

HGS Bulletin

Volume 51 Number 1

Houston Geological Society

September 2008

**OPPORTUNITY FROM
COAST TO COAST**

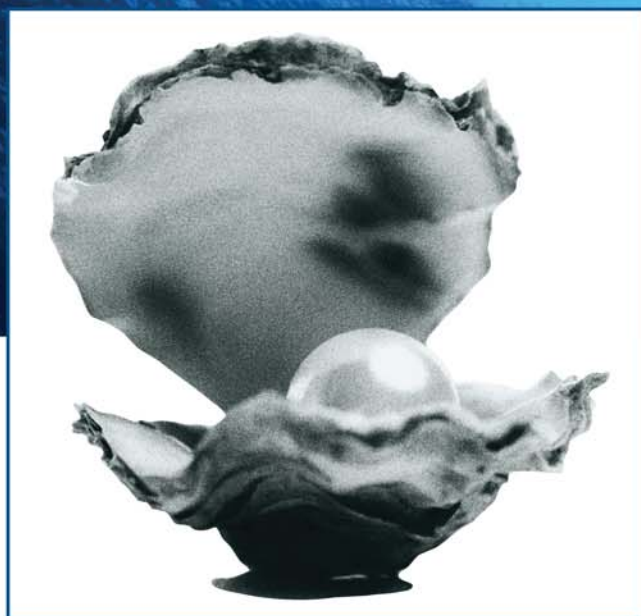
**7TH HGS / PESGB
INTERNATIONAL
CONFERENCE ON
AFRICAN E & P**

SEPTEMBER 8TH – 10TH

PAGE 13



Introducing OYSTER



A new way to access U.S. well data from TGS' collection of over 5,000,000 logs

With **OYSTER**, LOG-LINE Plus! users pay a single annual fee for **unlimited downloads** of depth-calibrated smartRASTER® logs from TGS' unrivaled U.S. collection. Having all the data you need is now more affordable than you think.

For more information, please call **888-LOG-LINE** or contact your TGS account manager.



Geophysical
Products



Geological
Products

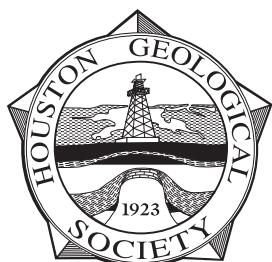


Imaging
Services

www.tgsnopec.com

NORWAY +47 66 76 99 00 | USA +1 713 860 2100 | UK +44 (0) 1234 272122 | AUSTRALIA +61 8 9480 0000 | RUSSIA +7 495 229 13 24

©2008 TGS-NOPEC Geophysical Company. All Rights Reserved.



The Bulletin

Houston Geological Society

Volume 51, Number 1

September 2008

In Every Issue

- 5 From the President**
by Kara Bennett
- 7 From the Editor**
by Michael Forlenza
- 38 GeoEvents Calendar**
- 71 HGS Membership Application**
- 72 HGA/HPAC**
- 73 Professional Directory**

Houston Geological Society

OFFICERS

Kara Bennett *President*
Gary Coburn *President-elect*
Art Berman *Vice President*
John Tubb *Treasurer*
Matt Boyd *Treasurer-elect*
Mike Jones *Secretary*
Michael Forlenza *Bulletin Editor*
Gordon Shields *Editor-elect*

DIRECTORS

Alison Henning
Richard Howe
Ianthe Sarrazin
Walter Light

HGS OFFICE STAFF

Sandra Babcock *Office Manager*
Lilly Hargrave *Webmaster*
Ken Nemeth *Office Committee Chairman*

EDITORIAL BOARD

Michael Forlenza *Editor*
Gordon Shields *Editor-elect*
James Ragsdale *Advisory Editor*
Charles Revilla *Advisory Editor*
Lilly Hargrave *Advertising Editor*
Lisa Krueger *Design Editor*

The Houston Geological Society Bulletin (ISSN-018-6686) is published monthly except for July and August by the Houston Geological Society, 14811 St. Mary's Lane, Suite 250, Houston, Texas 77079-2916. Phone: 713-463-9476; fax: 281-679-5504

Editorial correspondence and material submitted for publication should be addressed to the Editor, Houston Geological Society Bulletin, 14811 St. Mary's Lane, Suite 250, Houston, Texas 77079-2916 or to hgs_editor@earthlink.net

Subscriptions: Subscription to this publication is included in the membership dues (\$24.00 annually). Subscription price for nonmembers within the contiguous U.S. is \$30.00 per year. For those outside the contiguous U.S. the subscription price is \$46.00 per year. Single-copy price is \$3.00. Periodicals postage paid in Houston, Texas.

POSTMASTER: Send address changes to Houston Geological Society Bulletin, 14811 St. Mary's Lane, Suite 250, Houston, Texas 77079-2916

Technical Meetings

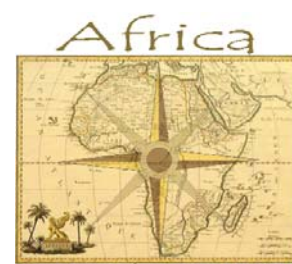
- 19 HGS General Dinner Meeting**
Brave New World of Oil
- 21 HGS Northsiders Luncheon Meeting**
Gas in Place Identification from Mudlog Gas Barnett Shale — Fort Worth Basin
- 23 SIPES Luncheon Meeting**
Significant Recent Exploration Success
North and South Winchester Fields
Wayne County, Mississippi
- 25 HGS International Exploationists Dinner Meeting**
Keys to Exploration Success in the Pre-Salt Play, Santos Basin, and Potential along the Eastern Brazil Margin
- 29 HGS General Luncheon Meeting**
Hot U.S. Plays: Mostly Shale

Other Features

- 13 The 7th HGS/PESGB International Conference on African E & P**
- 31 Geologic Website of the Month**
www.usgs.gov
Michael Forlenza
- 33 A Celebration of our Volunteers — HGS President's Night 2008 — Carmelo's Italian Restaurant on June 21**
- 36 Feature Article**
When a Fault System Re-Awakens
Observations on China's Longmenshan Thrust Belt
Dr. Franz L. Kessler
- 45 Feature Article**
A Look Back at Our Oil Heritage
The Graying of Petroleum Historians
Jeff Spencer
- 48 HGS Guest Night 2008**
Life Without the Big G
Bonnie Milne-Andrews
- 51 25th Annual HGS Skeet Shoot Goes off with a Bang**
- 53 HGS Community Outreach Projects for 2008-2009**
- 55 Government Update**
Henry M. Wise and Arlin Howles
- 65 1001 Texas Place Names**
- 67 Remembrances**

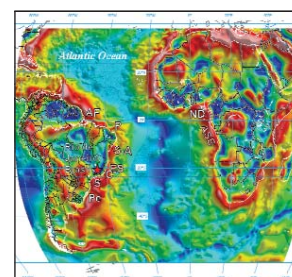


page 6

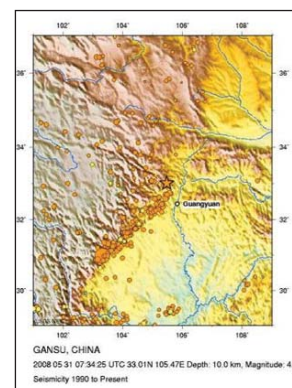


Opportunity from Coast to Coast

page 13



page 25



page 36

About the Cover: A composed satellite photograph of Africa in orthographic projection. This is NASA "Blue Marble" image is applied as a texture on a sphere using Art of Illusion programming. The observer is centered at 0° N, 15° E, at Moon distance above the Earth. (<http://visibleearth.nasa.gov/>)

PETRA®

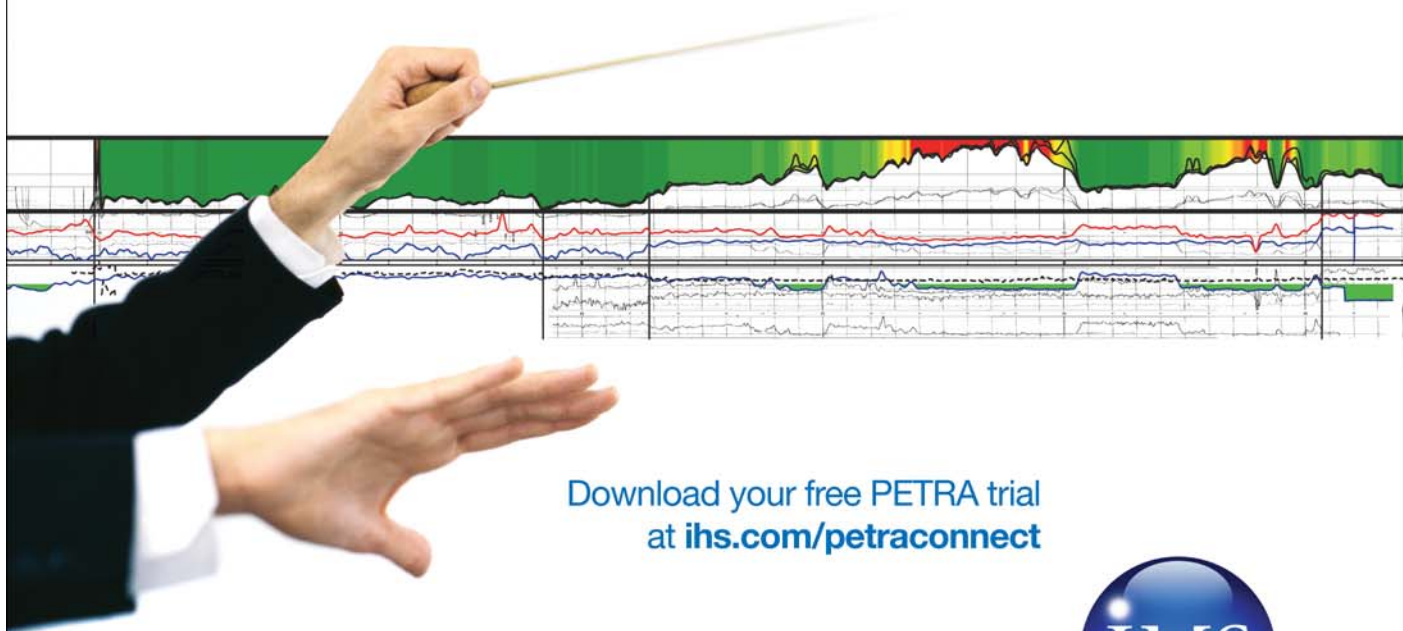
Conduct your search for oil & gas with clarity and confidence.

“IHS data and PETRA: the beauty is in the integration of data, software and disciplines. With PETRA we can bring it all together; making it do what we need it to. It's that simple.”

Tom Perkins

Chief Geologist, Ivanhoe Energy

PETRA provides multi-discipline reservoir management teams with the analysis tools needed for today's exploration, exploitation and acquisition challenges.



Download your free PETRA trial
at ihs.com/petraconnect



The Source
for Critical Information and Insight™

©2008 IHS Inc. All rights reserved.

Board of Directors 2008–09

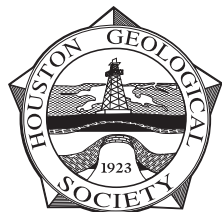
http://www.hgs.org/about_hgs/leadership.asp

President (P)	Kara Bennett	Consultant	832-452-3747	kcbhgs@gmail.com
President-elect (PE)	Gary Coburn	Murphy Oil	281-675-9210	gary.coburn.hgsvp@gmail.com
Vice President (VP)	Art Berman	Labyrinth Consulting Services	713-557-9076	bermanae@gmail.com
Secretary (S)	Mike Jones	Scout Petroleum	713-654-0080	mike@scoutpetroleum.com
Treasurer (T)	John Tubb	INEXS	713-805-5649	jtubb@tmrx.com
Treasurer-elect (TE)	Matt Boyd	Southwest Energy	281-618-7379	matt_boyd@swn.com
Editor (E)	Michael Forlenza	Malcolm Pirnie Inc.	713-960-7421	hgs.forlenza@gmail.com
Editor-elect (EE)	Gordon Shields	Fugro Gravity and Magnetics Services	713-369-6132	gshields@fugro.com
Director 07-09 (D1)	Alison Henning	"H2B, Inc. / Rice University"	832-203-5016	alison@henning.com
Director 07-09 (D2)	Richard Howe	Terrain Solutions	713-467-2900	hgs.howe@gmail.com
Director 08-10 (D3)	Ianthe Sarrazin	Petrobras America	713-808-2775	ianthe.hgs@gmail.com
Director 08-10 (D4)	Walter Light	Thunder Exploration	712-823-8288	wthunderx@aol.com

Committee	Chairperson	Phone	Email	Board Rep.
AAPG HOD Foreman	Sharie Sartain	713-654-2016	smartain1@comcast.net	P
Academic Liaison	Karen Pate	832-239-5985	karen@geomodeling.com	D3
Ad Hoc Constitution & Bylaws	Steve Earle	713-328-1069	steve.hgseditor@gmail.com	P
Advertising	Lilly Hargrave	713-463-9476	ads@hgs.org	E
Arrangements	Matt Boyd	281-618-7379	matt_boyd@swn.com	TE
Awards	Mike Deming	281-874-2831	mike.deming@swiftenergy.com	VP
Ballot	Paul Hoffman	713-783-7880	phoffman@jlaev.com	S
Calvert Memorial Scholarship	Carl Norman	713-461-7420	dod895@aol.com	PE
Community Outreach	Walter Light	713-529-2233	wthunderx@aol.com	D1
Continuing Education	Ken Schwartz	281-690-0995	kenschwartz@mail.com	D1
Directory	Michael S. Benrud	713-785-8700 x104	mbenrud@sbres.com	EE
Earth Science Week	Martha McRae	713-869-2045	mcrae_1125@comcast.net	D1
	Jennifer Burton		jlbgeo@comcast.net	D1
Engineering Council	Claudia Ludwig	713-723-2511	petra@hal-pc.org	D4
Environmental & Eng Geologists	Matthew Cowan	713-777-0534	wrcowan1@hal-pc.org	VP
Exhibits	Paul Carter	713-826-0540	pcarterjr@charter.net	D3
Field Trips	Gary Moore	713-466-8960	gmoore@wellhub.com	D4
Finance	Joe Lynch	281-496-9898 x134	jly@sptgroup.com	T
Foundation Fund	John Adamick	713-860-2114	jada@tgsnopec.com	PE
General Meetings	Art Berman	713-557-9076	bermanae@gmail.com	VP
Golf Tournament	Mark Dennis	281-494-2522	mdennis@petrolog.com	D1
Government Affairs	Arlin Howles	281-808-8629	tiden@sbcbglobal.net	D4
	Henry Wise	281-242-7190	hmwise@yahoo.com	D4
Guest Night	Bill Osten	281-293-3160	bill.w.osten@conocophillips.com	D2
Houston Energy Council	Sandi Barber	713-935-7830	sbarber@seismicmicro.com	D4
HGA/HPAC	Norma Jean Jones	281-497-3857	normajones@cs.com	S
	Daisy Wood	713-977-7319	daisymallia@sbcbglobal.net	S
International Explorationists	Justin Vanden Brink	281-877-9400	vandenbrink@rpsgroup.com	VP
Ad Hoc Int'l Year of Planet Earth	Ralph Baird	713-461-1784	ralph@bairdusa.com	D3
Membership	Steve Levine	713-624-9723	steve.d.levine@conocophillips.com	S
Membership Growth	Linda Sternbach	281-679-7333	linda.sternbach@gmail.com	D2
Museum of Natural Science	Inda Immega	713-661-3494	immega@swbell.net	D3
NeoGeos	Cecelia Baum	713-268-5238	cecelia.baum@maersk.com	S
	Rachael Czechowskyj	713-609-4406	sea2stars@gmail.com	
New Publications	Bill Rizer	281-392-0613	rizerwd@gmail.com	D1
Nominations	Linda Sternbach	281-679-7333	linda.sternbach@gmail.com	P
North American Explorationists	Steve Getz	713-871-2346	sgetz@jlaev.com	VP
Northsiders	Tony D'Agostino	832-237-400	tony.dagostino@weatherfordlabs.com	VP
	David Tonner	713-516-6894	dtonner@comcast.com	VP
Office	Ken Nemeth	713-689-7605	knemeth@houston.oilfield1.slb.com	PE
Personnel Placement	Peter Welch	713-862-2287	peter-welch@sbcbglobal.net	PE
Publication Sales	Tom Mather	281-556-9539	geomather@aol.com	
Remembrances				EE
Shrimp Peel	Lee Shelton	713-595-5116	lshelton@knowledge-reservoir.com	D1
Skeet Shoot	Tom McCarroll	713-353-4728	tom_mccarroll@yahoo.com	D1
Technofest	Deborah Sacrey	713-468-3260	dsacrey@auburnenergy.com	D1
Tennis Tournament	Ross Davis	713-659-3131	rossdavis@davisbros.com	D1
Vendor's Corner	Paul Babcock	713-859-0316	pebabcock@aol.com	TE
Web Site Manager	Tarek Ghazi	281-639-2028	tarek@geoknowledge.com	PE
Web Master	Lilly Hargrave	713-463-9476	webmaster@hgs.org	PE
HGS Office Manager	Sandra Babcock	713-463-9476	sandra@hgs.org	

It's Time to Renew Your HGS Membership

Your membership expired June 30, 2008



Annual dues are only \$24.00

Full-time students and Emeritus members pay \$12.00

**Check your email for a reminder notice and
renew online at www.hgs.org**

Alternately, you may fill out this form and return with your remittance—include your CURRENT EMAIL (important)

Full-time students enrolled in a qualified geology program may be eligible to have their \$12.00 membership fee subsidized; details will be available on the HGS website soon.

Name: _____

Member No.: _____ Type: Active__ Associate__ Emeritus__ Full-time Student__

Current Email: _____

Preferred Address for HGS mail and *Bulletin*:

City: _____ State: _____ Zip Code: _____

Phone: _____

This is my home address ____ business address ____

Annual dues (\$24) for the 2008–2009 year: _____

Scholarship Contributions — Calvert: _____

HGS Foundation — Undergraduate: _____

TOTAL REMITTANCE: _____

Send check and form to: HGS Office, HGS Membership Renewal, 14811 St. Mary's Lane, Suite 250, Houston, Texas 77079

or fax this form with credit card number to 281-679-5504

PAYMENT

Check # _____

Credit Card number and type: _____

_____ Expiration Date (required): _____ CVV code (req'd): _____

Name on Credit Card: _____

Daytime Phone number of Card Holder: _____

Billing Address for Card: _____

City, State and Zip: _____



Kara Bennett

HGS Looks Forward to a Busy Year

We are at the start of another HGS year, and what a year it will be! Stepping into my new role as president, I am amazed at the scope of the events we do, and honored to be walking in the footsteps of so many capable presidents that have come before me.

This will be a year of abundant technical information. It seems to me that the pace of information keeps getting a little quicker, and I'm glad to be able to attend symposia that sum it all up and keep me up to date.

Even the summer has been busy—the July Ethics talk held jointly between HGS and SIPES was an enormous success, and Technofest '08, ably coordinated by Deborah Sacrey, sold out. Our Student Summer Intern party at Technofest may become an annual event, welcoming Houston's student interns into our community and the HGS.

We will be starting off the Fall with the HGS/PESGB Africa Conference, September 8-10. This conference, alternating between Houston and London, has become “the place to be” for anyone working in Africa. It is well worth attending.

October 4-6 will be the GCAGS annual meeting. This year the meeting will be at the George R. Brown Convention Center jointly with the annual GSA and Tri-Societies meetings. As a member of HGS, you are already a member of GCAGS. You can attend just the two days of GCAGS talks or the full five days of joint-meeting technical talks. Be sure to register as a GCAGS member, though, because only member-registrants will get their free copy of the GCAGS transactions and an invitation to attend the President's party, which will be a fun just-for-members event costing you less than a draft beer. Also, be sure to participate in the enormous slate of short courses and field trips, organized by our HGS members as the host society. This has been a terrific organization effort by our own Leta Smith (short courses) and Gary Moore (field trips) with a great deal of help from Richard Howe.

September's HGS talks look to be exciting as well. Our General Dinner meeting speaker Nansen Saleri will talk about a subject dear to all our hearts, peak oil and the role of national oil companies. As former head of reservoir management for Aramco and current president and CEO of Quantum Reservoir Impact, he should have a lot to say. The International Group talk will be about integrating geochemistry to identify trap potential on the

unexplored south flank of the Santos Basin in Brazil, by William Dickson and Craig Shiefelbein. I always enjoy learning about new ways to integrate different kinds of data into a useable whole, so I am looking forward to this one.

This year will be a shaley one. We will start off with the Northsiders, who will hear

Jeffrey Nunneley's talk about measuring gas-in-place in the Barnett Shale at their September meeting. Then it is a two-part series at the September and October Luncheons by Stephen Trammel on “Hot US plays: Mostly Shale.” This one was standing room only in San Antonio, and I am looking forward to hearing the talk since I missed it there. Mr. Trammel will be back with Part 2 in October. And, in February, we are working on a sequel to last year's very successful Mudstones Conference organized by Frank Walles.

And now, we have a couple of administrative notes. This year, HGS is going to an all paid-ahead system of reservations on the web site for the general meetings. Over the years, we have consistently lost money through no-shows at our meetings—we make very little over our costs on the dinners and lunches, and one or two no-shows can make the difference between a profit and a loss on some meetings. So we are reluctantly moving to a pay-ahead system. If you are not sure ahead of time if you will be able to attend, you may still be able to attend as a walk-up for most meetings, but the organization will not lose money paying for your meal if you are not able to make it at the last minute. For those folks who do not use the web, the office staff is cheerful and willing to help you pre-register to attend.

From the President continued on page 9

HGS GOLF TOURNAMENT

Monday – September 15, 2008

Kingwood Country Club



**COME CHECK OUT OUR FASTER PACE OF PLAY
& BIGGER SELECTION OF DOOR PRIZES!**

Come out and join us for golf, food, friends and fun at the annual HGS Golf Tournament at Kingwood Country Club. This year's format will be a four man scramble, with three flights determined by handicap. First, second, and third place awards (blind draw for 3rd place) will be awarded for each flight. There will be prizes awarded for closest to the pin (4 holes per course) and long drive (3 holes per course) as well as many great door prizes and raffle prizes for participants.

The entry fee is \$125.00 per person or \$500.00 per team on entries received before August 29th and \$150.00 per person or \$600.00 per team on entries received after August 29th. Individual entries will be grouped with other individual golfers to make a foursome. Entries are limited and will be accepted on a first-in basis.

Companies or individuals interested in sponsoring the event should contact Mark Dennis at 281-494-2522 (office), 281-705-4346 (cellular) or by faxing the HGS office at 281-679-5504.

To enter, fill out the entry form at the bottom of this page and mail or fax with your entry fee (payable to **HGS Entertainment Fund**) to:

HGS Office

14811 St Mary's Lane, Suite 250 • Houston, TX 77079

713-463-9476 (office), 281-679-5504 (fax)

SCHEDULE OF EVENTS

9:30 – 11:30 a.m.	Registration and free use of driving range
10:30 – 11:30 a.m.	Optional lunch
11:45 a.m.	Shotgun start
4:45 p.m.	Cash bar, open buffet
5:30 p.m.	Dinner with awards presentation



Name _____ Phone _____ Amount Enclosed _____

Company _____

Billing Address _____

Credit card # _____

Exp. Date _____ Code# _____

Foursome Members (Please Print)	Company Name	Phone Number	Hdcp/Avg. Score
------------------------------------	--------------	--------------	-----------------

1. _____	_____	_____	_____
----------	-------	-------	-------

2. _____	_____	_____	_____
----------	-------	-------	-------

3. _____	_____	_____	_____
----------	-------	-------	-------

4. _____	_____	_____	_____
----------	-------	-------	-------

Foursome Captain's e-mail _____



Michael Forlenza, PG
hgs.forlenza@gmail.com

New Editor, New Feature, and The Price of Energy

The September *Bulletin* kicks off the 2008 – 2009 year for the Houston Geological Society. As the new editor of the *Bulletin*, I plan to continue to provide our members with the quality publication that previous editors have delivered. I hope that you look forward to receiving the *Bulletin* and take some time to read through the information on the upcoming activities and meetings.

September will start off an exciting fall for the Society. The African Conference, co-sponsored by the HGS and the Petroleum Exploration Society of Great Britain, returns to Houston with the theme, "Opportunity from Coast to Coast." This will be the 7th annual African Conference. It will be held at the Marriott Houston Westchase on September 8th to 10th.

As September draws to a close, activities will be ramping up for the joint convention of the Gulf Coast Association of Geological Societies, Geological Society of America, American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America from October 5th to 9th. The HGS is the host society for this huge conference that will draw geoscientists from across the U.S. and around the globe. Many volunteers are needed; check the HGS website for contact information to find out what you can do to help.

Make an effort to attend one of these conferences or one of the technical meetings this fall, it will be time well spent.

New Feature — Geologic Website of the Month

Over the next several months, the *Bulletin* will feature websites of interest to geologists. The internet has developed into an extensive resource and repository for a wide range of information. This includes an abundance of geologic, regulatory, and mapping information found on many governmental, educational, society, and industry websites. For many geologists, online resources have become indispensable tools for our jobs. Information that once

required a visit to an academic library can now be retrieved in minutes on any computer with an internet connection. While I still enjoy the tactile sensation of handling a well-crafted book and the accidental discoveries that come from a trip to the stacks, the internet has the powerful advantages of convenience, speed, and searchability.

The scope and breadth of the available geologic information on the internet is staggering. Enter the word "geology" into a search engine and more than 33 million websites are found. Whether you are interested in geology career opportunities, current events, images of volcanoes, or planetary science, you will find useful information. Do you remember the difference between the orthorhombic and the tetragonal crystal systems? Which is coarser a greywacke or a flysch? Who was Georges Cuvier? The answers to these questions, and to questions you may not have even asked, are out there.

Each installment of this feature will present a brief tour of a selected geology website. Some of these websites will be straightforward sources of data while others will be more of a pleasant or interesting diversion. The month, the website of the United States Geological Survey is featured.

The Price of Energy

Unless you have spent the last 12 months working in NORAD's underground bunker or living as a hermit on a remote mountain, you are aware of the recent rise in the price of energy. This summer, gasoline pushed past \$4 per gallon in the U.S. and the price of light sweet crude surged beyond \$147 per barrel in July. While the price has moderated since then, with the price of crude oil falling to approximately \$125 per barrel at press time, the oil market remains tremendously volatile. The price of oil soared five-fold between the start of the Iraq war in 2003 and July 2008, and nearly tripled in the 18 months after January 2007 when a barrel of crude cost \$50.48. (see the chart below)

From the Editor continued on page 9

What's next for the price of energy? There is no shortage of opinions. The only certainty is that the price will remain volatile.

Gulf Coast Association of Geological Societies & Gulf Coast Section of SEPM



GCAGS HOUSTON 2008

CALL FOR PAPERS

58th Annual Convention

October 6th – 7th, 2008

Houston, Texas

HOSTED BY THE HOUSTON GEOLOGICAL SOCIETY



The Houston Geological Society is proud to host the 2008 Joint Annual Meeting for GSA/SSSA/ASA/CSSA/GCAGS/GCSSEPM. This joint meeting, which will run from October 5th-9th, 2008, will include GCAGS sessions on Monday October 6th and Tuesday October 7th. GCAGS needs your assistance to continue our long tradition of presenting the best in geoscience from the Gulf Coast and then publishing these materials in the “GCAGS Transactions”. We want you to be part of this tradition by submitting a contribution to our technical program and the “2008 GCAGS Transactions”

REGISTER EARLY AND SAVE \$\$\$

The 2008 convention will differ from the usual format in several ways, because it will be a joint meeting with GSA. Note, in particular, that professional registration for the full meeting will be \$340 (\$400 on-site) but that the GCAGS activities will be confined to the first two days of the technical sessions (Monday-Tuesday, October 6 and 7) with a two-day registration fee of \$250 (\$275 on-site). In addition, a special “Early Bird” registration fee is available for one week starting June 1, of \$225 for the two days of GCAGS activities. Go to www.gcags2008.com. It's not too late to submit an abstract/paper!

TECHNICAL SESSIONS (Oral & Poster)

Energy Budgets & the Global Markets

Applied Micropaleontology

Shale Gas

Hydrates and Shallow Gas

Integrated Pore Pressure Predictions: Case Studies

Geology of the Gulf Coastal Plain: Insights into Offshore Exploration

Faults: Friend and Foe

Allochthonous Salt: Impact from Exploration to Production

Visualization of Depositional Systems

Predictive Models for Deep-Water Reservoir Distributions: The Subsalt Challenge

Old Fields-New Life: How New Technologies or New Ideas Have Made a Difference

Advances in Seismic Imaging-Impact on Exploration through Production: Case Studies

Depositional Systems: Insights from Outcrops, Shallow Seismic, or Coastal Studies

Uncertainty Assessment & Its Impact on Decision Making

Gulf of Mexico Coastal Plain Paleontology

Environmental Geology & Hydrology

HOW AND WHEN TO SUBMIT:

Abstracts for oral and poster presentations are due by June 3, 2008 to www.acsmeeings.org/2008, with final manuscripts due by June 24. Contact information for the technical session chairs, as well as instructions for authors for 2008 GCAGS Transactions, can be found at the GCAGS website, www.gcags2008.org. Please contact the individual session chairs listed on our website to notify them of your interest and reserve a spot in the technical program. For general questions on the technical program please contact Dr. Art Donovan, the 2008 GCAGS Technical Program Chair. He can be contacted via e-mail at: art.donovan@bp.com.

It is also time to double-check to make sure you have renewed your membership for this year. Every year in October, the members who have not renewed yet (the renewals went out at the beginning of the summer, y'all...) will be dropped from our membership rolls, and the number of people who fall off the list is appallingly large. Very often people just forget, so do yourself a favor and check your membership now. If you have changed your employer or address, you can update that information on the website while you are there, and perhaps make a contribution to

the HGS scholarship funds (HGS Foundation for undergraduates, Calvert Memorial for graduate students—both are tax deductible) if you're feeling lucky to be a geologist in this boom time.

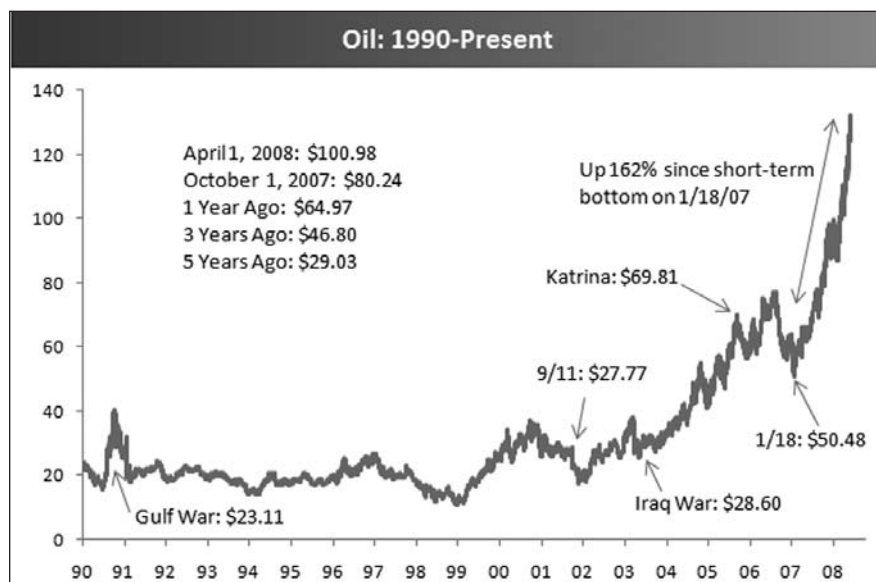
Remember the old bumper sticker... "Please God let me have another oil boom—I promise I won't **** it all away this time..." I'm feeling remarkably lucky these days. ■

From the Editor continued from page 7

The rise of the price of oil has been stunning, leading to wide-ranging repercussions. Oil company CEOs have been called before congress to provide an explanation for the rapid price increases. Truckers and fishermen across Europe have gone on strike, blocking roads and ports. The crippled airline industry has added baggage fees and surcharges, slashed service, and laid off thousands of workers under the staggering weight of billions of dollars of additional fuel costs. The sales of new cars and trucks fell to a 10-year low in June.

The rapid run-up in the price of a vital resource like oil sets off the search for a culprit. Who is to blame? Grandstanding politicians and media pundits wring their hands and point to a host of perpetrators, citing a new villain each week. The accused and the charges have included:

- **Speculators** — Rapacious financial traders are subverting the natural marketplace and reaping billions in profits. Speculators, such as hedge funds and investment bankers, are using loopholes in commodities law to manipulate the market and drive crude oil, heating oil, gasoline, and diesel fuel prices to record highs.
- **China and India** — The insatiable thirst for fuel from the burgeoning Chinese and Indian economies is stressing the global supply of oil leading to shortages.
- **Environmentalists** — Liberals and tree-huggers in the United States have tied the hands of oil companies by blocking exploration and development of the vast untouched reserves of oil under wilderness areas in Alaska and off the east coast of the U.S.
- **The Dollar** — The weak dollar makes imported crude more expensive and drives up commodity prices, including oil, as investors seek a hedge against the falling greenback.



The price of light sweet crude in U.S. dollars from 1990 to 2008.

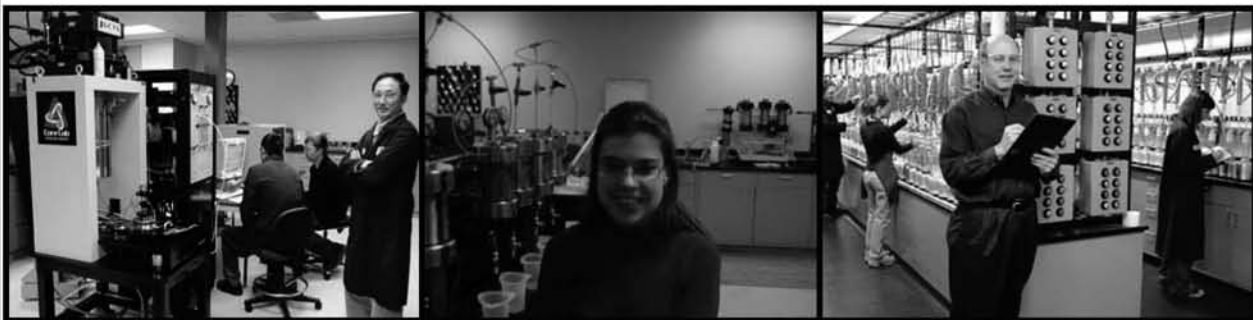
Source: Bespoke Investment Group (<http://bespokeinvest.typepad.com>)

• **Nigerian Rebels** — Violent rebel groups have destroyed pipelines and related infrastructure hampering oil production in this OPEC nation. Over the past two years, these attacks have lowered Nigeria's typical daily oil output by a quarter.

• **Iran** — The escalating political and military tensions between the West and Iran, the fourth largest oil producer, is destabilizing the energy market. A potential conflict with Iran could lead to the closing of the critical supply route through the strategic Strait of Hormuz.

From the Editor continued on page 11

Our focus is Client Satisfaction!



And our ISO 9001:2000 Quality Management System Proves It!

As the recognized leader in core analysis and formation characterization, Core Lab's Houston Advanced Technology Center is pleased to announce that our Quality Management System has been *ISO 9001:2000* certified. Our laboratory provides state of the art measurements with unmatched quality control and equipment calibration standards.

At Core Lab every job concludes with a customer feedback survey. We are constantly working to enhance customer satisfaction and continue to improve our performance.



Core LabTM

RESERVOIR OPTIMIZATION

Quality Management System

— ISO 9000:2001 —
Certified

**No one has more customer focused core
and reservoir fluid based solutions for
optimizing your reservoir.**

**Tell us how we performed on your most recent
project by contacting Core Lab at (713) 328-
2121 or psinfo@corelab.com**

© 2005 Core Laboratories. All rights reserved.

- **Peak Oil** — The view that world oil production will soon peak, and a long, slow, irreversible production decline will follow. This is the *bête noir* of the oil industry.
- **Barak Obama** — A recent John McCain campaign ad indicates that the junior senator from Illinois is the cause for high gasoline prices.
- **Space Aliens** — Okay, I have not read that space aliens are causing the increase in price of oil, but this cause has as much credibility as some of the others.

Which of these is the real cause for the increase in the price of oil? Take your pick, mix and match if you would like. The reality is that some combination of these factors is affecting the price. There is no consensus on where the price of oil is heading from here.

The investment bank CIBC World Markets issued a report in June that predicted \$7 per gallon gasoline in the U.S. and \$200 per barrel oil by 2010. The International Energy Agency, the Paris-based advisor to the governments of industrialized countries, predicted in a June 2008 report that the world demand for oil should continue to climb, despite the doubling of oil prices and weakening economic growth. The report forecasts that a small decline in oil demand in the industrialized countries will be more than offset by an estimated increase in demand in developing countries. By 2013, oil demand in developing countries will account for nearly 49 percent of total global demand, the report said, compared with 36 percent as recently as 1996.

Yet, despite these dire forecasts, \$100 per barrel by 2010 seems as likely as \$200. There does not seem to be any shortage of gasoline. There are no lines at the pumps in the U.S. as there were during the price shocks and embargos of the 1970s when lines of cars snaked around the block and gasoline was rationed based on an odd-and-even license plate system. There is no shortage of \$145 per barrel oil, but there is not much \$45 per barrel oil.

Americans have enjoyed moderate fuel prices for decades compared to most industrialized nations. Since World War II, these moderate prices have supported an unprecedented expansion in affluence and mobility. This affordable mobility led to a huge expansion of the highway system and the sprawl of American cities. The number of vehicle miles driven per day increased from less than one billion in 1945 to more than eight billion in 2005. However, in April 2008, U.S. Department of Transportation Secretary Mary Peters announced the sixth consecutive monthly decline in the number of miles driven in the

U.S. The Federal Highway Administration reported that vehicle miles traveled on roads throughout the country dropped by 2.3 percent in the first quarter of this year and that Americans drove 9.6 billion fewer miles in May 2008 than in May 2007.

When I worked for Texaco International Exploration in Bellaire the 1980s, we hosted a group of four geoscientists from China and their non-technical interpreter. This was their first visit to the U.S. and their first time out of China. I provided part-time chaperone duties to help them adjust to Houston. One day, while taking the group out for lunch, the interpreter asked, "Michael, why do all the cars have only one person in them?" One person per car must have looked very peculiar to these visitors. In the 1980s, China had virtually no private vehicles and most people used bicycles as their primary transportation. I did not have a ready answer to his question, but after some hesitation, I said, "Because we like it that way and we can afford it."

There is a great freedom to ownership of a private vehicle allowing individuals to go when and where they please. With a growing affluence, now the Chinese can afford their own cars and they want them. Private car ownership in that country, the world's fastest growing auto market, has risen from less than one million to more than 10 million between 1992 and 2008, according to China's National Bureau of Statistics. The growth of the number of private vehicles in developing countries is sure to continue.

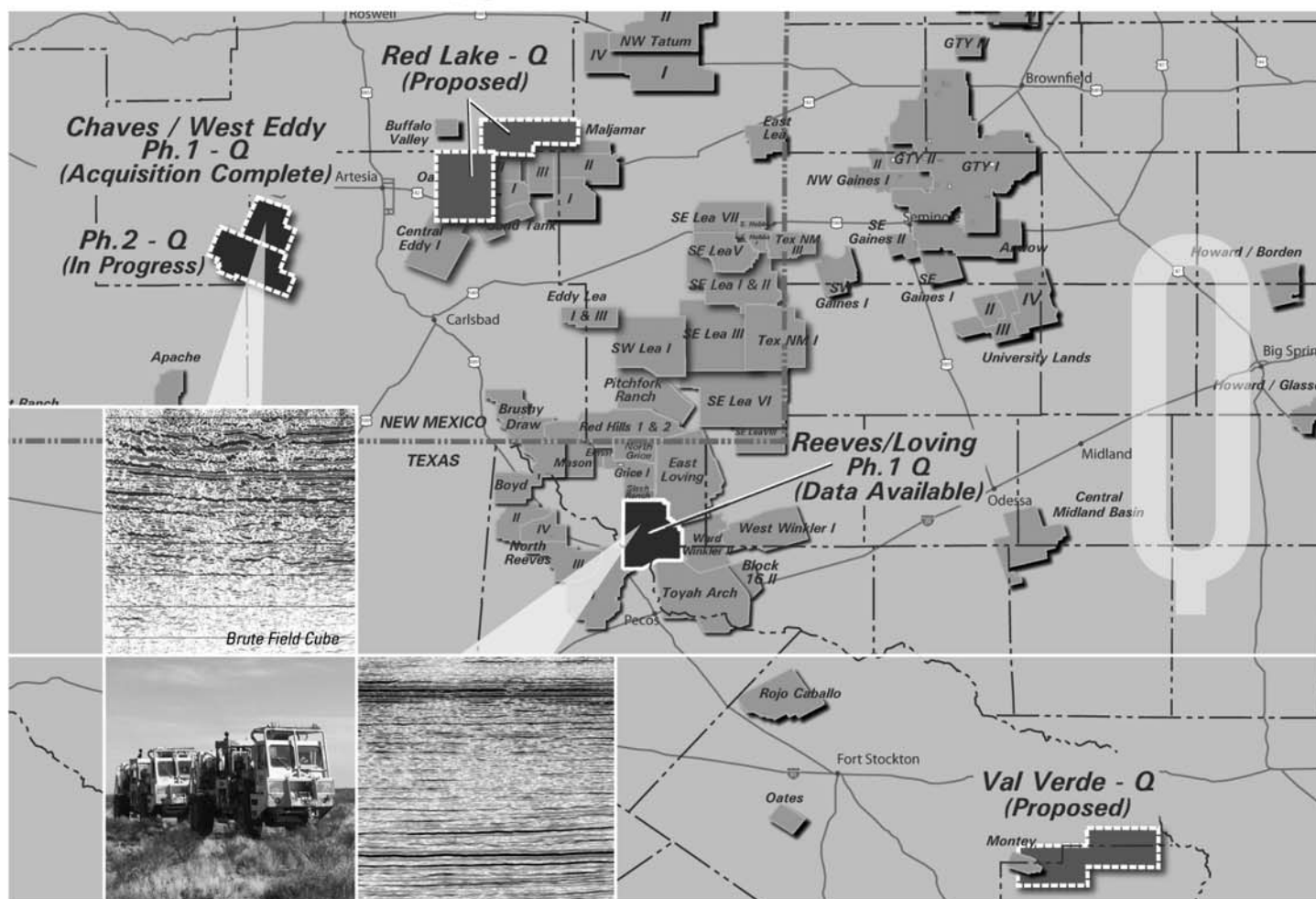
Is the growth in the energy supply needed for these additional millions of vehicles and growing economies sustainable? Or, is it perhaps time for a new paradigm? Oil billionaire T. Boone Pickens thinks that it is. In July, Mr. Pickens proposed a two-part alternate energy plan to the U.S. Senate Homeland and Security and Government Affairs Committee. The first part involves the production of 22 percent of the U.S. electrical energy needs from a \$1.2 trillion investment in wind power. The second part calls for a federal mandate to shift Americans away from gasoline-fueled cars and trucks to vehicles fueled by natural gas.

What's next for the price of energy? There is no shortage of opinions. The only certainty is that the price will remain volatile. Will gasoline rise to \$7 per gallon within a year? Probably not. However, \$1 per gallon gasoline is not coming back. ■

CORRECTION

In the "50 Years Ago" column on Page 7 of the June 2008 *Bulletin*, the name M. King Hubbard was spelled incorrectly. The correct spelling is M. King Hubbert.

Expand your opportunities ...



Experience game-changing advances in land acquisition

The unique abilities of our Q-Land* seismic acquisition system are helping image challenging geologic targets such as the Permo-Pennsylvanian and even deeper horizons in our *new* multiclient data acquisition in Chaves and western Eddy counties, New Mexico.

Q-Land benefits include:

- Superior signal-to-noise ratio and groundroll suppression
- Broadband sources and receivers
- Digital Group Forming of single sensor data
- Enhanced signal preservation
- Quantitative inversion and reservoir solutions products

Reducing E&P risk in North America today.

To learn more about our available Q-Land multiclient products and other new North American land seismic acquisition projects, call +1 713 689 1000.

Q-Land

www.slb.com/westerngeco



*Mark of Schlumberger © 2008 Schlumberger



Africa: "Opportunity from Coast to Coast"

PES  **GB**

The 7th HGS/PESGB International Conference on African E & P
Marriott Westchase Houston Hotel, Grand Pavilion Room
September 8th -9th -10th, 2008

REGISTER online at www.hgs.org or at the Door

SCHEDULE:

- **Monday Sept. 8, 4-8 PM -Registration and OPENING RECEPTION**
In Exhibits Area, Grand Pavilion Foyer (complimentary refreshments)
- **Tuesday Sept 9, -Registration 7:30-5**
8AM Continental Breakfast
Talks 9AM -5 PM (North, South and East Africa) -Grand Pavilion
Reception 5-8 PM Grand Pavilion Foyer (complimentary refreshments)
- **Wednesday Sept 8, -Registration 7:30-1**
8AM Continental Breakfast
Talks 9AM -5 PM (West Africa and South Atlantic)

Don't miss the opening reception! Monday Evening

Generous support of the sponsors provides lunch on both days, and complementary refreshments at two receptions in the Exhibits area.

Proceedings will be distributed on CD.

The conference series, organized by members of the International Group of Houston Geological Society (HGS) and Petroleum Exploration Society of Great Britain (PESGB) covers all aspects of African E&P, with particular emphasis on new ideas for plays and prospects, the geology of the continent and its conjugate margins, and application of emerging technologies.



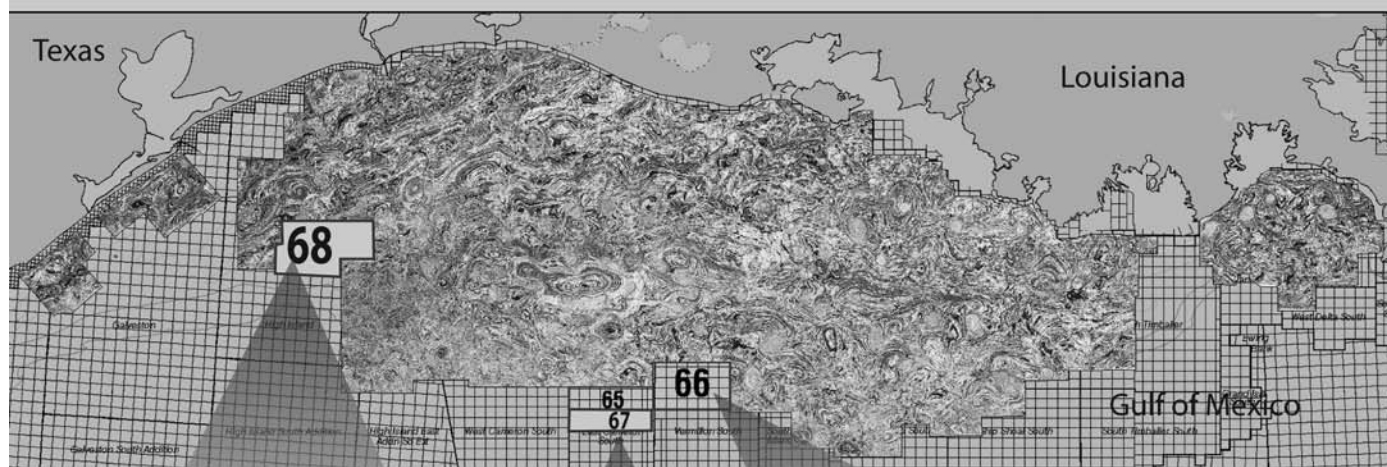
Opportunity from Coast to Coast

Latest details available at www.HGS.org in the Event Calendar for 8-10 September

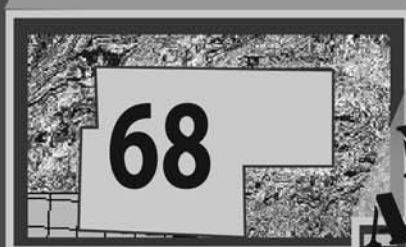
Hotel Discounts are available from link at HGS website.

Conveners include Al Danforth, Ian Poyntz, Martin Cassidy, John Dombrowski, Dave Schwartz, Tarek Ghazi, John Tubb, Ray Bate and Duncan Macgregor.

By the time you read this ad, this map will be out of date.



Because our crews are acquiring data every day, all day
to expand Fairfield's 3D data base.



**High Island (68) &
E. Cameron S. (67)**
30,000' offsets,
11 second records
processed in mid 2008



**E. Cameron South (65) &
Vermilion South (66)**
30,000' offsets, 11 second records
processed in January 2008

Visit www.fairfield.com to view Fairfield's multi-client coverage of 3D GOM data.



FAIRFIELD
INDUSTRIES

Houston 281/275-7500
New Orleans 504/525-6400

Proud to be
an American
company



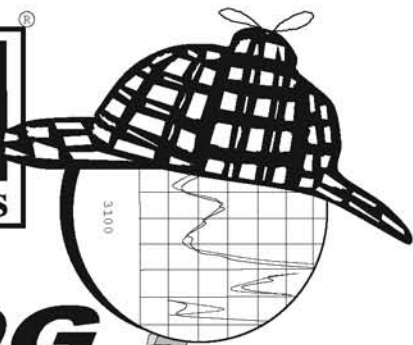
Africa: "Opportunity from Coast to Coast"

PES  **GB**

The 7th HGS/PESGB International Conference on African E & P Preliminary Program (August 1 2008)

Monday Sept 8	4-8 PM -Opening Reception and early check in
Tuesday Sept9	9-5 -Talks, 5-8 Reception
Wednesday Sept 10	9-5 -Talks

TALKS:	Authors
Session 1: Regional and Overview (Tuesday)	
The Blank Space on the Map	R. Fryklund - IHS
The Pre-Rift fit of Africa and South America: Guinea Plateau to Falkland Islands.	C. Scotese, Paleomap Project, Arlington Texas & A. Danforth, Consultant
Session 2: NORTH AFRICA (Tuesday)	
Reconstructing the Ghadames-Illizi Petroleum System of North Africa	Michael Bourne, et.al BP, London,
Play Types and Hydrocarbon Potential of the Obaiyed Offshore Block, Egypt	Bernhard Novotny and Gabor Tari, OMV
Fluvio-lacustrine sedimentation in an intracratonic rift system, Upper Sarir Sandstone Fm, East Sirt Basin, Libya	Zbynek Veselovsky, Thomas Weihe, Szczepan J. Porebski, Bernd Frommherz, Stefano Dellepiane, Eriksfiord AS, Norway, Polish Academy of Sciences and Wintershall
Session 3: East and South Africa (Tuesday)	
The Late Jurassic – Recent Evolution of the Southern African Landscape	Markwick, P. J. and M.C. Raddadi, GETECH
Offshore Tanzania: An exciting new DW play in East Africa	Richard Higgins* and Andy Oldham, Ophir Energy
Crustal Structure and Petroleum Systems- East Africa and Madagascar	Al Danforth et.al, GX Technology
Understanding the Spatial and Temporal Evolution of the Upper Slope and Shelf Edge: the Key to Deepwater Sand-Shale Distribution.	Richard Wild, Chevron Energy Technology Company
Deep-Water Coarse- and Fine-Grained Sediments and What Seismic Analyses May Overlook	Bouma, Arnold H., Texas A&M University
The East African Rift System – a GIS exploration approach.	Pather A, Hutchinson IP and Lawrence SR, RPS Energy
Session 4: WEST AFRICA I Gulf of Guinea (Wednesday)	
Seismic Definition of the Volta Fan Hydrocarbon System, Eastern Ghana	Ken Nibbelink, Devon Energy and John Robbins, Afren PLC
Is Orca the next Jubilee?"	Christopher H. Bradley, Michael Neese & Robert Schaefer, Vanco Energy Company
3D Technologies employed in Integrated Exploration of the Tano/Ivorian Basin.	Robert Schaefer, Christopher H. Bradley, & Michael Neese, Vanco Energy Company
New Insights Into Petroleum Systems Of Equatorial Guinea	Andrew MORT, Chris CORNFORD, Steve LAWRENCE, Abhen PATHER, RPS Energy
Characteristics of Great Fan Plains of Offshore Nigeria, Gulf of Mexico and Comparison to East Africa from Long Offset, PSDM Data	Barbara J. Radovich, ION/GX Technology and Dynamic Global Advisors
Seismic Sequence Stratigraphic Analysis, Interpretation and Correlation of Wells in Africa.	Walter W. Wornardt, MICRO-STRAT INC
Session 5: WEST AFRICA II South Atlantic and Salt Basin	
New Ideas on Syn-Rift Plays in the South Atlantic	Ian Davison
Building the basin from the bottom-up: The role of antecedent structures in pre-rift reservoir deposition, rift faulting and subsequent reservoir alteration from fault borne fluids, diagenesis, and multiple episodes of hydrocarbon charge in the Camamu Basin, Brazil	Steve Geetan and Boyd Handley, El Paso Corporation
South Atlantic margin rift basin asymmetry and implications for pre-salt exploration	Joe Versfelt, El Paso Corporation
Onshore-offshore Correlation of Reservoir Sands: A Paleodrainage Assessment Model for Angola	Lauren P. Birgenheier, Greg D. Nash, Marylin P. Segall, Energy & Geoscience Institute
Seismic stratigraphy and seismic geomorphology of a slope depositional environment – case study from offshore Angola, West Africa	H. W. Posamentier, N. Drinkwater*, J. Clark, A. Fildani, T. McHargue, M. Pycz, B. Romans, M. Sullivan Chevron
Cuvette Centrale the Last Frontier for Giant Oil & Gas Fields	Marcio R. Mello, et al., HRT Petroleum
3D beam prestack depth migration with examples from West Africa	John W.C. Sherwood, Kevin Sherwood, Hans Tieman, Karl Schleicher*, Applied Geophysical Services (a PGS company)



LOG Sleuth 2000

**AND RASTER IMAGE
WELL LOGS**

**OVER
5 MILLION
LOGS
AVAILABLE**

**1-800-310-6451
SALES@MJLOGS.COM
CALGARY • DENVER**

U.S.A. LOGS FOR:

**ALABAMA
ALASKA
ARKANSAS
ARIZONA
CALIFORNIA
COLORADO
FLORIDA
IDAHO
ILLINOIS
INDIANA
KANSAS
LOUISIANA
MICHIGAN
MISSOURI
MISSISSIPPI
MONTANA
NEBRASKA
NEVADA
NEW MEXICO
NORTH DAKOTA
OKLAHOMA
OREGON
SOUTH DAKOTA
TEXAS
UTAH
WASHINGTON
WEST VIRGINIA
WYOMING**

CANADIAN LOGS FOR:

**ALBERTA
BRITISH COLUMBIA
SASKATCHEWAN
MANITOBA
FEDERAL AREAS**



Africa: "Opportunity from Coast to Coast"

PES  **GB**

The 7th HGS/PESGB International Conference on African E & P Preliminary Program (August 1 2008)

POSTERS:	Authors
A unique opportunity to better understand the Petroleum Systems of the Sirt Basin, Libya.	Thomson, J.E., Keegan, C.R. and Boutoutaou, D., Fugro Robertson
New technology to enhance the Stratigraphic definition of the Nubian section of the Sirte Basin, Libya	Metters, S.J., Wellsbury, P., Jarvis, E.P., Smith, G.T. and Spence G., Fugro Robertson.
Use of borehole imaging in reservoir modeling: an example from Late Miocene fan delta successions in the Nile delta (Egypt)	N. Capuzzo, B. Callaghan, Task Geoscience Ltd and J. Peck and M. McGonigal, Melrose Resources Plc
The potential of the Central African rift basins	Mohamed Zine IHS Energy-Petroconsultants
Coasting into the Past: Atlantic Plate Reconstructions Tested with G4 Data	William Dickson, Craig Schiefelbein and Mark Odegard
Petroleum system characterization in a Brazilian basin: the importance of seismic and well constraints on basin modeling results	Amanda Wilson and Tim Wright, El Paso Corporation
The Determination of Basement Configuration for Geologic Understanding of Gabon's Tectonic Framework	David M. Schwartz, Jeffrey Rowe, Serguei Goussev, and Afif Saad, Fugro
Application of Supercritical Fluid Extraction Technique to Geochemical Evaluation of Niger Delta Sedimentary Organic Rocks	Akinsehinwa Akinlua* and Nelson Torto; *University of the Western Cape and University of Botswana
Interpretation & Distribution of Geological Information in the Geospatial Environment	James S. Cokinos, Vsevolod I. Egorov, J. Robert Vivian, John W. Haney and Gordon W. Shields Fugro Robertson Inc.,
Rational Methods to Focussing Resources in New Venture Exploration in Africa	Matthew Taylor and Pedro Baptista, RIG Ltd
Dual-Sensor Streamer - Deeper towing for less weather downtime and better imaging on 2D and 3D Marine Seismic surveys offshore Africa	Per Eivind Dhelie, Edward von Abendorff, Eivind Fromyr, Andrew Long, Petroleum Geo-Services
Seismic Response Modeling of a Tight Gas Reservoir in the Bredasdorp Basin	Wesley Scott and Fred Hilterman University of Houston and PetroSA
Reservoir Characterization of the Niger Delta Gas Sands	Vincent Mashaba and John Castagna, PetroSA and University of Houston
Tuning Effect on AVO Intercept and Gradient and their Cross-Plots Using Pre-Stack Wedge Models	Sbonelo NgCongo, John Castagna, George Smith, and Andrew Dippenaar University of Houston, PetroSA, and University of Cape Town
Professional Programs in the Department of Earth and Atmospheric Sciences at the University of Houston	Don Van Nieuwenhuise, University of Houston
Holes in the Surface of the Sea; Major Sub-aerial Basins Below Sea Level	Dr. Martin M. Cassidy University of Houston

SPONSORS:

<u>Fugro Robertson</u>	<u>GOLD</u>	<u>ExxonMobil</u>
	<u>Vanco Energy Company</u>	
<u>Fugro - NPA</u>	<u>SILVER</u>	<u>ION / GX Technology</u>
	<u>Lynx Information Systems, Inc.</u>	
<u>SeaBird</u>	<u>GETECH</u>	<u>CGGVeritas</u>
<u>Core Lab UK</u>	<u>Deloitte</u>	<u>Earthmoves Ltd</u>
<u>PGS</u>	<u>Infoterra, Ltd.</u>	<u>MicroStrat</u>
<u>EGI Energy Institute of Utah</u>	<u>Richmond International Geoscience</u>	<u>RPS Energy</u>

For details of sponsorship please contact John Dombrowski at jdombrowski@peacrivergrouppllc.com

A Company that Shines

-  Geophysical Products
-  Geological Products
-  Imaging Services



TGS has been providing best-in-class multi-client data and services to successful E&P companies for over a quarter century. Our geophysical and geological data products are distributed around the globe and include one of the youngest and best targeted multi-client seismic libraries, extensive magnetic and gravity data, the industry's largest global database of digital well logs, and regional interpretive products. We also provide high-end depth imaging services to help resolve complex seismic imaging problems. Together, our products and services give you a more complete picture of the subsurface to help your exploration program *shine*.

For more information, visit www.tgsnopec.com today.



Geological
Products



Geophysical
Products



Imaging
Services

www.tgsnopec.com

NORWAY +47 66 76 99 00 | USA +1 713 860 2100 | UK +44 (0) 1234 272122 | AUSTRALIA +61 8 9480 0000 | RUSSIA +7 495 959 8117
©TGS-NOPEC Geophysical Company. All Rights Reserved.

Monday, September 8, 2008

Westchase Hilton • 9999 Westheimer

Social Hour 5:30–6:30 p.m.

Dinner 6:30–7:30 p.m.

Cost: \$28 Preregistered members; \$35 non-members & walk-ups

To guarantee a seat, you must pre-register on the HGS website and pre-pay with a credit card.

Pre-registration without payment will not be accepted.

You may still walk up and pay at the door, if extra seats are available.

HGS General Dinner Meeting

Dr. N. G. Saleri

Quantum Reservoir Impact, LLC

HGS General Dinner Meeting

Brave New World of Oil

The topic of future oil supplies is both highly controversial and emotionally charged given the global anxiety spurred by high prices. The prevailing viewpoint among many energy analysts points to an extended period of uncertainty and stagnation in oil supplies.

The theme of this presentation suggests an alternative scenario—a period of growth in oil supplies despite the massive challenges posed by restricted access to potentially productive areas due to increasing resource nationalism, global warming concerns, and shortages of human resources. This new era will require a change of paradigms across the industry as they pertain to organizational structures, national oil company engagement models, and bolder standards of performance in recovery and sustainability.

The majority of foreseeable challenges for the oil and gas industry are amply outweighed by a boom on several fronts—the infusion of venture capital, burgeoning innovation and new thinking, and the rapid spread of new technologies for the subsurface extraction process. These new technologies are exemplified by a new generation of wells and smart systems—key ingredients to the reinvigoration of many Saudi oil fields including the giant Ghawar, Abqaiq, and Shaybah fields, and others. ■

Biographical Sketch

DR. NANSEN G. SALERI is Chief Executive Officer and President of Quantum Reservoir Impact, LLC based in Houston. He joined Saudi Aramco in 1992 and was the head of Reservoir Management from 1998–2007. He oversaw the company's Maximum Sustained Capability (MSC) commitments at 10.8 million barrels per day and strategic planning for its oil and gas

assets. Previously, Dr. Saleri worked for Chevron (1974–1992) and served as Manager of Reservoir Engineering, Houston, Texas. His opinion editorial “The World Has Plenty of Oil” was published in *The Wall Street Journal* in March 2008.



Dr. Saleri holds MSc and PhD degrees from the University of Virginia and a BSc from the Bosphorus University in chemical engineering. He received the 2006 John Franklin Carll Award, given annually by the Society of Petroleum Engineers (SPE), for his outstanding contributions to modern reservoir management. He is a member of the Advisory Board of Petroleum Engineering at the University of Houston and has been an SPE Distinguished Member and Lecturer, Co-Chairman of the SPE European Forum, Keynote Speaker at the Fifth, Sixth and Eighth International Forums on Reservoir Simulation (1994, 2001 and 2005), a member of the SPE Speakers Bureau (1994–1997), and Member of SPE Fluid Mechanics Committee (1996 to 1998).

He has authored numerous technical papers and has been a featured speaker at nearly 100 industry and ‘think-tank’ gatherings, including the Center for Strategic and International Studies at Washington, DC, MIT, Johns Hopkins School of Strategic and Advanced International Studies, Stanford University; Texas A&M University, Cambridge Energy Research Associates (CERA), King Fahd University of Petroleum and Minerals, the U.S. Department of Energy, and the American Petroleum Institute.

*The prevailing viewpoint
among many energy
analysts points to an
extended period of
uncertainty and stagnation
in oil supplies.*

Take a closer look... Call us!



FAIRFIELD
INDUSTRIES

www.fairfield.com (800) 231-9809 data.processing@fairfield.com

Tuesday, September 16, 2008

Crowne Plaza Hotel - Greenspoint (former Sofitel)
425 North Sam Houston Pkwy E

Social 11:15 AM, Luncheon 11:30 AM

**Cost: \$31 pre-registered members; \$35 for non-members & walk-ups;
Emeritus/Life/Honorary: \$14; Students: FREE**

The HGS prefers that you make your reservations on-line through the HGS website (www.hgs.org).

If you have no internet access, you may call the HGS office at 713-463-9476.

Please provide your name, phone number, membership ID number, and the name and date of the meeting you wish to attend.

HGS Northsiders Luncheon Meeting

Jeffrey E. Nunneley
Marathon Oil Company

HGS Northsiders Luncheon Meeting

Gas in Place Identification from Mudlog Gas Barnett Shale — Fort Worth Basin

Total gas in place (GIP) within a shale is commonly identified by directly measuring the volume of gas given off from sections of full core sealed in canisters at the well site. GIP is usually measured in standard cubic feet per ton (SCF/ton) and includes free gas in pore spaces, adsorbed gas, and gas dissolved in liquids in the pores.

Gas which is liberated from a rock during the drilling process is frequently measured on a mudlog. The low permeability of a gas-bearing shale allows for little migration of formation fluids into the well bore during drilling. Under these conditions, the gas measured on a mudlog directly relates to the total gas present in the volume of rock ground up and removed from the well bore during drilling. Measurements of mudlog gas can be normalized for penetration rate and mud flow rate and volume to yield total gas from the mud system in parts per million. The volume and density of the rock ground up while drilling can be calculated from wireline logging measurements collected after drilling is completed. That combination of borehole volume and rock density allows for the calculation of the ground up rock mass responsible for the measured gas in the mud system and for conversion of the measured values into common units.

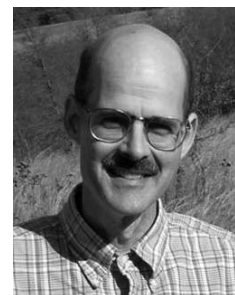
GIP values from a canistered section of a Barnett Shale core have been compared to the GIP values calculated from a normalized mudlog. The two values have a favorable relative relationship.

*GIP is usually measured in
standard cubic feet per ton
(SCF/ton) and includes free gas
in pore spaces, adsorbed gas,
and gas dissolved in liquids in
the pores.*

The mudlog calculated data are more variable in magnitude than that of the canistered core data. A calibration factor must be applied to the mudlog gas calculation to match the magnitude of the canistered core data. This calibration factor is mainly related to the sampling process of the mudlog detector which is inefficient and samples only a portion of the total gas present within the volume of the mud system. ■

Biographical Sketch

JEFFREY NUNNELEY is a geologist with Marathon Oil Company in Houston where he is responsible for generating exploration opportunities onshore in the southern region of the United States. He began his career in Dallas with Enserch Exploration and has also worked for El Paso Production Company. He has over 29 years of experience in trend evaluation and prospect generation across New Mexico, Oklahoma, Texas, Louisiana, Mississippi, Alabama, and offshore Gulf of Mexico. Mr. Nunneley has a BS in geology from Texas A&M University and an MBA from the University of Dallas. He is an AAPG Certified Petroleum Geologist and a licensed Professional Geoscientist in the State of Texas.



SIPEs Continuing Education Seminar

The SIPEs Continuing Education Seminar

will be held Thursday, September 25 at the Marathon Oil Conference Center
from 8:30 a.m. until 4:30 p.m.

Tentative topics include talks on the Deep Bossier and other Mesozoic East Texas plays, cases studies and resource plays. Details will be announced when available.

Geoscience Technology Training Center (GTTC)

WORKSTATION INTERPRETATION COURSES:

ArcView GIS Basics (CENGG 2101100)

					REG. #	TUITION
24 hrs	WTHF	9/24-9/26	8AM-5PM	77419	\$399	
or	WTHF	12/3-12/5	8AM-5PM	77427	\$399	

New Course! GeoGraphix ARIES

Check the GTTC website for course information

GeoGraphix GESXplorer (CENGG 2102100)

24 hrs	MW	9/8-9/24	6-10PM	77415	\$399
or	TTH	11/18-12/11	6-10PM	77426	\$399

GeoGraphix SeisVision (CENGG 2109102)

24 hrs	MW	10/6-10/22	6-10PM	77421	\$399
--------	----	------------	--------	-------	-------

Well Log Analysis: PRIZM (CENGG 2109116)

16 hrs	MW	11/17-12/3	6-10PM	77424	\$260
--------	----	------------	--------	-------	-------

SMT {2d/3dPAK} (CENGG 2109103)

24 hrs	TTH	9/9-9/25	6-10PM	77418	\$399
or	MW	10/27-11/12	6-10PM	77422	\$399

New Course! SMT (EarthPak)

Check the GTTC website for course information

Want to know more about great GTTC courses?

Go to: NorthHarris.LoneStar.edu/GTTC

or

Contact Craig Coleman by e-mail (craig.j.coleman@lonestar.edu)

phone: 281.260.3157 • fax: 281.618.5633

The GTTC is located at the Lone Star College-Greenspoint Center, 250 N. Sam Houston Parkway East, just east of the intersection of I-45 North and Beltway-8, next to Bennigan's.

Reservations Required: Make reservations by telephone (713-651-1639), fax (713-951-9659), website (www.sipes-houston.org), or e-mail bkspee@aol.com to B. K. Starbuck-Buongiorno by 12:00 noon on Tuesday preceding the meeting. You can now sign up for the meeting online at www.sipes-houston.org, but payment is still required by regular mail or at the door.

Cost: \$30 for SIPES Members and Chapter Affiliates who register by 12:00 Noon Tuesday; \$35 for new registrations at the door. The price for guests, non-members and walk-ins is \$35. *No-shows will be billed.*

John Morris and
Jeff Requarth
Savannah Oil & Gas, L.L.C.

Perseverance and Technology: Significant Recent Exploration Success North and South Winchester Fields Wayne County, Mississippi

Discovered in 2006, North and South Winchester fields in Wayne County, Mississippi are currently producing from 10 wells at a combined daily rate of over 4,000 barrels of oil and 11 million cubic feet of gas. These two Smackover “salt wall” fields are situated along the steeply dipping east flank of the north-south trending Winchester salt ridge. These “salt wall” traps place the upper Smackover reservoir against Louann Salt, which serves as an effective lateral seal. The vertical seal is provided by overlying Haynesville evaporites. The final components of the petroleum system include a world-class source rock in the lower member of the Smackover Formation and a reservoir compartment comprising extensively dolomitized grainstones of the upper Smackover.

Winchester field, which lies between and within one-half mile of both North and South Winchester fields, was discovered by the LL&E #1 Jordan well, completed in 1968. The authors drilled a successful offset to the Winchester Field in 1989, followed by four development and exploratory dry holes in the area. It was not until the completion of a 43 square mile 3-D seismic survey shot in 2005 that the authors were able to image the steep (20 to 60 degree) flanks of the Winchester salt ridge, accurately map the Smackover structure, and plot locations for the discovery wells. Although the North and South Winchester fields are small in area, each less than 300 acres, they are expected to produce over 11 million barrels of oil-equivalent hydrocarbons.

This talk will review the Jurassic “salt wall” play in the Mississippi Salt Basin and the geology, geophysics, and engineering of North and South Winchester fields. Finally, the authors will discuss the persistence of the “lone prospector” and how much smarter we all appear with the help of a properly acquired and processed 3-D seismic surveys. ■

Biographical Sketches

JOHN MORRIS earned a BS in geology from Long Island University. He began his career with Damson Oil Corporation in Houston. He later spent a number of years with Weeks Exploration Company and eventually Santos USA. In 1996, he formed Savannah Oil & Gas, L.L.C. with partners Jeff Requarth and Mike Moore.



Although the North and South Winchester fields are small in area...they are expected to produce over 11 million barrels of oil-equivalent hydrocarbons.

Savannah primarily concentrates on exploration and production in the southeastern states. John is a Registered Professional Geologist with the State of Mississippi and a member of HGS and AAPG.

JEFF REQUARTH earned his BS in geology from the College of Wooster and his MS from Bowling Green State University. He began his career with Amoco Production Company in Houston, Texas. Through the 1980s and early 1990s, he worked for and managed a number of small exploration companies. In 1996, Jeff, along with his partners John Morris and Mike

Moore, formed Savannah Oil and Gas, where he serves as President. Savannah has concentrated on exploration, development, and property acquisition in the southeastern states of Mississippi, Alabama, and Florida. Jeff is a member of AAPG, HGS, and OEI. He is a Certified Geologist through AIPG and Registered Professional Geologist in the State of Mississippi.





The Houston Geological Society Continuing Education Committee Presents

An Overview of Exploration Risk Analysis for Senior Management

This seminar synthesizes the key concepts and applications of risk analysis (RA) for the upper echelons of your organization, regardless of their disciplines, to illustrate exploration as a profitable long-term business.

The seminar identifies key management issues, common misconceptions and pitfalls (as well as their consequences), and the inherent power of systematic RA methodology to design and enhance the predictability of portfolios which optimize corporate goals. It highlights the critical management tasks necessary to cause progressive improvement in exploration performance and addresses concerns about the constraints on management decision-making imposed by systematic RA procedures.

Because the course integrates fundamental topics such as Uncertainty, Reserves Estimates, Chance of Success Predictions, Economic Measures, Portfolio Management, Profitability Forecasts, and Performance Tracking, we strongly encourage the participation of senior decision-makers with diverse backgrounds, such as Geoscience, Engineering, and Finance.

Course Outline

1. Risk Analysis: What and Why
2. Statistics: The Language of Uncertainty
3. Coping with Uncertainty and Its Consequences
4. Prospect Reserves: The Size of the Prize
5. Chance of Prospect Success
6. Economic Measures and Consequences
7. Managing Exploration by Managing the Portfolio
8. Choosing New Theaters: Play Analysis
9. Acquiring Petroleum Rights: Methods and Consequences
10. Performance Tracking: The Simple Secret Essential Management Role in RA Implementation

Rose & Associates

An Overview of Exploration Risk Analysis for Senior Management
(1 Day)

This seminar synthesizes the key concepts and applications of risk analysis (RA) for the upper echelons of your organization, regardless of their disciplines, to illustrate exploration as a profitable long-term business.

The seminar identifies key management issues, common misconceptions and pitfalls (as well as their consequences), and the inherent power of systematic RA methodology to design and enhance the predictability of portfolios which optimize corporate goals. It highlights the critical management tasks necessary to cause progressive improvement in exploration performance and addresses concerns about the constraints on management decision-making imposed by systematic RA procedures.

Because the course integrates fundamental topics such as Uncertainty, Reserves Estimates, Chance of Success Predictions, Economic Measures, Portfolio Management, Profitability Forecasts, and Performance Tracking, we strongly encourage the participation of senior decision-makers with diverse backgrounds, such as Geoscience, Engineering, and Finance.

Course Outline:

1. Risk Analysis: What and Why
2. Statistics: The Language of Uncertainty
3. Coping with Uncertainty and Its Consequences
4. Prospect Reserves: The Size of the Prize
5. Chance of Prospect Success
6. Economic Measures and Consequences
7. Managing Exploration by Managing the Portfolio
8. Choosing New Theaters: Play Analysis
9. Acquiring Petroleum Rights: Methods and Consequences
10. Performance Tracking: The Simple Secret Essential Management Role in RA Implementation

Rose & Associates, L.L.P.
4355 Yorkton Blvd, Suite 220 - Houston, TX 77060
T 713.528.8422 • F 713.528.8428
Email: info@curriculum@roseassoc.com
www.roseassoc.com

Transferring E&P Risk Assessment Expertise
Instruction • Software Tools • Practical Consultation

Course: An Overview of Exploration Risk Analysis for Senior Management

Instructor: Mr. Gary P. Citron, Rose & Associates, LLP. www.roseassoc.com

Date: Thursday October 30, 2008

Time: 09:00am – 04:00pm

Location: Houston Research Center, 11611 West Little York Road, Houston, Texas 77041

Please make your reservations on-line through the Houston Geological Society website at www.hgs.org

A Certificate of Continuing Education will be provided for this seminar.

For more information about this event, contact Ken Schwartz at kenschwartz@mail.com or 281-690-0995.

William Dickson

Dickson International Geosciences
Houston, TX, USA and

Craig Shiefelbein

Geochemical Solutions International
Shenandoah, TX, USA

Lacustrine Kitchens Keys to Exploration Success in the Pre-Salt Play, Santos Basin, and Potential along the Eastern Brazil Margin

In a poster exhibited at the 2005 AAPG convention in Calgary, the authors presented findings from the integration of geochemistry with detailed mapping to reveal trap potential on the unexplored south flank of Brazil's Santos basin (Figure 1). Pre-salt basins and individual paleo-lakes were imaged, migration pathways were defined, the

limits of different petroleum systems were mapped, and a pre-salt play was predicted.

*Geochemical links were shown
between these lacustrine
kitchens and the recent
discoveries in the Santos basin*

Following a subsequent series of significant discoveries in the Santos basin, it was time to test the predictions against the facts. Aided by more and better data (Figure 2), the earlier correlations were first re-examined within the basin and then, along the eastern

Brazil margin, where similar data supported analogous conclusions. The key findings were the widespread evidence for lacustrine-sourced oils, frequently partially masked by multiple phases of migration from the same source or from younger marine source intervals. Many structural compartments were mapped from potential field data then correlated to geochemical indicators from oil samples and piston cores. These compartments showed subtle geochemical variations among a small number of basic oil families with distinct spatial extents. Oil family trees, constructed by sorting oil indicators in multivariate space, demonstrated genealogical relationships and extents, while potential fields, piston cores, remote sensing, literature, and other material illustrated spatial extents. Geochemical links were shown between these lacustrine kitchens and the recent discoveries in the Santos basin (Figures 3 and 4). Similar potential exists in the related basins along the eastern Brazil margin. ■

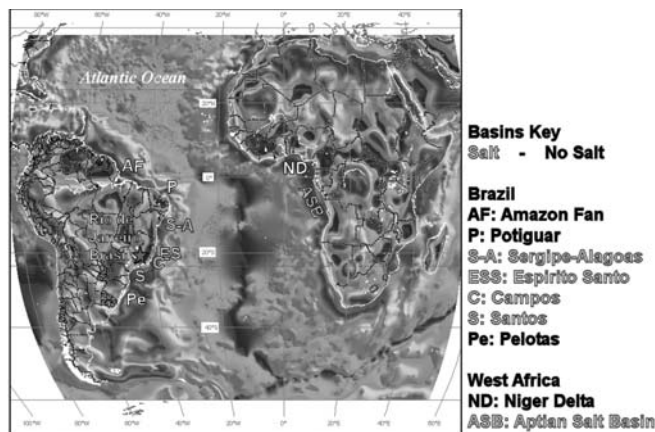
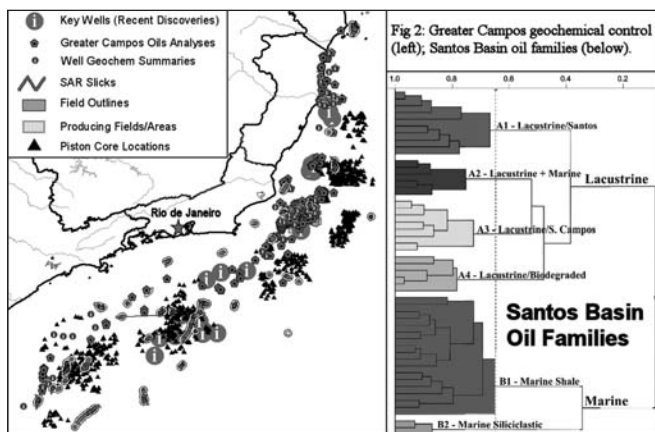


Figure 1: Basin locations and total sediment thickness (Red = thick; Blue = Thin) including South Atlantic conjugate margins. Santos Basin (S) is due south of Rio de Janeiro, Brazil.



Biographical Sketches

WILLIAM DICKSON is the founder and VP-Technology for DIGs (Dickson International Geosciences) in Houston, Texas. His company has worked principally in the production of super-regional basin studies of Southeast Asia and the Atlantic margins and related projects. Mr. Dickson has worked around the world for over 25 years on international and frontier exploration projects with



HGS International Explorationists continued on page 27

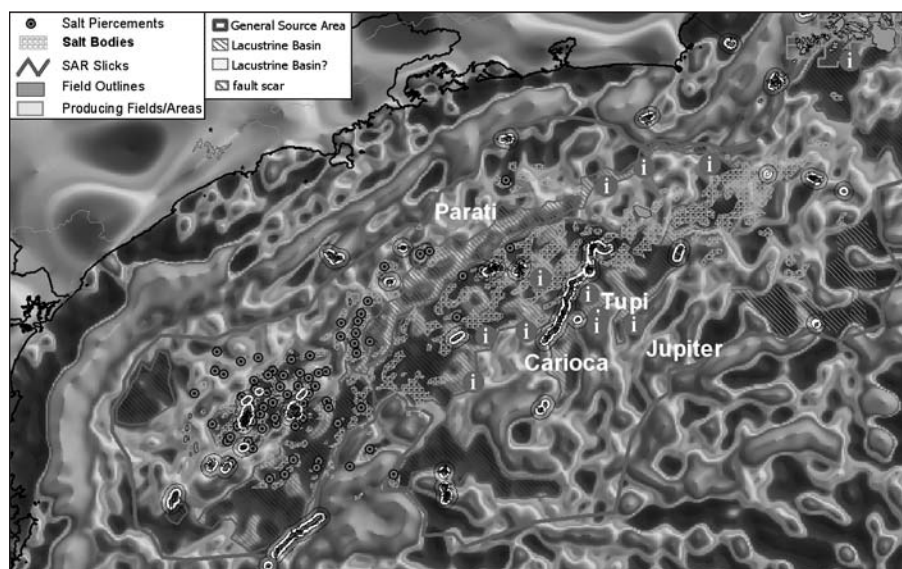


Figure 3: Map showing Santos Basin discoveries, geochemical control, and salt bodies on gravity first vertical derivative (1vd) image.

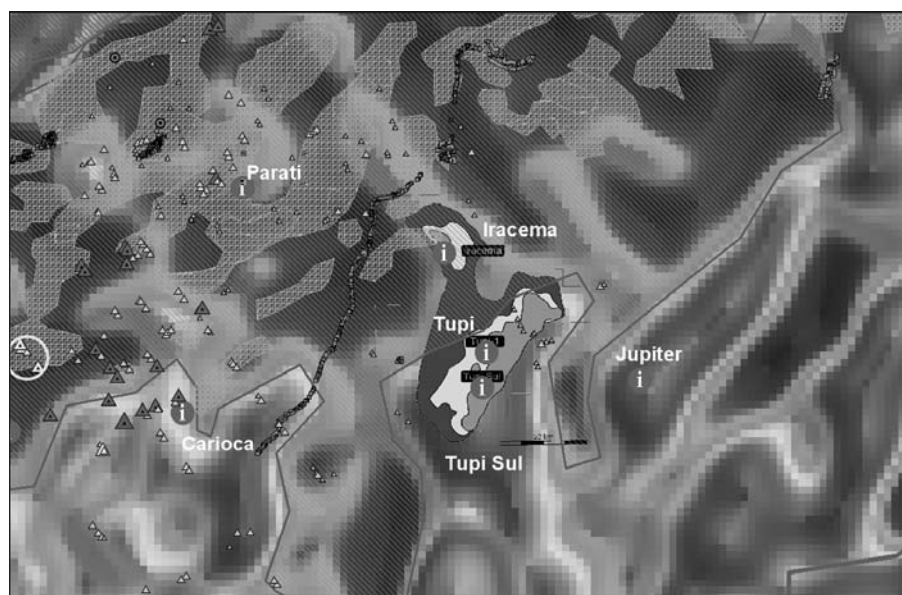


Figure 4: Closer view of Tupi area with overlay of published map of Tupi & Iracema discovery outlines on gravity 1vd image.

major and independent exploration companies and was significantly involved in commercial discoveries in Egypt and the North Sea. He is a member of AAPG, EAGE, PESGB, SEAPEX, SEG, SPE and local societies in Houston (HGS, GSH) and Calgary (CSEG). He has authored and/or contributed to numerous papers on aspects of South Atlantic and SE Asian geology. He continues to develop the use of multi-disciplinary E&P evaluations with contributions from a range of associated companies specializing in potential fields, geochemistry, remote

oil and gas industry for use in the exploration, production, refining, transportation and marketing of natural hydrocarbon resources. Since 2000, GSI and DIGs have been collaborating on projects that integrate GSI's extensive geochemical data with high quality geophysical database focused on petroleum systems definition of the south Atlantic margin.

sensing, and seismic interpretation. Visit www.digsgeo.com for a current list of studies, associates, and related publications.

CRAIG SCHIEFELBEIN has 30 years of experience in petroleum geochemistry, chemometrics, and data analysis. He is a graduate of the University of Tulsa (MSc, organic geochemistry and BSc, chemistry). His 15 years as a research scientist with Cities Service Oil Company and Conoco, Inc. involved the understanding of oil generation and destruction processes with pertinent results incorporated into maturity and basin modeling programs. During three years as a Senior Project Geochemist for Core Laboratories, he was responsible for the hydrous pyrolysis laboratory, interpretive technical service projects, and large-scale regional studies in West Africa and South America (Sub-Andean). Subsequently, Mr. Schiefelbein was Vice President and Chief Geochemist at GeoMark Research, Inc. where his responsibilities included supervising their analytical laboratory and performing interpretive technical service projects. He developed and managed several large-scale regional oil studies in Colombia, Peru, Bolivia, Alaska, and the basins of the circum-Pacific, south central Asia, and south Atlantic margins.

He is co-founder and president of Geochemical Solutions International (GSI), a geochemical service company established in 1998 to provide geochemical technological services to the





Enhanced Imagery Suite

High Resolution Imagery

Industry-leading photographic services
and digital imaging technologies.

Preserve your cores at higher resolution with TEN-EX™ technology. The images are taken immediately following slabbing and provide the best archive of the pristine surface of the core.

Your archived cores can be observed and
measurements recorded in the virtual layout
room of your computer.

**TEN-EX technology can provide
petrophysical information:**

- Macro Porosity
- Pore Size
- Fracture Density
- Grain Size
- Net Pay, Net/Gross
- Permeability, Kv/Kh

How important
are your cores?

Trust PTS to meet
your needs with
innovation and service.

PTS Laboratories • 713-316-1800 • www.ptslabs.com

ENGLAND WINS OLYMPIC FOOTBALL!

[They Must Have Used KINGDOM®!]



Actually, England will have to wait until 2012...but SMT won gold in the "2008 Geoscience Software Olympics"!

SMT is proud to announce - it's PC-based KINGDOM software was #1 for "*Likely To Recommend*". Not only was SMT top rated, with an 8.1 out of 10, no competitor even scored a 7.5.

The results are part of the Seismic Services report by Welling & Co, an international market research firm with 38 years in E&P. They conducted 198 interviews to rate vendors across 13 categories - *just call it the Software Triskadecathlon*.

SMT is first [or tied for first] in 9 of the 13 categories including functionality, ease of use, price, dependability, past experience, license terms, training, and reputation.

So whatever your interpretation needs, SMT KINGDOM can help you achieve your GOAAAAAAAAAAAAALLLLLLLLLLL!

Find out why SMT is the market leader for PC-based interpretation with over 2,500 companies in 85 countries. Visit our website at www.seismicmicro.com/smt-olympic7 and read more details from the 2008 Welling Report.



Intuitive. Integrated. Interpretation.

America +1 (713) 464-6188 Asia +65 6220 1089 Europe +44 (0) 20 8240 6524

Wednesday, September 24, 2008

Crowne Plaza Hotel - Greenspoint (former Sofitel)
425 North Sam Houston Pkwy E

Social 11:15 AM, Luncheon 11:30 AM

**Cost: \$30 pre-registered members; \$35 for non-members & walk-ups;
Emeritus/Life/Honorary: \$15; Students: FREE**

To guarantee a seat, you must pre-register on the HGS website (www.hgs.org)
and pre-pay with a credit card.

Pre-registration without payment will not be accepted.

You may still walk up and pay at the door, if extra seats are available.

HGS General Luncheon Meeting

Stephen Trammel
Senior Product Manager, IHS

HGS General Luncheon Meeting

Hot U.S. Plays: Mostly Shale

Unconventional oil and gas plays in the U.S. onshore and in the Gulf of Mexico, especially on the ultra deepwater, Lower Tertiary trend, continue to attract high leasing bids for acreage. With some notable exceptions for the oil plays in the deepwater Gulf of Mexico and the Bakken play in particular, the industry is focusing on gas exploration including unconventional shale gas reservoirs. Companies are evaluating the potential of these shale gas reservoirs across the country and throughout the stratigraphic column.

Higher natural gas prices have stimulated increased drilling activity, but gas production has only risen to an undulating plateau. A shift to lower volume unconventional gas plays demands that further drilling increases will be needed to sustain current production levels.

Challenges facing the industry include rising capital costs, uncertainties about the regulatory climate, questions whether the higher gas prices will hold, manpower/rig shortages, periodic transportation bottlenecks, energy security needs, and growing anti-hydrocarbon sentiments and policies in support of climate change targets. These trends could restrict future oil and gas developments and limit access to potentially large resources due to these environmental issues.

What are the implications of these trends on North America gas supplies? Unconventional gas resources will play an increasing role in the U.S. energy mix. Most areas with strong drilling activity are targeting unconventional gas. In these areas, about 75% of the current gas-related rig count is working these plays. Of the top 25 U.S. gas fields ranked by production, 20 are classified as unconventional.

*Unconventional gas resources
will play an increasing role in
the U.S. energy mix.*

A strong upside for gas production from unconventional reservoirs exists through the relentless pursuit of new technologies and process improvements. However, a collaborative process among all stakeholders is critical to manage local community concerns, balance climate change policies with gas supply needs, and reach a compromise on access restrictions to areas of high resource potential. If these challenges are overcome, we may reach a tipping point in the U.S. at which gas production from unconventional reservoirs and from new Gulf of Mexico hubs like Independence, can offset the decline in conventional gas production. This presentation will focus on industry activity committed to developing gas resources in the lower 48 states including both onshore plays and the Lower Tertiary trend in the ultra deepwater Gulf of Mexico.

Biographical Sketch

STEPHEN TRAMMEL is Senior Product Manager for IHS where he is responsible for current activity reports, unconventional resources, and other development for U.S.-based products. He is a regular speaker and writer on a variety of industry topics and was recently chosen to participate in the Expert Source Program for IHS which delivers strategic thought leadership to the oil and gas industry in the form of insight and analysis. Mr. Trammel studied English literature and art at the University of Colorado, and English and geology at Texas Tech University.



Higher Standards



Weatherford® LABORATORIES

At Weatherford Laboratories, we hold fast to Higher Standards. Our purpose is to continually push past conventional solutions to find new and better ways to optimize oil and gas production.

■ By integrating seven entrepreneurial companies, we bring unsurpassed innovation to the industry. Our accomplishments include 50 new technologies, 45 original products, 35 industry awards, and 13 registered patents. Among our ranks are several luminaries of the industry, as well as scores of respected scientists who have authored hundreds of technical papers. ■ With 38 laboratories around the globe, our team raises the bar for wellsite sampling, core management services, geochemical analyses and evaluation of unconventional reservoirs.

At Weatherford Laboratories, we expect more from ourselves so you can expect more from us.

Weatherfordlabs.com

7
DYNAMIC
COMPANIES

50
NEW
TECHNOLOGIES

38
WORLDWIDE
LABORATORIES

CORPORATE OFFICES

ACS Laboratories Pty Ltd
Brisbane, Australia

OMNI Laboratories
Houston, Texas USA

ResLab Reservoir Laboratories
Trondheim, Norway

Humble Geochemical Services
Houston, Texas USA

TICORA Geosciences
Denver, Colorado USA

Baseline Resolution, Inc.
Houston, Texas USA

Hycal Energy Research Laboratories
Calgary, Alberta, Canada

Geologic Website of the Month

www.usgs.gov

Michael Forlenza, PG

The Geologic Website of the Month is a new Bulletin feature. Over the next several issues, this feature will present a brief tour of selected websites of interest to geologists. Some of the selected websites will be straightforward sources of data, information, and mapping resources while others will be a pleasant or interesting diversion related to the earth or planetary sciences.

The initial installment of this series features the website for the granddaddy of all U.S. geologic organizations: the United States Geological Survey. The USGS was established on March 3, 1879, when President Rutherford B. Hayes signed the bill appropriating money for sundry civil expenses of the federal government for the fiscal year beginning July 1, 1879. At its inception, the USGS was charged with the “classification of the public lands, and examination of the geological structure, mineral resources, and products of the national domain.” This task was driven by the need to inventory the vast lands added to the United States by the Louisiana Purchase in 1803. The USGS is administered by the Department of the Interior.

The mission of the USGS has expanded over the years. Currently, the USGS states that its mission “is to serve the nation by providing reliable scientific information to describe and understand the Earth; minimize loss of life and property from natural disasters; manage water, biological, energy, and mineral resources; and enhance and protect our quality of life.”

For many veteran geologists, the first connection with the USGS was non-digital. The iconic 7.5-minute quadrangle maps on heavy stock paper were indispensable tools for most geology students. Even today, I keep a roll of USGS topographic sheets bundled in the corner of my office. I still relish the look and feel

of these crisp paper maps at 1:24,000 scale with the clean fonts and elegant cartography.

Cartography and the USGS have moved into the digital age. Through innovative ventures with the private sector, the USGS provides access to digital images and geospatial information in one of the largest data sets ever made available online.

The USGS homepage is well organized and graphically appealing with numerous clickable links to the vast resources found on the extensive website. In a large section at the center of the homepage are the current features of interest. Wind power, lead in the environment, and climate were featured in July. The right side features a map of the U.S. on which each state is clickable leading to a state-specific USGS webpage with dozens of links to local information, real-time data, and reports.

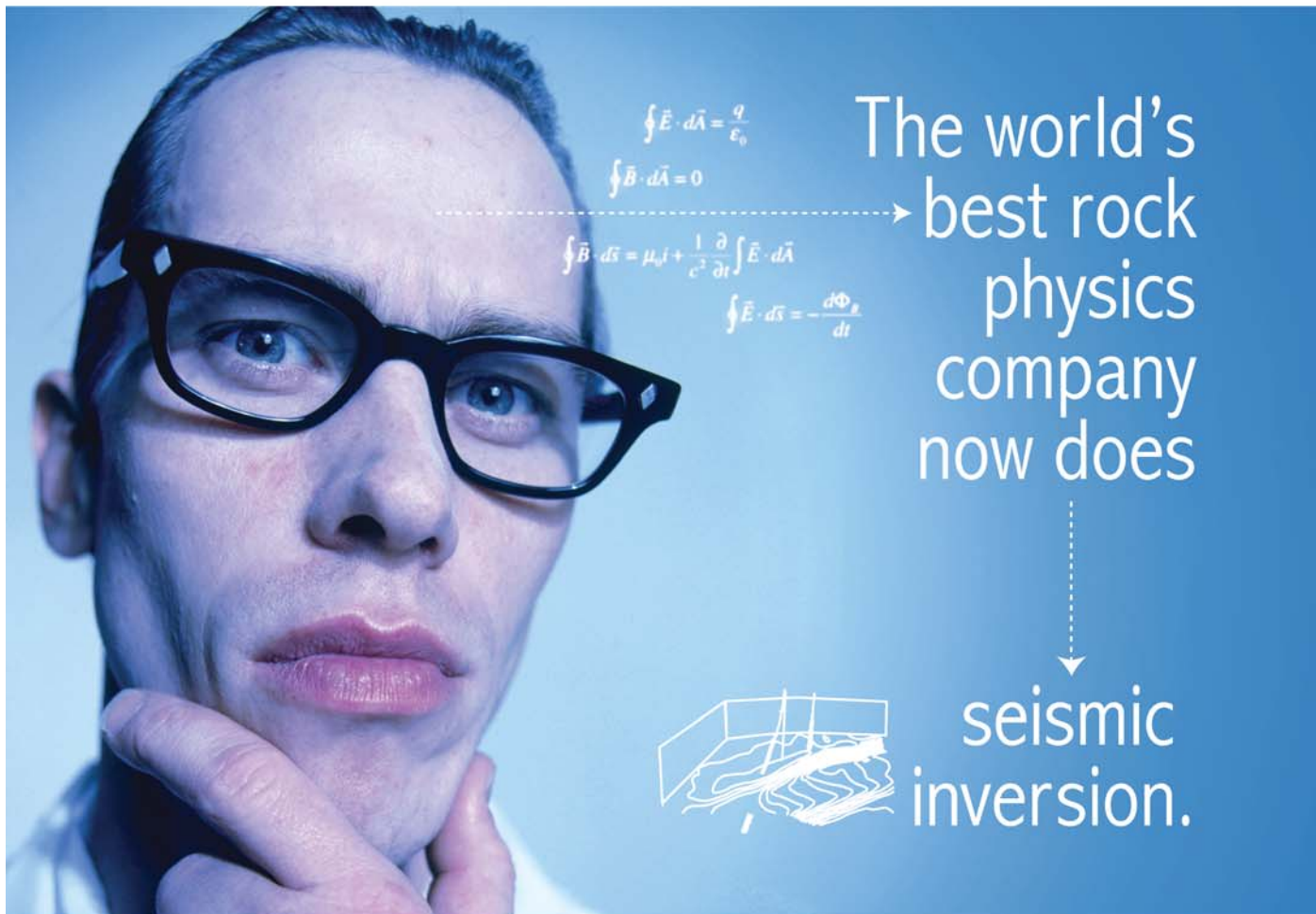
The left side of the homepage indicates the five primary “Science Areas” of the USGS: biology, geography, geology, geospatial, and water. The geology link brings up the Geology Research and Information page that provides access to original research, maps, news items, software, connections to other geological surveys, and an extensive library of geologic publications. Available publications include the classic USGS numbered series reports dating back to 1880.

The Education pull-down tab at the top of the homepage leads to a wealth of resources for students and teachers. These resources are broken down by grade levels: K through 6, 7 through 12, and college undergraduate.

The depth and breadth of the USGS website is staggering, and one can easily get lost while tracking down information on groundwater levels in the Ogallala aquifer, the 1868 Hayward fault earthquake, or an assessment of undiscovered oil and gas resources of West Greenland–East Canada. Fortunately, a click on the USGS logo header will return the homepage.




One of the best aspects of the USGS website is the absence of any advertisements or pop-up messages. This is a government website, so the presentation is not as slick as that of some of the glossy high-tech websites that scientists may typically use. Some of the website’s organization will seem cumbersome or arcane. Still, a visit to the USGS website is informative, entertaining, and well worth a half an hour or more. Be careful though—you may learn more than you bargained for. ■



$\oint \vec{E} \cdot d\vec{A} = \frac{q}{\epsilon_0}$
 $\oint \vec{B} \cdot d\vec{A} = 0$
 $\oint \vec{B} \cdot d\vec{s} = \mu_0 i + \frac{1}{c^2} \frac{\partial}{\partial t} \int \vec{E} \cdot d\vec{A}$
 $\oint \vec{E} \cdot d\vec{s} = -\frac{d\Phi_B}{dt}$

The world's
best rock
physics
company
now does

seismic
inversion.




We don't put a pretty face on poor data.

Successful seismic inversion predicts existing and future well properties. Inversion is not an algorithm; it's a series of carefully executed and interconnected steps. Our process involves several factors that improve the quality of the inversion output.

Quality of the well and seismic data. Our GWLA® and AVATAR® workflows optimize the quality of input data sets, generating the best possible well ties.

Adequate separation in the elastic domain. Even with the best data, there must be sufficient separation to differentiate between lithologies and identify important formations. Our rock physics expertise provides a thorough understanding of these relationships.

Calibration. Our well-based rock physics models let us calibrate impedance and facies models for specific rock and fluid properties.

www.rocksolidimages.com

A Celebration of our Volunteers — HGS President's Night 2008 Carmelo's Italian Restaurant on June 21



Claudia Ludwig (left) receives the Gerald A. Cooley Award from President Linda Sternbach.



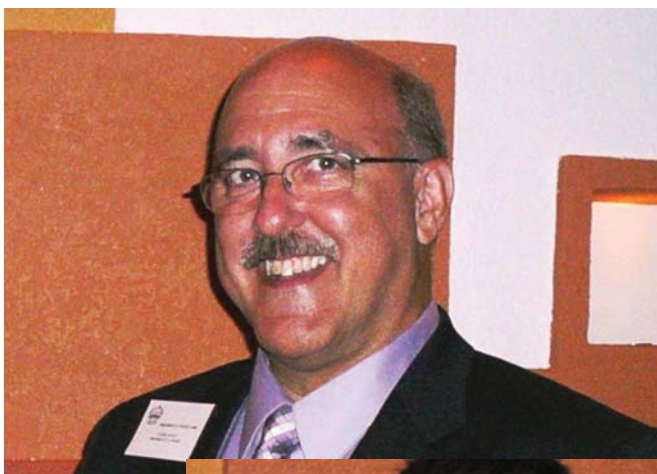
Bill Osten accepts the Honorary Life Membership Award.



Janet Combes (left) and Cheryl Desforges (right) recipients of Distinguished Service Awards with President Linda Sternbach.



Henry Wise (left) and Arlin Howles (center) receive the President's Award.



Tarek Ghazi accepts the President's Award.



William Howell accepts the President's Award.

Tim Gibbons recipient of the Rising Star Award.



PGS. Clearly Better.

Crystal continues...

Wide Azimuth Multi-Client 3D

- » 580 deepwater Gulf of Mexico blocks
- » Ramform technology and efficiency advantages
- » Proven portfolio of Wide Azimuth data processing technologies
 - » Full Azimuth Tomography
 - » 3DSRME
 - » Pre-stack Depth Migration
 - » Kirchhoff
 - » WEM
 - » Beam
 - » RTM

Oslo
Tel: 47-67-52-6400
Fax: 47-67-52-6464

London
Tel: 44-1932-260-001
Fax: 44-1932-266-465

Houston
Tel: 1-281-509-8000
Fax: 1-281-509-8500

Singapore
Tel: 65-6735-6411
Fax: 65-6735-6413

A Clearer Image
www.pgs.com





The 2007-2008 HGS Board of Directors



Mike Jones (left) and Tom Mather (right) receive the President's Award.



Left to right, Lee Shelton, Linda Sternbach, and Kent Horstmann (Knowledge Reservoir)



Passing of the ceremonial rock hammer to incoming HGS President Kara Bennett from outgoing HGS President Linda Sternbach.



Linda Sternbach and Tom Miskelly

When a Fault System Re-Awakens

Observations on China's Longmenshan Thrust Belt

Dr. Franz L. Kessler, ICGR - Institute for Creative Geology Research

On May 12, 2008, China's most powerful earthquake in 58 years occurred along the Longmenshan Thrust Belt in Sichuan Province. The 7.9-magnitude earthquake caused widespread destruction and killed more than 69,000 people. The Longmenshan Thrust Belt constitutes a series of Mesozoic

overthrusts that offset the Tibetan Plateau on the northwest from the Gansu Plain to the southeast (Figures 1 and 2). The possibility of a severe earthquake along this thrust belt had been anticipated in academic circles, but there was little evidence that it would happen so soon and with such devastating consequences.

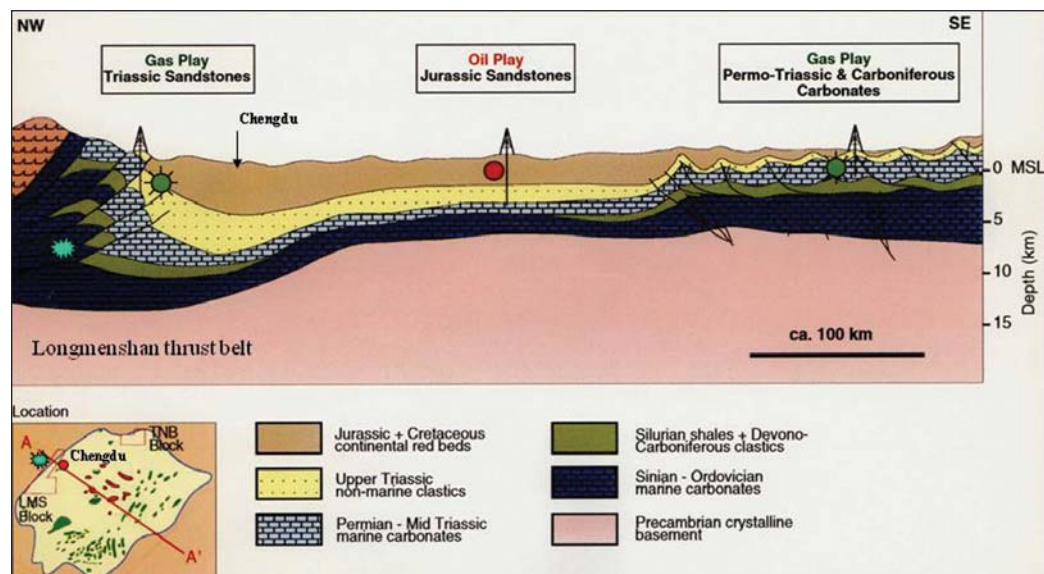


Figure 1: Geological cross-section through the Longmenshan Thrust Belt to the northwest, and stable Paleozoic and Mesozoic foreland. Although the thrust belt's origin is clearly Mesozoic, there remain questions about Tertiary and Quaternary tectonic activity. From the point of human settlement history, the thrust belt re-awoke to life in 2008. Courtesy of Tai-Ran Jiang Miri, Malaysia

Li Yong, a geological expert at the Chengdu University of Technology in Sichuan, quoted in an International Herald Tribune article of May 30th, 2008, stated:

"The line of the middle fault is as clear as a string. It suggests continuous and strong movement. Such a long and clear lineament should trigger a big quake. Other scientists have had similar ideas."

In July 2007, Li co-wrote a paper that raised the likelihood of a 7.0-magnitude earthquake in this same area, along the Longmenshan Thrust Belt.

He spoke again of the dangers associated with this fault zone at a conference in China only a month before the disaster struck.

Seismic activity in the area was sparse from 2004 to late 2007 (Figure 3), with no strong seismic evidence to indicate an imminent fault reactivation in the thrust belt area. Hence, the Longmenshan Thrust Belt provides an excellent example for a sudden rejuvenation of an older fault system.

The following conclusions are offered:

- The 'awakening' of the thrust belt occurred in an extremely short time span. This could be significant for other dormant fault belts.

When a Fault System Re-Awakens

continued on page 41

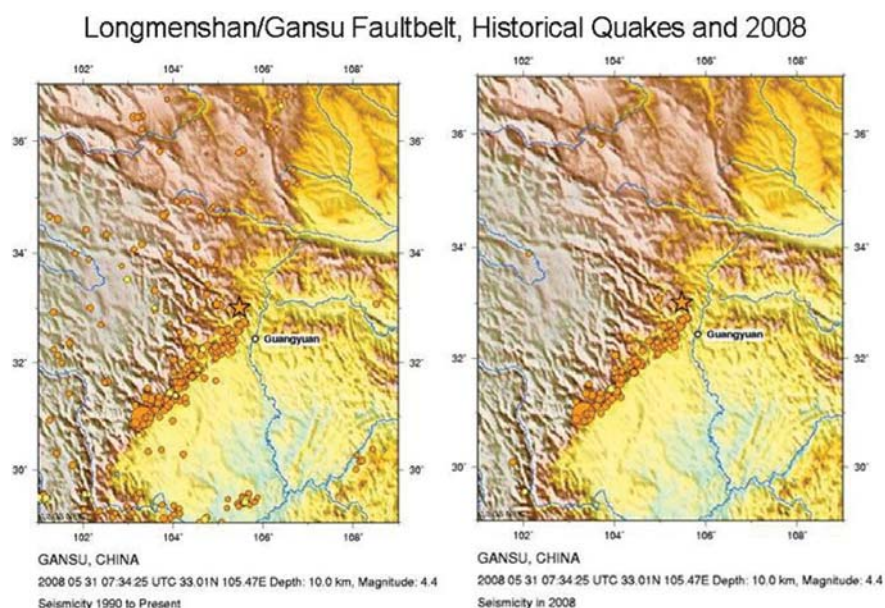


Figure 2: Relief maps of the Longmenshan Thrust Belt area. The star indicates location of the city of Chengdu. The SW-NE Longmenshan Thrust Belt forms an obvious landscape element that separates lowlands south and south-east of Guangyuan from the Tibetan Plateau. Seismic activity, as recorded since 1973 by the USGS, indicates scattered events of shallow and intermediate depth, but without emphasizing the fault belt area.

Precise Data.



Unlock the Potential of Your Reservoir.

Today's reservoirs are more challenging than ever. To unlock their potential requires absolutely precise data. OMNI Laboratories has established higher standards, more thorough protocols, and meticulous quality control measures to ensure unsurpassed accuracy. Plus, we have assembled the finest scientists in the field to provide superior interpretation and analysis. When precise data is paramount, choose OMNI Laboratories.

At OMNI, We've Got the Answers.



13 LOCATIONS IN THE U.S., CANADA AND SOUTH AMERICA • HEADQUARTERS: HOUSTON, TX • 832-237-4000 • WWW.OMNILABS.COM

September 2008

Sunday

Monday

Tuesday

Wednesday



	1 <i>Labor Day</i> <i>HGS Office Closed</i>	2 NOW you can make your reservations on-line at www.hgs.org	3
7	8 7th HGS/PESGB African Conference <i>Marriot Houston Westchase Hotel</i> Page 13 HGS General Dinner Meeting <i>"Brave New World of Oil,"</i> <i>Dr. Nansen G. Saleri, Page 19</i>	9	10
14	15 HGS Golf Tournament <i>Kingwood Country Club</i> Page 6	16 HGS Northsider's Luncheon Meeting <i>"Gas in Place Identification from Mudlog Gas, Barnett Shale—Fort Worth Basin, Texas," Jeffrey E. Nunneley, Crowne Plaza Hotel, Page 21</i>	17
21	22 HGS International Explorationist's Dinner Meeting <i>"Hot U.S. Plays: Mostly Shale," Steven Trammel, Crowne Plaza Hotel, Page 25</i>	23	24
28	29	30	

NO ONE HAS MORE WAYS TO OPTIMIZE YOUR RESERVOIR.



psinfo@corelab.com

24-hour wellsite service hotline: 713-328-2121



GEOEVENTS

Thursday

Friday

Saturday

4	5	6
11	12	13
18 SIPES Luncheon Meeting <i>"Perseverance & Technology: Significant Recent Exploration Success – Winchester North & South Fields, Wayne County, Mississippi," Jeff Requarth and John Morris, Petroleum Club, Page 23</i>	19	20
25 SIPES Continuing Education Seminar <i>Energy Opportunities – 2008 Marathon Auditorium Page 21</i> HGA/HPAC <i>Brunch, Lakeside Country Club Page 72</i>	26 Houston Gem & Mineral Society – 55th Annual Show <i>Humble Civic Center Page 59</i> GSH Tennis Tournament <i>Houston Racquet Club</i>	27
Reservations: The HGS prefers that you make your reservations on-line through the HGS website at www.hgs.org . If you have no Internet access, you can e-mail reservations@hgs.org , or call the office at 713-463-9476. Reservations for HGS meetings must be made or cancelled by the date shown on the HGS Website calendar, normally that is 24 hours before hand or on the last business day before the event. If you make your reservation on the Website or by email, an email confirmation will be sent to you. If you do not receive a confirmation, check with the Webmaster@hgs.org. Once the meals are ordered and name tags and lists are prepared, no more reservations can be added even if they are sent. No shows will be billed.		Members Pre-registered Prices: General Dinner Meeting\$28 Nonmembers walk-ups. \$35 Env. & Eng.\$25 Luncheon Meeting\$30 Nonmembers walk-ups. \$35 International Explorationists\$28 North American Expl.\$28 Emerging Technology\$25



Upcoming GeoEvents

October 5 – 9
Geological Society of America / Gulf Coast Association of Geological Societies / Gulf Coast Section of SEPM
2008 Joint Annual Meeting, Houston, Texas

October 11 (11:30 AM – 4 PM)
Earth Science Week - GSA-HGS-IYPE Event
Annual Family Energy Festival
Houston Museum of Natural Science

October 18 (10 AM – 3 PM)
Earth Science Week - GSA-HGS-IYPE Event
Public Geology Field Trip
High Island

Thursday, October 23
Geoscience Day (GSH – HGS)



Collarini Energy Staffing Inc.

Full-Time and Temporary Exploration and Production Personnel

Geoscience ♦ Facilities ♦ Drilling ♦ Production ♦ Reservoir Engineers ♦ Landmen ♦ Management
Procurement ♦ Information Technology ♦ Health and Safety ♦ Accounting ♦ Administrative Support

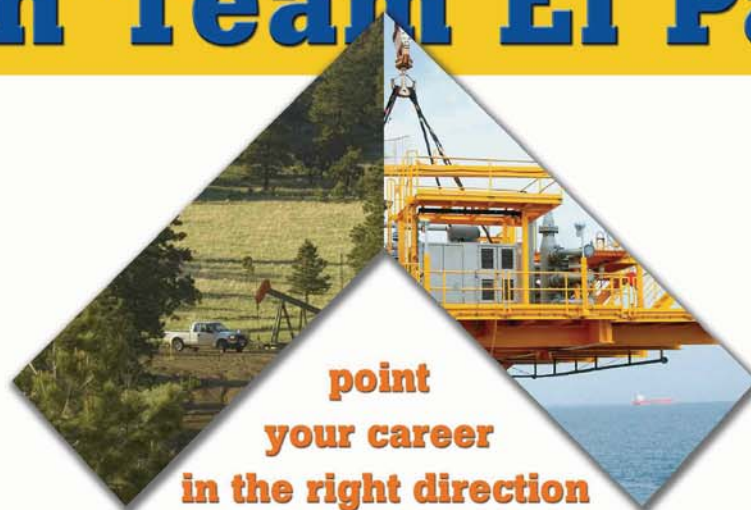
11111 Richmond Avenue, Suite 126
Houston, Texas 77082
Phone (832) 251-0553
Fax (832) 251-0157

www.collarini.com

4200 South I-10 Service Road, Suite 230
Metairie, Louisiana 70001
Phone (504) 887-7127
Fax (504) 887-7162

Connecting the Industry's Experts

Join Team El Paso



Geologists • Geophysicists • Geo Techs • Drilling Engineers • Landmen Reservoir Engineers • Production Engineers • Engineering Techs

As a professional, you have a choice in where you work. We'd like to invite you to consider El Paso Corporation as a career option. As the nation's largest natural gas pipeline company and one of the country's largest independent exploration and production companies, we're actively building new energy infrastructure across the United States. We combine the stability of a company grounded on a \$32-billion asset base with billions of dollars of identified growth opportunities.

El Paso Exploration & Production Company

is one of North America's largest independent natural gas producers. We operate in high-quality basins across the United States—from the Gulf of Mexico to the slopes of the Rocky Mountains—and in prolific basins offshore Brazil. We have a five-year drilling inventory and extensive natural gas and oil reserves. This year we expect to deliver even more growth.

El Paso Corporation takes a proactive approach to employee health and welfare. We believe that's the right thing to do.

We're pleased to offer a competitive health and wellness benefits package that includes:

- Medical, dental, and vision insurance
- Fitness centers
- Life insurance, AD&D, and long-term disability insurance
- Extended illness bank

We also know the value of compensation:

- Paying competitive salaries
- Providing incentive pay based on your performance
- Matching your contributions to a 401(k) program
- Making quarterly contributions to a company-sponsored pension plan

Interested?

Visit our website at elpaso.com/careers

El Paso Exploration & Production is located in Houston, TX; Denver, CO; and Corpus Christi, TX.



El Paso Corporation is an Equal Opportunity and Affirmative Action Employer, M/F/D/V

- Data clearly indicate that seismic precursor activity was extremely brief; there was neither strong seismic evidence nor sufficient time for disaster prevention.
- Prediction of earthquake risk needs to be carried out

plate-wide, given that risk cannot be calculated nor earthquakes forecasted based on analysis of isolated areas only. ■

Author's email: armadillo32@hotmail.com

Longmenshan/ Gansu Faultbelt, Precursor Quakes 2004 to 2007, and Jan- May 2008

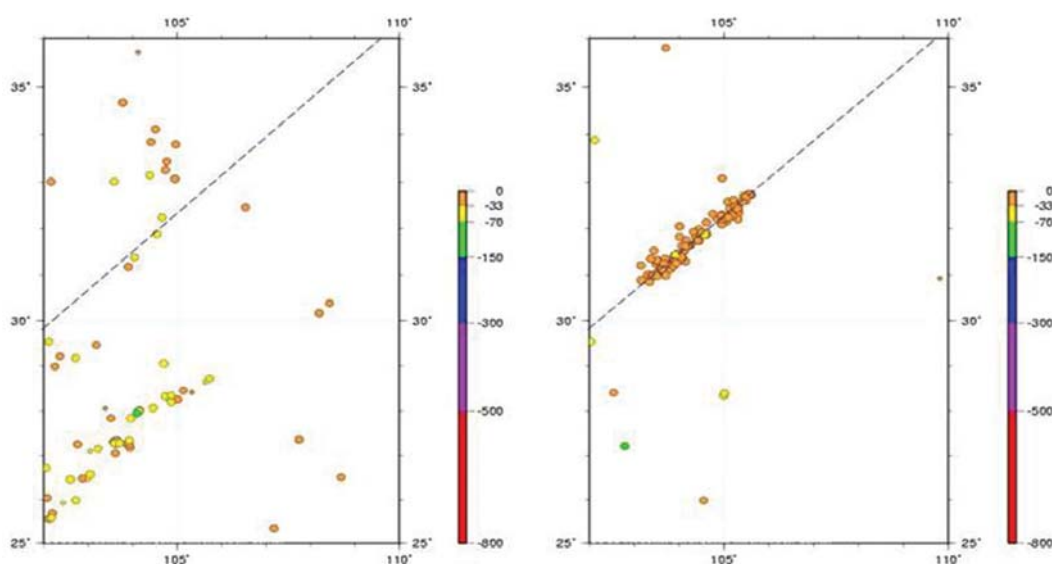


Figure 3: Location of earthquake foci in map view. The position of the Longmenshan Thrust Belt is indicated by the dashed line. In early 2008, four months before the big quake, seismic activity suddenly awakened. Quake foci are taken from the USGS database. Color scale indicates depth of earthquake foci in kilometers.

When a Fault System
Re-Awakens

continued on page 43

CONSULTANTS

SEIS-STRAT wants to introduce you to a new way of doing business. A process dedicated to taking care of people. We invest in your talent, your dreams, your vision...

We build a relationship between the client and the consultant, because we want everyone involved in the process to be rewarded.

CLIENTS

As a leading geoscience and engineering consulting firm, SEIS-STRAT supports the E&P sector of the oil and gas industry worldwide. Our team of experts is committed to delivering superior technical work. Our success is a direct result of our people working to meet your needs.

Our team of experts deliver
superior technical work.



SEIS STRAT
A WILLIS GROUP COMPANY

1400 Post Oak Blvd, Suite 200, Houston, TX 77056
[t] 713-547-4554 [f] 713-532-5599 [w] www.seis-strat.com

© 2007 A Willis Group Company. All rights reserved.



SeaBird Exploration



Take a look at the *future* of
MARINE SEISMIC



- Autonomous 4C nodes rated to 3000 m
- Acoustic Communication/Data QC
- Best sensor orientation in the market
- Highest quality coupling
- Sub-meter positioning available

www.sbexp.com
www.seabed.no

RAISING
THE **STANDARD**



Dubai
T: +971 4 4271700

Houston
T: +1 281 556 1666

Oslo
T: +47 2240 2700

Trondheim
T: +47 7 3879500

Singapore
T: +65 9180 2605

As Good As Our Word

TAP INTO OUR RESERVOIR



EXPERIENCE For over a half-century Dawson has helped its clients succeed. In both seismic acquisition and processing, we deliver high quality data that gets clear-cut results. From field equipment to software, we put the latest technologies into the hands of seasoned professionals who have geophysical knowledge specific to all major U.S. basins. Decades of acquiring data and imaging objectives to provide total subsurface picture. That's what our experience gives you. practice every day.

www.dawson3d.com
 508 West Wall, Suite 800
 Midland, Texas 79701
 432-684-3000
 800-D-DAWSON
 Houston, Texas 713-917-6772
 Denver, Colorado 303-409-7787
 Oklahoma City, Oklahoma 405-848-7512
 Michigan 248-446-9533

DAWSON[®]
 Dawson Geophysical Company

Planning • Design • Acquisition • Processing • Results

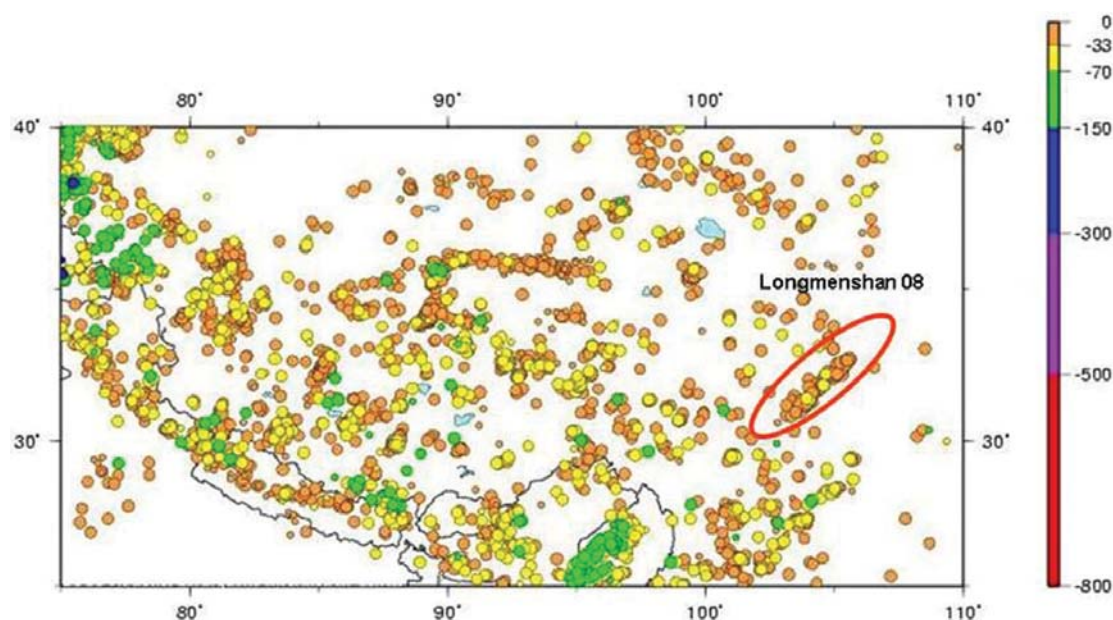


Figure 4: Map view of the Tibetan Plateau, USGS database. Color scale indicates depth of earthquake foci in kilometers. Most quakes are relatively shallow, apart from a few clusters at 70-150 km focal depth. Earthquakes plotted for the time interval of January 2000 to May 2008 include the Longmenshan cluster (lower right). Several active lineaments are recognized. An analysis of stress patterns plus improved geodetic measurements may help to pinpoint areas of future earthquake activity.

SCM Training

Petrel® Mapping Workflow Course:

- ◆ Teaching fundamentals of mapping
- ◆ Useful to G&Gs
- ◆ Providing a foundation for property modeling
- ◆ Public courses offered monthly

SCM Modular Petrel® Training:

- ◆ Create your own custom course
- ◆ Select from one to two day modules

Private and custom training

Houston ◆ Austin ◆ London

Petrel is a mark of Schlumberger

SCM Consulting

Specializing in:

- ◆ Building structural frameworks
- ◆ Calculating volumes
- ◆ Automating workflows
- ◆ 2D Mapping and 3D Geocellular Modeling

Experienced Modelers available to support your team for:

- ◆ Modeling Projects
- ◆ Mentoring and Support

Each with over 20 years experience



Subsurface Computer Modeling, Inc.
Geoscience ◆ Consulting ◆ Training ◆ Software

(713) 871-1800

www.scminc.com

More solutions, better results.

3D Imaging is a complete seismic processing service company. Our employees have the know-how, experience and resources to provide the best quality products in the industry, offering a complete range of 2D and 3D land, marine, seismic processing and imaging services and has earned a reputation for delivering projects of exceptional quality and innovation. Our state-of-the-art on-site seismic data processing services are offered either online or through our data processing centers. Our seismic processing facilities have highly experienced geo-scientists using industry-leading tools to provide accurate and timely solutions.

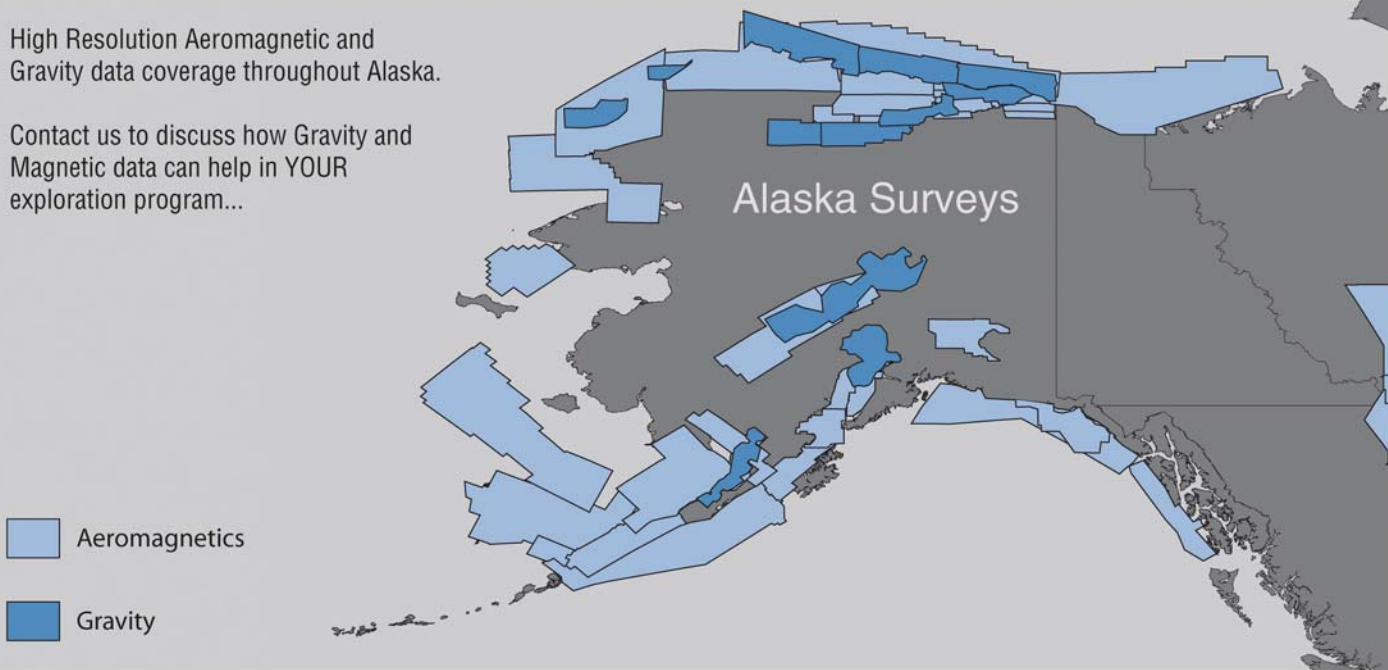
- PreStack Time/Depth Migration
- Inversion
- AVO Modeling
- High Resolution Signal Processing
- Geophysical Consulting
- Discontinuity Volumes
- Reservoir Characteristics
- Media Copies
- 450 Gigaflap Linux Clusters

Houston telephone: 713.973.5772 | Corpus Christi telephone: 361.882.8400

www.3dimaging.net

High Resolution Aeromagnetic and Gravity data coverage throughout Alaska.

Contact us to discuss how Gravity and Magnetic data can help in YOUR exploration program...



NON-EXCLUSIVE AEROMAGNETIC AND GRAVITY DATA AND INTERPRETATION

Houston - Jeff Rowe
T: +1 713 369 6123
jrowe@fugro.com

Calgary - Doug McConnell
T: +1 403 777 9280
dmccconnell@fugroairborne.com

www.fugroairborne.com



FUGRO AIRBORNE SURVEYS FLYING WORLDWIDE

A Look Back at Our Oil Heritage The Graying of Petroleum Historians

Jeff Spencer (jspencer@blackpoolenergy.com)

In 2009, the petroleum industry will celebrate the 150th anniversary of Colonel Drakes's oil discovery near Titusville, Pennsylvania — the event traditionally regarded as the start of the industry in the United States. People interested in the history of the oil age are organizing a number of events commemorating this sesquicentennial anniversary.

this group hopes to enhance the American public's perception of the U.S. petroleum industry by focusing on the historical achievements of early oil

pioneers



One of these events was the International Oil Symposium held May 7–10th, 2008 in Sarnia and Petrolia, Ontario, Canada. The Petroleum History Institute and the Petroleum History Society sponsored the meeting, which was hosted by the Ontario Petroleum Institute. “Oil Springs, Ontario 150 Years — Back to the Future” was the theme of the symposium, which included two days of oral and poster presentations, followed by an oil heritage tour throughout Lambton

County, Ontario. One of the many highlights of the tour was visiting the oil producing properties of Fairbank Oil, a fourth generation family operation which is currently run by Charles Fairbank III (Charlie). Here Charlie “pumped oil in the same place using the same technology” as his great-grandfather.

Symposium attendees represented museums, historical groups, and several authors, who are trying to preserve our oil heritage and document its history. The attendees were not a large group, and not a young **A Look Back at Our Oil Heritage** continued on page 47

Orchestrating At A Higher Standard



Taking your seismic data further than expected

Processing & Imaging Services

Tricon Geophysics, established in 1994, is staffed by highly trained professionals with worldwide experience providing expertise to solve your exploration challenges.

Seismic Data Processing - 2D/3D land and marine seismic data processing. Tricon utilizes the latest commercially available and proprietary processing software to provide the fastest possible project turnaround times.

Advanced Seismic Imaging - Full 2D/3D prestack time and depth imaging utilizing Tsunami Imaging Software for both time and depth domains, high-resolution velocity analysis and gather pre-conditioning for AVO.

Archival Services - Data archiving and retrieval services, tape to tape copying, media transfers, and other data service.

Integrated Reservoir Services

By integrating detailed petrophysical, rock physics, geological interpretation and prestack data, Tricon helps you make more profitable decisions from exploration to exploitation. Whether it's prestack inversion, pre-drill in-situ stress analysis or volume-based AVO we have the experts and technology to orchestrate a successful result.

Tricon Geophysics, Inc.

www.TriconGeophysics.com

713-532-5006 • 303-292-9222 • 403-265-4050

Houston • Denver • Calgary • Caracas • Bogota



Killer whales produce whistles, clicks, pulsed calls, low-frequency pops and jaw claps for two overlapping functions—to communicate and echolocate.

For years PGS has been communicating closely with operators in the GOM to locate a greater number of drillable prospects and help lower finding and development costs. Recent significant successes from our depth imaging team continue to demonstrate that our data processing *DP_{value}** program delivers the bottom line impact our customers need to explore and develop more effectively.

Find out more about the benefits of this proprietary approach to data processing by contacting Kim Walsh at (281) 509-8117.

*Mark of PGS

A clearer image

www.pgs.com

UNLIMITED HAS JUST BECOME A THREE LETTER WORD



UGATM
UNLIMITED GRID ACCESS

UBATM
UNLIMITED BASEMAP ACCESS

UWATM
UNLIMITED WELL ACCESS

ArcSDE Geodatabase Supported

**Unlimited access to the most accurate
Land Grid, Basemap and Well Data on the planet.
ONLY \$500/month each***



www.whitestar.com

CALL 1-800-736-6277

*Minimum two-year commitment required

777 South Wadsworth Blvd., Suite 4-250 Lakewood, CO 80226

group, but it was certainly a passionate group! It was also a concerned group. Discussions included not only the “graying” of petroleum historians, but also the lack of interest in our oil heritage, not just by the general public, but also by much of our own industry. Local historians are clearly doing much of the historical research with little financial support from the industry or co-operation in making industry archives available for research.

The 2009 annual International Oil Symposium will take place in Titusville, Pennsylvania from May 14-16. The following month, June 7-10, the AAPG’s Annual Convention will meet in Denver. Several members of the AAPG’s history committee are also members of the Petroleum History Institute. These members plan to work together to include oil history/heritage as part of the 2009 AAPG Convention.

“Celebrating the Story — Progress from Petroleum” is the theme of Oil 150, a group from the oil region of Pennsylvania (www.Oil150.com). Despite a negative public image, this group hopes to enhance the American public’s perception of the U.S. petroleum industry by focusing on the historical achievements of early oil pioneers and the men and women who followed in later



decades. Representatives from Oil 150 attended the 2008 Symposium and will be very much involved in the 2009 Symposium.

Several excellent websites contain information about North America’s petroleum heritage. These include: www.albertasource.ca/petroleum, www.petroleumhistory.org, www.petroleumhistory.ca, www.aoghs.org, ■

MORE power

2.6

... options

... connectivity

... innovation

Power Log



Release 2.6

- **Import/Export of curves and formation tops from Petra® projects and the Jason Geoscience Workbench**
- **Unique Well Identifiers (UWI/API) to ensure proper data exchange and to enhance LAS batch imports**
- **Improved read logic for curve descriptors and non-standard LAS files**
- **Flexible licensing options - “borrow” an individual license from a network for portable use**

PowerLog is the industry standard for Windows®-based petrophysical analysis and delivers even more innovative features with release 2.6 . . .

Connect with more power!
To learn more about PowerLog Release 2.6 or to request a free evaluation go to:

www.petcominc.com

FUGRO-JASON
A FUGRO GEOSCIENCE COMPANY

HGS Guest Night 2008

Life Without the Big G

Bonnie Milne-Andrews

According to the theory of universal gravitation: Gravitational Force (F) = $G * (m_1 * m_2) / (r^2)$ where the big G is the gravitational constant, m_1 and m_2 are the masses of the two objects for which you are calculating the force, and r is the distance between the centers of gravity of the two masses.

Sound dreadfully boring? Not so! Remove the big G and the fun begins! With the removal of “the big G,” the 2008 Houston Geological Society Guest Night kicked off another successful event. In the Houston Museum of Natural Science IMAX theater, a sellout crowd of 400 enthusiastic listeners were entertained by former NASA astronaut, Dr. Jim Reilly as he joyfully, yet thoughtfully, recounted his Space Shuttle missions to the International Space Station and shared his views of the scientific significance of future planned Moon and Mars missions.

The evening's events included a super buffet dinner and drinks in the Cullen Hall of Gem and Mineral's sparkling exhibit, and were hosted by HGS President Linda Sternbach and Guest Night Chairman Bill Osten.



On behalf of the HGS, Linda Sternbach introduced HISD teacher Francisca Enih from Holland Middle School as the “HGS Earth Science Teacher of the Year.”

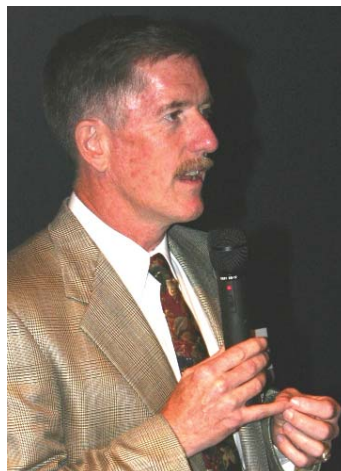
Ms. Enih was presented with a globe award and a check for \$1500.

Four students from local junior and senior high schools accepted awards for their outstanding science poster projects from the spring 2008 Science and Engineering Fair of Houston. The winners included:

- Heming Bai, Clear Lake High School, for “The Effects of Concrete Lining on the Bayou” in the category of Environmental Science;
- Victoria Baldwin, Academy of Science & Technology, the Woodlands, for “The New Water Treatment “Plants?” in the category of Environmental Science; and
- Katarina Brown and Emily Hansen, Seabrook Intermediate School, Clear Creek ISD, Junior team winners for

“Reflecting Ra: A Study of Affecting Earth's Temperatures” in the category of Botany, Environmental Science, and Zoology

Dr. Reilly's talk began with the very entertaining story of his youthful dream to become an astronaut and to travel into space and of his journey through the academic world. Dr. Reilly, after receiving numerous rejection letters, finally saw his dream



realized when he was accepted into the astronaut training program in 1986. At that time, he was working in the oil and gas industry as a geologist for SantaFe/Ensearch in Dallas, Texas.

Following the description of his personal journey, Dr. Reilly discussed the tremendous rate of technological developments in the form of the speed of human transportation from

the 1600s through the present, comparing the rate of military and governmental developments to that of the commercial sector. Superb photographs and video clips were shown highlighting the spectacular nature of the space shuttle launch, docking and life on the International Space Station. Dr. Reilly's video clips of eating and sleeping techniques of astronauts aboard the space station were fun to watch underscoring the difficulties of operating in the Zero-G environment. Dr. Reilly dramatically recounted his personal experience flying over the arctic Aurora Borealis while in on a space walk illustrated by beautiful photographs of the views of Earth taken while precariously perched outside the space station. Dr. Reilly's entertaining video clip entitled “Worse Than Locking Your Keys in the Car” drew hearty laughter from the attentive audience.





Dr. Reilly shared his vision of future missions to Mars and to the Moon, the rocks of which he believes will provide significant knowledge of our Earth's origins and first billion years of evolution. Provided by tantalizing clues unveiled in the analysis of the Allen Hills meteorite, the question remains as to whether or not future missions will uncover evidence of past life on Mars. The talk ended on a pensive note as Dr. Reilly quoted T.S. Eliot who observed, "We shall not cease from exploration, and the end of all our exploring will be to arrive where we started and know the place for the first time."

The evening was capped by the IMAX 3D movie presentation "Grand Canyon: River at Risk" which emphasized the need to conserve water in the western states.

The Houston Geological Society Guest Night 2008 was a resounding success and accolades and thanks go to our generous sponsors BHP Billiton, Fairfield, SCA, SMT, and TGS NOPEC.

Interested readers may access the images from Dr. Reilly's presentation and several embedded video clips by logging onto www.hgs.org and following prompts to the 2008 Houston Geological Society Guest Night page. Also posted to the HGS website is the slideshow that ran before Dr. Reilly's presentation entitled "Cities at Night World Tour." Credit for this file goes to Dr. Don Pettit of NASA. ■





BTA OIL PRODUCERS

- ◆ **ACQUIRING:** Drilling prospects in the Texas and Louisiana Gulf Coast onshore and state waters.
- ◆ **PREFERRED:** Operations, 3D support, Minimum 25% participation
- ◆ **CONTACT:** David Childers, ph: 281-872-5022, e-mail: dchilders@btaoil.com
16945 Northchase, Suite 1600, Houston, TX 77060



Geological Data Library, Inc.

Houston's **TECHNOLOGY** Data Library
Workstation Rentals for Members/Guests
SMT, Geographix, Neuralog Applications
Logs, Maps, Production Data, Research
Internet Access, Many Other Services

713 658-0033
811 Dallas, Suite 930
www.GeologicalData.com

global exploration starts here

GETECH is a leading petroleum and minerals consultancy best known for its unique global gravity and magnetic data holdings and services. Our company now offers an expanded catalogue of data types and a growing suite of petroleum exploration studies.

SERVICES
Multi-disciplinary teams of technical experts

DATA
Including the world's largest gravity and magnetic library

STUDIES
A global portfolio of focussed exploration reports

Leeds UK +44 113 222200
Houston USA +1 713 979 9900
info@getech.com

FOR THE CHANCE TO WIN ONE OF FIVE IPOD NANOS, PLEASE VISIT OUR NEW WEBSITE AT www.getech.com/nanoh

www.StructureMaps.com

'the elemental solution'

Geological Services

Chemostratigraphic services - the Americas

Chemostratigraphic correlation
World-wide expertise
Hotshot service

USA: Alaska, onshore lower 48, Gulf of Mexico, unconventional reservoirs

Canada: Offshore E. Canada, W. Canada, McKenzie Delta

S. America: Brazil, Bolivia, Peru, Colombia

Data acquired by ICP OES/MS, WD-XRF and ED-XRF
Portable systems for in-country and field applications

Contact: Milly Wright
tel: 832 252 7200
millywright@chemostrat.co.uk

Chemostrat Inc
5850 San Felipe, Suite 500,
Houston, Tx 77057

www.chemostrat.com

25th Annual HGS Skeet Shoot Goes off with a Bang

Well, the \$140/bbl oil must be having a good effect on the HGS membership, because they showed up in record numbers, 164 to be exact, on June 28th to take part in HGS' 25th Annual Skeet Shoot at the Greater Houston Gun Club in Missouri City. Gun club Manager Kevin Dougherty had the fields and grounds in top shape, and made sure the registration and scoring went off without a hitch. The weather cooperated, with no rain and some cloud cover to break the worst of the heat.

When the smoke cleared, Tim McGinty of ATP Oil & Gas was the "three-buckle winner"—he not only shot a perfect skeet score of 50, but was also half of the winning two-man flurry team. He topped it off by winning a commemorative belt buckle in the raffle. Then, during the awarding of the door prizes, Tim donated one of his trophy buckles to auction off to further benefit HGS. The spirit of giving back caught on with Alan Warwick of Century Exploration; he topped all the other bidders for Tim's buckle, then donated the buckle back to be given to the high-scoring lady shooter, Liz Edwards (44 out of 50). Tim then gave Alan his third buckle to repay Alan's generosity—nice going, all of you!

Other winning shooters were:

Two-man Flurry: **Jeff Darrington/Terry Edwards**—Winners by coin flip

Tim McGinty/Clark Walraven—Runners Up

Class "C" Runnerup-**David Type**

Class "C" Champ-**Dixon Millican**

Class "B" Runnerup -**Rob Sawyer**

Class "B" Champ-**Winn Sellers**

Class "A" Runnerup-**Jeff Darrington**

Class "A" Champ-**Dietrich Landis**

Class "AA" Runnerup-**Barry Boyce**

Class "AA" Champ-**Richard Light**



The High Over All (HOA) race ended in a tie with two perfect scores of 50: Tim McGinty and Dennis Moore, from Corpus Chrstiti. Great shooting, guys!

Huge thanks are due to our generous sponsors: Halliburton, for the BBQ lunch and caps, Schlumberger, for the towels and gift cards, and Geokinetics, for sponsoring a field and the ammunition. Other field sponsors were Drake Directional Drilling,

Fairfield and Seitel Data. ATP Oil and Gas also sponsored the caps and donated the John Warner Memorial Cowboy Hat for the second year running. Beverage Sponsors were APEX Oil and Gas, Ameritex Minerals, Knowledge Reservoir and Petrolog. Other Ammunition Sponsors were CL&F Resources, Mariner Energy, and Sanchez Oil & Gas. Cheyenne Petroleum, Houston Energy, and Spartan Petroleum were Gold Sponsors, and Carr Resources, Dante Stefani, Alan Warwick, Russell Wilson, and Bob West were Silver Sponsors. ■



Halliburton Cooking Team



Liz Edwards and Alan Warwick



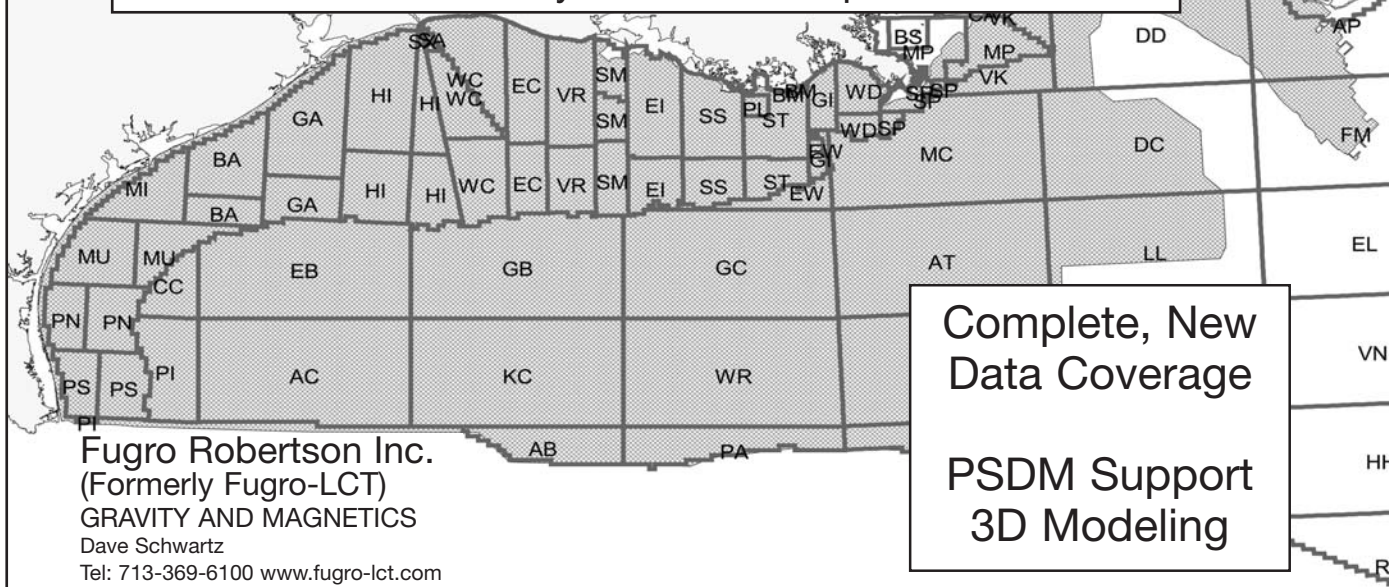
McCarrol (L), McGinty (C), Moore (R)

Robertson

LCT Gravity & Magnetics



"The Place to Go"
For GOM Gravity Data and Interpretations



Complete, New
Data Coverage

PSDM Support
3D Modeling

Fugro Robertson Inc.
(Formerly Fugro-LCT)
GRAVITY AND MAGNETICS
Dave Schwartz
Tel: 713-369-6100 www.fugro-lct.com

Geochemistry Solutions from the Experts

With an average of 22 years experience, Westport geochemists have the knowledge and expertise to solve reservoir development and management issues.

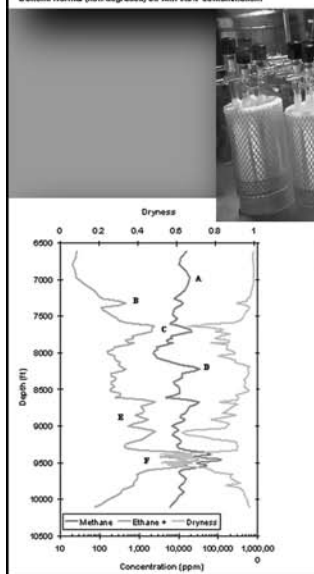
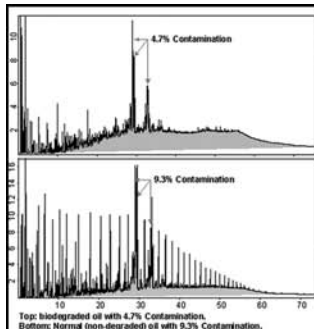
Our multi-disciplined staff utilize sophisticated chemometric techniques to address a broad range of issues including:

- Defining and understanding the petroleum systems
- Monitoring production efficiency
- Mapping reservoir continuity
- Allocating commingled production
- Quantifying oil-based mud contamination in samples
- Determining oil quality distribution

Intertek Westport Technology Center

Intertek

6700 Portwest Drive; Houston TX 77024
Tel: 713.479.8400 westportservices@intertek.com
Fax: 713.864.9357 www.westport1.com



HGS Community Outreach Projects for 2008-2009

The HGS Community Outreach Committee is dedicated to assisting charitable organizations in the Houston-metro area in a variety of projects. Aside from helping our community and improving the lives of others, these projects are opportunities for participants to get to know others in our organization as well as the organizations we support. As these activities will typically be non-geologic in nature, members are encouraged to bring age-appropriate family and friends along.

Our initial project will to assist the Montgomery County Foodbank located in Conroe, Texas. This private, non-profit organization serves as a clearinghouse for edible products and serves over 12,000 Montgomery County individuals a month. Sixty percent of the recipients are families with dependent children. The organization distributes over one million pounds of food to community kitchens and pantries. HGS volunteers will be called upon several times this year for sorting, checking, and packing sessions for these food products for distribution in this program.

A bigger project for the end of 2008 will be to assist *Elves and More* build bicycles in December. *Elves and More* is a Houston charitable organization dedicated to bringing the spirit of Christmas to children whose families are unable to afford gifts. These efforts help families take their first steps out of the cycle of poverty. *Elves and More* buys, builds, and delivers 20,000 bicycles to underprivileged kids in Houston and the surrounding area and has achieved remarkable successes over the past several years. We would like to make HGS a part of these efforts. In the near

future, we will be choosing specific day(s) and time(s) for HGS member participation. The bicycle building is conducted over several evenings and weekends prior to Christmas at the Reliant Center.

Our final community outreach project for the 2008-2009 year will be to participate with the City of Houston under its Trees for Houston program. This is a city-sponsored program that involves planting young trees in various locations around town. The city provides the trees and various volunteer organizations provide the labor. Houston Arbor Day, usually the third Saturday of January, is a major tree planting day under this program.

Many of you remember our awesome workday several years ago at the Houston Food Bank packing and sorting food and supplies for the victims of Hurricane Katrina. In addition, we spent multiple weekends improving the historic Evergreen Cemetery. As with past activities, our goal is to improve the communities we live in, make new connections, and have some fun.

We on the HGS Community Outreach Committee Leadership Team hope you will save these dates and volunteer. You can contact any of the leadership team or sign-up on the HGS website to volunteer for these projects that will benefit our community.

Thank you in advance for your participation.

Paul Babcock, Steve Earle, and Walter Light

Paul.Babcock@nfrenergy.com, steve.hgseditor@gmail.com, WTHUNDERX@aol.com ■

Now Available Directory of Oil Company Name Changes – 19th Edition (April 2008)

A new edition, the 19th of the HGS publication, "Directory of Oil Company Name Changes," is now available through the Bureau of Economic Geology. This publication is a cross-referenced list of domestic oil and gas, exploration and production companies that have sold major assets or have changed their names due to a merger, acquisition, or reorganization. The purpose of this directory is to assist geologists and other professionals in tracking down and matching electric logs, production histories, and other well data that are obscured by these numerous name changes.

The cost of the directory is \$14.00 and it can be obtained from the BEG. The contact information is as follows:

Bureau of Economic Geology
University of Texas in Austin
Attn: Publication Sales
University Station, Box X
Austin, Texas 78713-8924

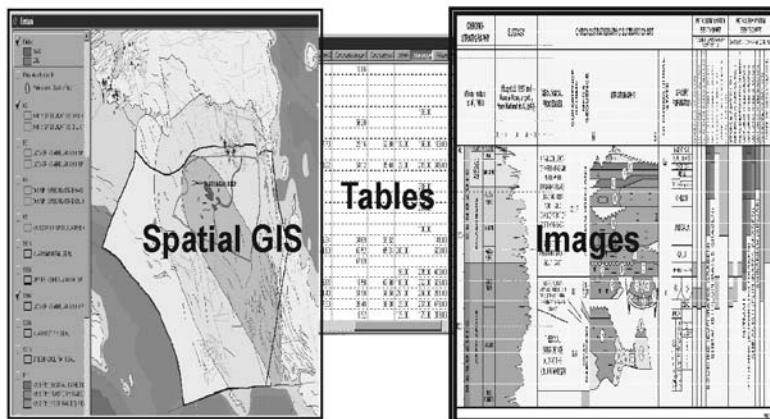
Phone: (888) 839-4365
www.beg.utexas.edu

Or, you can purchase copies at the BEG booth during the GCAGS in Houston and save shipping costs.



Tell us all about TELLUS

- Geologic Database of Play Fairways and Petroleum Systems
- Designed by Robertson's Specialists with Oil Company Input
- Global Coverage (370 Basin)
- Compiled for New Ventures and Exploration Teams



- GIS Format Using ArcGIS
- All Geologic Aspects or (Principals) displayed as Maps, Images, or Tabular Data
- Reliable Data from Thousands of References
- Regularly Updated and Enhanced



FUGRO ROBERTSON INC.
6100 Hillcroft, 5th Floor
Houston, TX 77081
Tel: (713) 369-6100
Fax: (713) 369-6110
Email: infofri@fugro.com
www.fugro-ict.com

FUGRO ROBERTSON LTD
LLANDUNDO
North Wales LL30 1SA
United Kingdom
Tel: +44(0) 1492 581811
Fax: +44(0) 1492 583416
Email: Tellus@fugro-robertson.com
www.fugro-robertson.com/tellus



South Atlantic Margins earthmoves

One Day Workshop
Marriott Houston Westchase Hotel
11th September 2008
(follows on from HGS Africa Meeting)

Course Tutor I. Davison

Do you want to keep up to date?

Syn-Rift Plays
Pre-salt sag basin development
Age and composition of salt
Salt Tectonics
Source Rock Distribution
Turbidite Reservoirs
Igneous Events
Conjugate Basin Comparisons
Where to go next ?

**Features Seismic
Interpretation practicals**

Course Fee \$850
includes 200 page color
course manual + DVD,
detailed maps of S. Atlantic

For further details contact Ian Davison

Email: i.davison@earthmoves.co.uk Tel: +44 (0) 1276 671772



Government Update

Henry M. Wise, P.G. and Arlin Howles, P.G.

If you'd like the most up-to-date information on Texas rules, regulations and notice of governmental meetings, we direct you to the HGS website to review "The Wise Report." This report, which comes out as needed but not more often than once a week, offers the most current information of interest to Texas geologists.

AGI Government Affairs Monthly Review (May 2008)

House Committees Focus on Water

On May 16, 2008, the House Transportation and Infrastructure Committee passed legislation that aimed at increasing public awareness of raw sewage discharges to rivers and streams. According to the text of the Raw Sewage Overflow Community Right-to-Know Act (H.R. 2452), between 1.8 and 3.5 million Americans become ill each year from swimming in waters contaminated by sewage overflows. H.R. 2452 would require sewage treatment facilities to monitor and report to the public within 24 hours of potentially-hazardous levels of sewage discharge.

The White House has expressed support for the legislation despite opposition from the Environmental Protection Agency (EPA) over the use of the Clean Water State Revolving Fund to finance the monitoring and alert systems. The Clean Water State Revolving Fund is typically used to provide low interest loans for water quality protection projects for wastewater treatment and for non-point source pollution control. A similar bill (S. 2080) has been introduced but not acted upon in the Senate.

The committee also passed two measures to examine the nation's future water needs. The first, introduced by Congressman John Linder (R-GA), H.R. 135, establishes a presidential commission of experts to study our water resources and develop recommendations to ensure an adequate future supply. The second measure, H.R. 5770, tasks the National Academy of Sciences to study the potential effects of climate change on the nation's water supply and quality. While the Senate Environment and Public Works Committee passed an identical bill (S. 2728) to H.R. 135 on May 21, 2008, legislation similar to H.R. 5770 has not been introduced in the Senate.

Concerns about future water shortages also prompted the passage of two bills within the House Science and Technology subcommittee on Energy and the Environment. The Produced Water Utilization Act of 2007 (H.R. 2339), introduced by Ralph Hall (R-TX), establishes a program within the Department of Energy to improve technologies that would allow the use of water produced during energy exploration and development for agriculture, irrigation, municipal, or industrial purposes.

The second bill, H.R. 3957, the Water Use Efficiency and

Conservation Research Act, authored by Congressman Jim Matheson (D-UT), creates a research and development program at the EPA to promote water use efficiency and conservation. The program would develop technologies and processes that enable the collection, treatment, and reuse of rainwater and gray water. The program would also examine the behavioral, social, and economic barriers to achieving greater water use efficiency. Similar legislation has not been introduced in the Senate for either bill.

The full text of H.R. 135 is available from Thomas at: <http://thomas.loc.gov/cgi-bin/bdquery/z?d110:h.r.00135>:

The full text of H.R. 5770 is available from Thomas at: <http://thomas.loc.gov/cgi-bin/bdquery/z?d110:h.r.05770>:

The full text of H.R. 2339 is available from Thomas at: <http://thomas.loc.gov/cgi-bin/bdquery/z?d110:h.r.02339>:

The full text of H.R. 3957 is available from Thomas at: <http://thomas.loc.gov/cgi-bin/bdquery/z?d110:h.r.03957>:

Flood Insurance Reform and Map Modernization Act Passed by Senate

On May 13, 2008, the Senate passed H.R. 3121 that allows for the continuation and reform of the National Flood Insurance Program (NFIP) and forgives the over \$20 billion owed to the U.S. Treasury by the Federal Emergency Management Agency (FEMA) after Hurricanes Rita and Katrina. The legislation initiates reforms to ensure that the program can continue to operate and adequately identifies areas at risk to flood loss. The provisions of interest to geoscientists include the reestablishment of the Technical Mapping Advisory Council and coordination of the FEMA Director with the advisory council to establish an ongoing program to review, update, and maintain flood insurance program maps.

The legislation requires that the effects of global climate change on flood, storm, and drought and the potential future effects related to weather events, such as increased hurricane activity, intensity, storm surge, and sea level rise, be taken into consideration. The bill includes the requirement that the most accurate data be used in mapping and maintenance, and that each map include certain elements to ensure consistency and accuracy. The legislation authorizes \$400 million annually for mapping and removes the current 50 percent limit on state contributions toward map modernization.

The full text of H.R. 3121 is available from Thomas at: <http://thomas.loc.gov/cgi-bin/query/D?c110:5:./temp/~c110EHZWcS>.

Fossil Preservation Act Being Considered in House

On May 14, 2008, the House Natural Resources Committee adopted H.R. 554, the

Government Update continued on page 57

American Association of Petroleum Geologists

AAPG International Conference and Exhibition

26-29 October, 2008 | Cape Town, South Africa



Register now!

www.aapg.org/capetown

LEARN FROM more than 600 global technical presentations

- Deepwater Reservoir Systems • Advances in Geosciences
- Next Generation Tools and Techniques • The New Business of Energy
- Regional Petroleum Systems

TAKE HOME new ideas and once-in-a-lifetime experiences from 30+ field trips, courses and networking events

INTERCOMMUNICATE with colleagues and experts from 60+ countries



AAPG INTERNATIONAL CONFERENCE AND EXHIBITION
26-29 October, 2008 • Cape Town, South Africa



2008 Houston Open Enrollment Course Schedule

Rose & Associates

Risk Analysis, Prospect Evaluation & Exploration Economics

February 11 – 15, 2008

May 12 – 16, 2008

October 13 – 17, 2008

Risk Analysis for Development Applications

April 7 - 10, 2008

September 15 – 18, 2008

Register at: www.roseassoc.com/instruction

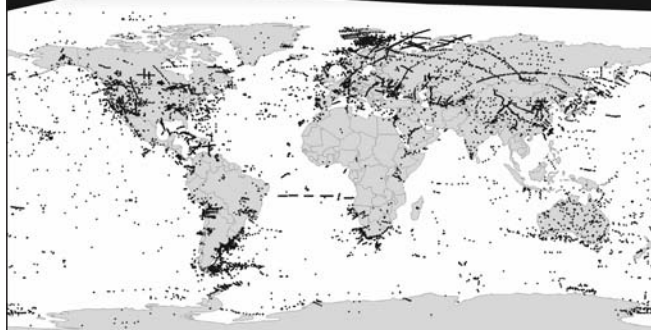
Questions: allisondunn@roseassoc.com

713/528-8422

Transferring E & P Risk Assessment Expertise
Instruction • Software Tools • Practical Consultation

GLOBAL SEISMIC REFRACTION CATALOG (GSC)

digital Earth crust data base



KEY FEATURES

- global coverage
- comprehensive (1939-present)
- 9000+ data points
- annual updates
- ASCII, Excel™ and ArcGIS™ shape files
- Vp & Vs
- velocity gradients
- basin depth & structure
- crustal thickness
- thermal modeling
- tectonic age

bird
GEOPHYSICAL

CONTACT
Dale Bird
+1-281-463-3816
dale@birdgeo.com

Paleontological Resources Preservation Act, introduced last year by James McGovern (D-MA). The purpose of the bill is to establish a comprehensive policy for the management of paleontological resources on federal lands, spurred by the rise of fossil theft and vandalism in recent years. Existing laws that address some paleontological resources are the Archaeological Resources Protection Act of 1979 and the Federal Cave Resources Protection Act of 1988. However, these laws only protect fossils when they are associated with archeological resources or when they are found in caves.

The bill would make it unlawful to remove paleontological resources from federal lands without a permit. The permit's conditions are that the fossils collected shall remain the property of the United States and that they be made available for scientific research and public education. Casual collection of a reasonable amount of common invertebrate and plant fossils for non-commercial use would still be allowed.

H.R. 554's companion bill in the Senate, S. 320, introduced by Senator Daniel Akaka (D-HI), has not been acted on in the 110th Congress though it cleared the Senate Committee on Energy and Natural Resources in the 109th Congress.

The full text of the bill is available from Thomas at: <http://thomas.loc.gov/cgi-bin/bdquery/z?d110:h.r.00554>:

Freedom of Speech Used to Promote Creationism

"Academic freedom" bills have been introduced in Florida, Michigan, Alabama, Texas, Louisiana, and Missouri over the past year. These bills take an alternate approach in their attempt to interject religious beliefs into the science classroom. The texts of the bills do not mention intelligent design or creationism, but instead argue that teachers should be able to raise doubts about the concept of evolution as a matter of free speech. The bills describe evolution, human cloning, and climate change as controversial and would allow teachers to discuss the "scientific weaknesses" of the theories. The language of the bills is similar to legislation drafted by the Discovery Institute, a Seattle-based organization known for its advocacy of intelligent design.

The courts have not yet weighed in on the freedom of speech aspect because the bills have not passed in any state. Both chambers of the Florida legislature passed "academic freedom" bills, but the chambers were unable to reach agreement on a final bill. Many experts believe the singling out of evolution from

Government Update continued on page 59



Fugro Robertson Intelligent E & P Data Storage

'THE ONLY WAY TO GET VALUE FROM PHYSICAL ASSET DATASETS'



**Over 280,000 miles of core and cuttings
stored**

**Over 9 million physical items including
paper and tapes stored**

**292,000 sq ft of secure storage in Texas
over 28 acres**



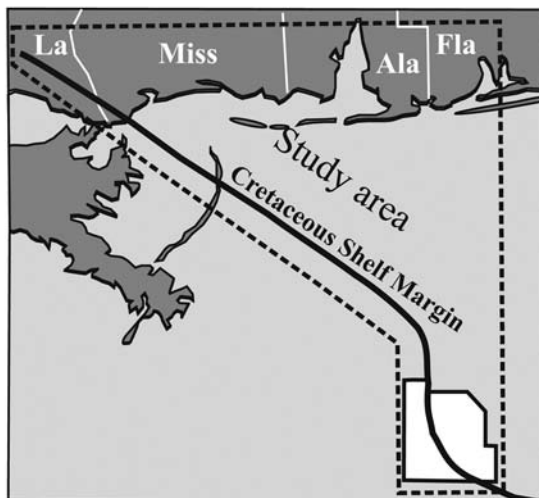
**Cataloging, Scanning,
Seismic Vectorization,
Log Digitizing / Processing Services**

Web Based Data Delivery

**All supported by highly experienced E & P
Geoscientists**

Special rates now available - Become one of our satisfied customers today
Fugro Robertson Data Solutions 713 369 6100 info@fugro-cmstorage.com www.fugro-cmstorage.com

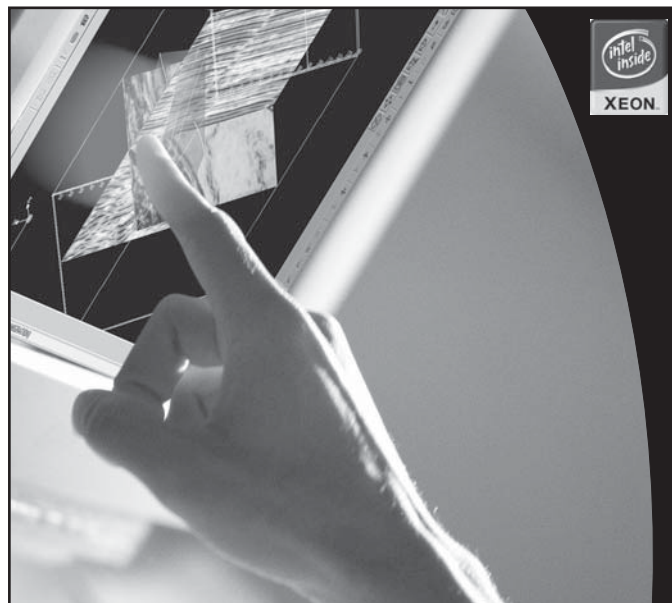
**2007 -2008 GOM Offshore Lease Sale
Lower Cretaceous
Carbonate Platform Evaluation**



READY TO DELIVER!!

- Seismic and high-res Sequence Stratigraphic Interpretations
- Rock Facies & Reservoir Studies from cores and well cuttings
- Onshore Analog Fields

Contact: Richard Inden
LSSI, Ltd.; 303-623-6156
richard.inden@forethought.net



3-D images so real you'll be amazed!

The cutting edge... 3-D visualization capabilities and the power of Intel® Xeon™ Processors. RCL Systems will configure the latest technology into your Geophysical Workstation to keep you in the pay zone.

Call us at 1-800-758-1771 or 281-240-2777
or visit us on the web at www.rcl.com

**RCL
SYSTEMS**

Intel and Intel Inside Logo are registered trademarks of Intel Corporation.

 **manzanita**

 **Managed Services**
 **Consulting**
 **Projects**
 **Staffing**

 **Geotech Services**
 **GIS/Cartography**
 **Data Management**
 **CAD Drafting**
 **Digitizing**
 **Graphics**

P.O. Box 941088
Houston, TX 77094
tel 281.560.3010
fax 281.855.6711
www.manzanitaseservices.com



**ALPINE
RESOURCES
INC.**

**TAKING
DRILL-READY
PROSPECTS**

**CONTACT: DAN KELLOGG x103
DENNIS FERSTLER x104**

DKELLOGG@ALPINERES.COM
(713) 655-1221 TEL
(713) 951-0079 FAX

**1201 LOUISIANA, SUITE 3310
HOUSTON, TEXAS 77002**

other scientific theories and the attempt to hold it to a higher standard from other parts of the science curriculum will be in question.

AGI Government Affairs Monthly Review (June 2008)
Senate Climate Debate Short-lived

On June 6, 2008, the Climate Security Act of 2008 (S.3036) was pulled from the Senate floor when a procedural vote to limit debate and move the measure forward failed. Many senators were hoping for a more extensive debate and the opportunity to address specific issues of concern within the legislation such as the potential impacts of the bill on the economy, the role of nuclear energy in curbing greenhouse gas emissions, and international action on climate change. The timing of the debate was also hindered by recent skyrocketing oil prices and calls by some senators to open areas of the U.S. outer continental shelf to drilling. Despite the lack of resolution on the bill, its proponents, senators Barbara Boxer (D-CA), Joe Lieberman (I-CT), and John Warner (R-VA), view the support of 54 senators to move the measure forward as “a very special day,” and are certain that their work in this Congress has set the stage for enactment of climate legislation next year.

Another Climate Change Bill Introduced in the House

On June 19, 2008, several Democratic members of the House Ways and Means Committee introduced yet another plan to reduce U.S. greenhouse gas emissions using a cap-and-trade scheme. The bill (H.R. 6316), introduced by Representative Lloyd Doggett (D-TX), would reduce carbon emissions to 80 percent below 1990 levels by 2050. The bill will now be considered by multiple committees that have jurisdiction over different parts of the measure.

The full text of the bill and other details are available from Thomas at: <http://thomas.loc.gov/cgi-bin/query/z?c110:H.R.6316>:

NASA Scientist Discusses Climate Change Two Decades After First Testimony

June 23, 2008—On the 20th anniversary of his first appearance before Congress, Dr. James Hansen, director of the NASA Goddard Institute for Space Studies, briefed the House Select Committee on Energy Independence and Global Warming on the danger of passing climate system tipping points. Tipping points are “points of no return at which the dynamics of the system take over” and reductions in carbon dioxide are futile, Hansen said.

Government Update continued on page 61

55th Annual HGMS Gem, Jewelry, Mineral & Fossil Show

September 26-28, 2008

Three days of fun for the whole family!

- Experience a life-size dinosaur diorama from FFX Studios and investigate Texas' own dinosaur trackways at PaleoScene.
- Shop at more than 40 gem, jewelry, mineral, lapidary, and fossil dealers.
- Join in continuous children's activities, including the School Daze Earth Science program on Friday and the Scout Merit Badge program on the weekend.
- See jewelry-making and gemstone-cutting demonstrations and educational displays, including a fluorescent rock room.
- Bring your gemstones, rocks, minerals, and fossils for free expert identification.

For more information, visit HGMS online at www.hgms.org or e-mail show@hgms.org

WHEN

September 26-28, 2008

Friday: 9 a.m. — 6 p.m. (Kids' Day)

Saturday: 9 a.m. — 6 p.m.

Sunday: 10 a.m. — 5 p.m.

TICKETS *(good for all three days)*

Adults: \$5. Students, Teachers, Seniors \$4.

Children under 12 FREE with adult.

LOCATION

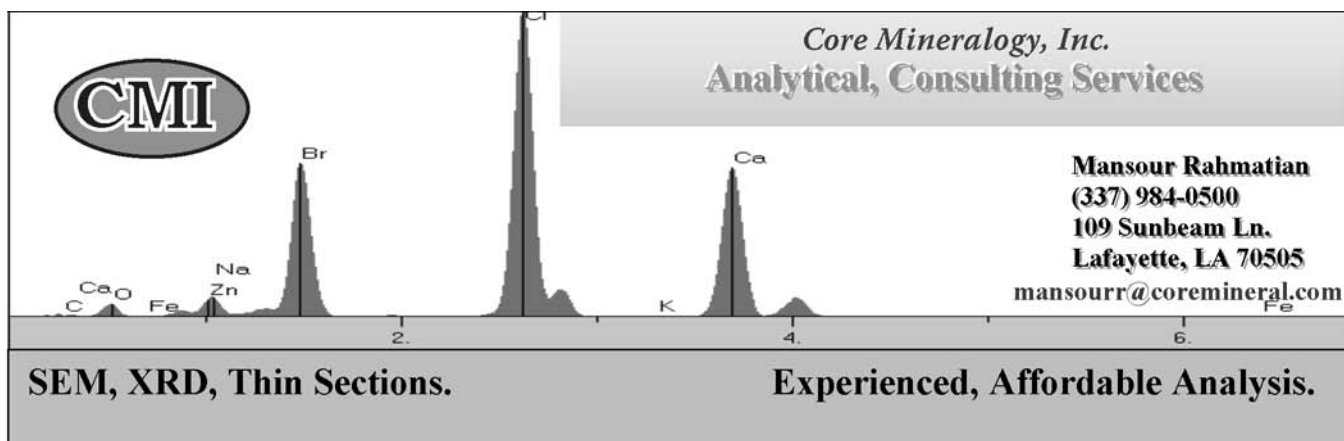
Humble Civic Center
 8233 Will Clayton Parkway
 Humble, TX

FREE PARKING!





Core Mineralogy, Inc.
Analytical, Consulting Services



Mansour Rahmatian
(337) 984-0500
109 Sunbeam Ln.
Lafayette, LA 70505

mansourr@coremineral.com

SEM, XRD, Thin Sections.

Experienced, Affordable Analysis.

Precision Drafting Services *HAS MOVED!!*

After 25 Years, we have moved to smaller quarters and have lots of extra drafting tables, light tables, file cabinets, drafting equipment and office furniture to sell or donate!

We will continue to provide top quality mapping and presentations at our new address.

Please Call and Come Visit!

713 660-8454 Office

713 666-9374 Fax

713 782-3246 Home

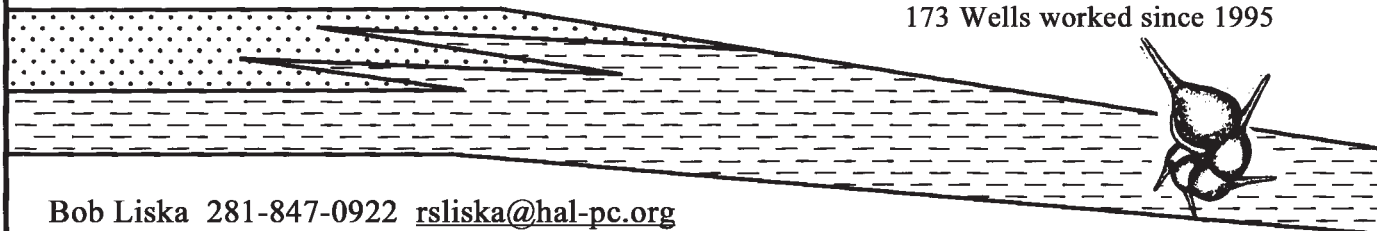
pdsmaps@comcast.net

1906 Nantucket Dr., Houston, Texas 77057

Paleo Control, Inc
Drilling Wells - Databases

Wilcox

Correlated Paleo Data Base
173 Wells worked since 1995



Bob Liska 281-847-0922 rsliska@hal-pc.org

Jim Thorpe & Loyd Tuttle 713-849-0044 ltuttle@hal-pc.org

Cheated, Mistreated, Pushed Around?



Have you been cheated, mistreated or somehow deprived of your share of a deal, working interest or royalty? If so, give me a call. I have twenty five years experience as a working interest and royalty owner in the oil and gas business to go along with thirty five years of court room experience. You do not pay anything unless I win.

Robert A. Chaffin

CHAFFIN & STILES

4265 San Felipe, Suite 1020 • Houston, Texas 77027

(713) 528-1000 • robert@chaffinlawfirm.com

He remarked that it is likely that the climate has already reached a tipping point. Because there is enough “warming in the pipeline,” the Arctic will “lose all sea ice in the summer season,” Hansen predicted.

Dr. Hansen gave a brief but comprehensive overview of the scientific concern surrounding global warming. The planet is experiencing a long term warming trend, he explained, due to the planetary temperature imbalance. He declared with “99.9% certain that the long-term safe level [of carbon dioxide] is 350 parts per million.” Currently, the concentration of carbon dioxide in the atmosphere is 385 ppm. Dr. Hansen reassured the audience that brief greenhouse gas overshoots are alright, saying “1,000 ppm for a day won’t melt the ice sheets. But it can’t stay there for centuries.”

To achieve atmospheric carbon dioxide levels of 350 ppm or less, a moratorium must be placed on new coal-burning power plants and existing coal plants must be phased out as “promptly as practical,” he said. Furthermore, unconventional fossil fuels—tar sands and oil shale—must not be used, Dr. Hansen urged. Reforestation and improved agricultural practices such as no till agriculture can aid in the carbon dioxide sequestering process. Lastly, he called on Congress to consider a carbon tax with a

100% dividend returned equally to the American people on a per capita basis.

Dr. Hansen noted that, not long after he testified on June 23, 1988, he stopped communicating with the public to focus on his research. However, to “bridge the gap between what is understood by the scientific community and what is known by the public and policy makers,” Dr. Hansen decided to begin speaking out on climate change issues again.

For more information on the briefing visit: http://globalwarming.house.gov/pubs/pubs?id=0045#main_content

DOE Submits Yucca Mountain License

The Nuclear Regulatory Commission (NRC) is currently reviewing an application for the construction of the first national repository for spent nuclear fuel and high-level radioactive waste at Yucca Mountain, that was submitted June 3, 2008 by the Department of Energy (DOE). The NRC has a 90-day period to review the application and, if accepted, the entire approval process for the issuance of the construction and operation license is expected to take a minimum of three years.

Government Update *continued on page 63*

10 YEARS OF SERVICE EXPERIENCE TRUST™



PSI
Petrophysical Solutions, Inc.


- Single well analysis
- Integrated field studies
- Large petrophysical databases
- Seismic Rock Properties
- Old E-logs and Russian logs

Visit our website:
www.petrophysicalsolutions.com

11767 Katy Freeway, Suite 380 | Houston, TX 77079
 p (281) 558-6066 | f (281) 558-5783

PEL-TEX OIL COMPANY, L.L.C.

Exploring The Gulf Coast – 46 years



Historically PEL-TEX'S track record exhibits it to be a
 GENERATOR of Large GAS EXPLORATORY
 PROSPECTIVE OPPORTUNITIES both
 ONSHORE and OFFSHORE of the
 LOUISIANA and TEXAS GULF COAST

“Nothing has changed,” DEEP GAS is Pel-Tex's main focus
 Pel-Tex is privately owned and welcomes interested partners

HOUSTON, TX
 520 Post Oak Blvd., Suite 475
 Houston, Texas, 77027
 713-439-1530
 Contact:
 Earl P. Burke, Jr. Ch. & CEO
 Glenn Burke, President
 Brian Burke, Vice President

E. H. STORK, JR., & ASSOCIATES, INC.



Biostratigraphic Specialists



- * Extensive Regional Paleo Database
- * Onshore – Offshore Texas & Louisiana
- * Over 5,000 Well Inventory

207 Pecore Street, Suite 2
Houston, TX 77009-5415
Telephone: 713-802-9731

E-Mail: storkandassoc@sbcglobal.net
E. H. Stork, Jr., and Slater E. McEachern, Jr.



Current Analysis – Drilling Wells



Ellington & Associates

It's Geo LOGICAL

X-Ray Diffraction Mineralogy

X-Ray Fluorescence

Micro-Paleo Services

Gamma Ray Logging from Cuttings

Leco TOC

Cuttings Archiving and Storage

1022 Wirt Rd., Suite 312 Houston, TX 77055 Ph: (713) 956-2838
www.ellingtongeologic.com - Info@ellingtongeologic.com

Geological & Petroleum Engineering Services

WAVEFRONT^{LLC}
OIL & GAS IT SINCE 1999

IT CONSULTING

WORKSTATION SALES

DATA LOADING

VECTORIZATION



RIDE THE TECHNOLOGY WAVE

www.wavefront.PRO
713-793-6118

Microsoft
CERTIFIED
System Engineers



**Preston
Exploration
L.L.C.**

*1717 Woodstead Court, Suite 207
The Woodlands, Texas 77380*

Internally funded, privately-held exploration company is seeking high potential (30+ BCF or 4+ MMBO) exploration prospects both onshore and in inland state waters for the following areas: South Louisiana, Texas Gulf Coast, South Texas, and East Texas. Will consider prospects that are ready to drill or at the idea level. Operations are preferred, but, non-operated interest with acceptable operator will be considered.

CONTACT:

Joe Eubanks or Jim Abney at
Tel: (281) 367-8697 Fax: (281) 364-4919

National interest in “clean” or low-carbon emitting forms of energy has prompted support for increasing the role of nuclear energy within the nation’s energy portfolio. In the President’s fiscal year 2009 budget request, DOE stated they are “working with industry partners to promote the near-term licensing and deployment of the first new nuclear plants in over thirty years as well as to extend the life of current plants.”

According to the Energy Information Administration (EIA), the 104 nuclear power plants operating in the U.S. today produce about 20% of the nation’s electricity. While nuclear energy is an attractive option when discussing global warming, the disposal of nuclear waste still poses a concern. A 2002 NRC report estimates that 45,000 metric tons of spent nuclear fuel is stored at nuclear reactor sites around the country. The mandated capacity of Yucca Mountain is 70,000 metric tons. The Nuclear Waste Policy Act of 1982 ensures that Yucca Mountain will be the only site considered as a national repository until 2010 when additional sites may be deemed necessary.

For more information on Yucca Mountain licensing activities at the NRC visit: <http://www.nrc.gov/waste/hlw-disposal/licensing.html>

For DOE’s license application visit: <http://www.nrc.gov/waste/hlw-disposal/yucca-lic-app.html>

Pluto Becomes the First “Plutoid”

On June 11, 2008, the International Astronomical Union (IAU) announced that dwarf planets with near-spherical shapes whose orbits around the sun are beyond the orbit of Neptune will henceforth be known as “plutoids.” At present, Pluto is the only plutoid, but the IAU expects the designation to be bestowed upon more celestial bodies as astronomical discovery progresses. The dwarf planet Ceres shall not be regarded as a plutoid, because its orbit lies between those of Mars and Jupiter.

The IAU first considered the term “pluton” for Pluto-like planets. After receiving input from the geological community, the IAU considered the term “plutonian object.” The term plutoid was finally approved by the organization almost two years after introducing the category of dwarf planets.

Since the early 1900s, the IAU has been responsible for categorizing and naming astronomical entities. Close to 10,000 astronomers from nations all over the world belong to the IAU; it is the largest professional organization for astronomers.

To read the press release publicizing the IAU’s announcement, (http://www.iau.org/public_press/news/release/iau0804/)

Teaching Evolution: State Updates

Louisiana: Governor Bobby Jindal signed the Louisiana Science Education Act, which allows the use of supplementary materials in the teaching of any scientific theory and expressly mentions evolution, origin of life, global warming, and stem cell research as examples of such theories. The bill, which was overwhelmingly passed by the state legislature, is viewed by many as a back-door attempt to allow the teaching of creationism/intelligent design in the science classroom. Although the bill gives the state Board of Elementary and Secondary Education authority to prohibit the use of supplementary materials approved by the local school districts, it does not outline a mechanism for the oversight of these materials.

Arizona: A legislative panel in the state Senate advanced a House measure aimed at protecting religious liberties in the schools. The focus of the legislation is to preserve a student’s right to wear religious clothing and symbols, but a section of the legislation states that, if an assignment requires a student’s viewpoint to be expressed, a public educational institution shall not penalize or reward a student on the basis of religious content. There is concern that this language will open the door for the discussion of creationism in creationism in the science classroom. ■

Daniel C. Huston
Holly Hunter Huston



HUNTER 3-D, Inc.

3-D Seismic Interpretation, Gravity/Magnetics,
Hampson/Russell Inversion / AVO analysis.

Since 1996

6001 Savoy, Suite 110 • Houston, TX 77036
(713) 981-4650

E-mail: hunter3d@wt.net

Website: www.hunter3dinc.com

ENDEAVOR NATURAL GAS, LP

Seeking Drill-Ready Prospects

Texas and Louisiana Gulf Coast
East Texas • North Louisiana

Large working interest and operations
preferred but not required.

Contact: Bruce Houff

(O) 713 658-8555 • (F) 713 658-0715

(Email) [bhough@endeavorgas.com](mailto:bhouff@endeavorgas.com)

1201 Louisiana, Suite 3350 • Houston, Texas 77002



**Geological Society of America and the
Houston Geological Society sponsor
Earth Science Week activities in celebration of
the International Year of Planet Earth
October 11 - 18, 2008**

Annual Family Energy Festival Houston Museum of Natural Science

Saturday, October 11, 2008 11:30pm- 4:00pm

Join us for the annual Family Energy Festival at the Houston Museum of Natural Science celebrating the International Year of Planet Earth. The festival will include hands-on demonstrations, Scout badge activities, and other great programs. Please join us and bring your family and friends!

Cost: Included in the price of the regular museum admissions ticket. No need to sign up ahead of time.

General Information: please contact Martha McRae at: esw@hgs.org

Public Geology Field Trip: High Island, TX

Saturday, October 18, 2008 10:00am-3:00pm

Visit our beach location any time between 10am and 3pm to learn about salt domes, oil, beach processes, and ice age fossils. Birding and shell collecting are abundant. Free and open to public. Children welcome. No facilities. No need to sign up before hand.

General Information: please contact Neal Immega at: n_immega@swbell.net

For all the details on the Family Energy Festival or the High Island Field Trip, visit to the HGS website: <http://www.hgs.org>

Volunteers are needed to help with hands-on activities at the museum and to help with the field trip. If interested, please contact Martha McRae at esw@hgs.org.

For more information about the organizing sponsors and more planned activities occurring through out the year:

<http://www.yearofplanetearth.org>

<http://www.geosociety.org/IYPE>

<http://www.earthsciweek.org/whatisesw/>



1001 Texas Place Names

Submitted by C. E. Revilla at Tom Mather's suggestion

There was enough of a response from members to my book review, *1001 Texas Place Names* (in the March 2007 HGS *Bulletin*), to prompt my contacting the author regarding the book's availability. Dr. Tarpley replied that "the volume was a best seller for several years, and then the publisher let it go out of print. I reprinted it myself and have copies available for \$10.00, including shipping."

If HGS members wish to order the book, a written request together with \$10.00 for each copy ordered (no cash), should be sent to:

Dr. Fred Tarpley, Prof. Emeritus of Literature and Languages
Texas A & M University – Commerce
4540 FM 1568, Campbell, TX 75422

I have found that the book is not only a particularly good addition to my own reference library; it also is a good gift to Texans and others. Half of the 10 copies that I bought are already gone.

Note: Dr. Tarpley is a very busy man, but he attended to my request without undue delay. ■

Vendor Corner Recognition and Thanks

The Houston Geological Society would like to recognize and thank its many vendors who demonstrated their financial support of the HGS and its programs by providing "vendor corners" during last year's many evening technical meetings. These are the folks who provide poster session displays of their company's products, studies, or services. These poster displays provided a great focal point during the social hour for the meeting attendees. The cost to the participating companies is not cheap and the fees they pay are donated to the HGS Scholarship Fund (undergraduate) and the HGS Student Membership Initiative. Make sure that you visit their booths, and thank them, when you see them at our meetings.

The HGS would like to thank the following:

AOA Geophysics – Dan McConnell

E Seis – Shawn Porche

ION Geo – Menno Dinkelman

SeaBird Exploration – Brian Anderson

Aramco Services Company – Sergio Martinez

*Fugro Robertson Inc. – Dave Schwartz

*Knowledge Reservoirs LP – Lee Shelton

*TGS-NOPEC – John Adamick

CGG Veritas – Mike Bertness

*GeoKnowledge – Phil Conway

Micro-Strat Inc. – Walt Wornadt

** These vendors hosted more than one vendor corner*

If you would like to host a Vendor Corner during the upcoming 2008-2009 HGS year, please contact Paul Babcock at 832-242-9650 or paul.babcock@nfrenergy.com.



Contract and Full Time Exploration and Production Staff
Geoscience, Management, Reservoir Engineers, Landmen,
Information Technology, Production

We can provide you with the RIGHT people with the RIGHT skills and the RIGHT experience at the RIGHT price, time and location!
Why spend all your scarce management time looking for staff when we can do it for you? Founded in 1999, GeoExperts is staffed and led by E&P professionals with decades of experience in the worldwide oil industry

Tel: 713-953-0823, ext. 13, Fax: 713-2953-1642
(we also have offices in Canada, London and West Africa)
www.geoexperts.com



Kevin J. McMichael

First City Tower
1001 Fannin, Suite 777
Houston, TX 77002
713-655-9700
Fax 713-655-9709
kmcmichael@claymoreexpl.com

JOB OPPORTUNITY

An Independent E&P Company having affiliates actively engaged in petroleum exploration operations in North America, Africa, Central Asia, Middle East and Far East is seeking experienced geoscientists. The Group has offices in USA, Europe, Middle East and Asia. The selected candidates will be based in Houston, Texas. Job duties include interpretation of Gulf of Mexico 3-D seismic data and prospect generation for drilling and review and evaluation of 2-D and 3-D seismic data for joint ventures in Gulf Coast Region.

The applicant must have 5+ years offshore Gulf of Mexico experience and knowledge of latest geophysical methods and tools. Desired qualification is a degree in geology or geophysics.

Salary is competitive with excellent package of benefits including overrides and a chance to share in success of the Company.

Send resume to: hrop123@yahoo.com

Tauber Exploration & Production Co.

Seeking Ready to Drill Prospects

Texas and Louisiana Gulf Coast

Contact: Tim Tade or David Voight

(O) 713-869-5656 (F) 713-869-1997

55 Waugh Drive, Suite 601 • Houston, Texas 77007



**PALEO
DATA**

**FULLY INTEGRATED AND
CENTRALIZED BIOSTRATIGRAPHIC
SERVICES**

- ▼ Single-source biostratigraphic databases
for increased accuracy and consistency
- ▼ Integrated foram / nannofossil analyses
- ▼ Complete wellsite paleo services
- ▼ In-house sample preparation
lab for quality-monitoring
and efficiency
- ▼ Sample pick-up service

6619 Fleur de Lis Drive
New Orleans, LA 70124
(504) 488-3711

www.paleodata.com

Gulf Coast Association of Geological Societies TRANSACTIONS are now available on a single DVD.

This disk includes a fully searchable archive of the Transactions from the first meeting in 1951 through the recent conventions. It replaces the set of CDs that were previously available, updates through the more recent meetings (the CDs covered 1951 through 2003) and utilizes current search software. The DVD is available through the GCAGS Bookstore at the Bureau of Economic Geology or through AAPG-Datapages — purchase and contact information below.

The purchase price of the DVD is \$250.00, but for holders of the old CD set, a major discount is available if the DVD is purchased through Datapages (note — special discount NOT available through the Bureau of Economic Geology). If you send in a 1998 or 2001 Master Disc, your cost for the DVD is \$75.00. If you had the latest version of the CD set, send in the 2003 Master Disc and the DVD is free!

Order from GCAGS Bookstore:

Visit the BEG Bookstore web site for order forms and instructions at
<http://www.beg.utexas.edu/mainweb/publications/pubs-toorder.htm>

Order from AAPG-Datapages:

e-mail - aapgdata@aapg.org • phone - (918) 560-9423 • fax - (918) 560-9418 • mail - AAPG/Datapages, 1444
South Boulder Ave., Tulsa, OK 74119
or **P.O. Box 979, Tulsa, OK 74101**

Remembrances

LINDA ANNE LEWIS EWING

LINDA ANNE LEWIS EWING passed away on June 27th, 2008 at the age of 60. Linda was born in Dallas and attended Trinity University. At Trinity, she found geology as a profession, then finished her degree in 1971 at New Mexico Institute of Mining and Technology in Socorro. She then worked in Houston, first for Conoco, then for Mobil Oil where she trained as a geophysicist and explored the Gulf of Mexico for oil and gas. After working at Mesa Petroleum for a short while, she returned to San Antonio in 1980 and a year later 'set out her shingle' as a consulting geophysicist.

With her husband Dr. Thomas E Ewing, they built Frontera Exploration Consultants, and hosted one of the first computer seismic workstations in San Antonio. Memorials may be sent to the Hill Country Youth Ranch (POB 67, Ingram, Texas 78025-9986), or to the charity of your choice.

W. L. "BILL" TIDWELL

W. L. "BILL" TIDWELL died June 28, 2008 in Houston at the age of 81. A WWII veteran, he proudly served our country in the Army Air Corps. As a geologist, his career spanned many years in the world-wide petroleum industry. Memorials contributions may be made to the LSU Foundation Geology Field Camp Fund and mailed to Anne Marie Marmande, E-240 Howe Russell, LSU, Baton Rouge, LA 70803.

CHARLES EUGENE "GENE" TROWBRIDGE

CHARLES EUGENE "GENE" TROWBRIDGE died June 27, 2008 in Houston. Born in Billings, Montana on December 17, 1924, Gene served as a Sergeant in the Army Combat Engineers in World War II serving in Europe and the Philippines. Following the war, he returned to school at the University of Oklahoma, earning a degree in geological engineering. He began his career as a geologist in the oil and gas industry with Stanolind Oil & Gas in southern Louisiana. In 1955, he moved to Houston where he worked for F. A. Callary Inc., eventually becoming an independent consulting geologist.

He specialized in oil and gas producing formations along the Gulf Coast and truly loved the hunt for this precious resource. He was a member of the American Association of Petroleum Geologists, Society of Independent Professional Earth Scientists, and American Institute of Professional Geologists. He also was very active in the Houston Geological Society, serving as an Executive Committeeman from 1978 to 1980. Following his retirement in the early 1990s, Gene remained active in the oil and gas industry through his involvement with the Pioneer Oil Producers (POPs). Memorial donations may be made to Boy Scout Troop 673, c/o St. Cecilia's Catholic Church, 11720 Joan of Arc, Houston, Texas 77024.

ALBERT DAVID (A.D.) WARREN

A.D. WARREN died Monday, May 19, 2008. He was 79. A.D. enjoyed a distinguished career as a micropaleontologist and was an Honorary Member of NAMS. The "A.D. Warren/R.M. Kleinpell Collection" is an important set of slides documenting foraminifera, calcareous nannofossils, and silicoflagellates stored at the University of California Museum of Paleontology (http://www.ucmp.berkeley.edu/science/microfossil_colls.php).

During his long career, A.D. worked for ARCO, Mobil, and as a principal of the Anderson Warren Wilcoxin Consultancy. He was a graduate of LSU and was very proud of his service to his country in the U.S. Marines. Memorial remembrances may be made to the San Diego Natural History Museum, Department of Paleontology, P.O. Box 121390, San Diego, CA 92112-1390, www.sdnhm.org.

2007–2008–2009

Celebrating the International Year of Planet Earth



Hosted by the
Houston Geological Society



The International Year of Planet Earth (IYPE) is a global initiative of the International Union of Geological Sciences (IUGS) and the United Nations Educational, Scientific, and Cultural Organization (UNESCO). IYPE aims to ensure wider use of the knowledge accumulated by the world's earth scientists. The goal of the Year is to recognize and draw attention to the benefits of the earth sciences for society.

The United Nations proclaimed the year 2008 as the official International Year of Planet Earth with science and outreach activities spanning 2007–2009. The IYPE initiative is the largest international effort of its kind to promote the earth sciences. Education and outreach themes during the year include: human health and the environment, ocean and natural resource sustainability, mitigating hazards and community resilience, and effects of climate change.

GOALS OF THE YEAR ARE:

- ♦ Reduce risks to society caused by natural and human-induced hazards
- ♦ Reduce health problems by improving the understanding of the medical aspects of earth science
- ♦ Discover new natural resources and make available in a sustainable manner
- ♦ Build safer structures and expand urban areas utilizing natural subsurface conditions
- ♦ Determine the non-human factors in climatic change
- ♦ Enhance the understanding of occurrences of natural resources in order to contribute to efforts to reduce political tension
- ♦ Detect deep and poorly accessible ground-water resources
- ♦ Improve the understanding of the evolution of life
- ♦ Increase interest in the earth sciences in society at large
- ♦ Encourage more young people to study the earth sciences at universities

IYPE—JOINT MEETING EVENTS:

GSA—GCAGS

Forum for Teachers: Teaching Evolution
Saturday, 4 October

Joint Plenary Session:

The Impending Global Water Crisis
Sunday, 5 October

All Conference Luncheon:

Former Apollo Astronaut and U.S. Senator
Harrison "Jack" Schmitt
Questions about the Earth
the Moon told us to ask
Monday, 6 October

GSA

Public Forum: Understanding Evolution
George R. Brown Convention Center
Tuesday, 7 October

HGS—GSA

Earth Science Week: Family Energy Festival
Houston Museum of Natural Science
Saturday, 11 October

HGS

Earth Science Week: Geology Field Trip
Houston Museum of Natural Science
Saturday, 18 October



The Geological Society of America



Soil Science Society of America



American Society of Agronomy



Crop Science Society of America



Gulf Coast Association of
Geological Societies with the
Gulf Coast Section SEPM

ATTENTION!!!! ALL NEW GEOLOGISTS

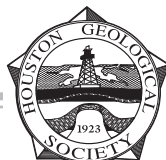
GEOSCIENCE DAY • THURSDAY OCT 23

**Everything You Need to Know about Finding Oil and the Life of a Field
in Just 1 Day
(Seismic/Exploration/Lease Sales/Drilling/Wildcats/Development)**

Held at the Bureau of Economic Geology (BEG) Houston Research Center
See the October HGS Bulletin or www.hgs.org for details



Bellville students display the USGS Tapestry of Time and Terrain geologic map of the United States presented to their school by the HGS. Jeff Spencer delivered several maps to Bellville as part of the HGS – Maps in School project.



**Full Color Ads
Now Available!**

HGS Bulletin Instructions to Authors

All materials are due by the 15th of the month, 6 weeks before issue publication. Abstracts should be 500 words or less; extended abstracts up to 1000 words; articles can be any length but brevity is preferred as we have a physical page limit within our current publishing contract. All submissions are subject to editorial review and revision.

Text should be submitted by email as an attached text or Word file or on a clearly labeled diskette in Word format with a hardcopy printout to the Editor.

Figures, maps, diagrams, etc., should be digital files using Adobe Illustrator, Canvas or CorelDraw. Files should be saved and submitted in .eps (Adobe Illustrator) format. Send them as separate attachments via email or CD if they are larger than 1 MEG each, accompanied by figure captions that include the file name of the desired image. DO NOT EMBED them into your text document; they must be sent as separate files from the text. DO NOT USE POWERPOINT, CLIP ART or Internet images (72-DPI resolution) as these do not have adequate resolution for the printed page and cannot be accepted. All digital files must have 300-DPI resolution or greater at the approximate size the figure will be printed.

Photographs may be digital or hard copy. Hard copies must be printed on glossy paper with the author's name, photo or figure number and caption on the back. Digital files must be submitted in .jpg or .eps format with 300-DPI or greater resolution at the printing size and be accompanied by figure captions that are linked by the file name of the image. The images should be submitted as individual email attachments (if less than 1 MB) or on CD or zip disk.

Advertising

The *Bulletin* is printed digitally using QuarkXPress. We no longer use negatives or camera-ready advertising material. Call the HGS office for availability of ad space and for digital guidelines and necessary forms or email to ads@hgs.org. Advertising is accepted on a space-available basis. **Deadline for submitting material is 6 weeks prior to the first of the month in which the ad appears.**

Random Inside (Black & White)					Page 2 (B&W)	Inside Front Cover (Full Color)	Inside Back Cover (Full Color)	Outside Back Cover (Full Color)	Calendar Back (Full Color)	Calendar Page (Full Color)
No. of Issues	Random* Eighth	Random* Quarter	Random* Half	Random* Full	Full	Full	Full	Half	Full	Quarter
10	\$823	\$1,387	\$2,488	\$4,734	\$5,680	\$7,830	\$7,560	\$6,858	\$6,750	\$2,700
9	\$823	\$1,387	\$2,488	\$4,734	\$5,680					
8	\$750	\$1,260	\$2,242	\$4,307	\$5,169					
7	\$665	\$1,123	\$2,014	\$3,834	\$4,600					
6	\$590	\$990	\$1,782	\$3,392	\$4,069					\$1,890
5	\$497	\$837	\$1,503	\$2,860	\$3,432	\$4,698	\$4,536	\$4,104		
4	\$405	\$683	\$1,223	\$2,326	\$2,792					
3	\$327	\$550	\$990	\$1,886	\$2,262					\$1,080
2	\$232	\$392	\$704	\$1,339	\$1,607					
1	\$146	\$246	\$443	\$842	\$1,010	\$1,404	\$1,296	\$1,080		\$810
FULL COLOR AD * add 30% to B&W charge for full (4) color ad						BUSINESS CARD \$135 per 10 Issues – Send two cards (\$30 for each additional name on same card)				

Be a web page Sponsor

Effective May 4, 2008 you can now have your company logo picture posted on every page (including Calendar, Articles, Events, JobBank, etc.) of the Website and not just the Entry page like it was before the redesign. To have an ad posted, you must provide us with the graphic and give us the URL it should link to when clicked.

All ads appear in the "Our Sponsors" box in the upper left of the page. Each ad is displayed for a short time and replaced by the next ad in the list. Each ad will be randomly displayed on each page.

All Sponsor logo images must be 55 x 166 pixels and be no more than 8 bits per pixel with a maximum of 256 colors. The format can be either GIF or JPG, preferably interlaced or progressive. It is important to make the image file size as small as possible so that it will transfer to the users' browser quickly.

	Home Page Logo 165x55	Website Business Card (with link)	Web and Bulletin Business Card	Newsletter Sponsor Banner Ad (with link)	Personal Resumes (Members only)	GeoJobBank Posting
One year	\$1000.00	Free to members	\$135.00	\$2000.00	\$2,000.00	
6 months	\$525.00	Free to members	NA	\$1200.00	\$1,150.00	
3 months	\$270.00	Free to members	NA	\$650.00	\$600.00	
1 month	NA	Free to members	NA	\$250.00	Free	\$100.00



Application to Become a Member of the Houston Geological Society

Qualifications for Active Membership

- 1) Have a degree in geology or an allied geoscience from an accredited college or university; or
- 2) Have a degree in science or engineering from an accredited college or university and have been engaged in the professional study or practice of earth science for at least five (5) years.

Qualifications for Associate Membership (including students)

- 1) Be involved in the application of the earth or allied sciences.
- 2) Be a full-time student enrolled in geology or in the related sciences.

Apply online at www.hgs.org and click on Join HGS

*Annual Dues Expire Each June 30. (Late renewals – \$5 re-instatement fee)
Annual dues are \$24.00; full-time students and emeritus members pay \$12.00.*

Mail this application and payment to:

Houston Geological Society

14811 St. Mary's Lane, Suite 250 • Houston, TX 77079-2916

Telephone: 713-463-9476 Fax: 281-679-5504

Payment method:

☐ Check, ☐ VISA, ☐ MasterCard, ☐ American Express, ☐ Discover
Card # _____

Expiration Date: _____ Card I.D. _____
(Card I.D. – 3 or 4 digit number on front or back of card)

To the Executive Board: I hereby apply for ☐ Active or ☐ Associate membership in the Houston Geological Society and pledge to abide by its Constitution and Bylaws. ☐ Check here if a full-time student.

Name: _____
Address: _____

School _____
Degree _____ Major _____ Year _____

Home Phone: _____ Spouse's Name: _____
Email: _____

School _____
Degree _____ Major _____ Year _____

Job Title: _____

Company: _____

Company Address: _____

Earth Science Work Experience _____

Work Phone: _____ Fax Number: _____

Circle Preferred Mailing Address: Home Office

Professional Affiliations: _____

☐ AAPG member No.: _____

Applicant's Signature _____ Date _____

Endorsement by HGS member (not required if active AAPG member)

Professional Interest: _____

☐ Environmental Geology ☐ North American E&P (other than Gulf Coast)

☐ International E&P ☐ Gulf Coast E&P (onshore & offshore)

Name: _____

Signature _____ Date _____

Membership Chairman _____ HGS Secretary _____

Houston Geological Auxiliary/Houston Petroleum Auxiliary Council News

Norma Jean Jones, HGS Liaison

Summer is over, vacations are done, children are back in school, and it is time to get back to "business as usual." Our first HGA/HPAC event will be a "Getting to Know You" brunch at the Lakeside Country Club with entertainment by Pat Austin and her "Classic Jazz" ensemble. Co-Chairing this event are Page Moore and Sheri McQuinn. We are looking forward to some good food, good music, and great company. We hope YOU will join us.

The Geo Wives Executive Board met in the home of Geo Wives President, Sara Parr, in late July to discuss 2008-2009 business and programs. More information regarding Geo Wives will be forthcoming.

The following is the complete list of inaugural officers for HGA/HPAC year 2008-2009. This should prove to be a very exciting and challenging year for the Board and every member.

President: Phyllis Carter, *Petroleum Engineers*

1st Vice President: Millie Tonn, *Geological*

2nd Vice President: Nan Pye, *Geophysical*

Secretary: Paulette Williams, *Petroleum Engineers*

Co-Treasurers: Wanda Shaw and Holly Dodds, *Landmen*

Editor: Lois Matuszak, *Geological*

Parliamentarian: Sherry McQuinn, *Landmen*

Executive Board: Norma Jean Jones, *HGS Liaison*

Maxine Hillman, *SPE Liaison*

Donna Parrish, *GSH Liaison*

Sheri McQuinn, *HAPL Liaison*

Committee Co-Chairs:

Hospitality: Carol Ann Gold and Sue Currie, *Petroleum Engineers*

Notification: Barbara Peck and Barbara Dorsey, *Petroleum Engineers*

Sincere appreciation and thanks go to Winona LaBrandt Smith and Edie Bishop who worked diligently to bring about this integration of the Petroleum Auxiliaries. Winona and Edie began in 2006 to bring together representatives from every Petroleum Auxiliary to find a way and unify all of the groups into one organization under a new title while preserving the purposes for which each was formed.

In line with the original purpose of HGA (to assist HGS in any manner they shall request), I would like to remind you that for the first time there will be a joint GSA-GCAGS Convention held October 5 – 9, 2008, in Houston at the George R. Brown Convention Center. Volunteers will be needed in the Hospitality Room, so if you have a few hours you would like to dedicate to this effort, please call Co-Chair of Guest Activities, Sally Blackhall @ 281-370-7807. It's always fun and rewarding to be part of the Hospitality Room crew.

If you have not joined HGA/HPAC, please complete the Membership form in this *Bulletin* and send it in with your check made out to HPAC. ■

You are invited to become a member of

HGA/HPAC

2008–2009 dues are \$20.00

Mail dues payment along with the completed yearbook information to **Nan Pye**, 18219 Longmoor, Houston, TX 77084

YEARBOOK INFORMATION

Last Name	First Name	Name Tag
Spouse Name	Name Tag	HGS Member's Company
Home Phone	Business Phone	Business Fax
Street Address	City	Zip
Email Address	Home Fax	

Please choose a Committee Assignment

- | | | | |
|--|---------------------------------------|---------------------------------------|-------------------------------------|
| <input type="checkbox"/> Fall Event | <input type="checkbox"/> Yearbook | <input type="checkbox"/> SOS | <input type="checkbox"/> Membership |
| <input type="checkbox"/> Christmas Event | <input type="checkbox"/> Spring Event | <input type="checkbox"/> Notification | <input type="checkbox"/> Game Day |
| | <input type="checkbox"/> May Luncheon | <input type="checkbox"/> Courtesy | |

Professional Directory

SED-STRAT Geoscience Consultants, Inc *Play Concepts, Stratigraphic Traps, Clastic Sequence and Seismic Stratigraphy, Clastic Reservoirs, Basin Analysis.*

George Devries Klein, PhD

TX Registered Geologist #440

AAPG-DPA Certified Petroleum Geologist #5662

17424 W. Grand Pkwy: Suite 127 (281) 937-9436
Sugar Land, TX, 77479-2564 FAX: (281) 937-9456
E-mail: gdkgeo@earthlink.net

FUGRO GEOSCIENCE DIVISION

Fugro Robertson, Inc.
6100 Hillcroft, 5th Floor (77081)
P.O. Box 740010
Houston, TX 77274
Direct: 713-369-6122
Main: 713-369-6100
Fax: 713-369-6110
Email: lplant@fugro.com
Web Site: www.fugro-robertson.com



LUCY PLANT
Business Development Manager
Americas, Geologist



EL DORADO LOG & MAP SERVICE OIL FIELD REPRODUCTIONS

Maps, Electric Logs, Drillers Logs, Transcripts, Production, etc.

Phone (870) 862-2099
Cell (870) 310-1618
Fax (870) 862-2913

E-mail: sales@eldoradologandmap.com

DIANN HAILE

Website: http://eldoradologandmap.com



109 Trinca Ave.
El Dorado, AR 71730

FUGRO GEOSCIENCE DIVISION

Fugro Robertson Inc.
6100 Hillcroft, 5th Floor (77081)
P.O. Box 740010
Houston, Texas 77274
Direct: 713-369-6064
Main: 713-369-6100
Fax: 713-369-6110
Email: dschwartz@fugro.com
Website: www.fugro-ict.com



DAVID SCHWARTZ
Vice President of Marketing



John Burton
Executive Director

3300 South Gessner #120
Houston, Texas 77063
U.S.A.: 713-953-0823 ext. 13
Fax: 713-953-1642
Cell: 832-647-7356
E-mail: jpsbgeol@aol.com



4 Houston Center
1331 Lamar Suite 1265
Houston, TX 77010
713-751-0500
www.seisnetics.com

Providing automated pre-interpretation of 3D seismic volumes based on a patented methodology utilizing Genetic Algorithms.

Rose & Associates

Gary P. Citron, Ph.D.
Managing Partner
garycitron@roseassoc.com

4203 Yoakum Blvd., Suite 320
Houston, TX 77006
United States of America
713-528-8422
713-528-8428 fax
www.roseassoc.com

Transferring E & P Risk Assessment Expertise
Instruction • Software Tools • Practical Consulting



Steve H. Hill
Exploration Manager

1706 Seamist
Suite 590
Houston, Texas 77008
713-880-4343 office
713-880-1553 fax
713-248-3634 cell
STEVE.HILL@LSDECKER.COM



Robert D. Perez
Business Development Manager

12603 Southwest Freeway Suite 600, Stafford, Texas 77477
t: 281.240.1234 f: 281.240.4997 c: 281.787.2106
h: 281.495.8695 e: r_perez@seismicventures.com



LOYD TUTTLE PALEO CONTROL, INC.

MICROPALAEONTOLOGY PALEOECOLOGY



P.O. BOX 41751
HOUSTON, TEXAS 77241-1751
OFFICE 713-849-0044 RESIDENCE 713-466-7922

1390 Main Street
Post Office Box 81
Montara CA 94037-0081
650.728.3373
Facsimile and E-mail:
by request

VICTOR H. ABADIE III
CONSULTING GEOLOGIST

CERTIFIED PETROLEUM GEOLOGIST, AAPG, NO. 3836
SOCIETY OF INDEPENDENT PROFESSIONAL EARTH SCIENTISTS, NO. 2085
CALIFORNIA REGISTERED GEOLOGIST, LIC. NO. 4040
TEXAS REGISTERED GEOLOGIST, LIC. NO. 1843

JEFFREY J. DRAVIS, Ph. D.

Applied Carbonate Geology
Regional Play Evaluation
Core Studies • Reservoir Zonation
Depositional Models • Porosity Evolution
In-House and Field Carbonate Seminars
WEBSITE: www.dravisinterests.com
(713) 667-9844

TRANGO TECHNOLOGIES INC.



6100 Hillcroft, 5th Floor (77081)
P.O. Box 740010
Houston, Texas 77274
Main: 713-369-6100
Direct: 713-369-6139
Cell: 832-797-8858
Fax: 713-369-6110
E-mail: scathro@fugro.com
Website: www.trangotech.com

STEWART CATHRO
manager
business development

Where is your card?
\$135 per year
10 issues
713-463-9476



Eriksfiord Inc



Chuck Segrest
Partner
Technical Sales

Houston, Texas
281-358-2662

www.geosystemsllp.com

Rock-based Formation Evaluation for Improved
Production of Oil and Gas

Dennis Calloway
General Manager, Business Development
direct: 936.521.2420
cell: 832.563.0280
dennis@petrospec-technologies.com



Petrospec Technologies

main: 936.441.7780
fax: 936.788.7778
www.petrospec-technologies.com

409 N Loop 336 W, #4
Conroe, TX
77301 - 1238


ENERGY PROFESSIONAL SEARCH













SOFIA CAMPBELL
EXECUTIVE RECRUITER

BELLAIRE, TX
SOFIA.CAMPBELL@COMCAST.NET

OFFICE: 713-668-5406
MOBILE: 713-443-4436

<p>PCI</p> <p>BOB LISKA PALEO CONTROL, INC.</p> <p>WILCOX & Lower Tertiary BIOSTRATIGRAPHY</p>  <p>7706 Green Lawn Drive, Houston TX 77088 Ph 281-847-0922 rliska@hal-pc.org</p>	<p> THUNDER EXPLORATION, INC. </p> <p>WALTER S. LIGHT, JR. PRESIDENTE GEOLOGO - PETROLERO</p> <p>P.O. BOX 541674 CELLULAR: 713.823.8288 HOUSTON, TEXAS 77254-1674 TELÉFONO: 713.529.2233 EMAIL: wtthunder@aol.com FAX: 713.522.4829</p>	<p></p> <p>FUGRO AIRBORNE SURVEYS CORP.</p> <p>6100 Hillcroft, Suite 115 (77081) P.O. Box 740010 Houston, Texas 77274 Direct : 713-369-6121 Main : 713-369-6123 Fax : 713-369-6110 Cell : 713-818-5857 Email : jrowe@fugro.com Web Site : www.fugroairborne.com</p> <p>JEFFREY D. ROWE Vice President General Manager Senior Geophysicist</p>
<p>ROGER MORTON GEOPHYSICAL CONSULTANT <i>SEISMIC INTERPRETATION DOMESTIC/FOREIGN/2D/3D</i></p> <p>PROFESSIONAL REAL ESTATE INSPECTOR TREC #5133 <i>RESIDENTIAL/COMMERCIAL NEW/OLD</i></p> <p>OFFICE: (281) 370-3770 CELL: (281) 221-3419 FAX: (281) 370-4369 E-mail: inspectorm@aol.com www.roger-morton.com</p>	<p> GeoCenter</p> <p>16800 Greenspoint Park Drive • Suite 100S Houston, Texas 77060-2300</p> <p>Sales Norm Stager Dave Spaulding William Zepeda</p> <p>Seismic Data Processing SeisUP® Systems Telephone (281) 443-8150 Fax (281) 443-8010 sales@GeoCenter.com</p>	<p>Nortex Corporation Established in 1957</p> <p>Robert W. Kent Executive Vice President Land and Acquisitions</p> <p>1415 Louisiana Street Bus: 713-658-1142 x311 Suite 3100 Fax: 713-658-0739 Houston, Texas 77002 Email: rwkentog@aol.com</p>
<p>EXTERRA GeoScience Ltd. <i>Dipmeter and Borehole Imaging Specialists</i></p> <p>Eric F. Paauwe</p> <p>One Cornerstone Plaza Ph. 832-484-9200 3845 FM 1960 W Suite 305 Fax. 832-484-9201 Houston, TX 77068 eric@exterraltld.com</p>	<p>JAMES M. NORRIS CERTIFIED PETROLEUM GEOLOGIST</p> <p>Field Studies/Field Value Enhancement Property Purchase Evaluations Workover/Drilling Recommendations</p> <p>5222 Applevale Court Kingwood, Texas 77345 (281)-361-5981 jmnor@aol.com</p>	<p> RUSSIA</p> <p>OIL AND GAS CONSULTANTS LEE BUSE – LEONID MENDELEVICH Geologist and Reservoir Engineer/Petrophysicist G&G MAPPING, RESERVES CALCULATIONS, LIASE WITH GKZ (CENTRAL COMMISSION ON RESERVES) AND MINISTRY OF NATURAL RESOURCES, PROJECT MANAGEMENT AND MORE</p> <p>Phone: (512) 847-6334 Email: canneft@aol.com</p>
<p>BILL KALIL</p> <p></p> <p>INDEPENDENT PETROLEUM GEOLOGIST</p> <p>P.O. BOX 1781 MIDLAND, TEXAS 79702 billkalil@juno.com</p> <p>PHONE FAX CELL (432) 683-0990 (432) 683-0992 (432) 967-0056</p>	<p>ENERGY CAREERS Delivering Worldwide Recruiting Solutions</p> <p>Stephen Preng President</p> <p>2925 Briar Park, Suite 1111 tel: (713) 335-5400 Houston, Texas 77042 mob. (832) 259-8524 www.energycareers.com spreng@energycareers.com</p>	<p>TRRC Expert Witness</p> <p>W.N. (Mac) McKinney, Jr. <i>Certified Petroleum Geologist</i> AAPG CERT # 2586 AIPG CERT # 6275 SIPES # 2651</p> <p>3130 W. Benders Landing Blvd. Phone/Fax (281) 353-0661 Spring, TX 77386 wmckinney@houston.rr.com</p>
<p> SeaBird Exploration</p> <p>Brian Anderson Vice President of Sales</p> <p>SeaBird Exploration Americas Telephone: +1-281-556-1666 1155 N. Dairy Ashford, Ste. 206 Mobile: +1-713-252-4680 Houston, TX 77079 USA Fax: +1-281-556-5315 www.sbxexp.com Brian.Anderson@sbxexp.com</p>	<p>LYNX PRODUCTION CO., INC.</p> <p>LEE HIGGINS Vice President, Exploration and Development</p> <p>2100 Ross, Suite 860, Lock Box 52 • Dallas, TX 75201 (214) 969-5555 Ext 108 Fax (214) 954-0725 lee@lynxco.biz</p>	<p> manzanita TECHNICAL</p> <p>281.560.3010</p>
<p>John D. Howell, Consulting Geologist P. G., CPG</p> <ul style="list-style-type: none"> Well Site—Centrally Located in NE Texas (Microscope and UV Box Equipment) Office—Yours or Mine 20 + Years Experience (Regional Studies, Field Studies, Trend Analysis, Prospect Generation, Submittal Evaluation) <p>715 CR 2914 Hughes Springs, Texas 75656-6128 903.748.8103 Cell 903.639.3113 Home JDHtoilgas@aol.com</p>	<p> SIPES Houston Chapter</p> <p><i>Society of Independent Professional Earth Scientists</i></p> <p>Certification for Oil & Gas Independents Cutting edge technical & industry related presentations Network with Prospect and Production Buyers and Sellers www.sipes-houston.org or 713 651-1639 for info</p>	<p><i>Wavefront LLC Oil & Gas Consultation since 1996</i></p> <p>Steven "Eric" Getz <i>IT Support Consultation (Geophysical & Geological)</i></p> <p>Network, Workstation, and Software Support Seismic Data Loading Seismic Modeling Synthetic Seismogram Construction</p> <p>(713) 305-5089 SMT Expert EricGetz@EricGetz.com Microsoft Certified</p>
<p> Cossey & Associates Inc. geoconsulting</p> <p>P.O. Box 1510 Durango, CO 81302, U.S.A. phone/fax: +1 (970) 385-4800 e-mail: cosseygeo@aol.com web page: www.cosseygeo.com</p> <p>Steve Cossey Chief Geoscientist</p> <p>Specializing in Deepwater Clastics:</p> <ul style="list-style-type: none"> - Reservoir modeling - Analogue Studies - Field Courses - Databases <p>Nov 2003</p>	<p>Seismotech</p> <p><i>Geophysical/Petrophysical Exploration Services</i> Specializing in solving seismic modeling, imaging, processing, and acquisition problems</p> <p>Joseph M. Mills, Jr., Ph. D.</p> <p>http://www.seismotech.com/ 205 Hillcrest Drive Alvin, Texas 77511-5209 email: joseph.mills@seismotech.com phone: (281) 334-7905</p>	<p> RCL SYSTEMS</p> <p>Royce Landman</p> <p>(281) 240-2777 • FAX (281) 240-0043 Toll Free: (800) 758-1771 Email: rcl@rcl.com • http://www.rcl.com</p> <p>Geophysical Workstations • Hardware/Software LAN'S • Systems Analysis • Custom Programming</p>

 <p>ALAN FOLEY 3311 RICHMOND SUITE 227 HOUSTON TX 77098</p> <p>PHONE: +1(713) 526 6332 EMAIL: alan.foley@bgtl.com.au www.bgtl.com.au</p>	<p>CLASSEN EXPLORATION, INC.</p>  <p>JAMES S. CLASSEN <i>Looking for close-in deals</i></p> <p>BUS. 208-854-1037 RES. 208-854-1038 FAX. 208-854-1029</p> <p>P.O. BOX 140637 BOISE, ID 83714</p>	<p>THE MUDLOGGING COMPANY USA, LP 6741 Satsuma Drive Houston, TX 77041</p>  <p>DIRECT: 832-204-6604 MAIN: 713-466-7400 CELL: 713-252-3526 FAX: 713-466-7595 dougk@mudloggingco.com</p> <p>DOUG KNEIS General Partner</p>
<p>BSE</p> <p>JAMES B. BENNETT RANDALL SCHOTT Geology Geophysics</p> <p>811 Dallas Suite 1020 Houston, Texas 77002</p> <p>Bus. (713)650-1378</p>	<p>ARK-LA-TEX LOG LIBRARY 400 TRAVIS, SUITE 500 • SHREVEPORT, LA 71101-3113 (318) 227-1641 • FAX (318) 227-1642 WWW.ARKLATLEXLOGLIBRARY.COM</p> <p>ELECTRIC LOG AND COMPLETION CARD COVERAGE: LOUISIANA • EAST TEXAS • MISSISSIPPI • SOUTHERN ARKANSAS SOUTHEASTERN STATES</p> <ul style="list-style-type: none"> • PRIVATE WORK ROOMS • LOG & MAP COPIER • IHS/DWIGHTS - CD/ROMS PRODUCTION DATA • COMPUTERIZED LOG DATA BASE • CALL IN OR FAX DATA RETRIEVAL SERVICE • EXTENSIVE INDUSTRY REFERENCE & TECHNICAL MATERIAL • BAR CODED CHECKIN/OUT <p>CALL FOR INFORMATION ON CORPORATE AND INDIVIDUAL MEMBERSHIPS OR DAILY USER RATES MARILYN KILBOURNE, MANAGER</p>	<p>SHANNON EXPLORATION Remote Sensor Interpretation, Processing, and CAD</p>  <p>Patrick J. Shannon</p> <p>9800 Richmond Ave., Suite 352 Houston, Texas 77042 Tel: (713) 785-2599 Email: shannonexplor@msn.com</p>
<p>Integrated Seismic Interpretation</p> <p>Joel Watkins Tel: 979-255-3041 Email: joelwatkins@aol.com</p>	<p>David T. King, Jr., Ph.D., P.G. Sedimentary geologist</p> <p>Sedimentary Petrology LLC Petrographic thin-section analysis and interpretation</p> <p>P.O. Box 2049, Auburn, AL 36831 kingdat @ auburn.edu / 334 559 2451 www.auburn.edu/~kingdat</p>	<p>Daniel C. Huston Holly Hunter Huston</p>  <p>HUNTER 3-D 3-D Seismic Interpretation, FTG Gravity Modeling, Seismic Inversion and AVO analysis</p> <p>6001 Savoy, Suite 110 • Houston, Texas 77036 (713) 981-4650 • (281) 242-0639 E-mail: hunter3d@wt.net Website: www.hunter3dinc.com</p>
<p>COLLARINI Collarini Associates</p> <p>Nicholas Ver Hey President</p> <p>4200 South I-10 Service Road • Suite 230 11111 Richmond Avenue • Suite 126 Metairie, Louisiana 70001 Houston, Texas 77082 Tel. (504) 887-7127 Tel. (832) 251-0160 Fax (504) 887-7162 Fax (832) 251-0157 nverhey@collarini.com</p> <p><i>Petroleum Engineers & Geoscientists</i></p>	<p>MICRO-STRAT INC.</p> <p>Seismic Sequence Stratigraphic Analysis High Resolution Biostratigraphy Field Reservoir Sequence Stratigraphic Analysis MFS and Sequence Stratigraphy Courses</p>  <p>Gulf of Mexico • West and East Africa • South and Central America • Egypt • China</p> <p>Walter W. Wornardt, Ph.D. CEO & President</p> <p>5755 Bonhomme, Suite 406 Houston, TX 77036-2013 E-mail: msw@micro-strat.com Off: 713-977-2120, Fax: 713-977-7884 Web-Site: www.micro-strat.com Cell: 713-822-4412 Reg. Geologist CA. 076, TX 5368</p>	<p>Richard P. Lockwood, Ph. D. Applied Plastic Sedimentation 830-377-1491, DICKL42@kctc.com</p>  <p>Lithologic Description, Facies Maps Reservoir Maps Interpretation</p> <p>Lithology to Depositional Environment to Better Reservoir Maps!</p>
<p>BER-EX-CO., INC.</p> <p>Orville Roger Berg, Ph.D. Exploration, Exploitation Seismic Evaluation Domestic, International</p> <p>400 Travis St., Suite 616 9949 Beaver Creek Drive Shreveport, LA 71101-3108 Shreveport, LA 71106 (318) 220-0300 (318) 798-1748 orberg@bellsouth.net</p>	<p>ACTIVA RESOURCES</p>  <p>DOUGLAS COYLE Exploration Manager</p> <p>403 E. Commerce, Suite 220 San Antonio, TX 78205 Telephone: 210-271-9875 Fax: 210-224-0280 Cell: 830-426-6011 doug@activahd.com www.activaresources.com</p>	<p>SEIS PROS</p>  <p>Jim Acker President</p> <p>Low Impact 2D/3D - No job too small</p> <p>Seis Pros Inc. Tel: (713) 529 3140 3331 Richmond Ave, Suite 228 Fax: (713) 522-5905 Houston, Texas 77098-3015 Email: jacker@seispros.com</p>
<p>M. D. Campbell and Associates 1810 Elmen Street, Houston, TX 77019 www.mdcampbell.com</p> <p>Environmental Investigations on Oil & Gas Properties</p> <p>Telephone: (713) 807-0021 Facsimile: (713) 807-0985 Michael D. Campbell, P.G., P.H. email: mdc@mdcampbell.com</p>	<p>DRILLING-PROSPECTS.COM Visit Us Online: www.drilling-prospects.com</p>	<p>PalCon Database PALEO CONTROL SOUTH HALF TEXAS GULF COAST FRIO-VICKSBURG-JACKSON TOPS (& CONTROL WELL DATA) 22 SO. TX Counties plus Matagorda County</p>  <p>JOHN PICKERING AAPG CPG #2234 PICKERING ENTERPRISES, INC. PALEO DATABASE</p> <p>(281) 498-5249 11203 SHARPVIEW DR / HOUSTON TX 77072 jpickering4@comcast.net www.southtexaspaleo.com</p>
<p>Large acreage blocks available for lease in Goliad and Karnes Counties, Texas.</p> <p>On trend with Wilcox and other producing horizons. Re-entry opportunities. Contact Yanta Cattle Company at YantaCC@aol.com for additional information.</p>	<p>GEOSEARCH LOGGING INC</p>  <p>Joseph C. Struckel President</p> <p>PO Box 6005 Phone: 405-340-5545 Edmond, Oklahoma 73083 Cell: 405-623-0551</p> <p>Email: joestruckel@geosearchlogging.com Website: geosearchlogging.com</p>	<p>GEOCARE</p>  <p>Life, Health, Disability, and Supplemental Plans AAPG's GeoCare Benefits Insurance Program P. O. Box 9006 Phoenix, AZ 85068-9006 800-337-3140 E-mail: geocarebenefits@agia.com www.geocarebenefits.com</p>

<p>STEVE PRIMOFF Sales Manager</p>  <p>Continental Laboratories Mudlogging Specialists Since 1954</p> <p>6600 Fairbanks N. Houston (713) 460-0780 Houston, Texas 77040 Fax (713) 460-0788 steveprimoff@continentalabs.com</p>	<p>Serra GeoConsulting LLC</p> <ul style="list-style-type: none"> • Structural Geology • Restoration/Balancing • Trap Geometry and Timing <p>Sandro Serra, PhD CPG # 4044</p> <p>Tel. 713-663-6714 Email xserra@aol.com</p> 	<p>Consulting Biostratigraphy</p> <p>Domestic and International Foraminifera, Calpionelids, Thin Sections</p>  <p>RASHEL N. ROSEN 2719 S. Southern Oaks Dr., Houston, TX 77068-2610 (281) 893-6646 fax: (281) 586-0833 cell phone: 832-721-0767 email: rasher-rosen@comcast.net</p>
<p>T. Daniel (Dan) Greer President</p>  <p>924 Wakefield Houston, Texas 77018 Call Day or Night (713) 681-3435</p> <p>E-mail: info@precisionwelllogging.com • Web-site: www.precisionwelllogging.com</p>	<p>Richard B. Beverlin, Jr. Texas Licensed Geoscientist - #223 Certified Professional Geological Scientist Certified Petroleum Geologist Registered Environmental Professional</p> <p>2138 Fenwood (281) 334-1629 Kemah, Texas 77565 Email: beverlin@ix.netcom.com</p>	<p>PADGETT EXPLORATION</p> <p>Carl M. Padgett Dianne B. Padgett Consulting Geophysicists</p> <p>800 Wilcrest Drive, Suite 225 Office (713) 781-8139 Houston, Texas 77042 Res. (713) 784-1827</p>
<p>THUNDER EXPLORATION, INC.</p> <p>WALTER S. LIGHT, JR. PRESIDENT PETROLEUM GEOLOGIST</p> <p>P.O. BOX 541674 CELLULAR: 713.823.8288 HOUSTON, TEXAS 77254-1674 OFFICE: 713.529.2233 EMAIL: wthunder@aol.com FAX: 713.522.4829</p>	<p>PSI Petrophysical Solutions, Inc.</p> <p>11767 Katy Freeway Suite 380 Houston, TX 77079</p> <p>(281) 558-6066 (713) 206-2008 (281) 558-5783</p> <p>William G. Price President</p> <p>wgp@petrophysicalsolutions.com www.petrophysicalsolutions.com</p>	<p>VERSFELT & ASSOCIATES Worldwide Exploration & Exploitation Consultants</p> <p>PORTER VERSFELT International Scout Group Representatives New Ventures Evaluations</p> <p>Tel: (281) 537-8779 Email: geoport2@comcast.net Certified Petroleum Geologist 5807 Green Springs Drive A.A.P.G. No. 448 Houston, TX 77066-2331 U.S.A.</p>
<p>Carole Moreno Marketing and Sales Manager</p>  <p>Geotech & Design Services Data digitizing, drafting & computer graphics</p> <p>7171 HWY 6 NORTH # 202 Tel : (281) 858-7100 Houston, TX 77095 Fax : (281) 500-8534 carole@geotechmap.net www.geotechmap.net</p>	<p>SeaBird Exploration</p> <p>Matthew J. Padon Sales Manager</p> <p>SeaBird Exploration Americas Telephone: +1-281-556-1666 1155 N. Dairy Ashford, Ste. 206 Mobile: +1-281-686-4374 Houston, TX 77079 USA Fax: +1-281-556-5315 www.sbxexp.com Matthew.Padon@sbxexp.com</p>	<p>Geosolutions & Interpretations, LLC</p> <p>Geology Geophysics Engineering</p> <p>Phone: (281) 679 0942 Fax: (281) 679 0952 Mobile: (281) 772 5826 800 Tully Rd, Suite 240K Houston, TX, 77079</p> <p>Gerardo Jager President</p> <p>E Mail: gj@geointerpretations.com http://www.geointerpretations.com</p> 
<p>FUGRO GEOSCIENCE DIVISION</p>  <p>Fugro Multi Client Services 6100 Hillcroft (77081), P.O.Box 740010 Houston, Texas 77274, U.S.A. Direct: +1 713 369 5859 Fax: +1 713 369 5860 Main: +1 713 369 5800 Email: kmohn@fugro.com or: geoteam@fugro.no</p> <p>KENNETH MOHN Exploration Vice President</p>	<p>VERINova "VALUE VIA KNOWLEDGE" HELPING YOU FIND OIL & GAS; G&G CONSULTING; PROSPECTS; SEISMIC INTERPRETATION; RPFS</p> <p>HANS SHELIN Managing Director - MS, MBA, CPG, LPGeophys, SIPES</p> <p>Phone: 281-565-5305 PO Box 16161 FAX: 866-584-6404 Sugar Land, TX Email: Sheline@VeriNova.com 77496-6161 Webpage: www.VeriNova.com</p>	<p>JIM THORPE PCI PALEO CONTROL, INC.</p> <p>MICROPALAEONTOLOGY PALEOECOLOGY</p>  <p>P.O. BOX 41751 HOUSTON, TEXAS 77241-1751 OFFICE 713-849-0044 RESIDENCE 713-466-7922</p>
<p>BIG "6" DRILLING COMPANY</p>  <p>7500 SAN FELIPE, SUITE 250 HOUSTON, TEXAS 77063</p> <p>OFFICE: 713-763-2300 FAX: 713-763-4463 RES: 713-439-0903</p> <p>CHESTER B. BENGE, JR. PRESIDENT</p>	<p>CERT. PETR. GEOL. #4014 CERT. PETR. GPHY. #02 SIPES #1271</p> <p>DEBORAH KING SACREY PRESIDENT</p> <p>AUBURN ENERGY</p> <p>8588 KATY FREEWAY OFFICE: 713-468-3260 SUITE 260 FAX: 713-468-3210 HOUSTON, TEXAS 77024 MOBIL: 713-816-1817 E-MAIL: dsacrey@auburnenergy.com</p>	<p>Nomad Geosciences</p> <p>Al Taylor - President & Chief Scientist www.NomadGeosciences.com 11429 Purple Beech Drive Reston, VA 20191-1325</p> <p>Prospect Generation, Exploration and Development, Acreage Evaluation, Reservoir Characterization and Consulting</p> <p>Voice/Fax: 703-390-1147 Cellular: 703-489-8787 Email: Al@NomadGeosciences.com or NomadGeo@aol.com Certified Petroleum Geologist # 5783 SIPES # 2946 Registered Professional Geologist: # 1002 (AR) # 3581(TN)</p> 
<p>GEORGE N. MAY & ASSOCIATES</p> <p>Consulting Geologists and Paleontologists</p> <p>WILLIAM S. GRUBB</p> <p>201 HEYMANN BLVD. P. O. BOX 51858 LAFAYETTE, LA 70505</p> <p>OFFICE (337) 234-3379 FAX (337) 234-3389 HOME (337) 235-1923</p>	<p>E.H. STORK, JR. E.H. Stork, Jr. & Assoc.'s, Inc. Consulting Geologists & Paleontologists Specializing In Biostratigraphy - Paleogeology - Geologic Interpretation</p> <p>207 Pecore St. Suite #2 Houston, Texas 77009</p> <p>Office (713) 802-9731 Fax (713) 802-9732 Home (713) 466-9064</p> 	<p>Scott Wallace Data Processing Services</p> <p>DAWSON</p> <p>DAWSON GEOPHYSICAL COMPANY 10200 Richmond, Suite 120 Houston, Texas 77042 Office 713/917-6772 Fax 713/917-6773 Cell 713/775-9338 e-mail: wallace@dawson3d.com</p> 



Excellence That Runs Deep

SCA - The Upstream Petroleum Experts

The Upstream Consulting Leader

Let the experts at SCA assist you in meeting your ever changing human resource requirements for technical generalists and specialists.

We can quickly provide the consultant you need in various areas of expertise including:

Geologists
Geophysicists
Geoscientists

Petrophysicists
Geo & Engineering Techs
Petroleum Engineers
Reservoir Engineers

Completion Engineers
Drilling Engineers
Production Engineers
and other Specialists

SCA has the capability to meet your global demand for upstream consulting requirements with proven geoscience and engineering professionals you can rely upon, today!

SCA Training Solutions for the Upstream Petroleum Industry

September, 2008

2 - 4	Open Hole Log Analysis	Houston, Texas	3 day course
5	Multiple Bischke Plot Analysis	Houston, Texas	1 day course
8 - 12	Seismic Survey Design, Acquisitions and Processing	Houston, Texas	5 day course
15	Petroleum Resources & Reserves: An Overview of Recommended Geological Practices	Houston, Texas	1 day course
15 - 19	Principles of 3-D Seismic Interpretation, AVO and Seismic Attributes	Houston, Texas	5 day course
22 - 26	Applied Subsurface Geological Mapping	Houston, Texas	5 day course
22 - 26	AVO and Seismic Attributes	London, England	5 day course
29 - 30	Basic Reservoir Engineering for Non-Engineers	Houston, Texas	2 day course

October, 2008

1 - 3	Sequence Stratigraphy of Clastic Rock & Reservoirs: Well Logs Cores / Outcrop and Seismic	Houston, Texas	3 day course
6	Chimneys for Seal and Charge Risk Assessment	Houston, Texas	1 day course
13 - 17	Geopressure: Prediction, Analysis and Risk Assessment for E & P	Houston, Texas	5 day course
20 - 24	Applied Subsurface Geological Mapping	Dallas, Texas	5 day course
27 - 31	Principles of 3-D Seismic Interpretation	Kuala Lumpur, Malaysia	5 day course

November, 2008

3 - 5	Basics of the Petroleum Industry	Houston, Texas	3 day course
5 - 7	Quality Control for Subsurface Maps (QLTs)	Houston, Texas	3 day course
10 - 14	Applied Subsurface Geological Mapping	Jakarta, Indonesia	5 day course

December, 2008

1 - 5	Modern Production Logging	Houston, Texas	5 day course
1 - 5	Principles of 3-D Seismic Interpretation	Houston, Texas	5 day course
8 - 12	Applied Subsurface Geological Mapping	Houston, Texas	5 day course



SCA is authorized by IACET to award Continuing Education Units (CEUs).

Visit our website at www.scacompanies.com to register online TODAY!!

Subsurface Consultants & Associates, LLC.

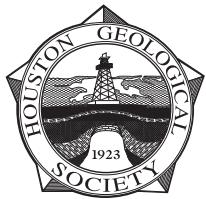
10255 Richmond Avenue, Suite 300W, Houston, Texas 77042

Phone: +1.713.789.2444 Fax: +1.713.789.4449 www.scacompanies.com

General Inquiries: info@scacompanies.com

Training Course Registration & Information: training@scacompanies.com

Consultants & Direct Hire Recruitment Services: consulting@scacompanies.com



HOUSTON GEOLOGICAL SOCIETY

14811 St. Mary's Lane, Suite 250 • Houston, TX 77079

Periodicals
U.S. Postage
PAID
Houston, Texas

Maximum reservoir performance



Want to make the most of your valuable oil and gas reserves?

Roxar's integrated technology solutions and services help companies of all sizes realize the full economic potential of their oil and gas resources.

- **Innovative modeling and simulation software**
- **Downhole monitoring and control systems**
- **Reservoir production multiphase metering**
- **Reservoir and production consultancy**

Roxar's leading-edge technology solutions from reservoir interpretation through to production & process meet the changing needs of users in managing the entire reservoir lifecycle.



INTERPRETATION



MODELING



SIMULATION



WELL & COMPLETION



PRODUCTION & PROCESS

roxar
MAXIMUM RESERVOIR PERFORMANCE