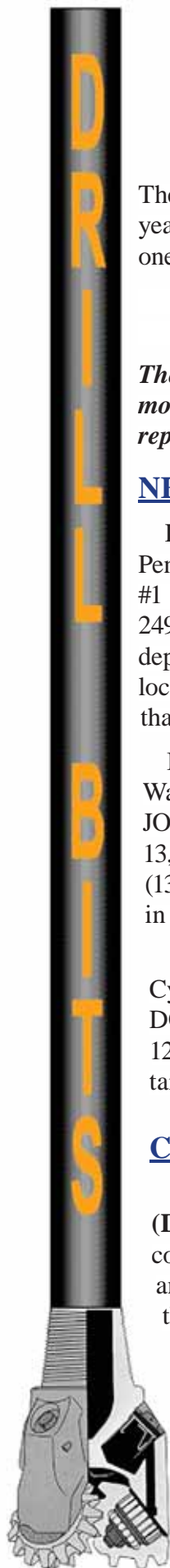
## OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During **May 2016**, the **BOEM** approved **64** Gulf of Mexico drilling permits. Of these, **8** were for shelf wells, and **56** were for deepwater wells. Of the total number of permits, there were **12 new well permits** issued consisting of **2 shelf** permits and **10 deepwater** permits.

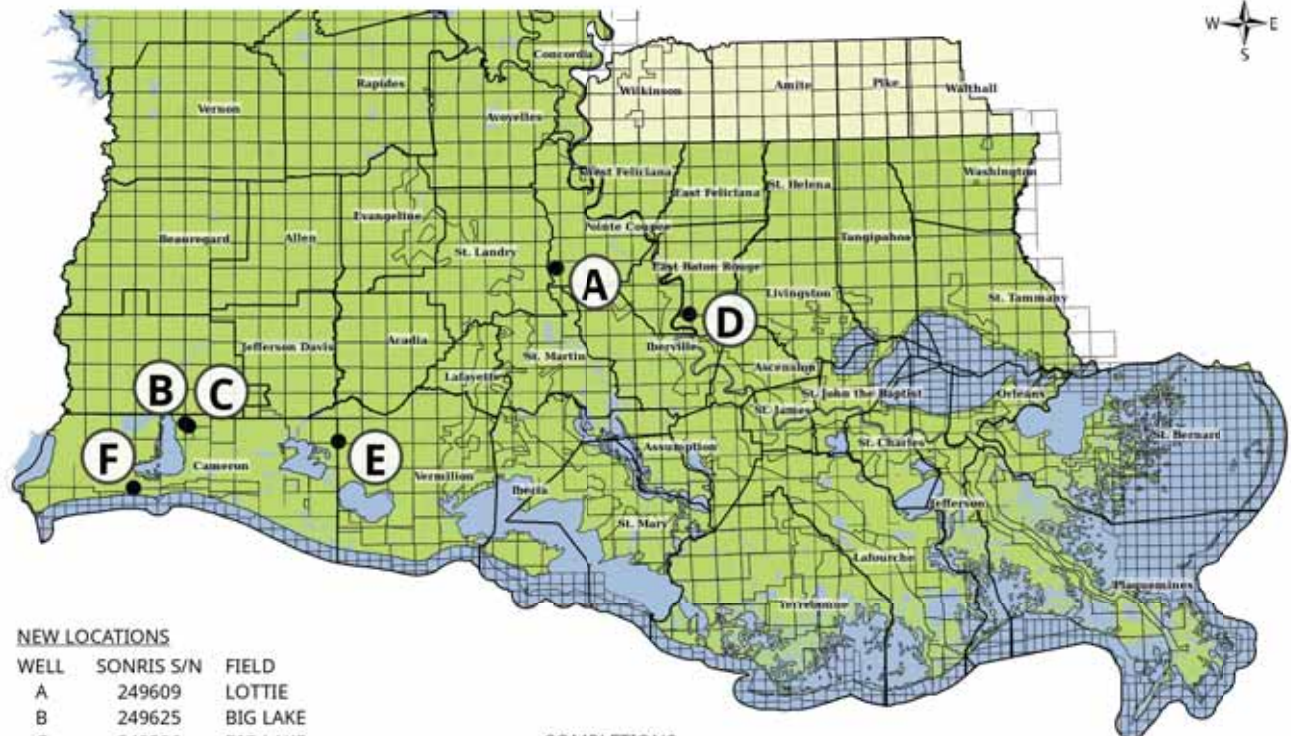
The two new shelf well permits were issued to **Renaissance Offshore** for their **Ship Shoal 198 #2** exploratory well and to **Arena Offshore** for their **South Timbalier 131 #K-6** development well.

The ten new deepwater well permits included **9** exploration wells and **1** development well. Six exploration new well permits were awarded to **Shell Offshore** for their **Mississippi Canyon 392 #AE-1, #AE-5 and #AE-6** and **#AC-6** wells, their **Mississippi Canyon 393 #VX-2** well and their





# SOUTH LOUISIANA ACTIVITY MAP JULY 2016



CCC

**Walker Ridge 508 #1** well. One exploration new well permit each was issued to **LLOG Exploration Offshore** for their **Mississippi Canyon 769 #1** well, to **Anadarko Petroleum** for their **Green Canyon 903 #7** well and to **Chevron U.S.A.** for their **Garden Banks 998 #1** well.

**Shell Offshore** also received one development well permit for their **Mississippi Canyon 764 #5** well.

On May 27th, **IHS-Petrodata** reported that the Gulf of Mexico mobile offshore rig supply stood at **111**, which is **2** less than reported last month. The marketed rig supply consisted of **61** rigs, of which **41** were under contract. The marketed contracted versus total rig supply utilization rate is **36.9%**, while the marketed contracted versus marketed supply utilization rate stands at **67.2%**. The marketed rig supply number is **2** less than reported last month; the contracted rig supply number is **4** less than reported last month. In contrast, the May 2015 fleet utilization rate stood at 64.0% with 73 out of the 114 rigs under contract.

On May 27th, **BakerHughes** indicated that there were **23** active mobile offshore rigs in the Gulf of Mexico, which is **56%** of the rigs under contract mentioned above. This active rigs number is **1** less than reported

last month. The current active rigs count compares to 29 active rigs during the same period last year, representing a **20.7%** drop (minus 6 rigs) in yearly rig activity.

As of May 27th, the **BakerHughes** total U.S. rig count stood at **404** rigs **down 79.1%** from the **September 26, 2014 high of 1931** rigs. At this time a year ago, the rig count stood at 875 rigs. Of the current 404 rigs, **316** are **oil rigs** and **87** are **gas rigs**.

On May 2nd, **Byron Energy** announced an update on their oil and gas discovery at their **South Marsh Island 71 #1** well. The well had reached a final total depth of **7,477 feet MD/6,915 feet TVD**. The deeper portion on the well encountered a 19 foot TVT hydrocarbon bearing sand, adding to the previously reported 132 feet TVT net oil pay in three sands. A 5" liner was run over the deeper section of the well, and it will be mud line suspended for future production.

On May 26th, the **BOEM** announced that, in addition to the **3 bids** that it had accepted on blocks in the **Phase I** evaluation for the **Central Gulf of Mexico OCS Sale 241**, it had also accepted a total of **48 bids** on blocks in the **Phase 2** evaluation. A total of **77 bids remain** that are pending acceptance by the BOEM.

# NOGS WELCOMES

*Submitted by Laura Sorey*

**Dave Culpepper** joins us as a new member from environmental consulting with the Culpepper Group here in New Orleans. He graduated in 1981 from LSU with a B.S. in Physical Geography with a concentration in geology. With more than thirty years of experience, his expertise ranges from soil and ground water remediation to shoreline cleanup and assessment for oil spills.

**William Donoghue** is new member to NOGS from BOEM.

**Dylan Hales** joins us as a geology graduate of Mississippi State University. He is currently looking for opportunities in geology and oil and gas.

**Austin Hodge** is asset development geologist with Chevron in Covington. Currently working on Chevron's Blind Faith, he built up his development skills working on the Gulf of Mexico shelf. Originally hailing from Upstate South Carolina, Austin graduated in 2011 from Clemson University with a B.S. in Geology with a minor in Environmental Science and Policy and remains a passionate Clemson football fan. He also received his M.S. in Geology from Indiana University in 2013.

**Carlos Stitch** is a new member joining NOGS from Eustis Engineering in Metairie.

## *Sporcle Games for the Summer!*

by Cyril Lobo

This is my fifth contribution of Sporcle game links for the *NOGS LOG*. Three are Geology Quick Picks, rest are of general interest that received many plays by worldwide Sporcle users, on its free website. Good luck!



[www.sporcle.com/games/cfxlspo/quick-pick-geologic-periods-match](http://www.sporcle.com/games/cfxlspo/quick-pick-geologic-periods-match)

[www.sporcle.com/games/cfxlspo/pick-minerals-only](http://www.sporcle.com/games/cfxlspo/pick-minerals-only)

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[www.sporcle.com/games/cfxlspo/missing-word-tv-shows-1970s](http://www.sporcle.com/games/cfxlspo/missing-word-tv-shows-1970s)

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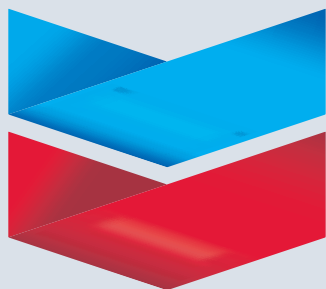
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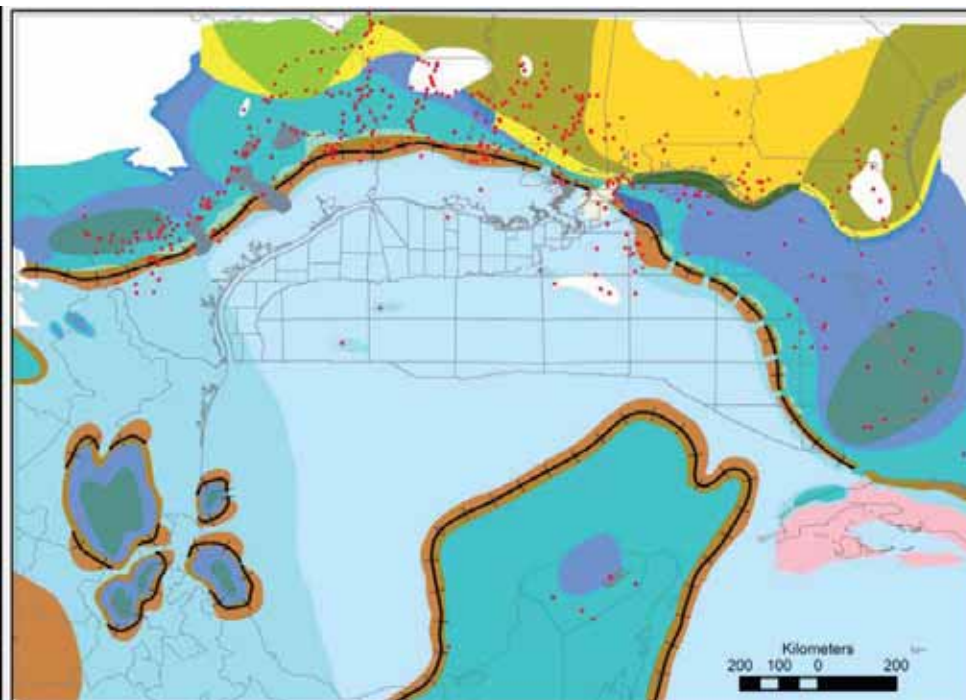
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## Mesozoic of the Gulf Rim and Beyond: New Progress in the Science and Exploration of the Gulf of Mexico Basin

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## The Mysterious Earth

Earth is mysterious. Yes, it has now been declared here and now that Earth is mysterious. Mark it on your calendar. Earth is mysterious. Geologists are funny. In fact, so funny that I will prove to you in this one article why everyone has at least 60% of geology in them, yes, even engineers. Many claim that geologists are not funny. That is a myth. Hilarity follows geologists through life, and so many excellent jokes have been derived by engineers about geologists. The details of these engineer's jokes will be spared and maybe revisited in the future, but for now let's discuss mysterious yet funny Earth.

First what is so mysterious? Let's begin with water on earth.

Two theories are comets and asteroids, easy. I have completed my article. You're welcome.

Wait not so fast. Which one is the culprit? Trick question, there is a third theory; maybe water was on Earth from the very beginning of its formation. Research also suggests that rocky bodies form with their water.

So it is clear now right? No, it is not clear and the question of where water came from is still studied today and the water mystery continues to steadily creep around in your brain.



Ok, we are not going to solve this mystery in an "On the Rocks" segment. But please Google your way in circles by typing "where did water come from" where multiple research articles pop up only to throw your hopes and dreams of a solution to the ground.

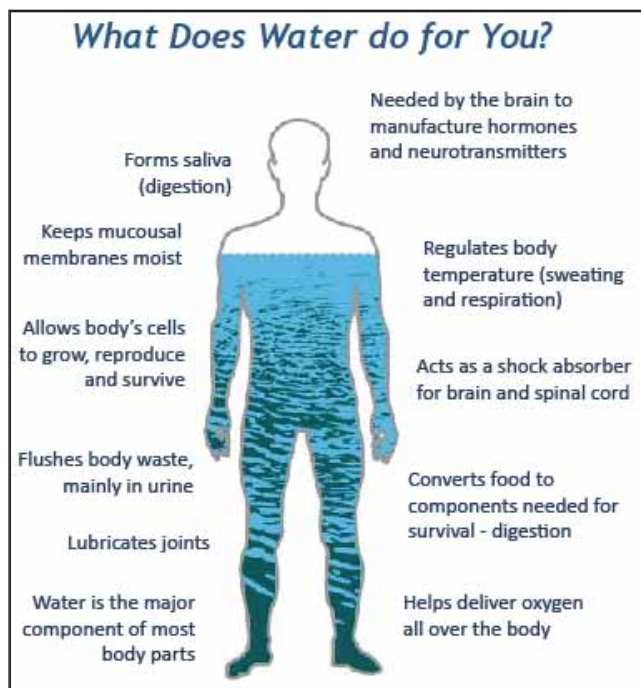
Great article, editor, so how does everyone have 60% of geology in them? This is an easy question, because everyone and every living organism need water to survive. So let me break it down. In any case water and rocks are connected, whether it came from an asteroid, comet, or Earth. You, yourself are comprised of about 60% water, thus 60% geology. Rocks = water, organisms = 60% water, thus organisms = 60% rocks.

Now that I have blown your mind and motivated you to disprove my theory of why you are mostly geology, here are a few "Did you know?" about Earth and water:

- There are more than 326 million trillion gallons of water on Earth
- Water on Earth is 97% salted and 3% fresh
- 2 million years since the last rainfall in the driest place on earth, Dry Valleys, Antarctica
- 99% of the living space on Earth is represented by oceans

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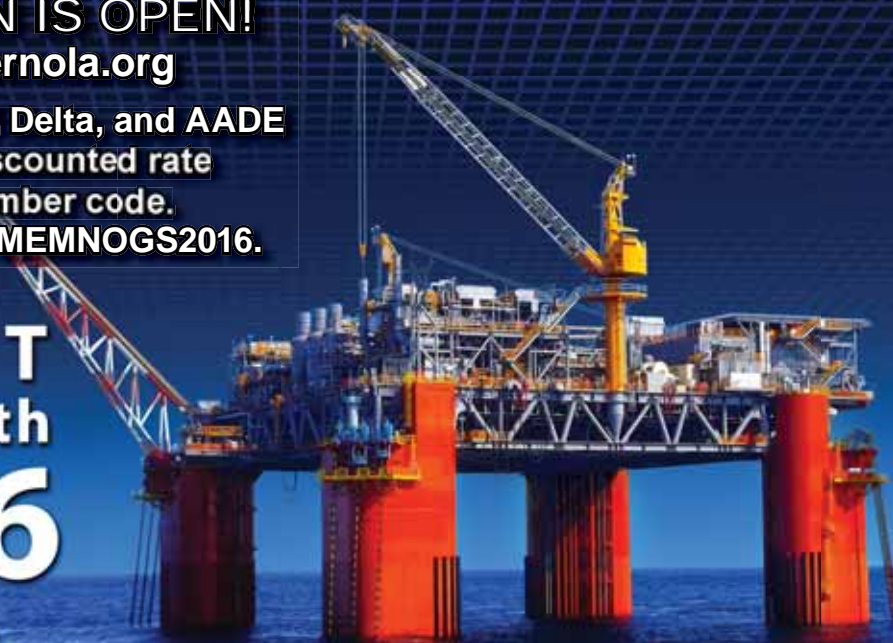
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