



Geophysical Society of Houston

VOL. 35, NO. 2

NEWSLETTER

SEPTEMBER 2000

Please Join Us For The 2000 Icebreaker!

When:
September 11

Where:
**HESS Building
5430 Westheimer**

Time:
5:00 p.m. - 7:00 p.m.

Cost:
\$12.00

**Call, e-mail or fax
reservations
to the GSH Office**

Technical Luncheon



John Lienhard, Engines of Our Ingenuity

Speaker: John Lienhard
Date: Tuesday,
September 19, 1999
Time: Register and Cash Bar
11:30 am
Luncheon and Talk
12:00 am
Cost: \$20
Location: H.E.S.S. Building
5430 Westheimer

Divining the earth's history and structure has been an exercise in "making the familiar strange," for the evidence of our eyes serves us poorly when we look at so large and ancient a body.

The Age and Other Troublesome Properties of the Earth

John Lienhard is the M D Anderson Professor of Mechanical Engineering and History at the University of Houston. He is also the author and voice of *The Engines of Our Ingenuity* which is produced by KUHF and heard nationally on public radio. *The Engines of Our Ingenuity* tells the story of how our culture is formed by human creativity. The program uses the record of history to reveal the way art, technology, and ideas have shaped us. *Engines* airs in Houston on KUHF-FM 88.7 at 7:35 AM and 3:55 PM, Monday through Friday.

John Lienhard's talk is expected to be very popular so be sure to get your reservations in early.

REMINDER

Membership dues must be paid by October. Failure to pay before October results in delinquency. Call the GSH office at 713/785-6403 to pay via credit card.

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

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GEOPHYSICAL SOCIETY OF HOUSTON

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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>

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Technical Breakfast

Speaker: Ms. Mary Kadri

Topic: "Occurrence and Distribution of Seismic Reflectors internal to Allochthonous Salt, Walker Ridge Area, deepwater Gulf of Mexico" (an encore presentation from the 2000 AAPG)

Date: Wednesday, September 13

Time: 7 a.m. - 9 a.m.

Location: Veritas DGC; 3701 Kirby Drive; 7th Floor Auditorium

Cost: Free

Refreshments will be provided at no cost, courtesy of the hosting company, Veritas DGC. From the Southwest Freeway, US 59 inside Loop 610, exit Kirby, and go north one block to the Veritas building (between Norfolk and Portsmouth) and turn right. Visitors' parking is available in the parking garage and parking on the streets is free and available in the event the garage is full. More than 50 are expected to attend, so please make your reservations early! A series of informal small group presenta-

tions of the paper will be provided in the Visualization Center, following the meeting.

The GSH Technical Breakfasts are typically held the second Wednesday of each month, from September through June. If you wish to suggest excellent technical papers of timely interest to the geoscience community, please contact the GSH Technical Breakfast chair, Scott Sechrist at scottse@panaco.com or acoustic@airmail.net.

Editor's Note

To insure your information reaches the GSH society members in a timely manner it must appear in the 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 may be sent to pattyc@diamondg.com or faxed to 713/783-9780. If you have any questions please call Patty Cardwell at 713/783-7837.

2000 GSH Newsletter Deadlines

Issue October 2000

Deadline .. September 15, 2000

Membership Report

The GSH would like to welcome its newest members:

Active

Blanche Cahill
Wilson Groen
Michael Loudin
Walter Ritchie
Joseph Skees

Associate

Moneta Genzer
Jergon Skjott
Scott Wallace
Ryan Wilson

GeoEvents Calendar

Make reservations by e-mail at reservations@hgs.org and include your member number (found on Bulletin mailing label), or use the phone reservation system at 713/917-0218.

Reservation Codes

Use these codes to make voice mail meeting reservations:

Technical Luncheon	601
Data Processing SIG	602
Interpretation SIG	603
Reservoir SIG	604
Potential Fields SIG	605
Environmental Applications SIG	606
Breakfast	607

Join the Geophysical Auxiliary of Houston!

The Geophysical Auxiliary of Houston invites 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 the GSH or SEG to join us for our 2000-2001 events.

We would like to entice and entertain you with a variety of interesting, fun-filled events. Our first event will be held at the Petroleum Club, 800 Bell Avenue, atop the ExxonMobil Building in downtown Houston on Tuesday, September 26, 2000. The social hour begins at 11:00 a.m. with the program and luncheon to follow. The Skylarks (Lois Maruszak and Paula Scudday) will present THE STORY OF JUDY GARLAND. You will see gorgeous costumes, exciting staging, hear an intriguing story and fantastic music. Add to all of this a breathtaking view of Houston!

Yearly dues are only \$15.00. Call Marinell Williams at 713-467-4517 or Donna Parrish at 281-589-8088 for information on how to join. For more information about the programs and to offer suggestions, please call Georgeann Massell at 281-353-4517.

SIG Meeting Announcements

POTENTIAL FIELDS SIG ANNOUNCEMENT

Gravity and Two Dimensional Basin Modeling, Offshore Myanmar - Explanation of Regional and Local Thermal Maturity and CO2 Variations.

By Matthews, Martin D. (Argonne National Lab.), Kowalski, Michael, A., Robison, Vaughn R., and Ephraim, David B. (Texaco Exploration)

Date: September 21, 2000
Place: HESS building, 5430 Westheimer, Houston
Time: 5:30 Social Hour;
6:30 Dinner;
7:30 Presentation
Cost: \$22.00

Contact:
Afif Saad, Chair - GSH Potential Fields Group, at 281-342-8575 (afifsaads@netscape.net) or Bob Van Nieuwenhuise, Co-Chair at 281-679-2208 (Bob.VanNieuwenhuise@pgs.com) by Tuesday, September 19, for reservations. E-mail is best because we can confirm your reservation. Please HONOR your reservation! We must bill no-shows!

Abstract:

Heat flow in the Northeastern Gulf of Martaban currently varies spatially by a factor of, at least 2, and, over time, by nearly an order of magnitude. This varia-

tion is due to the recent rifting in the basin. Higher heat flows occur near the rift centers and decrease outward to a regional background in different domains, both for wells and oceanographic surface measurements. This variation is significant both to hydrocarbon generation/migration and CO2 origin. The magnitude of the regional background heat flow is unknown. The distribution of available data is too sparse for meaningful determination.

Basin modeling was performed using rock properties derived from logs and constraining thermal history by bottom hole temperatures and vitrinite. This study indicates that there are three thermal events which are separated in time and space: 1) Formation of the sag, followed by a cooling-off period; 2) Renewed basin subsidence accompanied by faulting; 3) progressive heating events proceeding from the Northern to the Southern platform.

The kerogen in the Miocene source rock that is within the deep basins has matured as a function of depth. Here the migration is dominantly vertical. The kerogen in Miocene source rock on the shallow platform seems to have transformed as a function of local heating patterns and migration is affected by lateral units. In the areas of lower heat flow the source is immature.

The probability of CO2 generation is hypothesized to be greatest in, and adjacent to, regions of highest heat flow; it is located within the first trap out of the deep basin due to the confining Mi-

ocene overpressure.

To outline the possibilities of the above occurrences, the distribution of current heat flow has been divided into two classes, low and high. The spatial location of these classes appears to be related to Basement rifting and later intrusions. Satellite free-air gravity data is the key to understanding the spatial changes and origin of the different heat flow regimes. The definition of the rift architecture was configured by this data. Supplemental to the satellite data were a number of magnetic profiles from the NOAA data base. These widely spaced lines were used to speculate on the occurrence of igneous intrusives. The satellite free-air gravity data was then used to interpolate the aerial extent of such features.

North American RCSIG

The 2nd semi-annual North American RCSIG users group conference will be held at the National Research Council of Canada's Virtual Environment Technology Centre (VETC) on Thursday September 14th and Friday September 15th, 2000.

The conference is restricted to the first 100 invitees that R.S.V.P.

Contact H. Roice Nelson, Jr. at 713.860.5007 or rnelson@walden3d.com if you did not receive an invitation. There is also information at <http://www.continuum-corp.com/rcsig>.

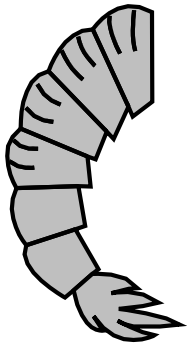
IAGC/IPAAS Conference

The International Association of Geophysical Contractors (IAGC) and Independent Petroleum Association of America (IPAA) will hold the second in a series of day-long conferences on non-exclusive geophysical data at the HESS Building (5430 Westheimer) in Houston, Texas on Tuesday, October 31st.

The conference is especially appropriate and beneficial for independent oil company people - owners, exploration managers, geologists, geophysicists, landmen, attorneys and others - who wish to learn about how to gain the greatest benefit from this low-cost but powerful oil and gas finding tool.

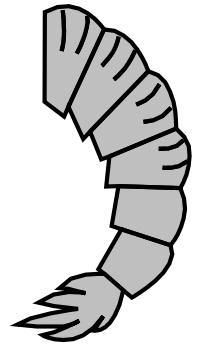
The dramatic growth of the "spec" data business has greatly enhanced wildcat drilling success rates and allowed large numbers of oil companies affordable access to 3-D seismic technology, which is changing dramatically due to sweeping changes created by the internet.

More information on the conference, including registration material is available from IAGC at iagc@wt.net or by calling 713-957-8080. The registration deadline is October 10, 2000.



HGS/GSH

Shrimp Peel



Friday, November 3, 2000

5:30 p.m. until 10:00 p.m.



SAM HOUSTON RACE PARK

7575 N. SAM HOUSTON PKWY WEST
(Beltway 8 between Hwy 290 & I-45 N)

TICKETS \$25.00 Advance / \$35.00 At The Door

- Advance ticket sales through October 20th
- Tickets mailed to you beginning October 2nd
- Event held on the Infield (weather permitting)
- No refunds

2000 SHRIMP PEEL TICKET ORDER FORM

NAME _____

COMPANY _____

ADDRESS _____

PHONE _____ E-MAIL _____

NUMBER OF TICKETS _____

Make checks payable to: HGS / GSH SHRIMP PEEL

Mail to: Subsurface Consultants & Associates

Attn: Lee Shelton

2500 Tanglewilde, Suite 120 • Houston, Texas 77063

For more information call 713/789-2444 or e-mail: LShelton@scacompanies.com

Shrimp • Beer & Beverages • Horse Races • Live Music



2000 GSH TENNIS TOURNAMENT

FRIDAY, OCTOBER 6, 2000 at 12:00 noon

Chancellors Tennis Club

\$30.00 per person

Play will begin promptly at 1:00pm and conclude by 5:00pm. Lunch will begin serving at 11:30am. Cold drinks will be available and we will have a keg for the COOLING DOWN TIME.

This will be a half day A and B Scramble Tournament. A player will play with all other players in his group. Ladies will be teamed with partners in the A or B groups as they choose. In addition to TROPHIES there will be a drawing for a generous group of DOOR PRIZES.

To ensure the proper amount of court space, food and drinks, complete and send in the entry form as soon as possible, but no later than October 2, 2000. We need more players and encourage you to contact your associates to participate in the tournament. We are again inviting players in the Geological Society to join with us so as to have more players and more fun. For information call Bill Steiner 713/789-72550 or Joe Jones 281/438-5626.

1999 GSH TENNIS TOURNAMENT ENTRY FORM

NAME _____

Phone No. _____ Company _____

Flight Preferred: A _____ B _____ Ladies _____

Make check payable to: GSH Tennis Tournament
MAIL TO: Joe Jones • 3802 Pecan Valley Drive • Missouri City, Texas 77459

3rd Annual Seismic Softball Tournament

Benefiting The SEG Foundation charity

October 14, 2000

**All games will be played at
Houston Sportsplex located at
12631 South Main, Houston, Texas 77035.**

Last year PGS Data Processing, BP Amoco, Geco-Prakla and Sercel (formerly Syntron) were able to raise \$9,000 for the SEG Education Foundation. The SEG matched that \$9,000 for a total donation of \$18,000. This was down from the previous year, but we hope to be able to improve this year with your participation in this great cause. Not to mention, it is good fun!

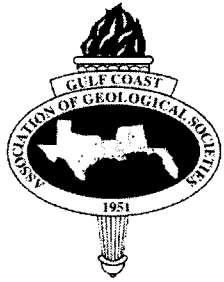
The entry fee is \$1,500 per team. The 1st place team will receive T-shirts and be the proud holder of the SEG Tournament Championship Trophy until the year 2001 tournament.

For more information about the 3rd Annual Seismic Softball Tournament, please contact Michael Zwick before Friday, September 15th at 281-647-7216 or via email to michael.zwick@sercelus.com.

Death Notices/ Obituaries -

**JAMES D. KALLINA,
age 68 passed away
July 19, 2000.**

James was a geophysicist for 25 years with Petty Geophysical Engineering Co. and in 1973 he formed Geophysical Services/Omega. In 1976 he established JDK Incorporated. He was a member of AAPG, SEG, Geophysical Society of Houston and founding member of IAGC. He is survived by his wife of 46 years, Doris; daughter, Teresa; sons, Stephen and Michael; 5 grandchildren and two sisters. Memorial contributions can be made to the Volunteer Council of Austin State School, 2203 West 35th Street, Austin, Texas 78703.



**These short courses will be held in
October at the GCAGS 2000 Annual
Convention, Houston, Texas!**

See more info on the web site

www.gcags.org/convention2000/calendar

**Look for registration details in the mid-August convention
announcement. Priority will be given to GCAGS 2000
registrants, so sign up early!**



Gulf Coast Association of Geological Leaders - Gulf Coast Section SEP

Interpretation of 3-D

Seismic Data

Alistair Brown, Oct 23rd-25th

*Course sponsor: Landmark
Graphics Corporation
(speaker's fees paid for by
LGC) Tuition: \$150*



Landmark

A Halliburton Company

Seismic Fundamentals

Don Macpherson

Oct 23rd-25th

*Course sponsor: GCAGS
Tuition: \$150*



Intro to the Petroleum

Geology of Deep-Water

Clastic Depositional Systems

*Roger Slatt & Paul Weimer,
Oct 23rd-25th*

*Course sponsor: American
Association of Petroleum
Geologists
Tuition: \$150*



Comprehensive Evaluation of

**Rock Samples: Getting the
most out of Conventional
Cores, SWC's and Cuttings**

*Oct 25th Course sponsor:
Core Lab*

Tuition: \$50



Independent

Consultant

Seminar

Oct 25th

*Course sponsors:
SIPES Foundation
and HGS
Tuition: \$50*



**Evaluation of Pressure Data
and Overpressure**

Prediction

for Exploration and

Development *Phil Heppard,
Martin Albertin & Richard
Lahann, Oct 25th*

*Course sponsor: BP-Amoco
Tuition: \$50*

BP Amoco



Workstation Interpretation:

Seismic Micro-Technology

*Jerel Pierce,
Oct 28th & 29th*

*Course Sponsors: Seismic
Micro-Technology and
NHCC / GTTC
Tuition: \$100*



A NORTH HARRIS MONTGOMERY COMMUNITY COLLEGE

Immersive Environments

*(Lecture and tour of 3-D
visualization sites)*

Oct 24th & 25th

*Course sponsors: Texaco &
Silicon Graphics, Inc.
Tuition: \$100*

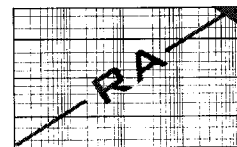


sgi

Risk Analysis

*Pete Rose & Gary Citron
Oct 24th & 25th*

*Course sponsor: Rose &
Associates, Inc.
Tuition: \$100*



**Coal Bed Methane Potential
of the Gulf Coast**

*Andrew Scott,
Roger Tyler, and others, Oct 28th*

*Course Sponsors: PTTC
Central, Eastern and Texas
Divisions and the Energy
Minerals Division of AAPG
Tuition: \$50*



Applied Biostratigraphy

*Richard Constans,
Garry Jones, and others
October 25th*

*Course Sponsors: Spirit
Energy and Chevron
Tuition: \$50*



SEPTEMBER 2000

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6	7	8	9
10	11 ICEBREAKER 5:00 P.M. HESS BLDG.	12	13 Tech. Breakfast 7 a.m. Veritas DGC 3701 Kirby Drive 7th Floor Auditorium	14 RC SIG VETC	15 RC SIG VETC NEWSLETTER DEADLINE	16
17	18	19 Tech. Luncheon 11:30 a.m. HESS Bldg.	20	21 Potential Fields SIG 5:30 HESS Bldg.	22	23
24	25	26 GAH 11:00 a.m. Petroleum Club 800 Bell Ave.	27	28	29	30

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