January SGS Luncheon

Thursday
January 10th
11:30 AM – 1:00 PM

Le Pavillon
833 Poydras Street
New Orleans, LA 70112

$30.00 pp (member)
$35.00 pp (non-member)

RSVP
Ellen Clark
Ellen Clark@Chevron.com

Featured Geological Picture

View from the base of the Fisher Towers, Grand Co, UT looking into Castel Valley. Taken on Horseback by Orion Rogers, Dec 27, 2012 [Full picture on Photo Wall]
Offset VSP P-wave and Converted S-wave Salt Proximity Migration Study

By
YingPing Li

Abstract:
The Salt Proximity Migration (SPM) method is applied to Gulf of Mexico offset VSP data (OVSP). By rotating the 3-component raw VSP data into the direct and maximum shear components, we can isolate the strong signals of direct arrival P wave, top salt converted S wave, and base salt converted S wave. The salt proximity migrations using the three types of waves as input are generated. All three migration results show strong and continuous base salt images which are supplementary to surface seismic base salt imaging. The migrated OVSP results suggest that the base salt should be pushed inward, reducing the amount of salt, under the condition of given sediment model and top salt boundary. Combined with other analysis, these salt proximity migration results provide valuable information to the velocity model building and imaging in the same area.

Speaker Biography:
Yingping Li received his Ph.D. in Geophysics from State University of New York (SUNY) at Stony Brook in 1992. He worked on imaging Hawaii lithosphere structures with the reverse VSP method for his PhD dissertation. After that he worked at Earth Resources Laboratory, MIT as a postdoctoral fellow and then a research scientist. At MIT, he worked on 4D imaging of hydraulic fracture growth by passive seismic monitoring to delineating fractures, optimal design of a hydraulic fracture monitoring system, and modeling of near-surface structure with a reverse VSP. Dr. Li joined Baker Atlas in 1997, where he worked as a geophysicist and then a geophysical advisor. His researches at Baker Atlas (VSFusion) include 3D imaging of salt flanks using P and converted S waves, single-well imaging, and 3C-3D VSP processing techniques, travel time tomography for velocity updating, estimate Q from velocity dispersion. He joined Shell in 2005 as a borehole seismic expert. He is currently in charge of North- and South-America VSP modeling, design, operation, processing, and interpretation for Shell. He also consulted Land VSP operation and processing in USA, China other areas for Shell. His research interests include 3D VSP acquisition and processing, massive salt proximity imaging, VSP diagnosis and update of surface seismic velocity models, salt proximity migration, formation fracture characterization with shear-wave splitting analysis, and joint-tomography inversion of VSP and surface seismic data for velocity update which will lead improvement of seismic and VSP images of subsurface structures, especially sub-salt structures.
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Hi Folks!

Happy New Year everyone. With the Mayan apocalypse behind us and the parades and Superbowl coming up, it’s going to be an eventful beginning to the year. Hope everyone is well rested!

Please renew your membership to not only support our local geophysical network, but also for benefits at luncheons and socials, and access to scholarships. I would also like to reiterate our call for sponsors and advertisers.

We would like to make the newsletter more personalized to our members. If you have any articles to share, please send them in for consideration. We would also like to take this opportunity to solicit any geological pictures of interest for the Featured Geological Picture section. Another section we would love to add to both the newsletter and the website is “The History of SGS”. If anyone could help out with historic SGS-related photos or stories over the years, that would be fantastic.
Photo Wall

Submitted by Bryce Rogers
Taken by Orion Rogers

DSCN0196 Cordiner Mountains GPS station in West Antarctica. Nice hard sandstone in the middle of nowhere.

Submitted by Hao Zhou
Taken by Eric Kendrick
Rocco Detomo, Jr. received his B.Sc. and M.Sc. in physics from the Ohio State University in 1973 and 1975, respectively. He served as an experimental research associate at the Ohio State University Van de Graaff Accelerator Laboratory where he received his Ph.D. in experimental nuclear physics in 1981. Rocky then joined Shell Western E&P as a geophysicist where he supervised Land Acquisition and Seismic Processing teams and interpreted onshore seismic in the continental and western United States. From 1991 until 2005, Rocky was in New Orleans managing and interpreting for Shell Offshore, Inc and Shell International E&P in the Gulf of Mexico, focusing on subsalt and structurally complex and technically challenging areas. He was the lead geophysical interpreter for a number of Shell’s subsalt developments until he returned to Houston to lead Global Deep Water Exploration Evaluation and Quantitative Integrated Evaluation Capability Deployment, and serve as Shell’s Gulf of Mexico Exploration Seismic manager. In 2008, Rocky moved to Lagos, Nigeria to serve as head of Reservoir Geophysics/Quantitative Interpretation for Shell in Sub-Saharan Africa. He is the recipient of the Houston Geological Society 1997 Best Paper of the Year, co-recipient of the 1997 A.I. Levorsen Award for GCAGS Best Paper, and Shell’s 1991 President’s Award. Rocky was president of the Southeastern Geophysical Society, the Technical Program Chairman for the 2006 SEG Annual Meeting, is Chairman of the SEG Travel Grants Committee, and serves as a Trustee Associate of the SEG Foundation. He is also a member of EAGE, APS, Sigma Xi, Phi Kappa Phi, and Who’s Who in “Teaching in America.” He spends his spare time traveling, sailing, and playing and coaching soccer.
Dear SGS members,

It was a short break! With the holiday mood and good food, I even hesitated a bit about whether I should take another couple days off. It is so easy to curl up on the sofa and dreaming in and out of the football game on TV. I hope you also had a relaxed holiday season. Now let’s pick up the mouse and start clicking!

On the horizon there are several SGS events coming up. On February 14th, we are going to have a joint luncheon with NOGS at La Pavillon. I am very excited by the speaker, Dr. Rocco Detomo, a former SGS president, a SEG distinguished lecturer, a Shell Quantitative Interpretation expert, and a buckeye! Currently he is doing a tour in the mid East and Africa on the topic of “4D time-lapse seismic reservoir monitoring of African reservoirs”. Our 2nd vice president Shane will help us secure the specific topic that he is going to present.

Another special event is the annual Golf Tournament and crawfish boil. The SGS committee members are going to have a board meeting this Friday to finalize the exact date and location. Currently we are looking at late March to early April. Last year we had very good attendance, and thanks to our generous sponsors, we were able to collect ~$4500 scholarship for geosciences majored students of universities and high school seniors. In particular, I would like to mention that last year, besides donations from organizations there are also several SGS members made personal donations. I sincerely hope that we can have more participation from individual members and overall beat last year’s achievement.

Sincerely,

Hao Zhou
Focus on Fundamentals

This is a section designed for members to share easy-to-read, high quality scientific journal articles to be used as learning resources for novices and refreshers for experienced scientists. The articles are not limited to the geophysics discipline. The collection of this section will be added to the ‘Useful Links’ of the SGS website for future reference. Only the name of the journal, issue number and page numbers are provided in consideration of copyright issues.

All SGS members, please share your recommendations with our SGS editor for monthly publication in the Reflections.

Business impact of time-lapse data in deepwater Niger Delta

T.O. Fehintola and G. Olatunbosun

The Leading Edge Jun 2011, Vol. 30, No. 6, pp.662-665

Next month, our presenter will be Rocco Detomo, Jr., the SEG 2012 Middle East & Africa Honorary Lecturer on 4D time-lapse seismic reservoir monitoring of African reservoirs. Interested in how time-lapse data adds business value in Nigeria? This article analyzes both a lookahead and lookback value of information.
Southeastern Geophysical Auxiliary News

**Upcoming SGA Events for the year:**

- TBA

The ladies of SGA welcome anyone that is interested.

Please contact Rosemary Austin at (504) 737-9697 for RSVP and additional information.

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**GPI continues to expand our 3-D database in the Gulf Coast area in addition to ongoing projects in the Marcellus Shale in Pennsylvania and the Niobrara Shale in Weld County, Colorado.**

Larry Galloway  
Phone: 985-727-6720  
Email: larry@geopursuit.com  
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This section is a collection of recent headlines that are related to activities in our backyard that we would like to bring to your attention. Please go to the source website for details.


- Dec 21 BSEE announces as much as $1.2 mil may be available for research in five topic areas in 2012 focusing on oil spill response research, including impact of chemical/physical properties of various crude oil on response options, dispersant effectiveness, temporary storage of recovered oil in the arctic, impact of low light periods on recovery options, and assessment of bioremediation products.
- Director Jim Watson releases a draft Safety Culture Policy Statement as part of the commitment to promoting offshore safety at all levels outlining safety expectations without additional regulatory requirements. It is open to public viewing and comments in the Federal Register Reading Room.
- Ocean Energy Safety Advisory Committee to hold 6th Public Meeting in Washington DC to address activities to date on oil spill prevention, spill containment, spill response and safety management systems, Arctic and the proposed ocean energy safety institute.


- Survey shows Deepwater Horizon well intact
- Shortage seen for offshore worker safety training for GoM
- Lawsuit filed against 5-year OCS leasing program
- TGS commences GoM seismic survey in eastern Central GoM through the Lloyd Ridge, Desoto Canyon and Atwater Valley areas to be processed with Clari-Fi(TM) and preliminary results available to clients 3Q 2012.
- CPC Plans to Explore for O&G on Disputed Spratly Islands

Odds and Ends

- IEA warns coal on track to be world’s chief energy source [http://www.telegraph.co.uk/finance/newsbysector/energy/9752522/IEA-warns-coal-on-track-to-be-worlds-chief-energy-source.html]
General News & Announcements

Oil price competition WINNERS:

According to [http://eoddata.com/stockquote/NYMEX/CL.htm] the price for NYMEX West Texas Intermediate Crude Oil at the close of day Dec 31st, 2012 was $91.82. Congratulations to George Rhoads, who was closest with a prediction of $89.61! Winners will be contacted by email shortly.

Renew Your Membership

Please renew your membership online on the website, in person at the monthly luncheons, or by letter. We need your support!
December 6, 2012

Dear Christy,

On behalf of Core Element: Greater New Orleans STEM Initiative, I would like to thank Southeast Geophysical Society for the donation in the amount of $250. In exchange for your contribution, you received 2 tickets to our 2012 Strike for STEM event. Note that under IRS rules, donors are only able to deduct the amount of their contribution that exceeds the value of any goods or services received, which in this case is $25 for each ticket that was used.

Your donation allows us to continue our efforts to improve STEM education in area classrooms for our children. To date, Core Element has trained over 400 teachers impacting over 40,000 Greater New Orleans students, which in turn increases student interest and proficiency in math and science subjects. Core Element has provided training to teachers from over 200 public and charter schools in Orleans, Plaquemines, St. Tammany and Jefferson Parishes, and is expanding to other surrounding parishes.

Your generous donation helps Core Element purchase hands-on STEM classroom materials, provide nationally recognized STEM professional development for K-12 teachers and increase teacher interest in a myriad of local math and science enrichment programs such as the Greater New Orleans Science and Engineering Fair and the FIRST Lego League and FIRST Robotics competitions.

Please retain this letter for your tax records and consult with your tax adviser for more specific tax information. Please keep this letter for your tax records. Core Element: Greater New Orleans STEM Initiative is a 501(c)(3) organization, Tax ID #80-0398094.

Thank you again from all of us at Core Element, the teachers who directly benefit from our efforts, and the children who rely on us all. Please feel free to contact me if you have any questions.

Sincerely,

David A. Huete PE
Core Element Board President
david.huete@core4kids.org

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Blast from the Past

Trivia – historical events that occurred in the past month:

- Oil price in Jan varied from 12.52 in 1999 to 11.27 in 2012.
- Major earthquakes:
  Jan 23 1556 8.0 Shaanix earthquake is the deadliest in recorded history, killing ~830k
  Jan 12 2010 Haiti 7.0 earthquake kills 316k
- Emil Wiechert born, known for publishing the first verifiable model of the Earth’s interior as a series of shells to conclude an iron core, the world’s first Professor of Geophysics in 1898, and helped found the International Association of Seismology.
- Jan 1919 McCollum and Karcher filed patent for determining the contour of subsurface strata, two reflection and two refraction
- Jan 1936 First issue of Geophysics
- Jan 1937 SEG formed

SGS Past Events and Presentations:

- Jan 2000 SGA and NOGA had a joint endeavor, A Day at the Races, at the New Orleans fairgrounds
- Jan 2000 Southwestern Energy announces South Louisiana Discovery at Gloria prospect

The Macuspana basin is located at the north of the Motagua-Polochic fault system in the south of Mexico, which is part of a triple junction zone where the North American, Caribbean and the Cocos plates collide. Drilling in the area confirms compartmentalization of pore pressure distribution, which may be associated with the complex structure. This case study attempts to address the following issues using integrated technology of geophysics, geology and petrophysics:

1. Pressure distribution in the study area
2. Geological Structure Influence on Pore Pressure
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<tbody>
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<td>Hao Zhou</td>
<td>Shell</td>
<td><a href="mailto:Hao.Zhou@shell.com">Hao.Zhou@shell.com</a></td>
</tr>
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<td>1st VICE PRESIDENT</td>
<td>Shane Carley</td>
<td>Chevron USA Production Company</td>
<td><a href="mailto:ShaneCarley@chevron.com">ShaneCarley@chevron.com</a></td>
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<td>2nd VICE PRESIDENT</td>
<td>Ellen Clark</td>
<td>Chevron USA Production Company</td>
<td><a href="mailto:EllenClark@chevron.com">EllenClark@chevron.com</a></td>
</tr>
<tr>
<td>SECRETARY</td>
<td>Tonya Richardson</td>
<td>Chevron USA Production Company</td>
<td><a href="mailto:RichardsonT@chevron.com">RichardsonT@chevron.com</a></td>
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<td>Na Shan</td>
<td>Shell</td>
<td><a href="mailto:Na.Shan@shell.com">Na.Shan@shell.com</a></td>
</tr>
<tr>
<td>EDITOR</td>
<td>Patricia Yu</td>
<td>Shell</td>
<td><a href="mailto:Patricia.Yu@shell.com">Patricia.Yu@shell.com</a></td>
</tr>
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<td>PAST PRESIDENT</td>
<td>Jared Bosch</td>
<td>Chevron USA Production Company</td>
<td><a href="mailto:Jared.Bosch@chevron.com">Jared.Bosch@chevron.com</a></td>
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<tr>
<td>PRIOR PAST PRESIDENT</td>
<td>Ken Reynolds</td>
<td>Chevron USA Production Company</td>
<td><a href="mailto:Kenrey@wescarg.com">Kenrey@wescarg.com</a></td>
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<tr>
<td>WEBMASTER</td>
<td>Richard Mongan</td>
<td>Chevron USA Production Company</td>
<td><a href="mailto:Richard.Mongan@chevron.com">Richard.Mongan@chevron.com</a></td>
</tr>
<tr>
<td>SGS Outreach Officer</td>
<td>Lisa Dwyer Kennedy</td>
<td>Bureau of Ocean Energy Management, Regulation and Enforcement</td>
<td><a href="mailto:Lisa.Kennedy@boemre.gov">Lisa.Kennedy@boemre.gov</a></td>
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<tr>
<td>PRESIDENT</td>
<td>Sara Davis</td>
<td>Seismic Ventures</td>
<td><a href="mailto:s.davis@seismicventures.com">s.davis@seismicventures.com</a></td>
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<td>1st VICE PRESIDENT</td>
<td>Matt Dennis</td>
<td>Halliburton</td>
<td><a href="mailto:steve.dennis@halliburton.com">steve.dennis@halliburton.com</a></td>
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<td>Schlumberger</td>
<td><a href="mailto:gillis1@new-orleans.oilfield.slb.com">gillis1@new-orleans.oilfield.slb.com</a></td>
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<td>Diana Smith</td>
<td>BOEMRE</td>
<td><a href="mailto:dse.smith@boemre.gov">dse.smith@boemre.gov</a></td>
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<td>Jim Harley</td>
<td>Eagle Geophysical</td>
<td><a href="mailto:jimharley@yahoo.com">jimharley@yahoo.com</a></td>
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<td>E-Seis</td>
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<td>Paradigm</td>
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<td>Martin Luther King Jr Day</td>
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