

NOGS LOG



April 2010

Volume 50, Number 10

Upcoming Events and Activities

April 5 - NOGS Luncheon

*** At the Holiday Inn Downtown Superdome ***
\$2.00 validated parking in hotel garage

Guest Speaker Martin Perlmutter, Chevron, will present "High Frequency Paleoclimate Change: Impact on Exploration Strategy and Climate Research."
(See page 7 for Abstract and Biography)

LEPAVILLON HOTEL

Check with concierge or
front desk for location
Lunch served at 11:30am

ADMISSION:

with reservation \$30.00
without reservation \$35.00
Student Member with reservation Free

April 6 & 7 - 4th Annual Louisiana Groundwater & Water Resource Symposium

Baton Rouge. See announcement on page 13.

April 6 - Petroleum Geology for Non Geologists

Shell Auditorium, New Orleans. See announcement on page 30.

April 11-14- AAPG Annual Convention & Exhibition

New Orleans. See announcement on page 15.

April 13 - An Evening with "America's Greatest Generation"

National World War II Museum. See announcement on page 8.

April 19 - NOGS Annual Golf Tournament

Tchefuncte Country Club, Covington. See announcement on page 20.

April 29 - May 1 - 2010 Oil History Symposium

Lafayette. See announcement on page 23.

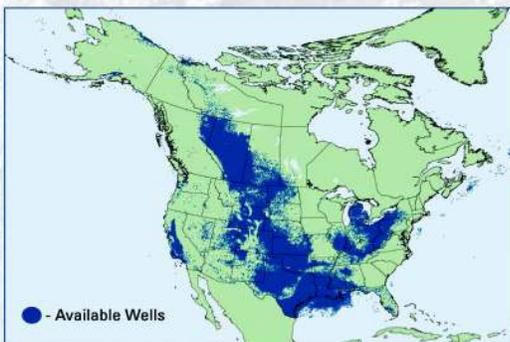
May 10 - NOGS Luncheon

Holiday Inn Downtown Superdome. Guest speaker Charles Cusack, PetroHawk Energy Corporation, will present "The Haynesville and Eagle Ford Shale Gas Play."

May 14 - NOGS and SGS Summer Social

Zephyrs game. See announcement on page 19.

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 Correspondence and all luncheon reservations should be sent to the above address.
 Sent to press on March 15, 2010.



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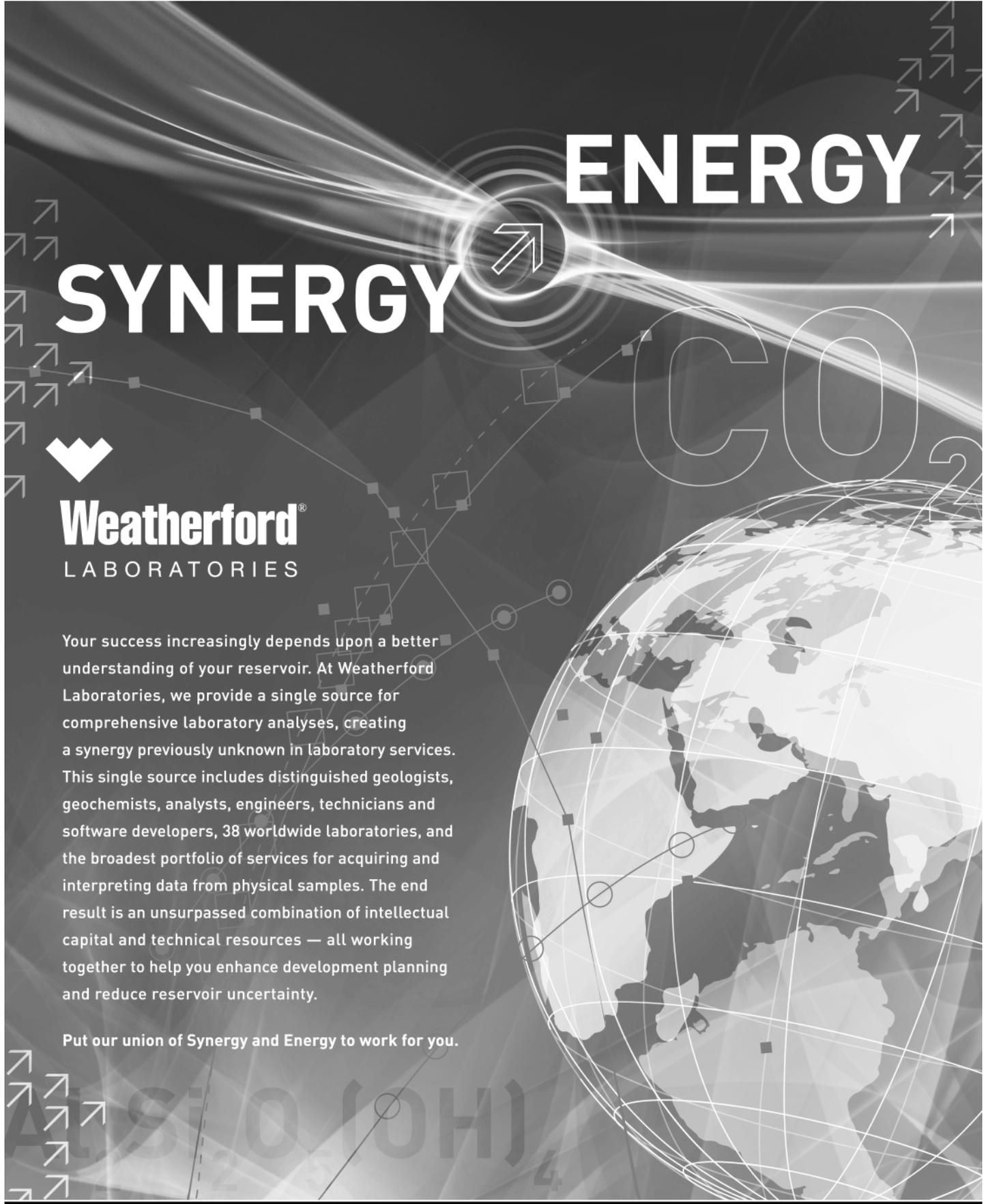
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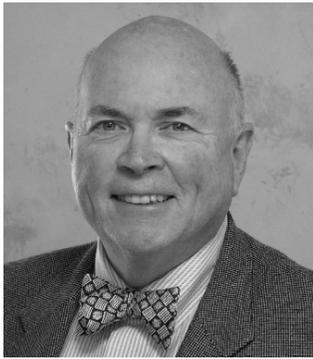
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from the President

The new GCAGS Scholarship Fund-Matching Program is running from January 1, 2010 through June 30, 2011. During this 18-month period the GCAGS will match funds raised by the NOGS Memorial Foundation on a one-to-one basis, up to a total of \$10,000. This is a great opportunity to double the value of your donation going to the Memorial Foundation and help deserving geoscience students in our three designated universities: LSU, UNO and Tulane. If you have questions call or email Bill Whiting, Chairman of the Memorial Foundation.

The Oil History Symposium, will be held in Lafayette, Louisiana on April 29 - May 1, 2010. This symposium, which is being jointly organized this year by the Petroleum History Institute and the Lafayette Geological Society, is an annual event; this is only the second time it will be held in the Gulf Coast area.

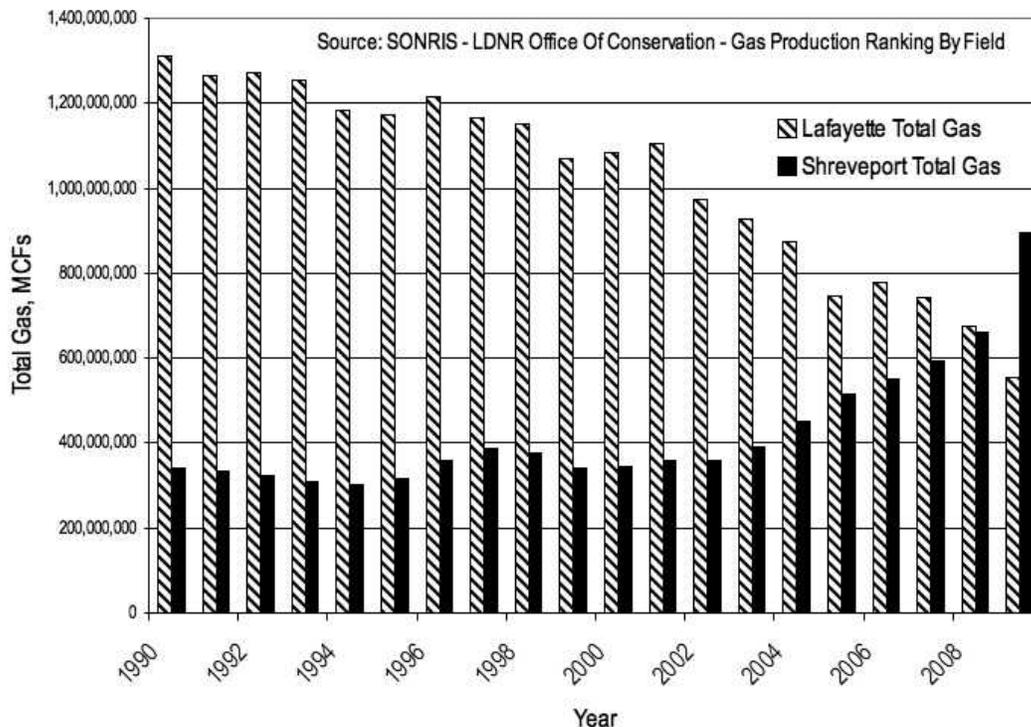
Much progress has been made since December on the Volume 4, Oil and Gas Fields of South Louisiana. We now have a working list of fields matched to contributor names, managers or geologists who can develop data, logs and possibly a seismic line. Carlo Christina and Charley

Corona are heading the effort. At a recent committee meeting the consensus was that the timeline to final publication is roughly 16-18 months.

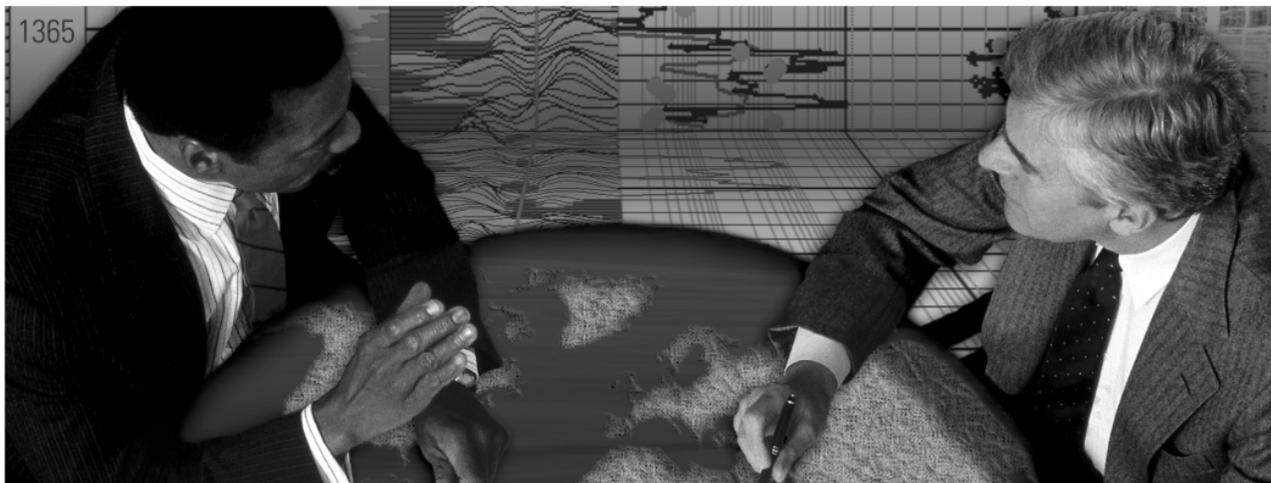
NOGS member Ken Huffman has been elected national President of the Society of Independent Professional Earth Scientists (SIPES). Ken has also been active and valuable team member in the Volume 4 effort. Congratulations, Ken!

The LaDNR's SONRIS has proven an invaluable source of data, maps and information. It has to be the best state oil and gas information retrieval systems online. One interesting statistic is the annual total gas produced in the Lafayette District (south La.) compared with the Shreveport District. In the past year, the Haynesville Shale Gas Play overtook the Lafayette District in gas production. The major field responsible for this is Elm Grove Field, which has been top producer in the Haynesville for the last four years. The field has 1557 active wells and thirty producing companies. It says a lot about capital switching to the certainty of shale and mudstone gas production.

Tom



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April 5 NOGS Luncheon Presentation

At the Holiday Inn Downtown Superdome

High Frequency Paleoclimate Change: Impact on Exploration Strategy and Climate Research

presented by

Martin Perlmutter

Chevron, Houston

ABSTRACT

Orbital cycles alter insolation, which produces climate, sediment yield, lake and sea level cycles. The greatest insolation changes occur at the scale of precession (~20 kyr) during periods of high eccentricity. Within a hemisphere, the climatic response of a specific region is a function of the phase of the insolation cycle and the paleogeography of the region. Some areas can become wetter while others become drier at the same point in an insolation cycle.

Climate cycles affect the type and rate of sediment weathering and transport, the sediment produced, grain sizes, and yield. Analysis of yield as a function of climate indicates that volume can vary by more than an order of magnitude depending on the conditions. Therefore, a climate cycle can produce a distinct sediment supply cycle whose nature is dependent on the regional climate succession.

An added complexity, similar in some respects to the systematics of annual seasonality, is that precession-scale insolation cycles cause the warmest (or coolest) conditions in the Northern and Southern Hemispheres to be about 10 thousand years out of phase. This is significant because the effects of glacioeustasy, also a function of insolation and climate, are

global. Prior to the Plio-Pleistocene, the common glacial state was a unipolar icecap. Under this condition, eustasy tended to track the precession-scale insolation cycle of the glaciated hemisphere. The results were that similar climatic successions in opposite hemispheres had yield cycles with distinctly different phase relationships to glacioeustasy. Such differences would not exist in an ice-free world.

Understanding the inherent paleoclimatic and stratigraphic variability of a system helps improve depositional models and interpretation and reduces the uncertainty associated with exploration analyses. For example, by taking into account the interaction of sediment yield and sea level, exploration areas that are prone to the development of sand-rich submarine fans or deltas can be forecast and high graded. The same approaches can be used for lacustrine regimes.

Additionally, evaluating the stratigraphic record and recognizing that these types of variability occur and mapping them in an accurate chronologic framework will greatly assist paleoclimate modelers by ensuring that simulations are run with the appropriate input parameters and by validating their simulations at the appropriate timescales.

BIOGRAPHY

Martin Perlmutter has been a research scientist and team leader with Chevron (and Texaco) for the past twenty-five years. Prior to Chevron, Martin was also a team leader and research scientist at Argonne National Laboratory. His expertise is in reservoir prediction, basin analysis, cyclostratigraphy and paleoclimate. He has evaluated over thirty basins in North and South America, Europe, Asia, Africa, & the Indian Ocean. Martin has completed mega-regional studies of eastern North America, Brazil, Argentina, Chile, South Atlantic & China and has contributed over twenty-five scientific publications as well as numerous presentations.

Dr. Perlmutter received his B.S. in geology, 1972 and M.S. geology, 1973 from the State University of New York at Stony Brook. In 1982 he earned a Ph.D. in marine geology from the Rosenstiel School of Marine & Atmospheric Science, University of Miami.

He was 2008 Co-Chairman of the SEPM Research Symposium: Paleoclimate: Implications for Stratigraphic Interpretation & Modern Climate Change, AAPG/SEPM Annual Meeting, San Antonio, Texas. He also co-chaired the

--- continued on page 8 ---

THE LUNCHEON RESERVATION DEADLINE IS MARCH 31 - CONTACT THE NOGS OFFICE

“And Looking Ahead...”

The next NOGS Luncheon will be held on May 10. Guest speaker Charles Cusack, PetroHawk Energy Corporation, will present “The Haynesville and Eagle Ford Shale Gas Play.” Contact the NOGS office to make your reservation.

NOGS Luncheon Guest Speaker Biography, continued from page 7

New and Emerging Exploration Technologies Sessions at the 2008 AAPG/SEPM San Antonio meeting, TX. From 2003-08 he served as the U.S. representative to Intergrated Ocean Drilling Program Industry Liaison Panel. His recent professional activities include the 2009 Co-Chairman, Grand Challenges that Limit Our Ability to Understand Paleoclimate and Paleoceanography in Deep Time, AAPG/SEPM Annual Meeting, Denver, Co. In 2008-09 he was the Chevron representative to the National Research Council Panel on Paleoclimate.

From 1996 to 2009 Dr. Perlmutter was Adjunct Professor, Department of Geology, University of Illinois at Chicago. In 2008 he was an invited speaker on the Impact of Interaction between High Frequency Climate Change and Glacioeustasy on Sediment Delivery to Ocean Margins at the AAPG Hedberg Conference on Sediment Transfer from Shelf to Deepwater, Ushuaia, Patagonia.

Dr. Perlmutter's lecture-related publications include:

Perlmutter, M.A., N. Azambuja, 2005, Cyclostratigraphy, in E.A.M. Koutsoukos (ed.), *Applied Stratigraphy*, Springer, pp. 301-338.

Perlmutter, M.A., R.E. Plotnick, 2003, Hemispheric Asymmetry of the Stratigraphic Record: Conceptual Proof of a Unipolar Icecap; B. Cecil (ed.), *Climate Controls on Stratigraphy*, SEPM Spec. Pub. 77, pp. 51-66

Perlmutter, M.A., R.E. Plotnick, 2002, Predictable Differences in the Marine Stratigraphy of the Northern & Southern Hemisphere and the Impact on Reservoir Distribution, 2002 Proceedings of the Gulf Coast SEPM Annual Meeting, pp. 231- 256.

Perlmutter, M.A., R.J. Radovich, M.D. Matthews, R.E Plotnick, C.G. St.C. Kendall, 1999, Impact of High-Frequency Sedimentation Cycles on Stratigraphic Interpretation, in K.O. Sandvik, F.M. Gradstein, N.J. Milton (eds.), *Sequence Stratigraphy*, NPF Spec. Pub. 8, Elsevier Science B. V., Amsterdam, pp. 141-70.

Kim, W., C. Paola, J. Martin, M. Perlmutter, 1982, Experimental & Theoretical Results, in External Controls on Deepwater Depositional Systems, SEPM Spec. Pub #92. 1982

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Tuesday, April 13, 2010 from 7:00 to 10:00 p.m.

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- * Round-trip bus transportation will be provided from the AAPG Convention Headquarters Hotel to the Museum and will be available 6:15 to 10:45 p.m.
- * Cost of admission: \$50 per person

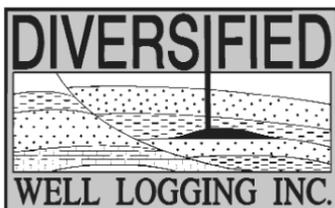
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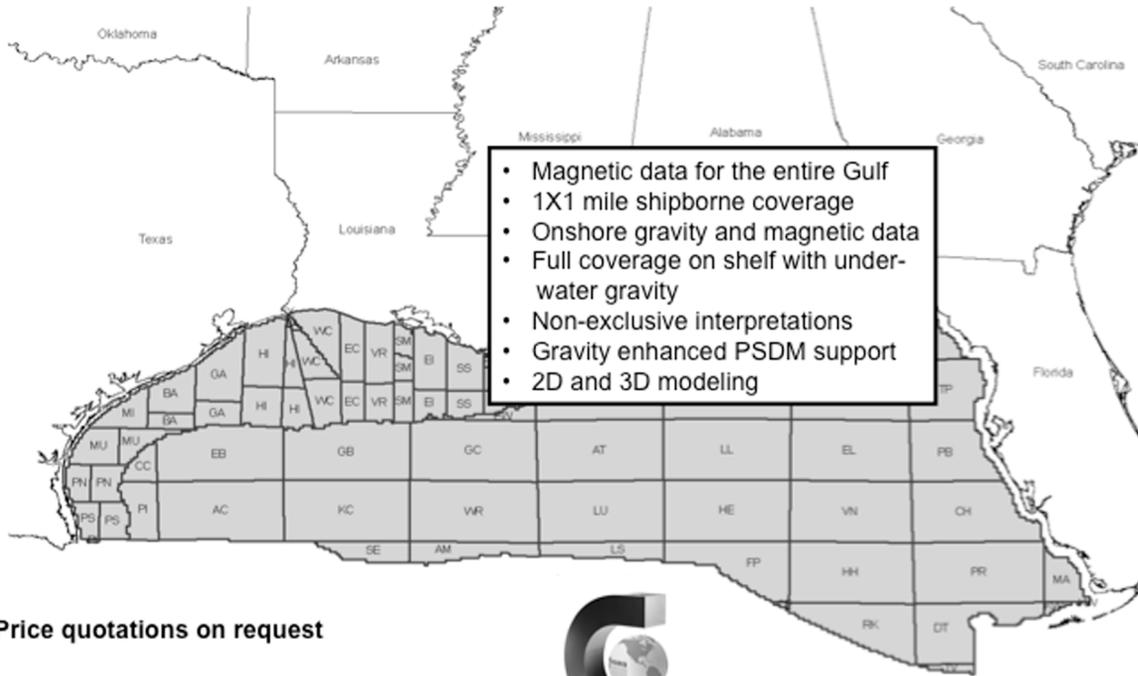
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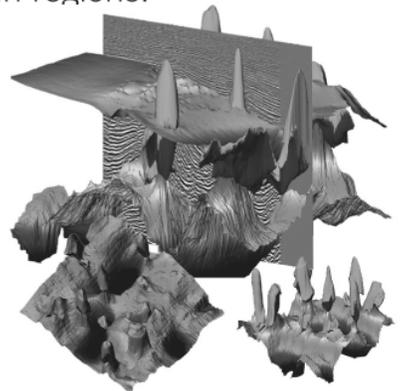
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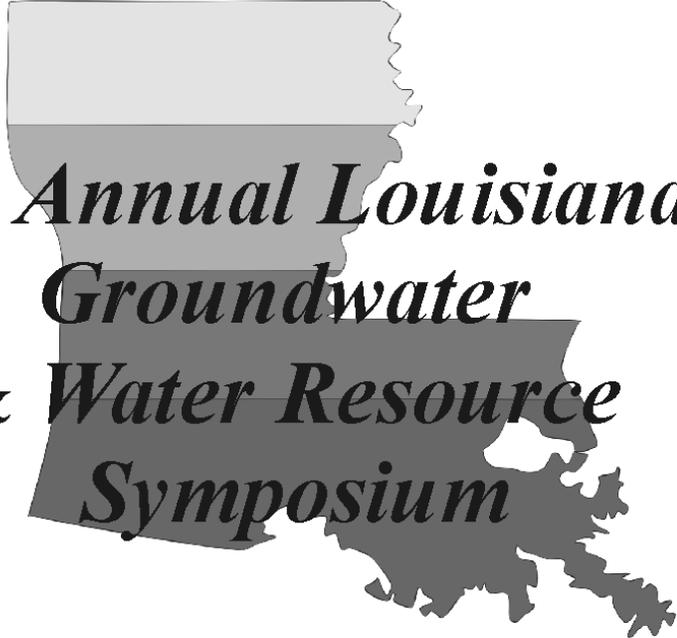
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For **PRESIDENT ELECT**

HAFNER



Bob Hafner was born in New Jersey and attended the University of Kansas for his B.S. degree in geology (1976). He earned his Master's degree from the University of New Orleans (1980). He started his career with Getty Oil Company in the onshore department. After the Texaco merger with Getty, he completed 15 years with them. He spent two years with Mobil E & P until the Exxon takeover. Thereafter, he became a certified Earth Science teacher for Jefferson Parish and an adjunct professor at Delgado teaching physical and historical geology. After Katrina he did consulting work for Shell and Dominion before joining Eni Petroleum. His current position is Senior Geologist for the Shelf Exploration group.

Bob is the current Vice President of NOGS. He has been a member of AAPG (1978) and NOGS (1981), and has been a long term volunteer for Super Science Saturday at the Children's museum.

For **VICE PRESIDENT**

KEAR



Rick Kear graduated from University of Florida with a BS in Mechanical Engineering in March 1972. In April 1972, he joined Schlumberger Offshore Services, Lake Charles, LA where he worked as a field engineer and special services specialist. In 1976 Rick came ashore as a Field Service Manager in Houma, LA. He has previously served Schlumberger clients as District Manager of New Orleans East, Senior Sales Engineer and Area Sales Manager in Jackson, MS, City Sales Manager and Division Sales Manager in Shreveport, LA, Sales Development Engineer in Roswell, NM, and Division Sales Manager in Oklahoma City, OK. Rick came to work in Geology full time in New Orleans in 1996 as Gulf Coast Division Interpretation Development Geologist.

Rick is currently the NGC (North Gulf Coast) Geology Domain Champion and Principal Geologist. His professional interests include SPWLA, (Past New Orleans Chapter President and currently VP of Symposia), petrophysics, geological and imaging interpretation, especially in resistive fluids, depositional environment determination, field studies and leading field trips and workshops. He holds 3 patents and has 3 more in process. Rick splits his time between New Orleans and Houston serving GoM clients. His personal interests are his family, the Lord, and his church. He is an AAPG Associate Member, and Member of ASME, SPWLA, SPE, SPE-Delta Section, SGS and SEG. Rick has received 3 Schlumberger Wildcatter Awards for finding clients unrecognized productive hydrocarbons. He has worked for Schlumberger his entire 37-year petroleum industry career.

For **SECRETARY**

RAPPOLD



Penne Rappold was born in New Orleans and grew up here as well. After graduating from Riverdale High School she went on to receive a BS degree in geology from the University of New Orleans. She has spent the last 30 years working both Exploration and Production projects in the offshore Gulf of Mexico for Shell E&P. After retiring from Shell in 1999, Penne began geologic consulting work and is currently assessing redevelopment opportunities in several deepwater fields for Shell. Professional memberships include AAPG and NOGS with participation on the Continuing Education Committee and currently Membership Committee Chairman. In addition to her professional career, Penne is a wife, mother, grandmother and active volunteer with the Hancock County Food Pantry and Friends of the Animal Shelter.

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For **TREASURER**

JORGENSEN



Will Jorgensen graduated from Texas A&M University, receiving BS degrees in both Geology and Geophysics in 2004. In 2007, after completing his Master's degree in Geology at A&M, he began working for Shell in New Orleans. He is presently a Production Geologist developing mature fields in the deepwater Gulf of Mexico.

Will is currently an oral presentation Co-Chairperson for the 2010 AAPG convention being held in New Orleans. He is also an active member of the Southeastern Geophysical Society

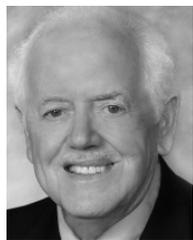
For **EDITOR-ELECT**

TATUM



David M. Tatum grew up a Michigan native and a third-generation petroleum geologist. Earning a BS in Geology from Lake Superior State University in 2005 and a Master's Degree in Geology from University of Texas at El Paso in 2007, Tatum has resided from border to border in the United States. Currently living outside of New Orleans, Louisiana, he is a petroleum geologist with Chevron working the Tahiti Field within the Deep Water Asset Development group. He is also a member of the AAPG (2003), NOGS (2007), co-authored "Eolian topography, as a control on deposition..." in the Journal of Sedimentary Research (2008) and co-chaired the Reservoir Characterization Session at the 2010 AAPG National Conference in New Orleans. He serves the New Orleans community in various community and charitable projects.

For **DIRECTOR 2010-2013** **LANGFORD**



John C. "Jack" Langford of JCL Services is a native of the New Orleans area. He received a degree in Petroleum Engineering from LSU in 1953. Jack has been a very active member of NOGS since 1958, serving on many committees both for the local society, GCAGS and AAPG. He was Exhibit Chairman for the GCAGS/SEPM Convention, September 25-27, 2005 in New Orleans. Jack has served NOGS as Chairman of Membership, Photo Directory and Entertainment committees. He was NOGS' Vice-President in 1988 and President 1991 during the 50th anniversary of NOGS. Recently he served as General Chairman of the 1997 New Orleans GCAGS/SEPM Convention. During our last AAPG convention in New Orleans he was chairman of the International Exhibits and Entertainment Committee. He has received the NOGS Outstanding Service Award, 1987 and Honorary Lifetime Membership in 1998.

Jack has been in the local service business community since 1958. First with Subsurface Evaluation, the Langford Meredith Laboratories, which was merged into the Analysts. He was transferred to London, England as Managing Director to introduce The Analysts services within the Eastern Hemisphere and in 1977 to Houston Texas to direct the Latin/South American expansion. He returned to New Orleans in 1984 and upon retiring from the Analysts/Schlumberger in 1985 formed JCL Services, as a consultant that was a short lived profession in the late 80's.

Not wanting to stay underfoot at my home, I obtained a Real Estate Brokers License. Staying busy with Real Estate and with NOGS activities pleased me to no end.

Although GCAGS-2005 Convention was rained out the Transactions were printed and dedicated to "Ed Picou and Jack Langford" the highest honor anyone can achieve.

Solicitation for Field Studies

The abstract below is from a presentation at the May 2003, NOGS South Louisiana Onshore Petroleum Exploration Symposium. A special NOGS Ad Hoc Committee is currently soliciting Field Studies from members for publication in the forthcoming Oil and Gas Fields Volume IV. Please consider contributing a field study. For details contact: Carlo Christina CarloCC398@cox.net or Charles Corona cjcorona@cox.net.

Patterson Field Re-development

R. Pete Dodge, Dominion Exploration and Production, New Orleans, LA,
and Andy Bittson, Devon, Houston, TX

ABSTRACT

Sun Oil Company discovered Patterson Field with the drilling and completion of their Zenor #1 well in 1951. Drilling continued within the field through 1992 with wells targeting the prolific Miocene age *Robulus* "L" through *Marginulina* "A" sands. No wells were drilled in the field between 1993 through 1998, resulting in a decline in daily production down to 1.7 MMCFGPD and 22 BCPD. In 1997 CNG (now Dominion) entered into a joint exploration agreement with Pennzoil (now Devon) to acquire approximately 65 square miles of new 3-D seismic data over the field. GECO-Prakla completed the acquisition of the data in 1998.

The partnership drilled and completed their first well in 1999. To date we have drilled and completed 5 wells increasing the present daily production to over 20 MMCFGPD and 1,300 BCPD. The 3-D survey helped to define several buried down to the south growth faults located south of the younger Patterson fault. Uplifted closures at the *Discorbis* "B" and *Marginulina* "A" horizons were mapped

which resulted in the drilling and completion of the Zenor A-15 (*Discorbis* "B"), Zenor A-16 (*Marginulina* "A") and Pugh #1 (*Marginulina* "A") wells. The Zenor A-17 well targeted deeper *Planulina* Sands upthrown to the Patterson fault. The *Planulina* Sands were wet. However, a shallower *Operculinoides* age sand was logged productive, reestablishing an interest in the further development of the field pay sands. The Zenor #1 was the most recent well drilled and completed. The Zenor #1 targeted both attic reserves in the *Robulus* L field pay sands and deeper potential reserves within the *Discorbis* "B" and *Marginulina* "A" sands. The well was successful within the main field pay *Robulus* "L" sands, and discovered a new *Robulus* "L" oil sand, the "R3B", which is on production at 300 BOPD.

Additional drilling is scheduled to take place this summer. We look forward to continued success with the Patterson re-development program.



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-VS-



May 14'th
New Orleans Zephyrs vs. the Fresno Grizzlies

Game starts at 7:00pm

We will have someone standing outside with your tickets to avoid the congestion at the will-call window. Location will be announced before the game

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Thanks and we will see you at the game!

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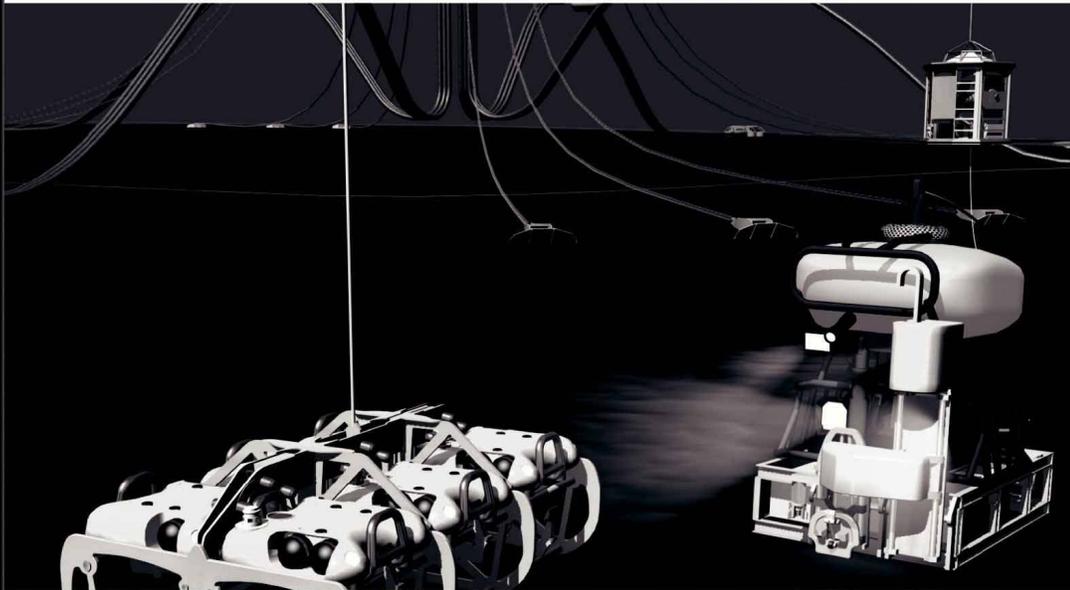
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INFO TIDBITS

- New fossil evidence points to an earlier origin of dinosaurs, 10 million years earlier. The discovery was made in southern Tanzania. Enough bones were recovered to almost complete a full skeleton. <http://geology.com/press-release/asilisaurus-kongwe/>
- Rig shortages are affecting major oil companies abilities to explore Europe and Africa for shale gas plays. Europe has 20 land rigs compared to the 1500-2000 present in the United States. <http://www.vancouversun.com/business/Most+majors+hunting+shale+Europe/2582149/story.html>
- The effects of Chile's earthquake were felt over long distances. More info can be found here: <http://earthquake.usgs.gov/earthquakes/dyfi/events/us/2010tfan/us/index.html>

- *Liz Petro*

2010

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Source: Jennings Oil No. 1

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Jennings Oil Field, Jennings, La.

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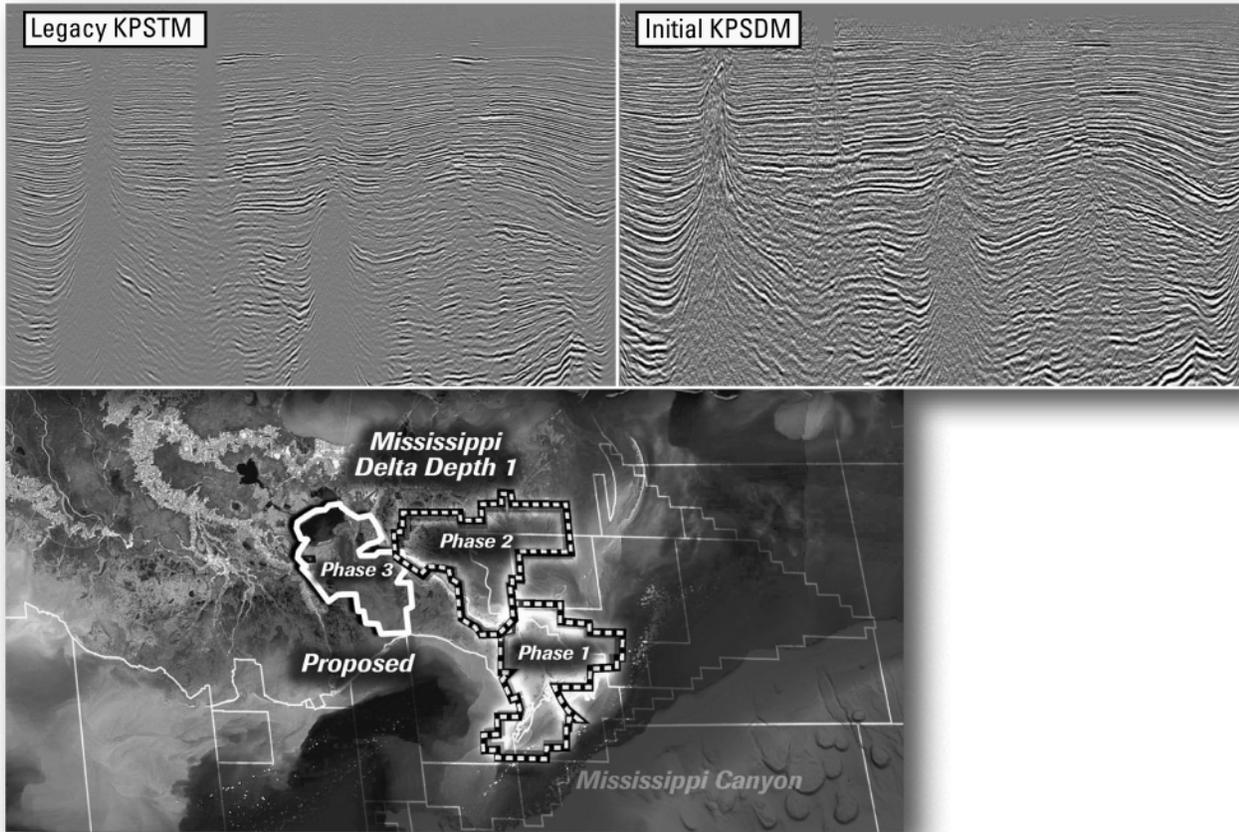
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HOW TO SUBMIT:

Abstracts (not more than 250 words) should be submitted for review online or via email to the technical program chair. Papers should have application to Gulf Coast and Gulf of Mexico geology. Include your full mailing address, telephone and FAX numbers, email address, and whether you are submitting for **oral** or **poster** or **either** (preferred).

Submit abstracts by February 1, 2010 as instructed on the website www.gcags2010.com

Notification of acceptance by March 1, 2010. All presenters, both oral or poster, must submit either a paper (10-12 pages) or an extended abstract with key figures for review by **April 16, 2010**, for inclusion in the *Transactions*. Full instructions for authors will be posted at www.gcags2010.com.

ABSTRACT DEADLINE: FEBRUARY 1, 2010!

Questions or ideas for the technical program should be directed to:

Dr. Mary Feeley Technical Program Chair 281-654-3588 missy.feeley@exxonmobil.com	Dr. Alan Dutton GCSSEPM Co-Chair 210-458-5746 alan.dutton@utsa.edu
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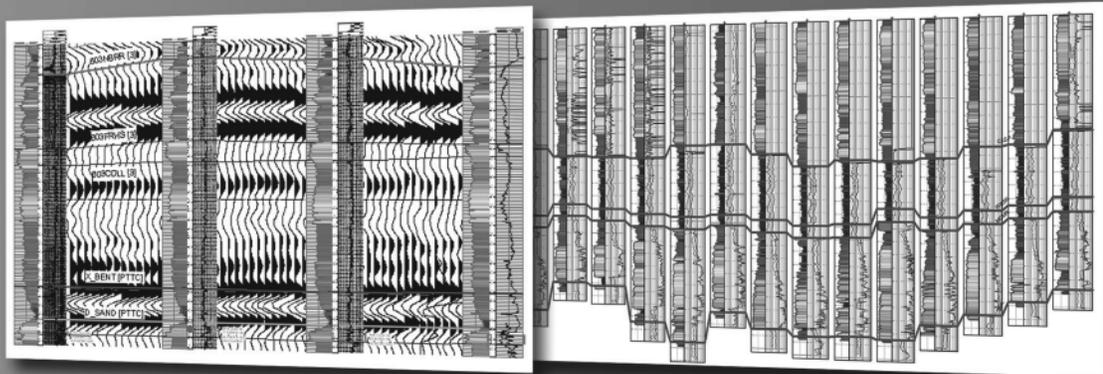


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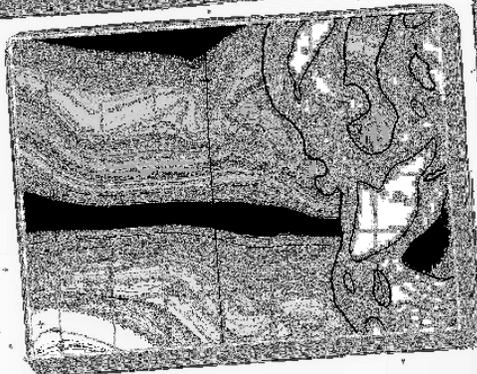
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PETROLEUM GEOLOGY FOR NON GEOLOGISTS

The New Orleans Geological Society is presenting a one day course on "Petroleum Geology for Non Geologists," 8:30 AM to 3:30 PM on Tuesday April 6, 2010 in the Shell Auditorium, Shell Building, 701 Poydras Street, New Orleans. The course will consist of a brief introduction to Basic Geology, followed by a review of how oil and gas are formed, how they are concentrated into reservoirs, the geological and geophysical methods used in exploration, and an overview of drilling and completion practices.

This course should be of significant benefit and interest to anyone who in one way or another works with geologists and geological data, such as land personnel, secretaries, draftsmen and computer programmers and processors.

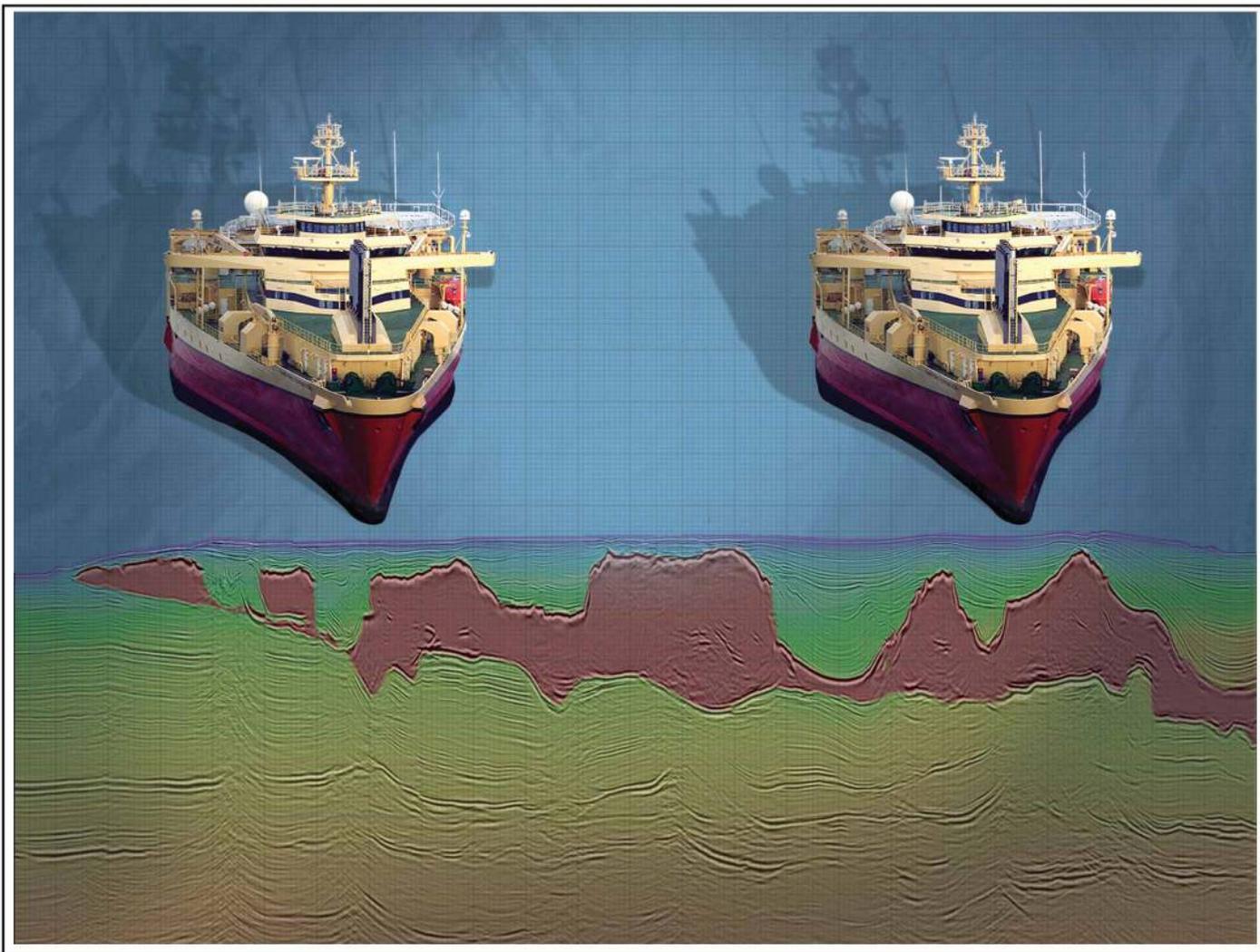
Instructors will be Duncan Goldthwaite, Consulting Geologist, Robert Branson, Consulting Geologist and Bruce Robertson, Consulting Geologist.

Cost will be \$35.00 per participant. Course notes and mid morning refreshments will be provided.

Persons interested can register by sending a check for \$35.00, made out to the New Orleans Geological Society , to:

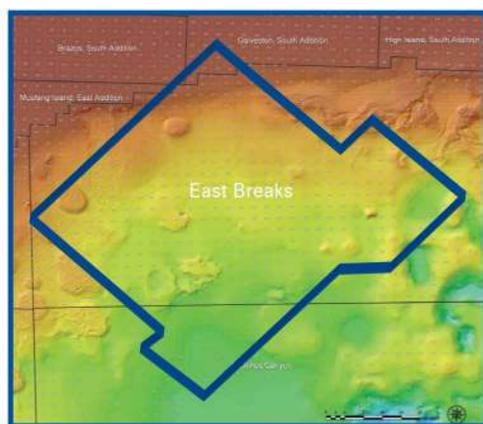
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