Geophysical Society of Houston

VOL. 37, NO. 1 NEWSLETTER AUGUST 2002

Please Join us for the

2002 ICEBREAKER

On Thursday, September 12 at the HESS Building
From 5 pm to 7 pm @ 5430 Westheimer
GSH will provide hors d'oeuvres plus a cash bar.
$12 with reservation. $15 at the door.
Call, email or FAX reservations to the GSH office.

Technical Luncheon

Date: Tuesday, September 17
Time: 11:30 AM
Location: Hess Bldg.
Cost: $20 reservation, $25 at the door

Title: AVO & Beyond AVO

Speaker: Subhashis Mallick, Western Geco

Abstract:
AVO and Beyond
Subhashis Mallick, WesternGeco

Use of prestack data for quantitative analysis of hydrocarbon reservoirs has gained popularity over the past decades. Most of these quantitative studies rely on the seismic reflection amplitude variation with offset or AVO analysis. AVO makes a simple assumption

Technical Luncheon continued on page 9

President's Column

By Dan Ebrom
GSH President, 2002-2003
ebromda@bp.com

A new year's resolution

One of the features of the GSH is that our board serves from July 1 of one year to June 30 of the next. That gives the society a "year" that starts in the middle of summer, and gives me a second opportunity for making some New Year's resolutions. Like most resolutions, these will probably be observed more in the breach than in the observance, but we've all got to have goals.

A first resolution is to have more technical seminars, especially short "one-off" meetings on topics of current interest. We've already had some suggestions, such as a half-day AVO symposium. And there has been enough interest in rock physics that we are starting a new Special Interest Group (SIG) on this topic. (I'll be chairing this SIG

President's Column continued on page 6

Renew Your Membership

NOW!!!

Call the GSH office with credit card.

Its that easy!

I N S I D E T H I S I S S U E

GSH Meetings

GSH Technical Luncheon
September 17 1
SIG Meetings 6
SEG 2002 11

Articles and Comments

President's Column..... 1
Honors & Awards Ceremony..... 4
Geophysical Auxiliary..... 7
Saltwater Tournament Results 8
Sporting Clays..... 10

GEOPHYSICAL SOCIETY OF HOUSTON

Joan Henshaw, Office Manager • 10575 Katy Freeway, Suite 290 • Houston, TX 77024 • Office Hours 8 a.m. - 5 p.m.

Phone: (713) 463-9477 • Fax: (713) 463-9160 • Event Reservations Number: (713) 463-8920

email: joan@hgs.org • website - http://gsh.seg.org

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

		PHONE	FAX	E-MAIL
PRESIDENT	Dan Ebrom	281/366-3011	281/366-7561	ebromda@bp.com
Corp. Relations	Pat Starich	281/654-5036	281/654-5766	patrick.j.starich@exxonmobil.com
Historian	Art Ross	281/360-9331		art@dellnet.com
Honors & Awards	John Sumner	713/431-6796	713/431-6094	john.r.sumner@exxonmobil.com
Museum	Tom Fulton	281/242-1806		etinsl@flash.net
Nominating	Dave Agarwal	281/920-4450	281/920-1576	dave0836@aol.com
Scholarship Liason	Art Ross	281/360-9331		art@dellnet.com
PRES.-ELECT	Roy E. Clark, Jr.	281/654-5651	281/654-5891	roy.e.clark@exxonmobil.com
Academic Liaison	Hua-Wei Zhou	713/743-3424	713/784-7906	hzhou@uh.edu
Advisory	Lee Lawyer	281/531/5347		llawyer@prodigy.net
Employment Ref	Sam LeRoy	281/556-9766	281/556-9778	earthview@aol.com
Finance	Shane Coperude	281/275-7514	281/276-7660	scoperude@fairfield.com.
Office	Hugh Hardy	713/729-9208	713/726-0456	mghwh@aol.com
Volunteers	Jerry Donalson	713/464-6188	713/464-6440	jdonalson@seismicmicro.com
FIRST VP	Pat Peck	713/461-7178	713/461-2788	pat.peck@oildata.com
Continuing Education	Mike Fenton	713/215-7452		mike_fenton@oxy.com
Speakers	Jim Schuelke	713/431/7620	713/431-6333	james.s.schuelke@exxonmobil.com
Tech Breakfasts	Karl Seibert	713/339-1616		kseibert@advanceddatasolutions.com
Tech Luncheons	Seth Berman	281/275-7506		seth_quake@yahoo.com
Tech Committee	Roy E. Clark, Jr.	281/654-5651	281/654-5891	roy.e.clark@exxonmobil.com
SIGS				
Data Processing	Karl Seibert	713/339-1616		kseibert@advanceddatasolutions.com
Potential Fields	Afif Saad	281/342-8575		AfifHSaad@netscape.net
	Bob Van Nieuwenhuise	281/679-2208		Bob.VanNieuwenhuise@pgs.com
Reservoir Geophysics	Alan Foley			alanfoley@aol.com
SEC. VP	Bobby Perez	281/240-1234	281/240-4997	rdphtx@aol.com
Annual Meeting	Jim Moulden	281/876-8665		jim_moulden@anadarko.com
Awards Banquet	Carmen Comis	713/393-4833	713/393-4801	ccomis@paradigmgeo.com
Golf Tournament	George Lauhoff	281/275-7623	281/275-7550	glauhoff@fairfield.com
Salt Water/Bass Tournament	Bobby Perez	281/240-1234	281/240-4997	r_perez@jdkseis.com
Shrimp Peel	Lee Shelton	713/789-2444	713/789-4449	LShelton@scacompanies.com
Sporting Clays	Steve Bircher	713/780-8334	713/780-8335	sbircher@hrs-us.com
Tennis Tounament	Joe Jones	281/438-5626	281/682-6928	
SECRETARY	Farrukh Ahmad	713/647-3499	713/647-3671	farrukh.ahmad@us.ep.totalfinaelf.com
Directory	Laura Self	713/952-7526	713/952-6784	eargle4@aol.com
GSH Membership	Hugh Hardy	713/729-9208	713/726-0456	mghwh@aol.com
Ladies Auxiliary	Luann Cefola	281/366-3422		cefolalm@hp.com
OTC Rep	Alf Klaveness	713/468-5123	713/468-0900	none
SEG Membership	Hugh Hardy	713/729-9208	713/726-0456	mghwh@aol.com
TREASURER	Frank Dumanoir	713/393-4881	713/393-4801	fdumanoir@paradigmgeo.com
EDITOR	Lee Lawyer	281/531/5347		llawyer@prodigy.net
Assistant Editor	John Sumner	713/431-6796	713/431-6094	john.r.sumner@exxonmobil.com
Company Contacts	Scott Sechrist	281/856-8029	281/856-7445	acoustic@airmail.net
Electronic Pub	Scott Sechrist	281/856-8029	281/856-7445	acoustic@airmail.net
Photography	John Freeland	713/689-2618	713/966-3084	
Publicity	Scott Sechrist	281/856-8029	281/856-7445	acoustic@airmail.net
PAST PRES	Dave Agarwal	281/920-4450	281/920-1576	dave0836@aol.com
PRIOR PAST PRES	John Sumner	713/431-6796	713/431-6094	john.r.sumner@exxonmobil.com
SEG SECTION REPS*	Steve Danbom	713/937-7530		steve.danbom@worldnet.att.net
	Hugh Hardy	713/729-9208	713/726-0456	
	Keith Matthews	281/2757598		kmathews@fairfield.com
	Mike Fenton	713/215-7452		mike_fenton@oxy.com
Alternate SEG Sec. Reps	Wulf Massell	713/650-3820	713/659-3735	wulf@epicgeo,com
	Art Ross	281/360-9331		artross@airmail.net
	Bill Gafford	281/366-7873		gafforwt@bp.com
	Pat Starich	281/654-5036	281/654-5766	patrick.j.starich@exxonmobil.com
	Shane Coperude	281/275-7514	281/276-7660	scoperude@Fairfield.com

Editor's Note

To insure your information reaches the GSH society members in a timely manner it must appear in the appropriate newsletter issue. Please note the following deadlines and plan your function's publicity strategy accordingly. Items must be received on or before the corresponding deadline date. Materials can be sent to Lee Lawyer at llawyer@prodigy.net with a cc to John Sumner at john.r.sumner-@exxonmobil.com. If you have any questions please call Lee Lawyer at 281/531/5347 or John Sumner at 713/431/6796.

2002 GSH Newsletter Deadlines

Issue ..... September 2002
Deadline .... August 6, 2002

Issue ..... October 2002
Deadline .... September 10, 2002

Issue ..... November 2002
Deadline .... October 8, 2002

Issue ..... December 2002
Deadline .... November 6, 2002

Announcements

Tennis Tournament
October 4, 2002
12 Noon
Chancellors Racquet Club

SEG Annual Meeting
October 6-11, 2002

Sporting Clays Tournament
October 19, 2002

Reservations

Make reservations by e-mail at joan@hgs.org and include your member number (found on Bulletin mailing label). Fax reservations to (713) 463-9160 or use the phone system at 713/463-8920.

Reservation Codes

Use these codes to make voice mail meeting reservations:

Technical Luncheon	**601**
Data Processing SIG	**602**
Potential Fields SIG	**605**
Environmental Applications SIG	**606**
Breakfast	**607**

The GSH would like to thank the following companies for their support as corporate members:

bp
Corporate Partner

ExxonMobil
Corporate Benefactor

EMERALD GEOSCIENCE RESEARCH
Corporate Benefactor

KERR McGEE
Corporate Sponsor

conoco
Corporate Underwriter

epic geophysical
Corporate Underwriter

INTERACTIVE INTERPRETATION & TRAINING, INC. Since 1988
Corporate Underwriter

Thank you for your supporting the GSH!

For information on how to become a corporate member or to endow a scholarship with an organization's name please contact Pat Starich (281) 654-5036 or the GSH office at (713) 463-9477.

GSH Honors and Awards Ceremony

Honorary Member

Alistair R. Brown

Alistair R. Brown is a Consulting Reservoir Geophysicist working out of Dallas, Texas. His specialties are interpretation of three-dimensional seismic data, stratigraphic interpretation, optimum use of interactive workstations and seismic reservoir identification and evaluation. He spends much of his time teaching interpretation methods and advising on interpretation problems worldwide. Alistair graduated from Oxford University in England, having attended The Queen's College and has 36 years of geophysical industry experience. He has been using 3-D seismic data since 1975 and interactive workstations since 1980. He has developed many new interpretation methods and is a widely published author in his field. The making of the first horizon slice was a particular accomplishment in 1979. The Fifth Edition of his book, Interpretation of Three-Dimensional Seismic Data (AAPG Memoir 42/ SEG Investigations no. 9) was published in November 1999 following previous editions in 1997, 1992, 1989 and 1986.

Life Member

Robert H. Tatham

Robert H. Tatham is a professor of Exploration Geophysicis in the Department of geological Sciences at the University of Texas at Austin and he holds the shell Oil Companies Centennial Chair in Geophysics. His previous industry experience includes research and exploration position with Texaco and a major international seismic contractor, Geosource.

In 1967, Bob completed his BS in Physics from California State University at Northridge and immediately began his career in Geophysics with Texaco. Initial activities at Texaco included processing of digital seismic data (then a new technology) and progressing onto interpretation of land data in East Texas, south Texas and the Gulf of Mexico. While working in this early assignment, Bob studied with the University of Houston and began studies at the Lamont-Doherty Geological Observatory of Columbia University and was awarded his PhD by Columbia in 1975.

Bob is quite actively involved in SEG activities. He served as an Associate Editor for Geophysics from 1990 through 1997, has been chair of the SEG Research Committee, where he continues active participation and has served as the President of the Geophysical Society of Houston (1997-1998), the largest section of the SEG. Continuing activities include involvement with integrating geophysical, geological and reservoir engineering activities.

Dr. Tatham has published extensively on a variety of topics in exploration geophysics, including the book, "Multicomponet Seismology in Petroleum Exploration", currently in its third printing, which he co-authored with Mike McCormack. His dozens of publications include not only numerous papers on Shear Wave topics but data processing and reservoir geophysics as well. He is an active member of the SEG, AAPG, SSA, AGU and SPWLA.

GSH President's Award

Scott C. Sechrist

Scott C. Sechrist studied Geology at Trinity University, received a B.A. in Geography/Remote Sensing from southwest Texas State University, a B.A. in Communication – Broadcast Media from S. F. Austin State University, and post graduate courses at HCC of Houston toward an M.S. in Geophysics/Geology. He has over 23 years of experience in subsurface mapping, seismic workstation interpretation, 2D & 3D seismic field acquisition, 3D prestack migration data processing, inversion, AVO and amplitude evaluation.

Scott has worked for or consulted with the Department of Energy, independents, and major oil companies. His primary areas of experience are Texas Gulf Coast onshore, GOM shelf slope and deepwater, Permian Basin and East Texas. Areas of international experience include Central Asia, SE Asia and West Africa.

Scott joined Panaco, Inc. in 1998 as Chief Geophysicist, specializing in 3D seismic interpretation for prospect mapping reservoir volumetrics and hydrocarbon attribute interpretation in Texas, Louisiana and the offshore GOM. Scott also has significant experience in UNIX and NT system administration, all types of seismic interpretation software and petroleum database management.

Scott is a member of national and local chapters of AAPG, SEG, SIPES, and SPE. He is a Director on the Board of the HGS until 2003, served as GSH second Vice President during 1999-2000 and chairs the GSH Electronic Communications & Technical Breakfast committees.

SEG 60 - Year Honorees

C.H. Broussard
Lynn D. Ervin
Sidney Schafer
H. T. Stommel
Booth Strange
Paul M. Tucker
Rudolf F. Weichert
Francis A. Roberts
Thomas R. Shugart
John P. Woods

SEG 50 - Year Honorees

Michael Alexander
George Amery
Archibald Armstrong
Wm. E. Laing
Richard L. Conroy
Milford H. Dingman, Jr.
Charles E. Edwards
Sam L. Evans
Leonard J. Eversull
Harry H. Hasenpflug, Jr.
Edmund S. Hastings
Robert F. Kraye
A.M. Olander
James R. Patch
John F. Reilly
Charles L. Robinson
Rodney J.H. Smith
Jack C. Weyand
Bill Woodham

Photos From the GSH Honors and Awards Ceremony

President's Column continued from page 1

for now, but I'd be delighted to pass the chairing of this SIG on to some other lucky GSH member! Drop me an email at ebromda@bp.com) Of course, structural imaging is still "King" in seismic technology, and depth migration looks to be a likely contender for next year's Spring Symposium. SEG would like for us to host more of their Continuing Education 1-day and 2-day courses, and we'd be especially interested in putting on the courses that folks missed at the annual convention, but would like to get a second shot at. Got a favorite SEG course you'd like to take? Send email to our 1st VP, Pat Peck (pat.peck@oildata.com).

A second resolution is to produce more programming that is relevant to our younger members. This programming should have both a technical and a career development aspect. On the technical side, we have had a series of tutorials proposed to give in-depth background on fundamental topics in exploration geophysics. On the career development side, we'll have speakers addressing how geophysicists rise in their own organizations (oil companies, major contractors, specialty shops). It would also be neat to have some successful independent interpreters speak about how they have managed their own careers. (If you would like to speak at one of these events, send me some email!)

A third resolution is to have more joint activities with our sister societies, especially the Houston Geological Society. Routinely, we have a joint technical dinner meeting in the spring of each year and, of course, the phenomenal shrimp boil each fall. Recently the boards for the GSH and HGS got together to brainstorm some possibilities. Some ideas were pretty tame, while others were definitely "outside the box" (such as a raft trip down the Brazos with pre-chosen sites trenched to display fluvial sedimentary patterns, and booths for supporting vendors along the river banks). If you've got an idea for a joint activity, why not fire off an email to yours truly?

My last resolution is simply to support and acknowledge (frequently!) the great work done by the volunteers, officers, and committee chairs. These are the folks who actually make everything work. Looking forward to an outstanding year!

SIG Meetings

POTENTIAL FIELDS

A New approach for Accessing and Distributing Potential Field Data over Networks

By Troy Wilson* and Ian MacLeod,
Geosoft Incorporated
* Speaker

WHERE:	HESS building, 5430 Westheimer, Houston
DATE:	Thursday September 19, 2002
TIME:	5:30 Social Hour; 6:30 Dinner; 7:30 Presentation
Cost:	$25.00

Contact: Afif Saad, Chair - GSH Potential Fields Group, at 281-342-8575 (AfifHSaad@netscape.net) or Bob Van Nieuwenhuise, Co-Chair at 713-735-6311 (BobV@pgs.com) by Tuesday, September 17, 2002 for reservations. E-mail is best because we can confirm your reservation. Please HONOR your reservation! We must bill no-shows!

Abstract:

With the increased use of potential field data collected and stored within exploration company networks, the use of virtual or remote teams to process, analyze, interpret and deliver data within an organization is becoming more important. The sharing and distribution of large volume data and results continues to be time consuming and inefficient in a workstation environment. The ongoing development of useful Internet and Intranet protocols for computers to access and share geo-data, both privately within an organization, and globally on the Internet is key to our ability to use this information efficiently.

The approach presented here examines the use of new data access protocols to move data from various data stores through a local Intranet or Global Internet into spatially aware interpretation workstation environments, GIS or thin Web clients. The process for accessing large volume spatial aware data can be separated into three stages: **discovery** , **exploration** and **exploitation** . "Discovery" is simply determining what data is available for our area of interest. Once we know data exists, we "Explore" the data to determine if it might be of interest to us, which normally involves obtaining metadata information about the data – things like resolution, survey parameters, etc. Finally, to "Exploit" the data for our project requires transport of the data into the context of the project and tools that we use. This includes windowing of the data, reprojecting to the appropriate coordinate system, and conversion to a format that our tools require.

In this presentation, we will describe the use of data access technology to catalog, store and serve regional and local data from the National Petroleum Reserve in Alaska into different client environments. We describe the Data Access Protocol (DAP), which is a suite of server applications that allow the optimal discovery and transfer of very large volume data between an Internet or Intranet client application and a hosting data server. In this case the data is varied in type from well point data, geophysical grids, images, GIS coverage and reports. The end user environments examined are web clients, GIS and a DAP enabled processing environment. We will show how the use of a single technology to support multiple data servers and workstations can improve the efficient use of and collaboration with potential field and other exploration data.

Potential Fields continued on page 7

Potential Fields continued from page 6

Biographies:
Ian MacLeod

Ian MacLeod received a B.Sc. in Geology and Physics from Queen's University, Kingston, Canada in 1978. Ian then joined the geophysical consulting firm Paterson, Grant and Watson (PGW) where he was active in the acquisition, processing and interpretation of many types of geophysical data for exploration and engineering studies throughout the world. In 1986, Ian co-founded Geosoft Inc., where he currently holds the titles of Chief Technologist and Director of Research & Development. During Ian's sixteen-year tenure at Geosoft, he has been the principal designer and architect for Geosoft's commercial earth science applications, including DAP, Oasis montaj, Sushi, and numerous related geophysical application suites. Geosoft software is currently used by more than 4000 geoscientists in 82 countries.

Troy Wilson

Troy Wilson received a B.Sc. in Engineering from Queen's University, Kingston, Canada in 1987. Troy worked for both, Geoterrex an airborne geophysical survey company, and Paterson, Grant and Watson (PGW), geophysical consultants, prior to joining Geosoft in 1990. Troy initially managed Geosoft's Technical Services group in Toronto, Canada before setting up Geosoft's first international office, in the United Kingdom, becoming the Managing Director of Geosoft Europe Limited in 1993. Troy returned to Toronto in 1997, where he currently holds the title of Global Business Officer. During Troy's twelve-year tenure at Geosoft, he has been a key force in building Geosoft's international markets.

Geophysical Auxiliary of Houston

The Geophysical Auxiliary of Houston, with Georgeann Massell as President, began the 2001-2002 year at the Houston Racket Club for lunch and a book review by Paula Scudday. Other luncheons included a style show and a program on how to accessorize clothing for travel and everyday wear. Special events included attending the filming of a Debra Duncan show at Channel 13 and the Spring Brunch at Lakeside Country Club.

The following ladies served as officers and committee chairpersons for the year:Georgeann Massell, Kathi Hilterman, Marinell Williams, Barbara Thigpen, Emilie Fulton, Betty Conroy, Jeanne Cooley, Donna Parrish, Linnie Edwards, Ruth Harrison, Jane Hasenflug, Jerry Templeton, Susan Graul, Cass Hanson and Carol Gafford. The Auxiliary extends a special thanks to them for all their time and energy and also to Western Geco for printing our yearbooks.

We sill begin our new year in September and welcome new members. Yearly dues are only Call Membership Chairperson Emilie Fulton at 281-242-1806 for information on how to join. The wife of any present or past member of the GSH or SEG, the widows of former members of the GSH or SEG and women members of these organizations are invited to join jus for our 2002-2003 events. For information on programs scheduled for the year, call Carol Gafford at 281-370-3264.

The Geophysical Auxiliary of Houston provides social activities for its members, contributes to the GSH Scholarship Fund and assists the GSH as needed.

Membership Report

New Members
Active
Fortenberry, Jeffrey S.
Scarlett, Joseph R.
Scoulios, Thomas E.
Sheline, Hans E.
Spark, Robert N.
Stewart, Jonathan

Associate
Berlau, Charles E.
Fisher, Perry A.
Sisk, Melinda A.
Terwilliger, John R.
Wilson, David V.
Zacharakis, Ted G.

Total
Active 1201
Associate 399
Comp 22
Emeritus 62
Honorary 27
Life 31
Student 18

Total 1760 (As of July 11, 2002)

There are approximately 200 members who have not renewed their membership. Many of these are the result of simple oversight. We get busy. We have vacations. There are priorities. But there are the obvious benefits of membership in the Geophysical Society of Houston. Renew today by calling the GSH office. It's easy. It's quick. Do it now.

2nd Annual GSH/HGS Saltwater Fishing Tournament 2002

This years Saltwater Fishing Tournament was a Big Success for both the Geophysical Society of Houston and the Houston Geological Society. The Tournament took place at Teakwood Marina, Village of Tiki Island, Galveston, Texas. We scheduled the Fishing Tournament on a Saturday, June 22, to get full family participation. Anglers fished the entire Galveston Bay Complex catching plenty of Redfish, Speckled Trout, and Flounder. We had three categories of participants: Anglers, Lady Anglers, and Junior Anglers. Anglers competed for the first, second, and third place Trophy Plaques sponsored by Manzanita. These trophy plaques were awarded to the Anglers for bringing in the Heaviest Redfish, Speckled Trout, Flounder, and Stringer (Combination of 1 redfish, 3 trout, and 1 flounder.)

This years winner's are:

First Place, Heaviest Speckled Trout: William Wilburn, 3 lb. 12 oz., Second Place, Joe Casarez, 2 lb. 5 oz., Third Place, Rich Thompson, 1 lb. 15 oz.

First Place, Heaviest Redfish: Dale Shipley, 8 lb. 12 oz., Second Place, Mike Naughton, 7 lb. 11 oz., Third Place, William Wilburn, 3 lb. 9 oz.

First Place, Heaviest Flounder: Dave Smith, 2 lb. 5 oz., Second Place, Steve Gillie,

First Place, Heaviest Stringer: William Wilburn, 13 lb. 7 oz., Dale Shipley, 8 lb. 2 oz., Third Place, Mike Naughton, 7 lb. 11 oz.

The Tournament was lot of fun for everyone. We ended up with 60 Anglers and lots more people just came to participate in the fun, cool refreshments, and Bar-B-Que. A special Thank You to the volunteers of this event: Joan Henshaw (GSH/HGS office) Patricia Perez, Tom Parsons (Rinalli Boats), Dale Shipley (Anadarko), Alan Grimes (M-W Paper & Graphics Supply), and Mary Thompson (Unique Digital Technology) for helping with the registration and preparation of the event.

We can't praise our sponsors enough for their support and generosity for this event. We need to give a "Special Thank You" to Gene Lindsay (GX Technology), Kenneth Mohn (Fugro Geoscience Division), Alan Grimes (M-W Paper & Graphics Supply), and George Lau off (Fairfield Industries) for sponsoring the Bar-B-Que. David Orchard (Manzanita) for sponsoring the Trophy Plaques. Ryan Clark (A2D Technologies) for sponsoring the Fishing Caps, and John Cramer (TGS-NOPEC), EMERALD GEOSCIENCE for sponsoring the Marina. Great door prizes were sponsors by Jim Allen (Sovereign Oil & Gas), Joe Cruso (Manzanita Alliances), Mark Dennis (Petro Log), Jerry McCormack (Indel-Davis), Jeanie Harris (American Shooting Centers), Patrick Klem (Polaris E&E Services), Steve Bircher (Hampson & Russell), Ed Woodruff (Southwest Canoe & Kayak), Steve Tyrrell (Tyrne Corp), Brian Naquin (Ovation Data), Lee Shelton (Subsurface Consultants), Greg Uhlig (Rinalli Boats), Diane Kraker (Administaff), Pat Peck (Hays Oil Data). Everyone received a door prize, but the GRAND DOOR PRIZE was a 36" Color TV donated by Ed Bush (CMS Oil & Gas Company).

We wish to thank everyone again involved with the "2nd Annual GSH/HGS Saltwater Tournament". We look forward to seeing this event grow with each coming year. The best advertisement is word of month, so please spread the word to your friends about the next fishing tournament.

Robert D. Perez, GSH/HGS Saltwater Tournament Chairman

2002 GSH Spring Symposium

The 2002 GSH Spring Symposium was held Tuesday, April 23 at the Westin Galleria. The topic was "Geophysical Applications to Pore Pressure Prediction". Attendance topped 70 at the all-day event, reflecting the growing recognition that pore pressure is a unifying concept that applies to prospectivity as well as drilling challenges. Kudos go out to GENE SPARKMAN, for organizing the conference ably and efficiently, as well as to SCOTT SECHRIST for providing PR and web help, and SHANE COPERUDE for logistical and treasury support! The speaker's list for the symposium included a wide range of contractors and oil companies. The talks and their speakers were

Seismic Pore Pressure Imaging
Stan Lee

Shear-Wave Applications to Pressure Prediction
Phil Heppard

Pore Pressure Prediction in Subsalt and Other Deepwater Gulf of Mexico Plays
Michael Smith

Velocity Inversion Compensation: A Processing Methodology Enhancement
Mark Herkommer

Seismic Pore Pressure Prediction Using Reflection Tomography and 4-C Seismic Data
Colin Sayers

Deepwater Geohazard Prediction Using Prestack Inversion of large offset P-wave data and rock model
Nader Dutta

Predicting shallow water flow zones from seismic, inversions and pore pressure models
Peter Trabant

Effects of overpressure on AVO response in the Gulf of Mexico
Keith W. Katahara

The Interplay of Structure, Pore Pressure & Prospectivity in the Mississippi Fan Foldbelt
Ted Dohmen

Geopressure and its Effects on Rock Properties in the Gulf of Mexico
Richard Verm

Improving Pressure Prediction Through Integration and Multi-Scale Analysis
Martin L. Albertin

Technical Luncheon continued from page 1

that every reflection event on the prestack seismic data is a primary P-wave reflection, and there is no contamination of these amplitudes from other wave modes. Using synthetic data for a finely layered elastic model, it is demonstrated that such simple assumptions are incorrect, and there is a lot of interference of P-wave reflection amplitudes with other wave modes, especially at high offsets/angles. To properly model such interference, it is necessary to go a step beyond AVO, a full-waveform prestack inversion where these effects are correctly accounted for. Such a prestack inversion has been successfully used in continuous prestack inversion, in a hybrid inversion scheme, and in geohazard studies like pre-drill pore-pressure prediction and shallow water flow analysis.

Prestack inversion is computer intensive, since it must compute many forward synthetic models to obtain an estimate of the optimum earth model at a given common midpoint (CMP) location. This limits application of this inversion method to geologically simple areas with little structural complexity. As the computers are becoming faster every day, it is expected that in the near future it will be possible to efficiently compute forward prestack seismograms for complex models, and apply prestack inversion over geologically complex areas.

Using a variety of synthetic and real data examples, application of prestack waveform and hybrid inversion methodologies will be discussed during the presentation.

Biography:

Subhashis Mallick graduated with a Bachelors degree in Geological Sciences in 1976 and a Masters degree in Geophysics in 1978, both from the Indian Institute of Technology, Kharagpur, India. After spending five years in the oil industry, in 1983 he joined University of Hawaii as a graduate student, from where he obtained a PhD. degree in Geology and Geophysics in 1987. From 1988 to 1990 he worked as Assistant Seismologist at the School of Ocean Earth Sciences and Technology, University of Hawaii where he worked on general aspects of seismic wave propagation. Beginning 1991, he joined the Geophysical Research and Development division of former Western Geophysical Company. Currently, he is employed as a Principal Research Scientist with WesternGeco. His research interests include seismic modeling and inversion, AVO, Multicomponent Seismology, and Reservoir Characterization..

17th Annual
GSH Sporting Clays Tournament

Saturday, October 19, 2002

American Shooting Centers
16500 Westheimer Pkwy.

This year's Sporting Clays Tournament will be held on Saturday, October 19th, at the American Shooting Centers. The tournament is an all day event and family participation is encouraged. Non-GSH members are welcome.

The tournament is a 50 bird event, designed to simulate actual field conditions. Shells are provided, however you must bring eye and ear protection. Prizes will be awarded for shooting prowess in various levels of expertise.

BBQ lunch and refreshments are provided throughout the day. Door prizes (made possible through corporate and private sponsorship) will be awarded after the conclusion of shooting.

Please ask your company to help sponsor this annual event. It is through the sponsor donations that we are able to have such good door prizes each year. Feel free to call me if you have questions, or pass my name on other interested persons.

For more information, contact: **Amanda Dragon at 713-780-8334 or amdragon@hrs-us.com.**

GSH SPORTING CLAYS REGISTRATION FORM

Name: _____ Company: _____

Address: _____ Phone: _____

_____ Email: _____

Preferred shooting time: (circle one) 9:00 10:45 12:30

Indicate ammunition required: (circle one) 12 gauge 20 gauge

Please return form(s) with check for $60.00 per shooter, payable to: **Geophysical Society of Houston**
Mail to: **Amanda Dragon c/o Hampson-Russell Software, 3000 Wilcrest #170, Houston, TX 77042**

Registration Fee: $_____ + Sponsor Contribution: $_____ = Total: $_____

If you wish to shoot with a specific squad (5 shooters max.), please submit all forms together.

DISCLAIMER: I acknowledge that neither the Geophysical Society of Houston nor the American Shooting Centers will be held responsible for injury or accidents during this event. PRACTICE SAFETY!!

Signature: _____

Geophysics: A Bridge to Discoveries

Society of Exploration Geophysicists

SEG International Exposition
& Seventy-Second Annual Meeting

October 6-11, 2002 • Salt Lake City, Utah

SEG Business Office
Attn: Registration
PO Box 702740 • Tulsa, OK 74170-2740
918-497-5500 • Fax 918-497-5557
www.seg.org

June 15, 2002

Dear Fellow Geoscientist,

I am writing to invite you *to take a look beneath the surface!* The Society of Exploration Geophysicists International Exposition and Seventy-Second Annual Meeting will be in Salt Lake City, October 6-11, 2002. Join your fellow geoscientists from over 80 countries. There is something for everyone, from networking with people of similar interests or backgrounds to the technical programs. There are field trips to some of the world's most unique geological locations, forums, reviews of exhibits and equipment, workshops, international showcase, CE courses, and much more. All designed to help you, the world's geoscientists, keep your skills up to date.

Plan Now to Attend the World's Largest Geophysics and Technical Exposition.

The SEG International Exposition and Annual Meeting is widely regarded as the world's most comprehensive gathering of geoscientists, geophysical instrumentation, hardware, software, technical papers, and posters. There are many good reasons why you will be enriched by attending the SEG International Exposition and Seventy-Second Annual Meeting. Here are just a few:

- Full-delegate SEG nonmembers who register *will receive SEG membership for 2003* that comes with 12 issues of THE LEADING EDGE magazine, as well as discounts on workshops, CE courses, books, and more (see registration form for details and application).
- Full-delegates who advance register will receive, *at no additional cost*, the newest edition of Robert Sheriff's *Encyclopedic Dictionary of Applied Geophysics*, an indispensable reference work for earth scientists today.
- Explorer, oceanographer, and marine geophysicist, *Dr. Robert Ballard*, of Titanic fame will present information on his Black Sea expedition. (see reverse for details).
- Best of papers from the *EEGS, SPE, AAPG, and EAGE* meetings will be presented.
- Workshops & Luncheons with varied subjects like "Exploration Geophysics on Mars, A tale of minerals and water," "Near surface problems and solutions," "Smart Wells," "Passive seismic imaging," and "CO2 sequestration."
- See new and unique technologies exhibited over 300,000 square feet by more than 250 companies from over 30 countries.
- Field trips to locations such as Arches, Zion, Bryce, Yellowstone, Grand Teton National Parks, and more.
- Explore a 66-session Technical Program from the nearly 950 abstracts that have been received for review, 146 poster presentations, and 528 oral presentations.
- A variety of *Special Sessions* such as "Recent Advances and the Road Ahead," "TLE Forum III: Future Computing," "Concise Summary of 3D Interpretation Workstations," "Captains of Industry," and "3D Seismic Imaging of the World's Largest Oilfield, Ghawar, Saudi Arabia."
- Special poster sessions including "Sub-seismic resolution GPR imaging," "Seismic Processing and Analysis," "Borehole/Surface Processing and Imaging," and "Electional/EM/Magnetics Case Histories."

Up-to-date registration, housing, field trips, and general meeting information about the SEG International Exposition and Seventy-Second Annual Meeting are available at http://meeting.seg.org or you may contact us to receive an announcement by post.

I sincerely believe you will find the experience both informative and rewarding. Plan now to join us in Salt Lake City, an occasion no geoscientist should miss.

Regards,

Pieter Hoekstra
General Chairman
Salt Lake City 2002 International Exposition and Seventy-Second Annual Meeting

AUGUST 2002

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6 NEWSLETTER DEADLINE	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

The Geophysical Society of Houston Newsletter (ISSN 1082-0817) is published monthly except for June and July by the Geophysical Society of Houston, 10575 Katy Freeway, Suite 290, Houston, TX 77024. Subscription to this publication is included in the membership dues of $25 annually. Periodicals postage paid in Houston, Texas.

POSTMASTER: Send address changes to Geophysical Society of Houston Newsletter, 10575 Katy Freeway, Suite 290, Houston, TX 77024.

GEOPHYSICAL SOCIETY OF HOUSTON
10575 KATY FREEWAY, SUITE 290
HOUSTON, TX 77024

ADDRESS SERVICE REQUESTED

Periodicals
U.S. Postage
PAID
Houston, Texas