



Geophysical Society of Houston

VOL. 33, NO. 8

NEWSLETTER

APRIL 1999

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Note

Tom Dobecki, the current chair of the Near Surface SIG, will be leaving Houston in April and is seeking a replacement for his position. Please contact any member of the GSH Board with suggestions.

Technical Luncheon

Rob Stewart - SEG Distinguished Educator

Date: April 20, 1999
 Time: Register and cash bar, 11:30 a.m., Luncheon and talk 12:00 noon
 Location: New HESS building 5430 Westheimer, formerly the Carlyle Restaurant - north side of Westheimer between Chimney Rock and Yorktown.
 Cost: \$20.00 for pre-registered members, \$25.00 walk-ins and guests
 Reservations: Reservations to GSH events can be made to the GSH office by: Phone: 713/785-6403 to Joan at the GSH office, Automated Reservation by Phone: 713/917-0218, Fax: 713/785-0553, Email: reservations@hgs.org

ABSTRACT:

A Hard Rain's Gonna Fall: The Seismic Characterization and Hydrocarbon Potential of Meteorite Impacts on Earth

Asteroids and comets are common visitors in the Earth's vicinity. Evidence, in the form of craters, from the Moon and other planets indicates that there have been frequent collisions with these bodies in the past. About 150 meteorite craters on Earth show that we have not been immune to these events. These collisions on Earth have likely had profound impact on the history of life and geology. The large Chicxulub crater in the Yucatan, Mexico is implicated in the demise of the dinosaurs (and many other species)

at the Cretaceous-Tertiary boundary. Hydrocarbons and minerals of economic (nickel, gold, diamonds) interest are often found in association with impact craters.

As a result of seismic exploration for hydrocarbons in many sedimentary basins, we are beginning to find numerous structures that have the morphology of meteorite impact craters. For large craters (greater than 3km diameter), this circular morphology includes a central uplift, annular moat, and normally faulted rim. Some of these structures bear considerable hydrocarbons, as in the Ames crater in Oklahoma and Steen River structure in Alberta, and so are of interest to petroleum exploration.

This talk discusses the frequency of meteorite hits in the past and present and their size distribution. We also consider the dynamics of impacting and the resulting structures including scaling relationships.

A number of seismic cases are considered, including the James River structure, which has 3-D seismic coverage. Distinct geophysical anomalies are found (and discussed here) over producing impact craters such as Ames and steen river structures.

BIOGRAPHY

Prof. Rob Stewart of the Department of Geology and Geophysics at the University of Calgary will be visiting Houston April 10-30 as the SEG's first Distinguished Educator. The Distinguished Educator program is designed to facilitate the diffusion of

Technical Luncheon continued on page 3

GEOPHYSICAL SOCIETY OF HOUSTON

Joan Henshaw, Office Manager • 7457 Harwin Drive, Suite 301 • Houston, Texas 77036 • Office Hours 8 a.m. - 5 p.m.

Phone: (713) 785-6403 • Fax: (713) 785-0553 • Event Reservations Number: (713) 917-0218

email: reservations@hgs.org • website - <http://www.seg.org/sections/gsh/gshhome.html>

GSH Board of Directors = GSH Executive Committee + SEG Section Representatives

		PHONE		FAX	
PRESIDENT	Bob Tatham*	954-6027		954-6113	tatharh@texaco.com
Corp. Relations	Wulf Massell	713/650-3820		713/659-3735	wulf@epicgeo.com
Historian	Art Ross	423-5476		423-5202	Art.H.Ross@exxon.sprint.com
Honors & Awards	Wulf Massell	713/650-3820		713/659-3735	wulf@epicgeo.com
Museum	Tom Fulton	713-783-4893		713-783-1075	email: etinsl@flash.net
Nominating	Bill Gafford	281/366-7873		281/366-7569	wtgafford@amoco.com
PRES.-ELECT	Pat Starich*	281/423-7234		281/423-7399	pjstarich@exxon.sprint.com
Academic Liaison	Hua-Wei Zhou	713/743-3424			
Advisory	Lee Lawyer	531-5347		531-5347	ujhr40a@prodigy.com
Employment Ref.	Sam LeRoy	556-9766		556-9778	earthview@aol.com
Finance	Joel Starr	781-4000		781-7858	joel@hstn.tensor.pgs.com
Office	Hugh Hardy	713/729-9208		713/726-0456	mghwh@aol.com
Volunteers	Claire Bresnahan	713/880-5910			CBresnahan@eri.eqt.com
FIRST VP	Dan Ebrom	713/954-6252		713/954-6911	ebromda@texaco.com
Continuing Ed	H. Roice Nelson	713/974-6907		713/974-1496	roice@continuum-corp.com
Speakers	Dan Ebrom	713/954-6252		713/954-6911	ebromda@texaco.com
Tech Breakfasts	Scott Sechrist	281/856-8029		281/856-7445	acoustic@neosoft.com
Tech Luncheons	Shane Coperude	281/275-7500		281/275-7660	scoperude@fairfield.com
Tech Committee	Dave Agarwal	713/650-0325		713/650-3822	Dave0836@aol.com
Tech Transfer	David Forel	713/953-6810			david.forel@pgs.com
SIGS					
Data Processing	Karl Schleicher	713/782-1234			karl@geodev.com
Near Surf Geophysics	Tom Dobecki	281/679-5558			tdobecki@fugro.com
Interpretation	Randy Hoover	713/682-1039			
Potential Fields	Mike Kowalski	713/432-6828			kowalma@texaco.com
Res. Geophysics	Quincy Chen	713/689-5778		713/689-5757	Quincy.chen@waii.com
SEC. VP	Jock Drummond	281/873-3901		281/874-3470	jock_drummond@anadarko.com
Annual Meeting	Jim Moulden	281/293-5711		281/293-2015	james.k.moulden@usa.conoco.com
Awards Banquet	Carmen Comis	713/393-4800		713/393-4801	ccomis@ParadigmGeo.com
Golf Tournament	George Lauhoff	281/275-7500		281/879-1472	Glauhoff@fairfield.com
Bass Tournament	Greg Doll	713/658-8096		713/951-0343	gqdoll@msn.com
Shrimp Peel	Tim Hartnett	713/961-8346		713/960-8400	Hartnett.Tim.T@bhp.com.au
Sporting Clays	Chris Tutt	713/689-2648		713/963-1928	chris.tutt@waii.com
Christmas Party	Lorinda Driskill	281/560-1104		281/560-1169	ldriskill@lgc.com
Tennis Tournament	Joe Jones	281/438-5626		281/682-6928	
SECRETARY	Ingrid Swendig	713/689-7865		713/689-7890	ingrid.swendig@westgeo.com
Directory	Kathy Hardy	281/390-3371			ladyfiz77@aol.com
GSH Membership	Hugh Hardy	713/729-9208		713/726-0456	mghwh@aol.com
Ladies Auxiliary	Jeanne Cooley	713/665-8432			
OTC Rep	Alf Klaveness	713/468-5123		713/468-0900	
SEG Membership	Steve Starr	281/492-1856		281/398-6669	adamstar@flash.net
TREASURER	Stephen Johnson	281/366-3647		281/366-5856	sjohnson@amoco.com
Student Loans	Don Ashabranner	669-372		669-3725	deashab@ppco.com
EDITOR	Jess Kozman	713/623-2481		713/621-9432	jkozman@seismicexchange.com
Newsletter Staff	Elizabeth Fisher	281/597-1777		281/597-5377	eafisher@jasongco.com
	Wendy Jones	713/783-7837		713/783-9780	wendyj@diamondg.com
	Patty Cardwell	713/783-7837		713/783-9780	patty@diamondg.com
	Nancy Kiely	713/789-2300		713/789-5222	nkiely@flagshipgeo.com
Company Contacts	Scott Sechrist	281/856-8029		281/856-7445	acoustic@neosoft.com
Electronic Pub.	Richard Verm	782-1234		782-1829	richard@goedev.com
Photography	John Freeland	281/423-7223		281/423-7801	
Publicity	Scott Sechrist	281/856-8029		281/856-7445	acoustic@neosoft.com
Company Store	Ingrid Swendig	713/689-7865		713/689-7890	ingrid.swendig@waii.com
Training Notices	Lloyd Weathers	281-296-3453		281-296-4370	lloyd_weathers@email.mobil.com
PAST PRES.	Bill Gafford*	281/366-7873		281/366-7569	wtgafford@amoco.com
PRIOR PAST PRES.	Wulf Massell*	713/650-3820		713/659-3735	wulf@epicgeo.com
SEG SECTION REPS*	Mike Schoenberger	713/966-6114			mike.schoenberger@exxon.sprint.com
	Art Ross	281/423-5476			art.h.ross@exxon.sprint.com
	Dave Agarwal	713/650-0325			
	Jim DiSiena	281/287-5757			disiena@swbell.net
	Joe Starr	281/443-8150			
	Claire Bresnahan	713/880-5910			
	John Sumner	713/431-6096			john.r.sumner@exxon.sprint.com
Alternate SEG Sec. Reps.	Hugh Hardy	713/729-9208		713/726-0456	mghwh@aol.com
	Lee Lawyer	281/531-5347 (home)			ujhr40a@prodigy.com
	Phil Inderwiesen	713/954-6244			inderpl@texaco.com
	Jock Drummond	281/873-3901			jock_drummond@anadarko.com
	Alf Klaveness	713/468-5123			

Technical Luncheon continued from page 1

cutting-edge research throughout industry and academe. Prof. Stewart will spend much of 1999 traveling, and has already been to India, Brazil, and Venezuela.

Prof. Stewart is an expert in the areas of multicomponent seismology and VSPs. His host institution will be the Allied Geophysical Laboratories at the University of Houston. If you are interested in contacting Prof. Stewart during his visit, please call Prof. Huawei Zhou at the AGL at 713-743-9150.

B.Sc. Physics with minor in mathematics, University of Toronto

Ph.D. Geophysics, MIT

P. Geoph., Assoc. Prof. Engineers, Geologist, Geophysicists of Alberta Worked with Chevron Oilfield Research, La Habra, Calif.

ARCO Research in Plano, Texas

Veritas Software, Calgary

Professor and Chair in Exploration Geophysics, University of Calgary (1987-1997)

Director and founder of the CREWES Project, University of Calgary
SEG Distinguished Educator, 1999.

Technical Breakfast:

The April meeting will be on the 7th, due to the AAPG in San Antonio the following week. This will be a Westside meeting at CGG.

Time: 7:00 a.m. breakfast,
7:45 a.m.

presentation,
8:15 to 8:30 a.m.
Q&A

Place: CGG, Park Row,
Houston, Texas.

Cost: No cost

Reservations: by noon Monday,
April 5. Code 607

Speaker: Lena Weber, Magnolia
Group

Topic:

Case Histories of Integrated GIS Applications / GIS in the 3D Survey: Librarian, Bird Dog or Both?

SIG MEETINGS

GSH Reservoir Geophysics Seminar

Date: Tuesday afternoon,
April 6, 1999

Time: 4:00 - 4:30 pm
Social

4:30 - 5:10 pm

Presentation One

5:10 - 5:50 pm

Presentation Two

5:50 - 6:30 pm

Presentation Three

Location: Bowie Room of HESS
Building 5430

Westheimer Road

Houston, TX 77042

Call (713) 627-2283 if

you need more

directions.

Cost: NONE

Theme:

Multi-attribute analysis and thin-layer reservoir characterization

Speaker 1:

Aftab Alam Prime Geoscience Corporation

Co-author: Mark C. George, Magnolia Energy Services

Speaker Bio:

Aftab Alam is the founder president of Prime Geoscience Corporation, a geophysical consulting and technology development company. His previous employment includes V.P. of Research & Development, Landmark Graphics, Manager of Geoscience Research, Western Geophysical, and Principal Research Engineer, Arco E&P. He holds PhD (Electrical Engineering) from SMU, Dallas, Texas; MS (Geophysics), U. of London, England; and MS (Maths & Physics), Punjab U., Lahore, Pakistan. His interests include seismic data processing, interpretation and research, and reservoir geophysics consulting.

Presentation title:

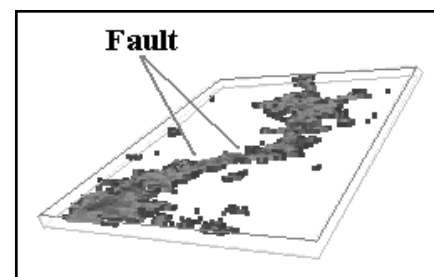
Multi-attribute visualization of 3-D seismic structure and stratigraphy

Presentation

Abstract:

Interpreters of 3-D seismic data work under time-pressure, uncertainty and with limited tools to comprehend complex details. A solution to their problem is to classify multiple seismic attributes and visualize the result in the entire volume. A combination of multiple attributes when rendered as color-coded points in a cube instantly reveals both the structural and stratigraphic compartments, which are obscured by the waveform on a seismic display. The interpreter quickly isolates features of geological significance and differentiates their subtle details without horizon picking, editing or mapping. After having isolated the targets, the interpreter may wish to pick horizons that follow selected targets and produce maps and overlays of combined attributes in color. This procedure shortens the time cycle, improves reliability through the use of multiple attributes, and provides consistency in the interpretation of details.

This is a two-part presentation. The first part, a Powerpoint slide presentation, illustrates results from onshore and offshore examples. In the onshore case, it highlights detailed compartments of a buried river channel overlying a structural feature. In the offshore case, it shows compartments of an anomaly that is a known gas reservoir in the carbonate environment but was invisible as a structural or amplitude anomaly on the seismic display. The second part, a workstation demonstration, shows how an interpreter navigates through seismic and attribute volumes to identify targets in the two examples.



The onshore buried river channel example

Reservoir Geophysics continued on page 4

Speaker 2:

Lloyd R. Weathers, Mobil E & P US, Inc, Houston

Speaker Bio:

Lloyd Weathers has been with Mobil since 1974 with assignments in Houston, Dallas, London and Jakarta. A transfer to Midland in 1987 brought a switch to Production Geophysics at a time of rapid expansion of the application of seismic to production projects. He has been involved with Production Geophysics for Mobil in Houston since 1991.

Presentation title:

Physics-based Seismic Acoustic Impedance

Presentation Abstract:

Each seismic trace is rich in information content about the layering of the earth, but tuning effects of thin beds, uncertainties about the wavelet, and imprecise well ties prevent the interpreter from accessing all the available information content. Stack and migration of seismic data results in an approximation to near-trace acoustic response of the earth and, by the convolutional model, the earth response is governed by contrasts in acoustic impedance. Acoustic Impedance is therefore the fundamental seismic attribute and high quality seismic trace inversion can extract the information content about layers of acoustic impedance presenting it to the interpreter in a readily assimilated way without the interference effects of the wavelet. It is possible to calculate reliable petrophysical measurements from seismic traces by advanced techniques while maintaining connection back to the physics of the original measurements and without the necessity of employing geostatistics to guide the solution.

Speaker 3:

Subhashis Mallick, R&D Department, Western Geophysical

Speaker Bio:

Subhashis Mallick graduated with Bsc (Honors in Geological Sciences) in 1976 and Msc (Exploration Geophysics) in 1978, both from Indian Institute of Technology, Kharagpur, India. After being employed in the industry for five years, in 1983 he joined University of Hawaii, and in 1987, he obtained a Ph.D degree in Geology and Geophysics. He has been working with Western Geophysical since 1991.

Presentation title:

Inversion of Seismic Data by Hybrid Method

Presentation Abstract: In this presentation, I'll show a combination of prestack and poststack inversion that allows reliable estimates of elastic parameters for large data volumes in a reasonable turn-around time. First, I run prestack genetic algorithm (GA) inversion at sparse control point locations over the entire seismic data. GA inversion gives estimates of P-wave velocity, density, and Poisson's ratio at these locations. Once the elastic earth models are obtained from GA inversion, I use these models as well information for poststack inversion. I can run poststack inversion of AVO intercept and pseudo S-wave volumes, using P- and S-wave impedance values from prestack inversion at control point locations for background trends. Alternatively, I can compute elastic impedance from prestack elastic models at control points, and run poststack inversion of angle stacks using the elastic impedance at control point locations for background trends. Using synthetic and real data, I demonstrate that the above hybrid inversion method extracts reliable values even when no well information is used in inversion.

Capability of application of this hybrid inversion in the absence of well information allows this method to be used as a reconnaissance tool for exploring new areas with sparse or no well control.

Organizer:

Quincy Chen, Ph.D., Reservoir Geophysics SIG Chairman, GSH

Western Geophysical
10001 Richmond Avenue
quincy.chen@westgeo.com
Tel. (713)689-5778

Data Processing SIG

SIG Chair - Karl Schleicher
713 782 1234
karl@geodev.com

April Meeting

Date: Wednesday
April 21, 1999
Time: Social 4:30pm
Presentations
5:00- 6:30pm
Location: CGG
16430 Park Ten Place
Directions: Exit from I-10
westbound at exit 750
(Park Ten Blvd), and
turn right on Park Ten
Blvd, then left to
16430 Park Ten
Place.
Cost: NO COST

Topic:

AVO analysis

Organizers:

Side Jin, CGG
Karl Schleicher, GDC

Speaker 1:

Side Jin, CGG

Title 1:

S-velocity and density estimation from converted P-S wave AVO analysis: Application to an OBC dataset from North Sea

Speaker 2:

Marc L. Sbar, Independent Geophysical Consultant

Title 2:

AVO Analysis in the Middle Miocene, Eastern Gulf of Mexico: Exploration Risk Reduction for Petroleum and Reservoir Presence

ABSTRACT

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Data Processing continued from page 4

S-velocity and density estimation from converted P-S wave AVO analysis: Application to an OBC dataset from North Sea

By Side Jin, CGG

S-wave velocity and density information plays a key role in hydrocarbon detection because of their discriminant responses to pore fills. Unfortunately, these two parameters can not be well resolved from conventional marine data. A reliable estimation of them needs shear wave seismic data. The recent development in ocean bottom seismic (OBS) technology makes it possible to acquire high quality S-wave data in marine environment. The use of S-waves for AVO analysis can give a better estimate of S-wave velocity and density contrasts.

S-wave AVO is more sensitive to various types of noise than P-wave AVO. Shear wave AVO analysis must be proceeded with caution. The sensitivity of AVO inversion to random noise and errors in angles of incidence is investigated numerically and theoretically. Synthetic examples show the noise and angle errors can strongly bias the parameter estimation. I propose to use singular value decomposition to solve for the elastic parameters so that a simple stabilization scheme can be incorporated.

The AVO inversion was applied to an OBS data set from the North Sea. This real data example illustrates that the obtained S-wave velocity and density contrasts aid to detect the fluid contacts and delineate the extent reservoir sand. Some special prestack processing techniques for the success of S-wave AVO inversion are addressed with this example.

BIOGRAPHY

Side Jin received Ms (1988) and Ph.D. (1992) in geophysics, both from Institut de Physique du Globe de Paris, University of Paris. His thesis was on non-linear seismic data inversion. He has worked with Schlumberger (1992-1993), Elf (1993-1998). Since 1998 he works for CGG in Houston as senior

research geophysicist.

Side Jin has been involved in many projects ranging from velocity building, seismic data migration/inversion, AVO analysis, seismic waveform modeling, 3D image processing to interpretation. His current interests are mainly converted shear wave AVO and imaging. He is a member of EAGE, GSH and SEG.

ABSTRACT

AVO Analysis in the Middle Miocene, Eastern Gulf of Mexico: Exploration Risk Reduction for Petroleum and Reservoir Presence

By Marc L. Sbar, Independent Geophysical Consultant

AVO analysis was used to high-grade a prospect defined by a four-way structural closure in the eastern Gulf of Mexico. Petroleum presence was indicated by nearby shallow wells which encountered oil and gas. Seal was suggested by low reflectivity seismic data above the target zone, indicating shales. Therefore the key risk in this prospect was reservoir presence, since strong trough/peak seismic amplitudes characteristic of many Gulf of Mexico petroleum sands were not observed. The target zone was predicted to be Middle Miocene and deeper than 15,000 feet below mud line. Analogs from elsewhere in the Gulf of Mexico indicated that strong trough/peak amplitudes on seismic may not result for petroleum-filled sands in this environment. Stratigraphic analysis in the target zone identified mounded facies, interpreted as a mid-slope fan or channel-levee complex, which may contain sand. AVO was analyzed to see if the risk for reservoir and petroleum presence could be reduced. Sand with moderate GOR oil was predicted predrill using four 2D lines and matching models based on rock properties from an analog well.

The well was drilled about 800 feet from the nearest 2D line and encountered thin oil sands in the target zone. These might be the edges of nearby thicker sands. Models were generated using rock properties from this well which demonstrated that the

observed AVO anomalies on the 2D lines may result from thicker, more porous sand that is possibly gas-charged. The modeling also showed that sands with porosities less than 20% would be difficult to detect using AVO regardless of their thickness. Thus AVO could be used for appraisal to map the variability in sand porosity and high-grade those areas of higher porosity. This would best be applied in 3D.

BIOGRAPHY

Marc Sbar has a B.S. in Physics from Lafayette College, PA and a Ph.D. in geophysics from Columbia University, NY. He continued at the Lamont-Doherty Earth Observatory after graduation doing research in global intra-plate tectonics and seismic hazard in Eastern North America. In 1977 he became an Assistant Professor at the University of Arizona, Tucson. A move to Dallas in 1983 with Sohio started his career in the oil patch. Research on predicting rock and fluid properties in the Lisburne formation on the North Slope was his first exposure to AVO. Since then he has worked as interpreter in the Anadarko basin, a geophysical attribute analyst in the Gulf of Mexico shelf, team leader of the Carbonate and Stratigraphic studies teams in London and geophysical analyst/interpreter in deep-water Gulf of Mexico. All of these positions have been with Sohio/BP Exploration. Currently he is an independent consultant.

Citizens Environmental Coalition (CEC) Activity Report

By Stephanie Hrabar, GSH liaison

The CEC is a regional information clearinghouse for a broad range of environmental concerns. It provides delegate meetings for its 80+ member organizations, and hosts roundtable discussions that are open to the public. CEC aims to help communicate general information and encourage

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CEC continued from page 5

dialog on local and regional issues. It is not an advocacy group.

ROUNDTABLE:

About 40 people attended the CEC's November 12, 1998 Roundtable. The topic was the Risk Management Program (RMP) for this area, which is being developed in response to the U.S. Environmental Protection Agency regulations. The purpose of the meeting was to begin a dialog with environmentally concerned citizens.

Moderator Diane Sheridan began by briefly explaining the risk management program. The program requires companies to provide the public with accurate information about potential industrial accidents, including worst case scenarios. The potential impacts on the community and appropriate response plans must also be described.

The RMP panel was comprised of a Mobil Chemical plant manager, business member of the Houston-Local Emergency Planning Committee (LEPC), and citizen member of Houston-LEPC. Regulators were unable to attend. They provided background information and policies about concerns for health and safety at the plants.

The response panel consisted of a local citizen activist, the field coordinator for Mothers For Clean Air, and two members of the Houston-Community Advisory Panel (CAP). These people responded to comments by the RMP panel and provided personal insights, such as the considerable time and effort required for them to learn what the technical terms and abbreviations meant. One member pointed out that the CAP meetings he attended were dominated by industry and industry service companies personnel.

Concern was raised about how the public could be aware of potential impacts of chemical accidents on the community, when less than 2% of the more than 70,000 chemical is commercial use had been studied for their health affects on people. The dialog between the panels and

audience was lively. Most people agreed that effective communication with the lay person (non-industrial chemists) is still a major obstacle, partly because of technical language, jargon, and many abbreviations. Improvements to date have been driven by citizen action and civil action. Improvements have been made. Neither regulators nor the regulated community described the use of remote sensing to monitor air chemistry.

ANNUAL MEETING:

Stephanie Hrabar represented the GSH at the CEC annual meeting and election on February 4, 1999 at the Houston Environmental Center located at 3015 Richmond. The 1999 Environmental Resource was ready for distribution to member organizations. This year's guide contains two new special sections: A Vision for the Houston Region and Problems, Projects, and Progress. The Problems, Projects, and Progress section summarizes the reports and presentations by member organizations, that participated in the Environmental Summit on October 2, 1998. The report on applied geophysics was included. Texaco, Inc. was a major contributor to publication of the 1999-resource guide.

CEC announced that in one week all the available space at the Center would be occupied by member organizations. Last year's membership drive resulted in 19 new member organizations. The President reviewed the major activities during the past year, and honored out-going Board members. The 1999 Board was elected from the slate of nominees and nominations from the floor.

EARTH DAY:

For the third consecutive year the SIG will participate at Earth Day sponsored by radio station 104 KRBE and Enron Corp. The outdoor event is scheduled for Saturday 10 April from noon until 6 pm. It will be located along the south bank of Buffalo Bayou east of downtown. Booth space is provided through the Citizens Environmental Coalition. The SIG will focus on non-intrusive methods: Tom Dobecki, Fugro,

will be demonstrating ground penetrating radar (GPR), Jack Platt will demonstrate a portable "sniffer", and Stephanie Hrabar and other volunteers will distribute information about the GSH and non-intrusive geophysical methods. About 15,000 people visited the event last year.

EARTH CARE:

The Greensheet Education Foundation invited members of the CEC to participate as research and development partners in their award-winning series "Do Your Share For Earth Care" (Earth Care). Earth Care has been an environmental education publication since 1995. Last year the series had three volumes, Land, Air, and Water. It was distributed to Texas elementary schools throughout the year. An ad hoc SIG committee comprised of Stephanie Hrabar, Phil Inderwiesen, Richard Barnett, and Craig Dingler accepted the foundation's invitation. Most of the geophysical information provided will be modified from the SIG's 1996 and 1997 "Looking Into the Earth" forums.

Respectfully submitted
2/15/99

April 29 - 30, 1999 - Houston, Texas - PPDM Spring Meeting "PPDM Growth in the International Marketplace"

April 29: Project Workshops
Spatially Enabling the PPDM Model, Compliance, OpenSpirit, Object Technology, Data Cataloging, Model Extensions, Sample Implementation

April 30: Members Forum
Industry Presentations, Success Stories, Model Update, Feedback, Networking

The Modeling Committee will be meeting in Houston during the earlier part of the week; various workgroups will be meeting as well.

For registration contact PPDM at info@ppdm.org or call (403) 660-7817.



FORTUNE FAVORS THE BOLD

SEG '99 Houston

Oct 31 - Nov 5, 1999

Houston is synonymous with energy exploration and technology and is proud to host the SEG's 1999 International Exposition and 69th Annual Meeting. Leaders of industry, academia, and government acknowledge this event as the premier showcase of cutting-edge geophysical technology. It is the best opportunity for geoscientists to learn state-of-the-art technology and glimpse the future of energy exploration.

The 1998 exposition boasted 373 companies occupying 145,800 net sq ft of exhibit space and prompted early reservations for the Houston '99 exposition of over 115,000 net sq ft in the George R. Brown Convention Center.

Innovative Solutions

Geoscientists and engineers are charting today the paths toward finding the effective solutions of tomorrow. The energy sector is a rapidly changing industry - one which requires not only leading-edge technology but also business acumen and a "global" mind-set. The 1999 Technical Program will emphasize innovative technologies for applied and integrated geophysical solutions in all areas of exploration, exploitation, and development. In order to convey ideas in their most effective media, papers designed to utilize the latest electronic presentation technology are being especially solicited.

For More Information Contact the Business Office of the Society of Exploration Geophysicists

Exposition

Steve Emery
tel 918.497.5539

Naomi Haddock
tel 918.497.5517

Technical Program

Karen Hulsebus
tel 918.497.5571

Sponsorships

Jill Thompson
tel 918.497.5500

General Information

Bob Lewis
tel 918.497.5500
fax 918.497.5557

GEOPHYSICAL SOCIETY OF HOUSTON

NEW MEMBERS AS OF 4-1-99

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James Brenneke
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Kevin Chesser
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Barry Rava
William Schneider
Scott Scholz
Nancy Smith

Tad Smith
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Richard Ward
Patty Cardwell
Brenda Frost
Alexander Gajewski
T. J. Johnson
Wendy Jones
Kar Jyotiranjana
Frank Rodriguez
Vikramaditya Sen
Tobias Toro
Giuseppe Valenti
Manhong Gua

GEOSHARE USERS' GROUP MEETING

Wednesday, April 28th
from
12:00 - 5:00 pm

Geoshare Users' Group (GUG) is a volunteer organization dedicated to providing a forum and developing mechanisms for transferring corporate data bases to project databases for optimization of data integration from many software sources and uses.

For more information on membership & activities, VISIT www.geoshare.org

1999-2000 GSH Candidates

PRESIDENT ELECT:

John Sumner
Richard Verm

JOHN R. SUMNER

John received his B.S. in Engineering Physics from the University of Arizona in 1966 and began his geophysical career that summer, collecting gravity and magnetic data in the western United States for Superior Oil Co., Minerals Division. Following this, he attended Stanford University where he received a M.S. (1968) and Ph.D. (1971) in geophysics. He was a professor of geophysics at the University of California, Santa Cruz (1971-72) and Lehigh University (1972-77) before joining Exxon Production Research Company in 1977. His research in academics and within the industry has focused on the use of geophysical techniques to solve geologic problems. At EPR, John took part in research on seismic stratigraphy, seismic modeling, and the direct detection of hydrocarbons. Other assignments at Exxon included exploration advisor at Esso REP (Bordeaux, France, 1984-86), and various technical and supervisory positions at Exxon Company International, Exxon Exploration Company, and EPR. John joined the SEG in 1967 and has served on the Research Committee (1982-84) and the Annual Meeting Advisory Committee (1994-1997). He was the Technical Program Chairman for the 1995 International SEG meeting in Houston. He organized and coordinated the Best of the SEG session for the 1998 AAPG meeting. In addition to the SEG, he is also a member of the AGU and is a Fellow of the GSA. In the Geophysical Society of Houston, he served on the Continuing Education Committee from 1990-1994 and chaired the committee from 1992-93. He was First Vice President, 1997-1998.

RICHARD VERM

Richard Verm is Vice-President of Technology at Geophysical Development Corporation. He has been involved in the development of AVO and VSP technology for the past 10 years. Prior to joining Geophysical Development Corporation, he worked at the Allied Geophysical Laboratories at the University of Houston where he was a co-director of the Image Processing Laboratory. His career in geophysics started at Geosource where he worked in the Research Department of Petty-Ray Geophysical.

Richard is a member of the SEG, GSH and the ACM. He was a member of the Technical Program Committee for 1991 and 1997 SEG Annual International Meeting and he served as the Vice-Chairman for the 1995 SEG Annual Meeting. In 1997 he was elected GSH Treasurer. Currently he is the General Chairman for the 1999 SEG Annual Meeting.

Richard Verm received a BA degree in mathematics from Rice University and Masters and Ph.D. degrees in geophysics from the University of Houston.

FIRST VP

Lloyd Weathers
Bee Bednar

LLOYD R. WEATHERS

After receiving a Bachelors degree in physics from the University of Texas in 1970 with a minor in geology, Lloyd joined Texaco at Bellaire, Texas in data processing. He studied geophysics and geology in the evening and completed an M.S. at the University of Houston in 1975, interrupted by two years in the US Army as a physicist at White Sands Missile Range. Lloyd has been with Mobil since 1974, first as a seismic interpreter in Houston for US Atlantic offshore and south Texas, then on geophysical staff at the Dallas center. In 1978 he was seconded to ARAMCO for three years involved in early 3-D survey interpretaton and analysis methods. Lloyd transferred to Jakarta

as Mobil exploration supervisor for Borneo then returned to Houston in 1984 supervising Coastal Texas Exploration. A transfer to Midland in 1987 brought a switch to Production Geophysics at a time of rapid expansion of the application of seismic to producing projects. He has been with Mobil in Houston since 1991 and his interests center on application of seismic methods to reservoir evaluation and development. Outside interests include wade fishing in Galveston Bay and mountain biking. Lloyd has served as Geophysical Society of Houston Editor 1994-95 and Second Vice President 1996-97.

DR. J. BEE BEDNAR

J. Bee Bednar received his B.S. degree from SouthWest Texas State University in 1962 and the M. A. and Ph. D. all in mathematics from The University of Texas at Austin in 1964 and 1968 respectively. He began his professional career at Tracor in Austin, Texas working on Anti-Submarine Warfare research projects. He was an Assistant and Associate Professor of Mathematics at Drexel University in Philadelphia and was appointed to a joint Professorship in Mathematics and Geophysics at University of Tulsa in Tulsa, OK. He has held adjunct professorships at Oklahoma State University, Stillwater OK and Rice University in Houston, TX where he taught courses in the Mathematics, Electrical Engineering, and Geophysics departments.

He has also been a Visiting Scholar at the Stanford Exploration Project at Stanford University in California.

Dr. Bednar's industrial career continued with the acceptance of a position as Seismic Research Manager at Cities Services in Tulsa and later as Director of Geophysical Sciences at Amerada Hess in Tulsa and Houston.

At Amerada Hess he managed and directed the development of fundamental concepts and procedures for seismic processing and imaging on

Candidate Bios continued on page 9

Candidate Bios continued from page 8

massively parallel distributed computers and workstation clusters. After leaving Amerada Hess in April 1997 he was an independent consultant for CONOCO and Mobil. In April 1998 he accepted his current position as Vice President of Research and Development at Advanced Data Solutions in Houston, TX.

Dr. Bednar has served as President, First Vice President, Second Vice President, Editor, Chairman of the 1993 Spring Symposium, and Editor Elect for the Geophysical Society of Tulsa. He is currently an associate editor for signal processing papers submitted to GEOPHYSICS.

Research interests include multiple suppression, Kirchhoff imaging, eikonal and raytracing traveltimes generation and parallel computation.

SECOND VP

Scott Sechrist
Joel Starr

SCOTT C. SECHRIST

Scott C. Sechrist studied Geology at Trinity University, received a B.A. Degree in Geography/Remote Sensing from Southwest Texas State University, and a B.A. Degree in Communication/Broadcast Media from Stephen F. Austin Texas State University. He has over 21 years of experience in all phases of petroleum geophysics. Scott joined Panaco, Inc. as Chief Geophysicist in 1998, following assignments at major and large independent oil companies for Subsurface Consultants, Inc. as a Senior 3D Workstation Geophysicist. His prior consulting experience includes positions as geophysical advisor specializing in prospect mapping for well locations and reservoir volumetrics, 3D seismic land and marine acquisition, seismic data processing, seismic inversion, hydrocarbon attribute interpretation, and reservoir petrophysical characterization.

Scott is a member of national and local chapters of AAPG, SEG, SIPES, and SPE. He is extremely active in

the Geophysical Society of Houston, including the following Committees: Company Contacts, Directory, Electronic Communications, Publicity, and Technical Breakfasts.

During his career he has designed and managed seismic field acquisition programs, including international marine and land frontier 3D seismic surveys. As President and Chief Operating Officer of Acoustic Exploration, Inc. from 1984-1995, Scott designed and supervised a number of advanced technology regional seismic surveys in the onshore Texas Gulf Coast. These include some of the first broad bandwidth, high resolution land 2D and 3D Vibroseis surveys associated with the development of notable South Texas Wilcox fields, including Shell's Duval County Rosita Deep field, and the Zapata County Bob West-Lopeno field complex.

Scott's technical interests include 3D workstation visualization and interpretation, the analysis and compensation of 3-D seismic acquisition footprint in land and OBC program design, Vibroseis source effort optimization, 3D seismic data processing and depth imaging techniques and hydrocarbon attribute analyses including amplitude, AVO, Acoustic Impedance inversion, and other seismic or petrophysical attributes.

JOEL STARR

Joel Starr is the Ocean Bottom Seismic processing manager for Petroleum Geo-Services. He began his career in 1989 as a processing geophysicist for Halliburton Geophysical Services in New Orleans. In 1992 he relocated Houston, to join Halliburton's Ocean Bottom Cable technical staff which developed and supported shallow water seismic acquisition technology. He joined Output Exploration, which explores for hydrocarbons in Gulf coast Mississippi, Alabama and South Texas in 1994.

Joel received his B.S. in Geology from Juniata College in Huntingdon Pennsylvania. in 1985. After obtaining his degree, he went to work for the Pennsylvania Department of

Environmental Recourses. In 1987, he moved to New Orleans, Louisiana and received a M.S. degree in Geophysics at the University of New Orleans in 1990. Joel has been an active member of the SEG, SGS, and the GSH.

SECRETARY

Lorinda Driskill
Kathy Hardy

LORINDA DRISKILL

Lorinda Driskill completed her Bachelor's and Master's degrees from the Geology & Geophysics Department of Rice University. Her thesis research addressed anoxic basins of the Miocene Monterey formation (California). She has worked in exploration teams whose projects covered sub-Saharan Africa (Gulf), China (Pennzoil), offshore and onshore Gulf of Mexico, Argentina, Guyana, and Canada (BHP Petroleum), with a total of nine years of industry experience. She is Landmark-certified in SeisWorks, SynTool, seismic data management, and is currently pursuing OpenWorks System Administration and EarthCube certifications. Ms. Driskill is a member of the AAPG (19 years), SEG (9 years), Houston Geological Society (9 years) and Geophysical Society of Houston (9 years). She served as Secretary of the Geophysical Society during Wulf Massell's tenure as GSH President. For three years (1995-97) she chaired the GSH Christmas Party committee.

KATHRYN HARDY

Kathryn, Kathy, has been in the oil and gas business for 22 years, a member of GSH and SEG since 1977. She has served as an executive officer for the Coastal Bend Geophysical Society during the years 1984-1997 as Secretary, Editor, Treasurer, 1st Vice President, and President. She served as the Technical program chairman for the GCEDME in 1993. She is currently the GSH directory chairman. Kathy has a degree in Math from the University of Texas 1975. She recently

Candidate Bios continued on page 10

Candidate Bios continued from page 9

moved to Houston with Pioneer Natural Resources as Staff Geophysicist. After the office closure, she has returned to her consulting practice started in Corpus Christi in 1986. Kathy can offer the GSH the humor and persistence necessary for the executive officers of the Geophysical Society of Houston.

TREASURER

Phil Inderwiesen
John Anderson

PHIL INDERWIESEN

Phil has worked at Texaco for the past 20 years as a geophysicist. He received a Ph.D. in Applied Geophysics in 1987 from the University of Houston. Work experience includes seismic data interpretation and processing, special projects, and applied research in geostatistics and borehole seismology. He is co-author of the SEG Monograph No. 6, "Fundamentals of Seismic Tomography." Past GSH activities include Reservoir Geophysics SIG Chairman as well as providing support for the Environmental Geophysics SIG. His qualification for Treasurer is a balanced personal checkbook.

JOHN ANDERSON

John Anderson received a MS degree in Physics from the University of Illinois in 1976. Starting in 1978, he worked 13 years for Shell Oil Company serving as a Party Chief for a California land acquisition crew, spending two years as a user advocate at the Information Center and then moving to New Orleans to do interpretation and processing for GOM lease sales. In 1991, he went to work for PGS Tensor doing both development work and project work with depth migration algorithms. He is the manager of the Depth Imaging Group which is responsible for development and deployment of PGS Tensor's depth imaging software worldwide.

EDITOR

WENDY JONES

Wendy Jones is a graduate with a Bachelors of Science degree from Texas A&M and has been an employee of Diamond Geophysical Service Corporation for the past three years. As a Marketing Assistant, she coordinates licensure of seismic data in the Gulf of Mexico, processes data orders, and creates graphic displays and advertisements for the marketing department. Wendy is also in charge of organizing, editing, and producing the Diamond News newsletter which is issued quarterly for her company. She has recently joined the GSH staff to become editor of the newsletter.



GSH/HGS Continuing Education presents:

Career Decision Workshop:

In order to solve a problem, you need to describe it. This workshop adds the words to describe it.

Instructor: Dr. John Dyck of Drake Beam Mortin, Inc.

Date: Session A: Thursday April 8, 1999

Time: 8:30 am - 12:30 pm

Location: Veritas, 3701 Kirby, please check in with the 4th floor receptionist

Reservations: Please telephone the HGS office (713-785-6402) or e-mail.

Note: A second session "Session B" will be held on Wednesday May 5, 1999

Description: Attendees walk out with an action plan for the next day, next week, and next month after assessing skills, interests, and personality for best fit. This workshop will be given twice, once in April and again in May. Class size is limited to 20-25. Cost is \$25.00 to cover the price of materials. This class is being underwritten by Drake Beam Mortin, Inc. and the HGS / GSH.

Speaker Biography.

John W. Dyck, Jr., Ph.D. serves as the staff psychologist and managing consultant in Houston. In addition to performing psychological assessments for executive and senior clients, he provides career counseling, management consulting, and executive coaching to numerous businesses and executives at all organizational levels. Drake Beam Morin is the worldwide leader in providing strategic consulting solutions that align organizational and individual goals, values, and competencies to achieve business results and career success. Drawing on its incomparable experiences, resources, and global network, Drake Beam Morin delivers state-of-the-art human resource services that focus on employee selection, development, retention, and outplacement, as well as individual career management and transition. With more than 180 offices in over 35 counties, Drake Beam Morin is a subsidiary of Harcourt General, a \$4 billion publishing, education, and specialty retailing company

ANNUAL MEETING

and

Bar-B-Que

5:00 p.m. to 8:00 p.m. on Thursday, May 13, 1999
at the St. Arnolds Brewery

**RAIN
OR
SHINE**

**Come Enjoy A Great Evening
Welcome The New GSH Officers**

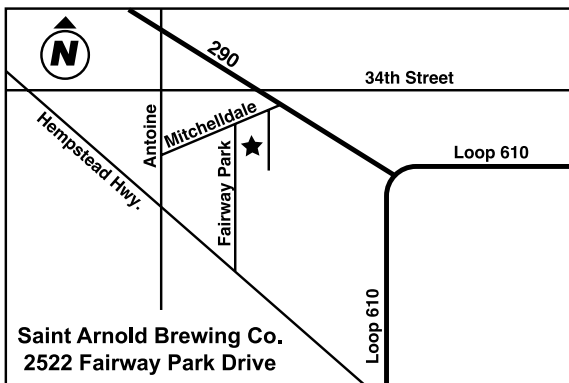


Tickets:

Only \$17.00 Each
If Purchased By May 12, 1999
\$20.00 Each At The Door

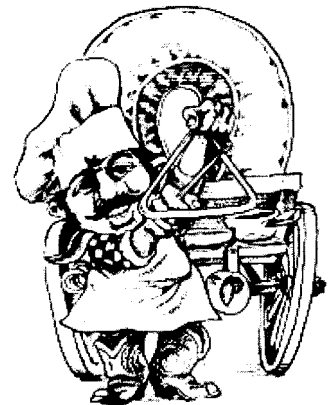
Note:

We Have To Guarantee The Number
Of Dinners, So You Must Prepay To
Be Guaranteed Your Meal.



WE WILL BE SERVING

- ☞ Draft Beer
- ☞ Bar-B-Que Brisket
- ☞ Sausage
- ☞ Chicken
- ☞ Beans
- ☞ Cole Slaw
- ☞ Bread
- ☞ Pickles
- ☞ Onions
- ☞ Soft Drinks
- ☞ Iced Tea



Annual Meeting and Bar-B-Que

Thursday, May 13, 1999

Name: _____ Phone: _____

Name: _____ Phone: _____

Number Tickets Desired: _____ X \$17.00 Each = \$ _____

Enclose Check Payable To: Geophysical Society of Houston

And Mail To:

7457 HARWIN DRIVE, SUITE 301 • HOUSTON, TEXAS 77036 • (713) 785-6403
Questions to Jim Moulden, 281-293-5711, email james.k.moulden@usa.conoco.com

Tickets Will Be Held At The Door. If Your Company Is Purchasing A Block Of Tickets - Please Indicate Names On The Form To Eliminate Any Confusion At The Door.

Ticket Orders Must Be Received By May 12, 1999 to Obtain \$17.00 Price.



Offshore Technology Conference 1999

May 3-6

Correction: In the March issue on page 9 under highlights of the OTC, a location at the Westchase Hilton was given for OTC events. The OTC is of course at the Astrodome.

World's Largest Show on Offshore Technology to Attract Over 50,000 to Houston

RICHARDSON, TEXAS, U.S.A. (22 January 1999 - The 1999 Offshore Technology Conference (OTC), which will take place 3-6 May at Astrodome U.S.A. in Houston, Texas, is expected to attract more than 50,000 engineering and technical professionals involved in all aspects of offshore oil and gas resources development.

This year's conference builds on 31 years of success as the oil and gas industry's foremost event devoted to the development of offshore exploration, development and environmental protection. OTC '99 will feature a heralded conference program, highlighted by almost 300 presentations comprising nearly 50 technical sessions, as well as its largest exhibition in almost 15 years.

More than 1,800 companies will fill the Astrodome exhibit halls at OTC '99 with exhibits showcasing products and services designed specifically to meet the challenges of offshore exploration and production and represents every facet of offshore operations around the world. This year's exhibition will occupy over 375,000 net square feet and represents OTC's biggest exposition since 1985.

Founded in 1969, the Offshore Technology Conference is held annually in May at Astrodome U.S.A. in Houston, Texas.

Geophysical Highlights of the Forthcoming 1999 Offshore Technology Conference May 3 - 6, 1999 in Houston, Texas.

SEG Sponsored Technical Luncheon (May 5, 12:00) Jamie Robertson of Arco will discuss "preparing for the upcoming oil price rise".

- Technology Integration for Reservoir Characterization and Monitoring (May 3, 9:30 - 4:00) Morning Keynote Speaker, Robert Heming of Chevron, will call for radical changes in work practices. Afternoon Keynote Speaker, John Hopkins of Conoco, will provide a perspective of reservoir technology into the next millennium.
- Deepwater Exploration and Development (May 4, 9:30 - 4:00) Keynote Speaker, William T. Drennen III of Exxon, will set the stage by contributing a high-level perspective of the economic and technical issues involved in

deepwater exploration and development. The afternoon session will accent getting the stratigraphy right in the structure/stratigraphy relationship.

- Multi-Component 3-D Seismic Technology (May 5, 9:30 - 4:00) This session will address the issues of how oil companies are managing the use of marine multicomponent seismics to find and produce oil and gas more economically.

Keynote Speaker

Keynote Speaker, Jack Calswell of Geco-Schlumberger, will set a context for the competitive arena of multiple acquisition/processing technologies. Afternoon presentations will highlight 4C acquisition, processing and interpretation.

Alf Klaveness is looking for Room Monitors for the Technical Sessions at the OTC in May. Contact him at 713-468-5123

For more information, contact OTC at 1-972-952-9494 or email: otc@otcnet.org.

GSH 1999 Spring Symposium/15th Annual SEG Gulf Coast Technical Meeting and Virtual Reality Tour

Thursday and Friday April 15-16, 1999
University of Houston Hilton Hotel, Houston, Texas
on Exploiting Immersive Environments in Oil & Gas

H. Roice Nelson is coordinating as General
Chairman, 713.974.6907

H. Roice Nelson, Jr. • Continuum Resources
Corporation
2424 Wilcrest #100, Houston, TX 77042 •
713.974.6907 facsimile 713.974.1496 •
roice@continuum-corp.com

NAME: _____

MEMBER #: _____

COMPANY: _____

ADDRESS: _____

PHONE: _____ FAX: _____

EMAIL: _____

Send registration and check or credit card info to:
GSH • 7457 Harwin Dr., Suite 301 • Houston, Texas 77036
or fax to 713/785-0553

Check One: Day 1: ___ (\$80.00 - limit 400 registrations)

Both: ___ (\$150.00 - limit 200 registrations)

Credit Card (Circle One): M/C VISA AMEX

ACCOUNT # _____ EXP. DATE _____

BILLING ADDRESS: _____

SIGNATURE: _____ DATE: _____

Speakers on the first day include

- a. Dave Homan, NASA Johnson Space Center, "Practical Use of Virtual Reality at NASA"
- b. Jeevan Campos, Gulf Coast Regional Maritime Technology Center, "Visual Simulation of the Mobile Offshore Base, The Worlds Largest Floating Structure"
- c. Dr. Creve Maples, MuSE Technologies, "Maximizing Human-Computer Interaction in Applications Ranging from Automobile Tire Design to Spatial Data Base Retrieval"
- d. Dr. Bowen Loftin, VETL, "Virtual Reality in Education, Medicine, and Engineering"
- e. Dr. Roger N. Anderson, Lamont Doherty Earth Observatory, "Immersion in the Business Side of E&P"
- f. Tracy Stark, Arco, "Oil Industry Experience with Immersive Environments"
- g. Mike Zeitlin, Texaco, "Lessons Learned in Implementing Oil & Gas Visualization Technologies"

Sites that will be visited on the second day include:

- a. The Virtual Environment Technology Laboratory CAVE (tm) at The University of Houston
- b. Continuum Resources, CoRePlex Theater
- c. Rice University's Pyramid Desk in conjunction with T-Surf and Go-CAD
- d. Landmark Graphics Corporation, Decisionarium
- e. Schlumberger, VisionDome (tm)
- f. Veritas Marine Surveys' PowerWall and tentatively
- g. Arco Research in Plano via a remote demonstration
- h. Senable's Phantom

Day 1 will be at the University of Houston Hilton Hotel, 4800 Calhoun.

Parking at the hotel is \$3.25.

Outside, 1-day parking permits may be purchased at the Information Booth at Gate 1 for \$2.00.

Day 2 will start at the new offices of Continuum Resources/Energy Innovations, 11700 Old Katy Road, Suite 100, on the north side of I-10 at Kirkwood. The office building is Energy Tower One.

3rd International Data Integration and Management Conference

**April 26-28, 1999 at the
Houston Marriott
Westside Hotel, Houston,
Texas USA**

This conference combines the present and future of data management and integration. Experts shaping the face of these rapidly changing areas discuss petroleum data optimization. The conference and exhibit provide an excellent return with practical and real world tools for growing demands. It is a cornerstone event for the industry with worldwide delegates conferring on the leading edge of petroleum data strategies, integration, standards, plus tools and applications for the 21st Century.

Phone 214-841-0044

E Mail:

Crouse_Phil@msn.com

<http://www.ppdm.org/>

PNEC_sch.html

Legislative Up-date

There is activity again this year in the Texas Legislature toward the licensing of Geologists, Geophysicists, and Soil Scientists. For current information try the following home page: <http://rampages.onramp.net/~wkc/texasgeo.html>. The GSH has taken no position on the current efforts, but feel that the members should be informed of the licensure issue.

If you have not logged on to the Task Force Home Page in a while, this is what is happening.

TAPG/Goolsby introduced HB34 which was sent to the Licensing and Administrative Committee.

TAPG would not negotiate with the engineers or with the Task Force

TAPG approached Brown and asked him to introduce their bill in the Senate

Steve Stagner (CEC) told Clayton that HB34 was dead.

Clayton went to Brown and together they went through HB34 and our old CSSB486 from 1997.

Brown subsequently introduced SB129 (the old CSSB486)

It turns out, now that Steve Stagner has negotiated with TAPG and TAPG has accepted the engineering language that they vowed that they would never have in their bill.

HB34 has some fatal flaws. It licences geologists, geophysicists and soil scientists all as geoscientists, without distinguishing between them or delineating the educational and experience requirements for each.

The introduced version of HB34 available on Texas Legislature Online (linked from the TASK FORCE home page exempts everyone from practicing in the geosciences (sec. 6.02 #2).

We are trying to get SB129 through the Senate so that HB34 will not go through in with its present language. If TAPG will accept the language changes we propose, and agree to some other arrangements in writing, we will work together with them.

Kevin Coleman, Texas section AIPG

SOCIETY OF INDEPENDENT PROFESSIONAL EARTH SCIENTISTS

**Presents
A CONTINUING
EDUCATION SEMINAR
HELPING THE
SELF-EMPLOYED TO
SURVIVE**

**Tuesday, May 18, 1999
8:00 a.m. to 5:00 p.m**

In Memorium

Charles E. Williams

Charles E. Williams, who was a Life Member of the Geophysical Society of Houston, passed away on January 15, 1999, at the age of 87.

Charles was born in Somerville, Texas, and attended Southern Methodist Engineering School. (Class of '34). His geophysical career began on a GSI field crew in 1936, and extended from field office through supervisory positions for several contractors. He also consulted for various petroleum exploration companies. He spent over eight years in Venezuela, Columbia, and Brazil. He was an original incorporating officer and director of BMA, Inc. Charles was an Emeritus Member of SEG (1939).

Worldwide Technology Forum

May 10-12, 1999
Adam's Mark Hotel
Houston, Texas



During this three-day event, technology tracks will focus on innovations in the use and application of technology, as well as emerging technology trends. Technical and Case Study presentations, panel discussions and update sessions will follow these technology tracks:

**Shared Earth Modeling:
Revolution in the White Space**

**Advances in Integrated
Interpretation and Processing:
Reshaping the Industry's Future**

**Integrated Information
Management: Driving the E&P
Decision Chain**

**Immersive Technologies:
Enabling Collaborative Teams**

**Reservoir Management and
Simulation: Strategies for a
Complex World**

**Advances in Integrated Well
Planning, Drilling, and
Production Monitoring: Bridging
the Gap**

**The Economies of Knowledge:
Managing Your Virtual Assets**

**Advances in Computing
Environments: Looking Over the
Horizon**

Landmark invites you to attend the 1999 Worldwide Technology Forum, May 10-12, 1999 at the Adam's Mark

Hotel in Houston. This annual conference provides a unique forum focused on enabling you to gain the greatest business and technical value from Landmark's spectrum of integrated solutions systems, software, and services.

This is the only event of the year in which you'll have the opportunity to see virtually everything Landmark has to offer, as well as exchange information with your peers, our software developers, and industry experts. For years, attendees have told us the Forum has become a vital part of their professional development and strategic planning.

The theme of the 1999 conference is "Beyond the Boundaries." We'll address an array of significant information technology breakthroughs that are creating the new economics and reshaping our industry as we approach the next millennium. Our agenda includes technical presentations and case studies, panel discussions, update sessions, exhibits, and demonstrations by Landmark, GeoGraphix, Halliburton, and many third-party representatives.

Targeted sessions throughout the three-day conference will provide valuable, relevant, and up-to-date information for E&P and IT professionals at the executive, management, and technical levels.

Regardless of where your primary interest lies, we hope you'll join us for

Landmark's sixth annual Worldwide Technology Forum.

**Three easy ways to register...
Registration Information**

There are three easy ways to register for the 1999 Worldwide Technology Forum mail, fax, or electronically. To register electronically using your credit card, see <http://www.cmsusa.com/landmark/>. If you do know someone who does not have access to the internet, please e-mail their name and complete address to forum@lgc.com and a registration packet will be mailed to them. Complete a separate form for each person registering from your company.

**Registration Changes and
Inquiries**

Registration changes and inquiries should be sent to:

1999 Landmark WWTF
911 Busse Highway
P.O. Box 998
Park Ridge, IL 60068
Fax: (800)813-3459 or
(847)698-9245 if outside the U.S.
Phone: (800)823-1532 or
(847)384-7729 if outside the U.S.
Monday-Friday, 8:30am-5:00pm,
Central Time.

To avoid duplicate charges to credit cards, DO NOT mail a copy of your registration form once it has been faxed or submitted via the worldwide Web.



6th ANNUAL GSH/HGS/HAPL BASS TOURNAMENT

May 1 & 2, 1999

This year the 6th Annual GSH/HGS/HAPL Bass Tournament will once again be held at Harbor Marina on Toledo Bend Reservoir. We are looking forward to an even bigger and better weekend of fishing fun and friendly competition along with the traditional Saturday Night Fish Fry with door prize drawing that evening.

Prizes will be awarded for overall first, second, and third place team total weight of black bass as well as individual GSH, HGS, HAPL, and Guest prizes for biggest bass caught from each group. A Big Bass Pool for each day will be available as well. Each participant will be provided with a copy of the specific tournament itinerary, rules sheet, and prize breakdown with their tournament registration. For more information please contact:

Greg Doll (HGS & GSH) (713) 658-8096ext11..Office (713) 951-0343..Fax E-Mail to: gqdoll@msn.com
Bill Zwiener (HAPL) (713) 650-0903..Office (713) 650-3547..Fax

Once again, Harbor Marina has reserved a block of rooms for our tournament and several mobile homes are available as well. To make reservations, call (409) 625-4912 and be sure to mention that you are participating in this tournament. The rates are reasonable and there is a limited number of rooms available so reserve your accommodations as soon as possible! Frontier Park Marina (409) 625-4712 also has a few cabins and several mobile homes available within one mile of Harbor Marina.

Corporate and individual contributions are appreciated and will be acknowledged on a sponsor board at the weigh in station and in the respective organization newsletters following the tournament. This is a great way to entertain friends, business associates, and clients, so spread the word!

GSH/HGS/HAPL BASS TOURNAMENT REGISTRATION FORM

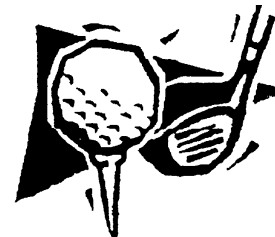
NAME: _____ AFFILIATION: _____
 ADDRESS: _____ PHONE: _____
 PARTNER: _____ AFFILIATION: _____
 PHONE-OFFICE: _____ PHONE-HOME: _____
 E-MAIL: _____

Please clip this form and return it with your payment, make your check for \$50.00 per contestant payable to:
GSH/HGS/HAPL BASS TOURNAMENT and Mail to: Mr. Bill Zwiener, Jones & Zwiener, Inc., 1010 Lamar, Suite 650, Houston, Texas 77002

Registration Fee: \$ _____ + Sponsor Contribution: \$ _____ = **TOTAL \$** _____



Golf Tournament and Dinner Geophysical Society of Houston



DATE: Monday, May 24, 1999
 PLACE: Kingwood Country Club
 TIME: 8:00 AM Registration
 10:00 AM Tee off (Shotgun)

FORMAT: Four Man Florida Scramble
 COST: \$110.00 Members and Guests
 DEADLINE: April 15, 1999

MAIL ENTRIES TO: Fairfield Industries • 14100 Southwest Freeway, Suite 600 • Sugar Land, TX 77478 • Attn: George Lauhoff

MAKE CHECKS PAYABLE TO: Geophysical Society of Houston

GOLFERS READ CAREFULLY: The three courses at Kingwood are available to the first 432 entrants. No entry will be accepted until the entry form and fees are received in full. **NO EXCEPTIONS!!!**

MULLIGANS \$5.00 EACH (MAX. 2/PERSON) AVAILABLE AT CHECK-IN

If you are not playing golf but want to join your friends attending the dinner following the tournament, please send in \$15.00 per person to cover the cost of the dinner. Make a note at the bottom of the check "Dinner Only". These checks should also be payable to the Geophysical Society of Houston.

GOLF TOURNAMENT FORM

You may select your own foursome, if not you will be assigned to a group. The first name listed will be considered the TEAM SPOKESPERSON.

Name: _____	Name: _____
Circle: Member Guest	Circle: Member Guest
Company: _____	Company: _____
Phone: _____ HDCP: _____	Phone: _____ HDCP: _____
Name: _____	Name: _____
Circle: Member Guest	Circle: Member Guest
Company: _____	Company: _____
Phone: _____ HDCP: _____	Phone: _____ HDCP: _____

Course Preference: (Circle One) ISLAND LAKE MARSH DEERWOOD

Annual Honors and Awards Banquet

Thursday, May 6, 1999

Lakeside Country Club

Honoring:
Art Ross
Bill Gilchrist
Leon Thomsen
Phil Schultz

On Thursday, May 6, 1999, the GSH will host its **Annual Honors and Awards Banquet** in the Grand Ballroom of the Lakeside Country Club. Our special guests will be your friends who have 50 and 25 years of membership in the SEG along with this year's GSH Honorary and Life Members. Bring your spouse or guest and enjoy cocktails (cash bar) from 6:30 - 7:15 pm in the Pine Lake Room. Then at 7:15 pm, enjoy an elegant seated dinner and the music of Marshall Maxwell. SEG President Brian Russell, will give the Presidential Address and assist GSH President Bob Tatham in presenting the awards.

The cost for the dinner is \$30.00 per person, with pre-paid reservations necessary to accommodate the guarantee requirements of Lakeside Country Club. Make your check payable to the GSH and forward it by April 30th to Carmen M. Comis, c/o Paradigm Geophysical Corp., 1200 Smith Street, Ste. 2100, Houston, TX 77002. Please reference "Awards Banquet" on your check.

Menu

Chicken & Leek Soup
House Salad
Salmon Poblano
New Red Potatoes
Zucchini & Squash Medley
Ices and Fresh Berries

	I-10 Katy Freeway	
	Memorial	
Lakeside Country Club	Wilcrest	Beltway 8
	Briar Forest	
	Westheimer	

RESERVATION FORM

Name: _____

Guest: _____

No of Guests: _____ Check No: _____

Make your check **payable to the GSH** and forward it by April 30th to:
 Carmen M. Comis
 c/o Paradigm Geophysical Corp.
 1200 Smith Street, Ste. 2100
 Houston, TX 77002

Please reference "**Awards Banquet**" on your check.

Annual Honors and Awards Banquet

Thursday, May 6, 1999 • Lakeside Country Club

GSH LIFE MEMBERS / HONORARY

Art Ross • Bill Gilchrist

Leon Thomsen • Phil Schultz

SEG 50 YEAR HONOREES

Robert A. Gilmore
J. A. Keeling

Alf Klaveness
Harold F. Patterson

Edwin R. Scudday
C. L. Winn

SEG 25 YEAR HONOREES

Halbert E. Adams
Jerald M. Adams
Michael S. Adams
James L. Allen
Steven Alvarez-Wiemann
G. Leigh Anderson
Otah Don Baldwin
Jack W. Ballard
Jack R. Bantarri
Pierre Benichou
Swapan Kumar Bhattacharjee
Eugene Sherwood Blasdel
Marion Ray Bone
Victor C. Boyd
Timothy S. Brown
Kenneth Bryan Butler
George Ellis Buzan
Luis L. Canales
Kenneth Walter Carlson
Arthur C. H. Cheng
Shiang-ho Cheng
Yu Taik Chon
Craig William Cooper
Lynn Allison Coyle
Richard L. Crider
Jerome S. Danburg
Robert James Davidson

A. C. Dubey
Townsend H. Dunn
Joseph K. Ellis
Warren Lee Franz
Francis M. Gardiner
David Russell Glenn
Sidney Cyrus Gold
David Edwards Graham
John Travis Griffin
David J. Hall
Ernest M. Hall
Richard J. Heaney
John R. Hopkins
Stephen Foster Hough
Daniel William Hughes
Peter Kane
Donald Curtis Lancon
William R. Landwer
Gary Lloyd Lenz
William M. Lloyd
Walter Stanley Lynn
Scott Lory Mattison
Richard Michael McCormic
James M. Medlin
James William Milliken
Dennis Gene Myers
Kenneth A. Nadolny

Michael Edward Navolio
Dianne Broadway Padgett
George Donald Pality
Adrien Paul Pascouet
Gerald Raymond Phillips
Ugo C. Picchiani
Roger Wilson Pierce
Jeffrey F. Reagan
Walter Ritchie
Gregory L. Rose
Dennis A. Rossi
Allen Ray Schmidt
Philip S. Schultz
Pedro Jose Segura
Lester K. Sisemore
Brian Starrett
Michael J. Stearns
Richard K. Stevens
Taha Mohammed Taha
George Edward Threatt
Billy Gerald Webster
Robert A. Wiener
Harvey Daniel Wilson
Michael R. Wisda
Carol J. Zimmerman

Internet Job Hunting and Networking for Geoscientists

Instructors: Kara Bennett, Dave Crane, Inda Immega, Alan Jackson, Bill Mathias

Date: Saturday April 24, 1999

Place: Room 904 in the Phillips Petroleum Co. office in the Chase Bank Building., 6330 West Loop S., on the corner of Bissonnet and the west loop (610). Parking available around building and in covered lot adjacent to building.

Time: 9:00 am - 4:30 pm

Cost: In advance: (before April 22) \$20, non-HGS members \$30. At the door, member \$25, non-member \$35. Non-members will receive a \$10.00 (50%) discount toward HGS membership for the first year.

To Register: Send check by April 22 to HGS, 7457 Harwin, Suite #301, Houston, TX, 77036-2190

Contact: Jim Crabbe (281) 240-8333, email

Note: BBQ lunch is included. *If you are unable to attend this session, check the HGS Web Page Calendar for future class dates.*

Description:

Developing proficiency in the use of the Internet is becoming more and more important for geoscientists. For many of us, this new "tool" has already become an integral part of our daily lives. Examples can be found in the way we do our work, communicate with friends and colleagues, access data, do research, and shop for goods and services. In this time of downsizing, use of the Internet can be especially helpful in locating new jobs and keeping our personal "networks" up to date. With that in mind, this course has been developed to help HGS members use the Internet for the job search.

Designed for the beginning to

intermediate user, it gives the beginning user a firm grounding in the basics then progresses to more advanced topics. Attendees will learn how to get connected to the Internet, use search engines, navigate geoscience and other job-hunting web sites, tailor resumes for email and scanning, build personal resume web pages, and develop strategies for today's job market. Each attendee will receive a disk containing web addresses to job search sites and class presentations, example "home page" html code, and other useful information.

Agenda:

- History and Organization of the Internet
- Getting connected - Hardware, Software, Cost
- Using Search Engines - Finding Companies, People, Addresses
- Job Search Sites and Networking
- Tailor Your Resume for Email and Scanning
- Building your own "Home Page"
- Real World Strategies for the Job Search

Class Outline

9:00 Jim Crabbe	Introduction	13:40 Kara Bennett	Tailoring Your Resume for Email and Scanning
9:15 Alan Jackson	History and Organization of the Internet		Best foot forward
9:45 Dave Crane	Getting Connected		Formats and problem formats
	Hardware, software, and cost		Submitting resumes (on-line, email, fax, etc.)
	Basics for a job search	14:10 Inda Immega	Building Web Pages
	Add-ons to "tune" your PC		Putting your resume on your own web site
10:30 Break		14:55 Break	(collect questions for Q&A session on 3x5 cards)
10:40 Dave Crane	Using Search Engines	15:05 Bill Mathias	Real World Strategies
	Kinds of search engines and how they differ		The current job market
	Finding sites, companies, people, and addresses		Recruiters vs outplacement and other employment services
11:25 Lunch			How recruiters use the internet
12:30 Kara Bennett	Job Search Sites and Networking		General recommendations
	Geoscience employment		Q&A for this speaker
	Other employment	15:50 All Instructors	General Q&A
	Skills data bases	16:20 Jim Crabbe	Wrap Up
	Networking	16:30 End of Sessions	
13:30 Break			

APRIL 1999

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5 HGS Dinner Meeting	6 Reservoir Geophysics SIG	7 GSH Technical Breakfast	8 Board Meeting (HESS) Career Decision Workshop	9	10 Houston Earth Day
11 AAPG San Antonio	12	13	14 HGS Environ. & Eng. Dinner Mtg.	15 NEWSLETTER DEADLINE Spring Symposium	16 Spring Symposium	17 HGS Day at HMNS
18	19 HGS International Expl. Dinner Mtg.	20 GSH Luncheon	21 Data Processing SIG	22	23	24 HGS Short Course
25	26	27	28 HGS Luncheon	29	30	

GEOPHYSICAL SOCIETY OF HOUSTON

7457 HARWIN DRIVE, SUITE 301
HOUSTON, TEXAS 77036
(713) 785-6403



ADDRESS SERVICE REQUESTED

The GSH will soon be delivering its current mailing database for inclusion in the Houston Geophysical / Geological Society's Directory. If you are aware of any changes that need to be made to listings, please notify the GSH / HGS office immediately. Your mailing information is as it appears on your mailing label and other information can be checked using the "Search for Members" option at <http://www.hgs.org/>. This site also contains information about the online database.

Please make corrections by email or by faxing a corrected copy of this label to 713-785-0553.

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