MAY 2014

Volume 54, Number 11



Presentation: Subsidence and Sea-Level Rise: The Impact on the Southeastern Louisiana Coast

Guest Speaker: Tim Osborn NOAA • Lafayette, Louisiana

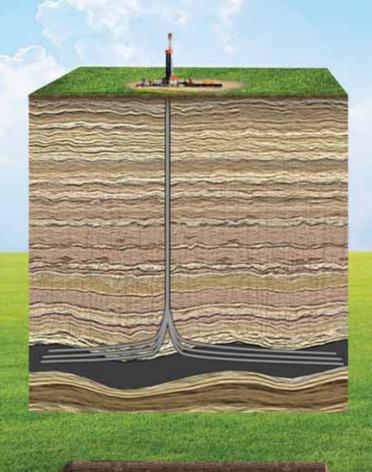
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on the cover

Cover Photo Submitted by: Roy Walther

La Pice Field — St. James Parish, Louisiana

This late evening scene shows the testing and completion operations on the Layline #1 and #2 Schexnayder wells. These oil wells are located in the La Pice Field in St. James Parish, Louisiana, La Pice Field was discovered in 1938 with more than 150 wells drilled in the field since the discovery.

From the Editor

I want to thank all of the volunteers that participated in the fun-filled Supersaurus Saturday event at the Louisiana Children's Museum on March 29. My family and I were in attendance and we had a great time. Even though my almost-four-year-old son has a very limited attention span, we managed to visit several stations, and he knew the answers to many of the guestions that were asked of him. His favorite station was definitely the dino dig.

I also would like to thank NOGA for inviting the NOGS board members to their Spring Social that was held on April 5 at the home of Ann and Louis Gilbert. Ann and Louis were wonderful hosts and the planning committee did an excellent job as everyone enjoyed an evening filled with great food and friendly conversation.

A volunteer opportunity is available to NOGS Members on June 21 when the Girl Scouts Louisiana East hold their STEM Extravaganza at Dillard University. This is an opportunity for Girl Scouts in grades K-12 to learn about Science, Technology, Engineering, and Math with hands-on science experiments and technology presentations. This event was a big hit last year both for the Girl Scouts and NOGS volunteers. Contact Tom Bergeon at tom.bergeon@centuryx.com if you're interested in volunteering.

Sheri Richardson - *NOGS LOG* Editor

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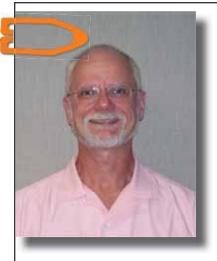
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I begin this month's President's Letter on a sad note. One of our members and a past President, Jack Langford, died on March 21 after a long illness. Jack served in the Navy at the end of World War II and founded a successful business that eventually merged with Schlumberger, but perhaps his greatest accomplishment and happiness was with his family: his wife, 3 daughters, 5 grandchildren, and 3 great-grandchildren. "My quiet joy is when you are all together talking and laughing." He will be missed.

UPCOMING EVENTS

The Monthly Luncheon is May 5 with Tim Osborn of NOAA presenting "Subsidence and Sea-Level Rise: The Impact on the Southeastern Louisiana Coast." It should be a good follow-up to Chris McLindon's talk on "Rethinking Coastal Restoration."

REGION IX SCIENCE FAIR RECOGNITION

This month's luncheon features the geology-themed winners of the February 19 Region IX Science Fair. The first place winners and their teachers have been invited to attend the luncheon and present their projects. All of the winners are listed below:

THE SENIOR DIVISION WINNERS:

First Place: Alexis Lang and Joshua Hartley

"Go with the Flow: Can Freshwater Diversion Water Flow Be Used to Create Green Energy Using Hydroelectric/Kinetic Power?"

Teacher: Cathy Boucvalt, John Curtis Christian School

Second Place: John Tran

"How Have Hurricanes Affected the Fishing Industry in Coastal Louisiana?" Teacher: Jannell Simpson, Patrick Taylor Science and Technology Academy

Third Place: Alexandra Walsh

"What Is the Effect of Riprap Modification on Erosion Caused by Water?" Teacher: Jannell Simpson, Patrick Taylor Science and Technology Academy

THE JUNIOR DIVISION WINNERS:

First Place: Scott Hawkins

"Geothermal: Free Energy?"

Teacher: Brother Laurence Konersmann, Christian Brothers School

Second Place: Dax Ford

"Does the Rough Bottom Affect the Wave Velocity at Different Water Depths?"

Teacher: Lauren Young, John Curtis Christian School

Third Place co-winner: Trevan Burns

"What Type of Sedimentary Rock Best Absorbs Petroleum Oil?" Teacher: Tara Lavender, Holy Cross School

Third Place co-winner: Cole Radetich

"Glacier Effects on Land"

Teacher: Brother Laurence Konersmann, Christian Brothers School

We also honor two teachers this year for their outstanding contributions to science education: Cathy Boucvalt of John Curtis Christian School and Brother Laurence Konersmann of Christian Brothers School.

CONCLUSION

As stated in the first paragraph of the NOGS Constitution, "This Society is organized as a non-profit for the express purpose of facilitating the development of the profession and the science of Geology..." If there is a purpose to life, it must apply from the smallest to the largest creatures. The one thing that links us all is that the purpose of life is to live and to perpetuate the species. Viewed from this perspective, the most important jobs of all, enabling humans to live and the species to continue, are that of parent and teacher; they are the ones that pass on the accumulated wisdom and skills so that future generations may flourish. This month at NOGS we celebrate our future.

Chuck

T III II

NOGS Office

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UPCOMING Events & Activities



May 5 • NOGS Luncheon

Holiday Inn Downtown Superdome

\$3.00 validated parking in hotel garage

Presentation:

Subsidence and Sea-Level Rise: The Impact on the Southeastern Louisiana Coast

Guest Speaker:

Tim Osborn

NOAA • Lafayette, Louisiana
See page 9 for Abstract and Biography

HOLIDAY INN DOWNTOWN SUPERDOME

Check with concierge or front desk for location.

Lunch served at 11:30 am

ADMISSION:

May 5-8

Offshore Technology Conference

Reliant Park • Houston, TX

For more information, www.otcnet.org

June 9-12

SIPES Annual Meeting and Convention

Umni Royal Orleans • New Orleans, LA

For more information, sipes.org/home/convention/

June 2

NOGS Luncheon

Holiday Inn Downtown • New Orleans, LA

For more information, www.nogs.org/calendar/

August 5-7

Gulf of Mexico Deepwater Technical Symposium

Hilton Riverside • New Orleans, LA

For more information, www.deepwaternola.org

985-264-8300

czimmerman@eplweb.com

NOGS CONTACT LIST

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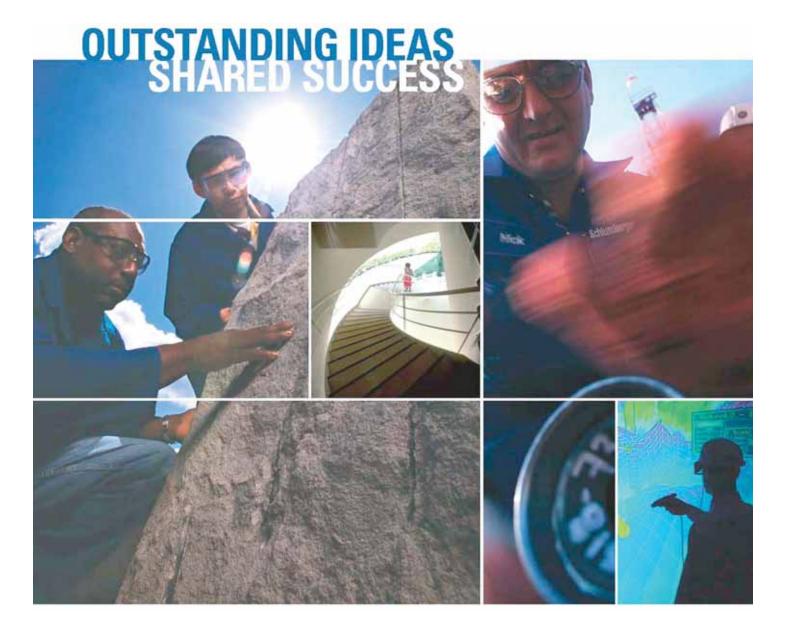
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May 5 NOGS Luncheon Presentation

☆ ☆ ☆ at the Holiday Inn Superdome ☆ ☆ ☆



Subsidence and Sea-Level Rise: The Impact on the Southeastern Louisiana Coast



Presented by
Tim Osborn
NOAA
Lafayette, Louisiana

ABSTRACT

A review and briefing on the effects of sea level rise and subsidence on the coastal zone of Louisiana will be presented. Techniques and practices by NOAA to monitor and report these relative sea level rise rates will be provided.

With the World's largest relative sea level rise rates, the coastal zone of Louisiana will see huge changes this century.

BIOGRAPHY

Tim Osborn is the Regional Navigation Manager in the Office of Coast Survey at NOAA in Lafayette, Louisiana. His responsibilities include coastal restoration projects, coastal hurricane response, and the surveying and mapping of Gulf Coast waters, navigation channels, ports, and waterways.

Tim graduated from Florida State University in 1982 with a B.S. in Marine Biology and a secondary degree in Science Education. He also earned both an M.S. in Marine Sciences and a Masters of Public Administration from LSU in 1985.

THE LUNCHEON RESERVATION DEADLINE IS MAY 1 - CONTACT THE NOGS OFFICE

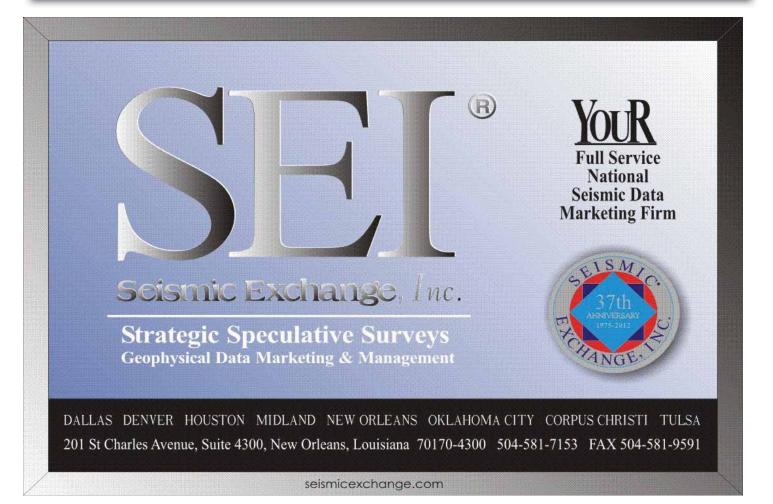
"And Looking Ahead . . . "

The next luncheon will be held on June 2. Our guest speaker, Arthur "Art" Berman, a geological consultant in Sugar Land, Texas, will present "Reflections on a Decade of U.S. Shale Plays: Case Histories from the Haynesville and Eagle Ford Plays." Contact the NOGS office at 561-8980 or use the PayPal link on the NOGS website (www.nogs.org) to make your reservation.



Jordan M. Adams joins NOGS as a new student member. She is currently a PhD student at Tulane University studying surface process and landscape evolution. In 2010, Jordan earned her BS in environmental science from Moravian College in Bethlehem, Pennsylvania. Jordan received a NOGS Memorial Foundation Scholarship in 2013 and was a volunteer at the recent Supersaurus Saturday event. She is a member of AGU, GSA, and the Society for Integrated Math (Geosciences division).

Craig N. Zimmerman, Contract Geologist for EPL Oil and Gas, joins NOGS as a new active member. He recently graduated from LSU with a BS in geology. He is interested in being involved with the Environmental and New Geoscientists Committees of NOGS.





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			May			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5 NOGS Luncheon Holiday Inn	6	7 NOGA Installation Luncheon	8	9	10
	Offsh	ore Technology Cor	nference - Houston	,TX		
11 Mother's Day	12	13	14	15	16	17
18	19	20	NOGS Board Meeting	22	23	24
25	26 Memorial Day	27	28	29	30	31

June							
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
1	2 NOGS Luncheon Holiday Inn 11:30 AM	3	4	5	6	7	
8	9	10	11	12	13	14	
	SI	PES Annual Meeting	g - New Orleans, LA				
15 Father's Day	16	17	NOGS Board Meeting	19	20	21 Girl Scouts LA E STEM Event Dillard University	
22	23	24	25	26	27	28	
29	30						

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."

On March 10th, NOGS president Chuck Holman graciously invited the NOGA officers and board to join the regular NOGS meeting to have lunch and hear Mr. Chris McLindon speak on "Rethinking Coastal Restoration." Mary Walther, Trudy Corona, Jean Jones, Judy Lemarié, and NOGA columnist Peggy Rogers were present to enjoy the fascinating talk and delicious lunch.

A large group of NOGA members, spouses, and friends greatly enjoyed a wonderful evening at the beautiful home of Ann and Louis Gilbert on April 4th. Beverly Kastler, Linda Peirce, Earleen Rodan, and Ann Gilbert planned a sumptuous dinner with beverages and plentiful hors d'oeuvres to the great enjoyment of all the guests. The rain and threatening storms held off so everyone could enjoy the lovely gardens and pool area.



Spring Social chairwomen, Beverly Kastler, Earleen Rodan, Hostess Ann Gilbert, Linda Peirce



President Mary Walther presenting hosts Ann and Louis Gilbert with a thank you gift.

The Installation Luncheon at the New Orleans Country Club will be on May 14th. You won't want to miss it! Beverly Christina and Camille Yeldell are planning another enjoyable event for us.

Last month Tat Eustis, a Charter member of the Auxiliary, passed away. She was still a current member of NOGA. We also lost NOGS member Jack Langford. For many years Jack sought out the Auxiliary to be involved in a variety of NOGS activities. He kept up with the ladies even after his wife, Beverly, had passed away. Just this past November, Jack had a rose at each plate when NOGA had a luncheon at the Ormond Plantation. We miss them both.

Peggy Rogers, NOGS LOG

New Orieans Geological Auxiliary Membership Application				
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City, State, Zip	Email			
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API MERITORIOUS SERVICE AWARD Presented to JOHN DRIBUS



On March 18, long-time NOGS member John Dribus, Global Geosciences Advisor for Schlumberger Oil Field Services, was presented with the API Meritorious Service Award in appreciation for all that he has done for the industry and for the broader community.

The following details were listed in awarding John this honor:

John is a frequent and effective speaker on a variety of science and industry topics. Among his 2013 public engagements:

- Invited speaker at the AAPG Deep Water Reservoirs Workshop in Houston with the topic of "Gabon Pre-salt Clastic Reservoirs"
- Invited speaker at the SEG Technology Conference in Houston on the role of Plate Tectonics in Exploration
- Keynote Luncheon Speaker at the GCAGS in New Orleans on "Three Key Exploration Reservoirs," where he also played a key role in securing a corporate sponsorship from Schlumberger
- Invited speaker at the EAGE/AAPG Basin-Margin Wedge Workshop in Lisbon, Portugal, on "Deepwater Turbidite Facies"

It is worth noting that the four talks were on completely different subjects to different professional organizations.

In 2013, the Society of Petroleum Engineers (SPE) awarded John their Eastern North America Regional Reservoir Description and Dynamics Award (an award given by an engineering organization to a geologist).

His 2014 schedule has proven to be equally active and diverse with the following speaking engagements:

- In January on the topic of Abrupt Margin Turbidites at the PetroTech 2014 Convention in Delhi, India
- At the SIPES January Luncheon in Lafayette on the "Evolution of the Atlantic Margin Basin"
- At the January AAPG Playmakers Forum in Houston on "Key Global Reservoirs"

- Also in January at the 2014 AAPG Deep Water Reservoirs Workshop in Houston where he addressed Deep Water Drilling Hazards
- In March at an AAPG Deep Horizon and Deep Water Frontier Exploration Workshop in Trinidad/Tobago
- ❖ At the API luncheon in March, where he received the Meritorious Service Award, with an excellent presentation on Plate Tectonics in Exploration
- In April, at the AAPG Discovery Thinking Forum in Houston

While this list is lengthy, it only includes his most recent activities. John has a long history of effectively sharing his vast knowledge with audiences in the New Orleans area, throughout the Gulf Coast, and around the world. These include AAPG and SPE technical workshops, AADE (in Houston, New Orleans, and Lafayette), SPWLA in New Orleans and Lafayette, the New Orleans Deep Water Symposium, and also at NOGS.

His on-going service includes the AAPG Imperial Barrel Judging Committee and he is a frequent participant in our events at the New Orleans Children's Museum where he does a spectacular job of engaging children with his personal rock, mineral, and fossil collection. He is an active member of AAPG, SPE, SEG, NOGS, and HGS. John's leadership was very apparent when he served as Chairman of the API Delta Chapter.

John's remarkable gifts for presenting new aspects of petroleum science, and his great willingness to share those gifts in service to such a broad audience made him an ideal candidate for the API Meritorious Service Award.

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Shell has worked in partnership with the NOGS for many years, and is proud to count the society among its closest business associates.

The New Orleans Geological Society was organized in 1941 to foster scientific research and advance the science of geology. Particular emphasis is laid on the exploration for and production of petroleum and natural gas. Related objectives include encouraging the adoption of improved methods of exploration, disseminating pertinent geological and technological data, and maintaining a high standard of professional conduct among its members.

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SUPERSAURUS SATURDAY

March 29, 2014 Louisiana Children's Museum

Our 14th annual Supersaurus Saturday was our best one yet!

We had over 1,000 people attend this year's fun-filled event at the Louisiana Children's Museum. This event was co-hosted with the Southeastern Geophysical Society under the direction of Lisa Kennedy.

As enthusiastic as the kids were, our volunteers really energized the museum. Alongside our faithful NOGS members were a great group of students from UNO, LSU, Southeastern, Loyola, and Tulane.

All the volunteers were quickly interacting with the kids and we had a steady crowd the whole day.

The volunteer response was so great that the roster was full two weeks early, and I didn't even have to resort to last minute begging. Thank you all for stepping forward!

After a seamless transition the afternoon crew was off and running. Joining in the fun were Robin Broussard, Pam Harry, Clair Ye, Sumit Gupta, Jordan Adams, Al Mellilo, Elizabeth Melillo, Gerad LeBlanc, Dave and Jane Balcer, Carmen Zuniga, Peyton Madere, Myles Felch, Louis Schneider, Liz Williams, Leah Frizell, Duncan Goldthwaite, and Liz and Wilson McDade.

All day warriors included Anna Farrugia, Lisa Kennedy, Jim Brooks, Dave Cope, Andrew Adamas, Rachel Garpard, Taylor Hux, Erica Lassen, Shara Clark, Lewis Jones, Gregory Pellerin, and David Brassieur.

Although a few people had last minute conflicts and were unable to attend, I greatly appreciate your willingness to volunteer.

> I owe a tremendous thanks to Bernie Regel, my long time co-conspirator trainer, who was a model of efficiency. Hats off to you Bernie!

Special thanks to Tara Yocum and Andrew Adamas for delivering the UNO T-Rex in a

downpour Friday morning, Sasha Kreinik and Jon Guidry for coordinating all the UNO volunteers, Kraig Derstler for being Kraig, Dave **Cope** for his giveaway fossils of Louisiana, Grace Connors, the new LCM Educational Program Coordinator, for being such a joy to work with, and Jim Brooks for the fabulous photos.

A friend commented, "Well done inspiring the next generation of egg heads."

That's quite a complement and major thanks to all of you for making this happen.

the exhibits out a little. We had a lot of faithful repeat volunteers and had the pleasure of meeting some new faces. I always enjoy the cross pollination of university students from the various schools and the opportunity for students to mingle with those in the earth science

Our morning shift included Jess DeBold, Jon Guidry, Sean Rotolo, Jeremy Prouhet, Emily Skitmore, Greg Orrell, Chris McLindon, David Reiter, Diana Di Leonardo, Britney Peterson, Liz Chamberlain, Mike Fein, Kelly Jemison, Bryan Banks, Dana Smith, Andrew Thorne, and NOGS President Chuck Holman.

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This year we added a few more displays and spread



Tom Bergeon





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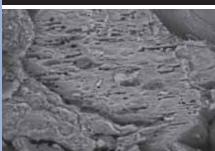
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This committee promotes and supports the Scouting movement and assists in all matters pertaining to geology, including the Geology Merit Badge Program. If you're interested, please contact Bill Whiting at Bootscon@aol.com or info@nogs.org. If there are any Eagle Scouts looking to assist in this worthy cause, it would be greatly appreciated.

Sponsorship Committee:

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South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

LAFAYETTE DISTRICT, ONSHORE AREA

By Carlo C. Christina

The Office of Conservation, Lafayette District, Onshore Area, issued 34 permits to drill during the month of March 2014. Following are the most significant and interesting locations and completions:

NEW LOCATIONS

Hilcorp Energy will drill the #1 Denham Springs Country Club in **Lockhart Crossing Field**, (A), Livingston Parish. It will be drilled to test the **Tuscaloosa Sands** at a depth of 19,500 feet. This well is interesting because it will be drilled as a development well **35 years** after the discovery of the field, and because it located **on the Denham Springs Country Club property**, in Sec 29, 6S-3E. It is also located 1 mile southeast of the nearest producing well, a Tuscaloosa Sand well, which has produced a total of 27.7 billion cubic feet of gas and 939,000 barrels of oil in 32 years. (247713)

Lockhart Crossing Field was discovered in 1979 with the completion of the Amoco #1 Barnett in the Tuscaloosa Sand. Several wells were drilled and completed in Tuscaloosa sands at 16,900 feet. In 1982 Wilcox sands were found to be productive at 10,500 feet and a series of wells were drilled to develop the 1st Wilcox Sand. This Wilcox structure covers an area 5 miles by 1 mile, which was unitized with a 3500 acre unit. Within the following 4 years, 52 Wilcox wells were drilled and the field produced more than 10 million barrels of oil and 42 billion cubic feet of gas. In 1986 a water flood program was initiated followed by a CO₂ flood. Within 2 years this injection program had produced more than 2 million barrels of oil. Also of interest, 3 horizontal wells had been drilled in the Wilcox section, with one well having produced more than 45,000 barrels of oil.

Since the discovery in 1979, more than 100 wells have been drilled in the field which has produced 27.4 million barrels of oil and 105.8 billion cubic feet of gas.

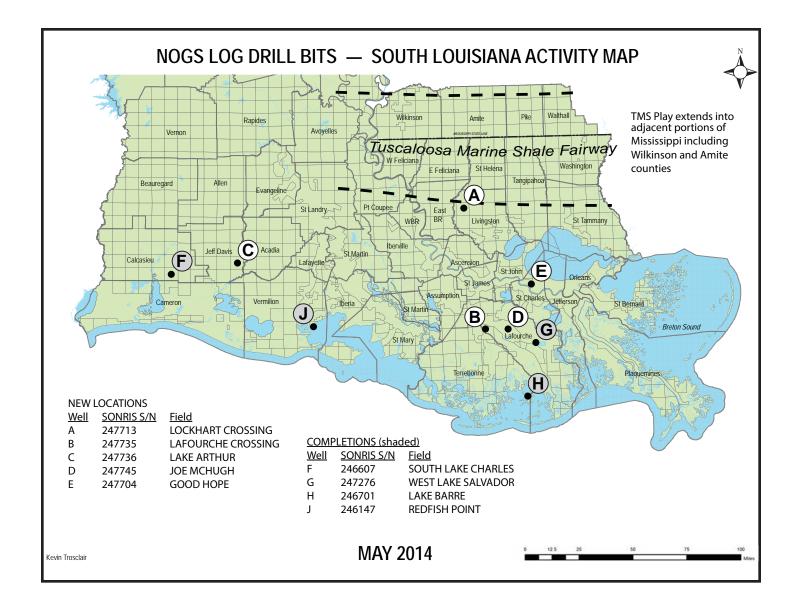
For a complete review of the geology, reservoir parameters, water flood program, and the CO₂ project, I suggest that you Google, "Lockhart Crossing: Economically Efficient Reservoir Operations CO₂ Conference, July 13, 2011."

In Lafourche Parish, **Lafourche Crossing Field**, (B), Square Mile Energy has permitted its #1 Kearns in Sec. 16, 15S-17E. The well will be drilled to a proposed depth of 15,590 feet to test the Rob L section. It is located 2 miles northwest of Rob 43 production in Southwest Lake Boeuf Field. (247735)

Square Mile Energy will drill the #1 Bieber in **Lake Arthur Field**, (C), Jefferson Davis Parish, to a proposed depth of 13,200 feet to test Marg tex sands. The well is located in Sec. 19, 10S-3W, on the northeast flank of the field, 1 mile northeast of shallow production. (247736)

In Lafourche Parish, **Joe McHugh Field**, (D), Castex Energy has permitted the #1 Foret to test the Gheens Sand in Sec. 39, 15S-19E. The well will be drilled to a projected depth of 14,144 feet, with the bottom hole to be located 5,567 feet from its surface location. (247745)

Mack Energy will drill the #1 Diversified GRP in **Good Hope Field**, (E), St. Charles Parish. The well is located on the north flank of the field in Sec. 41, 12S-8E, and will be drilled to a projected depth of 13,300 feet. (247704)



COMPLETIONS

Intrepid Drilling has completed the #1 Williams in **South Lake Charles Field**, (F), Calcasieu Parish. The well was drilled to 15,330 feet in Sec. 19, 11S-8W. It was completed as an oil well in the Hackberry Sand flowing 400 BOPD and 1600 MCFG through perforations 15,150 to 15,170 feet. (246607)

This new oil well, the #1 Williams, was drilled 1,800 feet from the Moran Exploration #1 Andrus, a well which was drilled in 1984. The Hackberry sand was drilled and logged, but the well was plugged and abandoned without testing. (189907)

Castex Energy has completed another excellent well in **West Lake Salvador Field**, (G), in St. Charles Parish in 16S-21E. The #1-ALT SL 20643 was completed in the Cris I sand flowing 530 MCFD and 1089 BCPD through perforations 12,290 to 12,412 feet, overall. (247276)

In Terrebonne Parish, **Lake Barre Field,** (H), GCER Onshore has completed the #1 SL 21151 as a gas well through perforations 15,584 to 15,642 feet, overall, flowing 3089 MCFD and 41 BCPD. The well was drilled 1 mile southeast of recent production in 21S-20E. (246701)

Walter Oil & Gas has plugged and abandoned its #1 SL 21015 in **Redfish Point Field**, (J), Vermilion Parish, at a depth of 20,356 feet. As previously reported, the well was drilled in 15S-4E, on the north flank of the field, approximately 3 miles north of production. (246147)

OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During March 2014, the BOEM approved **104** Gulf of Mexico drilling permits. Of these, **47** were for shelf wells, and **57** were for deepwater wells. Of the total number of permits, there were **10** new well permits issued. These included **6** shelf (2 exploratory and 4 development), and **4** deepwater (3 exploratory and 1 development) new well permits.

On the shelf, the two exploratory new well permits were granted to **Arena Offshore** for their **South Timbalier** 135 #8 well and to **EPL Oil & Gas** for their **Main Pass 151** #1 well. The four development well permits were issued to **Arena Offshore** for their **Eugene Island 314** #C-18 and **Eugene Island 338** #K-10 wells, to **Energy Resource Technology GOM** for their **Eugene Island 302** #C-2 well, and to **GoMex Energy Offshore** for their **Vermilion 282** #D-3 well.

In deepwater, the 3 exploratory new well permits were awarded to **Anadarko Petroleum** for their **Green Canyon 562** #5 well, to **Chevron U.S.A.** for their **Green Canyon 807** #1 well, and to **Murphy Exploration and Production** for their **Desoto Canyon 178** #1 well. **Shell Offshore** was awarded a development new well permit to drill their **Mississippi Canyon 935** #A-9 well.

On March 28th, IHS-Petrodata reported that the Gulf of Mexico mobile offshore rig supply stood at 112. The marketed rig supply consisted of 86 rigs, of which 80 were under contract. The contracted versus total rig supply utilization rate is 71.4%, while the marketed contracted versus marketed supply utilization rate stands at 93.0%. The total and marketed rig supply figures reflect an increase of 1 rig each as to those reported last month. They also compare to 85 out of the 111 rigs that were available during March 2013, for a 76.6% fleet utilization rate.

On March 28th, BakerHughes indicated that there were **50** active mobile offshore rigs in the Gulf, which is **62.5%** of the rigs under contract mentioned above. This active rigs number is 5 less than reported last month. The current active rigs count compares to 45 active rigs during the same period last year, representing an **11.1%** increase in yearly activity.

On March 19th, the **BOEM** held the **Central Gulf of Mexico OCS Sale 231** in New Orleans. A total of **50** companies bidding individually or in combines submitted **380 bids** on **326 blocks** for a total bid exposure of **\$1,085,372,484**. The sum of the **high bids** was **\$850,809,921**. Of the 380 bids, **131 (34%)** were on **shelf** blocks versus **249 (66%)** on **deepwater** tracts. **Freeport-McMoRan Oil & Gas** turned out to be the sale-saver by making up **37.8%** of the total high bids. The company submitted **\$321.4 million** on **16 blocks**, including the sale's **highest bid** of **\$68.8 million** for **Atwater Valley 198**. This block also received the **highest number of bids** for a block with a total of **6 bids**; Exxon-Mobil was the second high bidder for the block with a bid of \$45,550,000. **Chevron U.S.A.** was the sale's **second** highest bidder with **\$103,316,968** exposed for **6** blocks. In addition, the most active bidding companies were **Cobalt International Energy** and **TOTAL E&P USA**, who each separately submitted **44 high bids** and spent **\$25,846,096** and **\$17, 230,731**, respectively.

Additionally, **BP** was granted permission to bid in the sale and did so by spending **\$41.6** million on **24** high bid tracts. Previously, a 16-month government contract suspension forced the company to sit out the last 3 lease sales. A deal between BP and the Environmental Protection Agency on March 13th allowed the company to participate in the sale.

The number of companies bidding in offshore lease sales continues to decline post-Macondo. During the March 2010 (OCS Sale 210) sale that was held 1 month prior to the BP Deepwater Horizon disaster, there were a total of 77 participating companies, which is 54% more than in the current Sale 231. The exodus of companies participating in Gulf of Mexico lease sales can be attributed to the increase in governmental regulations and oversight, plus the higher costs of doing business in the Gulf stemming from the BP blowout in April 2010. Lower natural gas prices over the last 4 years have also added to the less favorable economic environment particularly in the Gulf shelf region.

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NOGS OFFICER ELECTIONS

For President Elect: David E. Reiter

David E. Reiter graduated from the University of New Mexico in 1980 with an M.S. in Geology. He began his career with Shell Oil Co. in New Orleans as Onshore Exploration Geologist. In 1984, he joined ODECO Oil & Gas (now Murphy E&P Co.) as Exploration Geologist working primarily the central offshore Louisiana shelf area. He later moved into development geology with responsibility for several GOM shelf and deepwater fields. In 2005, Mr. Reiter joined Dominion Exploration and Production Company as Development Geophysicist in their GOM Shelf Exploration Group. After a brief employment as Deepwater Exploration Geophysicist with EPL in New Orleans, he joined ENI Production Co. in 2008 as Reservoir Geologist and was later transferred to Houston in 2009. David joined Woodside Energy in Houston in 2011 as Development Geophysicist, and then returned to New



Orleans in mid-2012 as a Deepwater Development Geophysicist with Stone Energy.

Mr. Reiter has been an active member of NOGS for the past 30 years. He has served on the Best Paper, Nominating, and Entertainment Committees and is currently chairman of the Membership Committee. David is currently a trustee of the NOGS Memorial Foundation Board. In 2008, Mr. Reiter was elected to serve as President of NOGS for the 2009-2010 fiscal year, but had to resign as President in July 2009 due to being transferred to Houston. David has served on several organizing committees for local conventions, including the 1997 and 2005 GCAGS Conventions, the 2000 and 2009 AAPG Conventions, and the 1996 SPWLA International Symposium. He was past V.P.-Public Relations, Treasurer, and President of the SPWLA New Orleans Chapter. David is an active member of NOGS, AAPG, SGS, and SEG.



For Vice President: Jennifer Connolly

Jennifer Connolly is a Senior Production Geologist with Shell, currently working for the Brutus Subsea Development Team on the Glider project. She is a native of Kentucky and received her B.S. in Geology from the University of Kentucky. Moving to New Orleans in 2003, she went on to receive a M.S. in Geology from Tulane University before joining Shell in 2005.

Jennifer is a former Trustee on the Memorial Foundation's Board of Trustees and a past Secretary for NOGS. In addition, she is a wife and the proud mother of two.

For Secretary: Bryan Banks

Bryan Banks is a Senior Geologist with more than 16 years of experience in the environmental consulting industry. He is well-versed in all aspects of project management, senior level review, health and safety, technical report preparation, marketing, and client relations. Bryan has conducted various projects including site investigations, risk evaluations, corrective action plans, construction, excavations, remediation/treatment systems, environmental audits, and other environmental related projects, also including Phase I Environmental Site Assessments (ESA) and National Environmental Policy Act (NEPA) projects.

Mr. Banks has worked closely with the Arkansas, Louisiana, Mississippi, and Texas Environmental Quality Offices, and has served as a regulatory liaison to his clients for multiple projects. He has concentrated his career on sites requiring



corrective action, such as leaking underground storage tank sites, dry cleaner sites, and industrial remediation sites.

He received his B.S. in Geology from Louisiana Tech University in 1996, and his M.B.A. from Louisiana Tech University in 2011. Mr. Banks is a Professional Geologist/Geoscientist in Tennessee, Texas, and Utah.



For Treasurer: Art Johnson

Art Johnson is Managing Partner of Hydrate Energy International, LLC (HEI) of Kenner, Louisiana, and is engaged in energy consulting in the U.S. and throughout the world. Prior to forming HEI in 2002, Art was a geologist with Chevron for 25 years. He attended Humboldt State University and LSU. Art served as the 2007-2008 NOGS President and has served on the NOGS Board of Directors. He was General Chairman of the 2013 GCAGS Convention and is a NOGS delegate to the AAPG House of Delegates. Art is an AAPG Visiting Geoscientist and makes numerous university presentations along with K-12 classroom visits each year. He chairs the AAPG/EMD Gas Hydrate Committee and has served as EMD Technical Program Chair and convention session chair. In addition to NOGS and AAPG, Art is an active member of SGS, SEG, SIPES, GSA,

SEPM, and NAGT. Art has published over 80 papers and articles, along with several books. These cover a diverse range of topics that include geology, geophysics, economics, and astrogeology.

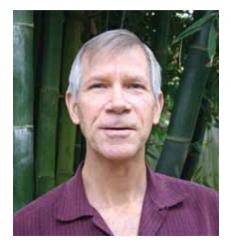
For Editor Elect: Tom Klekamp

Tom Klekamp began his career with Shell Oil Company. In 1977 he served as district geologist for Energy Reserves Group. In 1982 he co-founded El-Can Exploration Inc., and was a director for El-Can until 2009. He is presently president of Amber Resources, L.L.C. Tom received a B.S. from Xavier University and an M.S. from the University of Cincinnati. He established the Klekamp Student Travel Fund, for the University of Cincinnati Department of Geology.

Tom is a former president and active NOGS member and has served as a member of the AAPG House of Delegates (2004-07), NOGS Memorial Foundation (current), and editorial committee for the 2005 GCAGS Transactions. In 2010 he served on the editorial committee for the NOGS publication "Oil & Gas Fields of South Louisiana 2010." He was president of the GCAGS in 2013 and



is currently chairman of the GCAGS Awards and Nominations Committee. He was SIPES New Orleans Chapter treasurer and was editor of that Chapter's Newsletter 2007-2012. He is a member of AAPG-DPA, AAPG's Astrogeology Committee, SPE, GSL, and GSA. He was also editor of the "PAS Times," newsletter of the Pontchartrain Astronomy Society, for which he received the Mabel Sterns Award in 2004. He reveres his manual typewriter for correspondence and No.2 pencils for drawing and sketching.



For Director: J. David Cope

Dave Cope has been self-employed since March 2013, having formed Rising Natural Resources LLC in order to pursue a dream of funding a museum of natural history, science, and engineering in New Orleans. He has previously been employed by Schlumberger, CRC Wireline, Getty Oil, Texaco, ODECO, Murphy Oil, Taylor Energy, and ANKOR Energy since 1978, and has a B.A. in Physics from Rice University. He has previously served as Treasurer of NOGS, and of SPWLA, and also as a member of the NOGS Memorial Foundation Board, the Scholarship Committee of SPWLA, and is currently Treasurer and Field Trip Chair for the Gem & Mineral Society of Louisiana.

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Submitted by Sheri Richardson

Livescience.com – Becky Oskin

"Mother Lode' of Amazingly Preserved Fossils Discovered in Canada." February 11, 2014

http://www.livescience.com/43270-new-burgess-shale-fossils-canada.html

A treasure trove of fossils chiseled out of a canyon in Canada's Kootenay National Park rivals the famous Burgess Shale, the best record of early life on Earth, scientists say.

"Once we started to break fresh rock, we realized we had discovered something incredibly special," said Robert Gaines, a geologist at Pomona College in Pomona, Calif., and co-author of a new study announcing the find. "It was an extraordinary moment."

The new site is also in the Burgess Shale formation, and seems to rival the 1909 original in fossil diversity and preservation, researchers report today (Feb. 11) in the journal Nature Communications. In just two weeks, the research team collected more than 3,000 fossils representing 55 species. Fifteen of these species are new to science.

Many of the fossils at the new site are better preserved than their quarry counterparts, the researchers report. The new fossils reveal the internal organs of several different arthropods, the most common type of animal in both the new and old Burgess Shale locations. Retinas, corneas, neural tissue, guts and even a possible heart and liver were found.

About half of the 55 species discovered at Marble Canyon so far are also found at the original Burgess Shale site, the researchers report. Some of the original site's rare species are more abundant in the canyon, such as the polychaete worm Burgessochaeta. But "sessile" species are scarce or missing. These creatures, such as sponges and brachiopods, spend their lives attached to the rocks or the seafloor.

Some species at Marble Canyon are also found in China's Chengjiang fossil beds, which are 10 million years older than the Burgess Shale. Until now, researchers thought these Cambrian animals went extinct by the time the Burgess Shale formed. Their discovery in Canada means that many Cambrian life forms were more widespread and longer-lived than previously thought, the researchers said.

Gaines and his colleagues discovered the Marble Canyon fossils in 2012 as they were tracing Cambrian rocks on foot across the Rockies, in hopes of finding more Burgess Shale-type deposits. They had started a couple of miles away, at a fossil site in shallow-water rocks near Stanley Glacier. Near Marble Canyon, the team suddenly crossed over an ancient cliff. Known as the Cathedral Escarpment, this cliff marked the underwater edge of Laurentia, the ancestral continent that forms the core of North America.

University of Louisiana at Lafayette

"Geology students best among 122 universities around the globe." April 8, 2014

http://www.louisiana.edu/news-events/news/20140408/geology-students-best-among-122-universities-around-globe

For the second time, a team of University of Louisiana at Lafayette geology students proved it's the world's best at determining where to drill for oil. It won first place in the 2014 Imperial Barrel Award Competition, which was held in Houston Friday through Sunday, and received a \$20,000 prize.

UL Lafayette is the first school to win the contest more than once. The University also earned first place in 2012.

The team competed against 122 schools from six U.S. regions and six international regions: Africa, Asia/Pacific, Canada, Europe, Latin America and the Middle East.

This year's team was composed of five students pursuing master's degrees in geology: Jordy Babineaux, Sam Ely, Nicholas Geyer, Jolie Helm and Daniel Sutton.

Dr. Brian Lock, the team's advisor, said the \$20,000 award will be used for scholarships, equipment and software for future teams. Lock is a professor of geology at UL Lafayette. Mary Broussard, an alumna, and her colleague, Mike Quinn, were industry mentors for the team. Broussard and Quinn are geologists employed at Freeport McMoRan Oil and Gas in Lafayette who are also adjunct faculty members.

Eight weeks before the competition, students are given datasets related to geology, geophysics, land, production infrastructure and other factors. Students analyze the information. Then, each team delivers a 25-minute presentation to a panel of industry experts and makes recommendations, such as "drill here" or "don't invest further," said Lock. The judges select the winning team on the basis of the technical quality, clarity and originality of its presentation.



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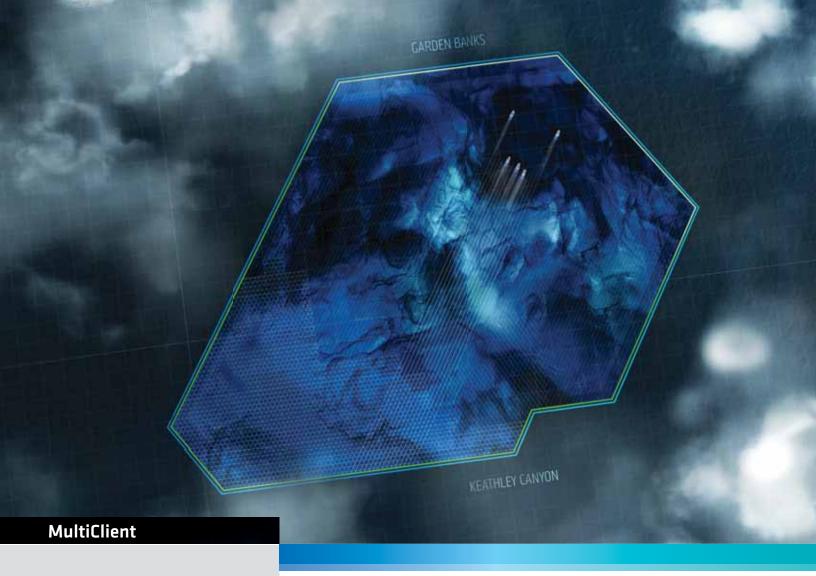


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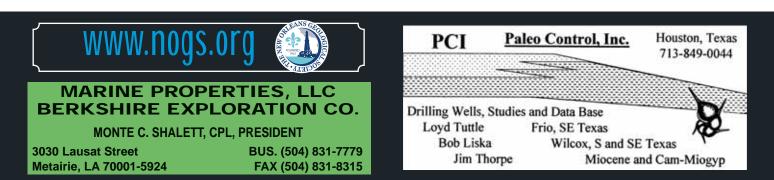
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