

# HGS Bulletin

Volume 61, Number 10

Houston Geological Society

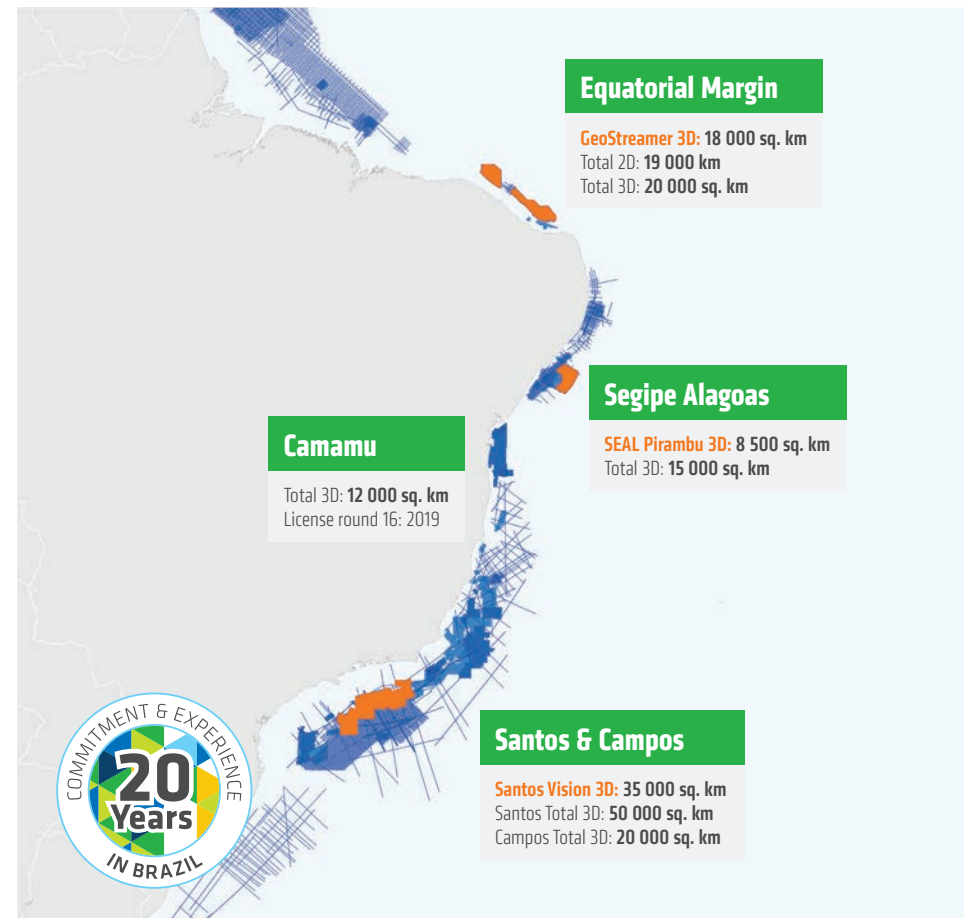
June 2019

**HGS GUEST NIGHT  
LA BREA DEL SUL:  
AN EXTRAORDINARY PALEONTOLOGICAL  
QUEST AND DISCOVERY OF ICE AGE FOSSILS  
IN TAR PITS OF VENEZUELA.**

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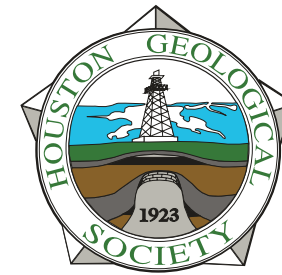
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Volume 61, Number 10

# The Bulletin Houston Geological Society

June 2019

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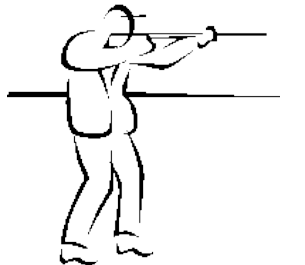
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Smarter, Stronger, Better



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## SESSIONS (AND SUB-SESSIONS)

### Offshore/deep water exploration in South America

- Northern South America (Panama, Northern Colombia, Venezuela, Trinidad)
- The depth horizons for exploration in the Atlantic ocean and Caribbean Sea (present challenges in the area)
- Eastern South America (Guyana through Argentina and the Falklands)
- Western South America (Western Colombia through Chile)

### Oil and gas exploration in South American foreland basins

- Conventional hydrocarbon plays
- Unconventional hydrocarbon plays (e.g., Neuque'n Basin of Argentina)
- Oil and gas exploration in South American Pre-Andean rift basins
- Geological and geophysical exploration in South American Pre-Andean rift basins
- The role of remote- sensing in the oil and Gas exploration in South America

### Oil Systems of the region and the challenges in the production

- Techniques and methodologies applied in Latin America for the oil and gas production (drilling systems)
- Carbon Capture and Storage (CCS) case in Brazil and Argentina
- Hydraulic Fracturing
- Geophysics applied in the oil and gas production
- EOR/ IOR

### Special sessions

- Natural resource and technological contents of Latin American as an energy supplier
- Environmental sustainability

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Cheryl Desforges  
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# Continuous Threads

In some years, but not all, there are internal or external issues that dominate most of HGS Board's year. Last year at this time, John Adamick reported it was adapting to the consequences of Harvey that dominated HGS, because of the disruption the historic flooding caused during August 26 -30. For HGS, Harvey culminated in the June 6 and 7, 2018 HGS Continuing Education Committee's conference, Flooding in Southeast Texas: The Science Behind the Floods, on. However, many individual members are still recovering from the aftereffects of the flooding.

This year the Board has been confronted with the necessity to modernize and rectify the HGS Constitution and By-laws, as well as to help address the challenge to the livelihood of 528 of our members, because of the Sunset Advisory Commission's first recommendation on August 2, 2018 to abolish the Texas Board of Professional Geoscientists and licensing of Geoscientists in the State of Texas.

In general, it is the job of any Board of Directors to jointly oversee the activities of the organization, including setting policy, objectives, and overall direction, adopting bylaws, hiring, monitoring, evaluating, the office director and staff ([www.boardeffect.com](http://www.boardeffect.com)). When discovered, each Board should rectify issues when we have gone off the rails from our governing documents, the HGS Constitution and By-laws ([http://www.hgs.org/sites/default/files/HGSConstitutionAndBylaws\\_approved2010-2.pdf](http://www.hgs.org/sites/default/files/HGSConstitutionAndBylaws_approved2010-2.pdf)). The HGS Constitution and By-laws are fairly simple documents that defer to Robert's Rules of Order on issues not addressed in our Constitution and Bylaws. Since HGS is incorporated in the State of Texas, we are subject to the Texas Business Organization Code unless our Constitution and By-laws and Robert's Rules of Order specifically addresses an issue. We have discovered 2 issues this past year where HGS has gotten off the rails over the years, specifically:

1. the issues of the necessity of doing annual audits and
2. the issue of using remote communication, telephone conferencing, video conferencing, and the internet, for Board meetings.

It was discovered during the beginning of October 2018 that our accountant had not completed the 2015 audit he was contracted to do. Furthermore, it was discovered that although annual audits are required by our Constitution, because of the cost, a previous

Board changed the audit frequency to every 3 years in the Policy Manual. The change should have been submitted to the HGS Membership as a change to the Constitution and By-laws. We received the 2015 audit on December 31, 2018. Shortly thereafter the accountant was fired and the search for a new firm began.

The second issue has to do with using remote communication. Many of you are aware that I am a strong advocate of the use of remote communication to help increase communication and participation within HGS, since HGS is geographically challenged. In this age of very good communication, it seems only natural that the Board of Director could use remote communication for Board meetings. In fact, during 2016 the Board started allowing the use of telephone conferencing. Its use continued the following year and to this year. Afterall, the use of remote communication was codified in the Texas Business Organization Code during 2006 with each person's consent:

"In accordance with the Texas Business Organization Code (TITLE 2 CORPORATIONS CHAPTER 22 NONPROFIT CORPORATIONS SUBCHAPTER A. GENERAL PROVISIONS Sec. 22.002. MEETINGS BY REMOTE COMMUNICATIONS TECHNOLOGY. Subject to the provisions of this code and the certificate of formation and bylaws of a corporation, a meeting of the members of a corporation, the board of directors of a corporation, or any committee designated by the board of directors of a corporation may be held by means of a remote electronic communications system, including videoconferencing technology or the Internet, only if:

- (1) each person entitled to participate in the meeting consents to the meeting being held by means of that system; and
- (2) the system provides access to the meeting in a manner or using a method by which each person participating in the meeting can communicate concurrently with each other participant.

Acts 2003, 78th Leg., ch. 182, Sec. 1, eff. Jan. 1, 2006."

However, this year, the full board did not consent. In addition to that, it came to light that for the first time the latest version, 2011, of Robert's Rules of Order requires that "...a board or any assembly, committees that are expressly established by the bylaws can hold a valid electronic meeting only if authorized in

the bylaws to do so." So, our bylaws must be changed to allow for remote communication. Remote communication will encourage participation in our governance by people who sometimes travel or otherwise cannot attend every meeting in person.

Historically, changes to the HGS Constitution and By-laws have been written by the Board of Directors. Last Fall when the need to change the By-laws first surface, no one stepped forward to undertake the task, due to personal time constraints. But during the search process for a new accounting firm, after we mentioned we had identified needed updates to our Constitution and By-laws, we were given the name of an attorney whose specialty is updating governing documents especially for non-profits. The Board decided the most efficient thing to do was to hire the attorney to make suggestions for needed changes to our governing documents. That is in progress at this time. I cannot tell you at this time if other changes will be recommended. Once those suggestions are reviewed by an ad hoc committee and voted on by the Board, you should expect to receive the opportunity to vote on amending our Constitution and By-laws. Article V of our Constitution says "Adoption of such amendments shall be by secret ballot in which approval is given by at least two-thirds of the total number of members voting. The proposed amendments to the Constitution and a ballot shall be delivered in both electronic and hardcopy to all members, and submitted to the Active members for vote using online ballot or paper ballot through the postal mail. Ballots must be received no later than forty five (45) days from the date that ballots are mailed and available through the HGS website."

I hope you will all carefully consider any changes you are sent. Our governing documents need to be updated.

The other issue that was a common thread for most of the year, at least for a significant number of our members, was the fight to reverse the Sunset Advisory Commission's (SAC) initial recommendation on August 2 to abolish the Texas Board of Professional Geoscientists (TBPG) and repeal the Texas Geoscience Practice Act. If it had been taken to conclusion, there would have been no licensed Geoscientists by Texas starting September 1, 2019. **But I am happy to report that as of May 14, the amended Texas Geoscience Practice Act has been reauthorized.** It has been quite a ride with ups and downs as a dedicated group, guided and informed by lobbyists, talked with legislators and their staffs to educate them about what geoscientist do and tell them the importance of licensing to ensure that geoscientist meet a minimum standard to ensure they are qualified and capable to perform the tasks with which they are entrusted. A surprising number of legislators and their staffs thought geology is a sub-specialty of engineering.

There are 528 licensed HGS members, 17% of our membership, and half of the licensed geoscientists in the Greater Houston area, most of whom practice in the areas of environmental and engineering geology. Most of those licensed members require a

license for their jobs and most use their license on a daily basis. The remaining 83% of HGS members more than likely practice in the upstream Oil and Gas industry, which is exempt from needing a license. However, those 83% need licensed geoscientists who are capable and qualified to cleanup any oil and gas spills along the product chain from drilling to the consumer. They help enable the sale of a generator's prospect, because the product can be produced in a manner to protect public health, safety, welfare and the State's natural resources, including water.

HGS helped in the effort, as did many other organizations. At our August 7 meeting, the HGS Board approved sending an email to all HGS members informing you about the issue and asking for your participation by writing letters during the Public Comment period and giving testimony at the August 30 hearing in Austin. Also approved was to submit a letter on behalf of HGS supporting the continuation of the TGPB.

During August, a self organized work group of licensed geoscientists that was organized during June, realized that reversing the SAC decision would require more time and expertise than working geoscientists have, as well as being more expensive than any one entity could afford. An umbrella organization, the Texas Geoscience Council (TGC) was formed on the behalf of all geoscientists in the State. The initial stated mission of the TGC was to unite the geoscientific community to work together to accomplish three goals:

1. Immediately protect geoscience licensure and the Texas Board of Professional Geoscientists through the 2018 Sunset review process.
2. Immediately illustrate for the Texas Legislature the many important ways that geoscientists serve Texans and the critical role of geoscience licensure.
3. Long term campaign to educate the Texas public about the various practices of geoscience, and how they impact public health, safety and welfare.

During September, HGS also made a voluntary donation to help with startup costs for TGC. That original HGS donation was subsequently, completely reimbursed to the HGS General fund by licensed geoscientists in HGS through cash donations and the profit generated from a 2-day short course covering Hydrogeology and a field trip to surface faults of West Houston, both organized by the Environmental and Engineering Group.

Looking forward, the Sunset Commission has already announced that the TBPG will come up for Sunset during 2024, at the same time as the Texas Board of Professional Engineers (TBPE), so they can be evaluated together to assess the possibility of merging the 2 agencies, as was one of the options considered this time. The TGC's long range plan to educate the public, as well as Legislators, about the various practices of geoscience, how they differ from engineering, and how we protect public health, safety and welfare is now the primary focus of TGC. ■



# 2019 HGS Guest Night

## La Brea del Sul: An Extraordinary Paleontological Quest and Discovery of Ice Age Fossils in Tar Pits of Venezuela.

Our featured speaker for the 2019 HGS Guest Night will be John M. Moody, currently employed at Grayson College in his hometown of Denison, Texas.

In October of 1990, John Moody, then working as a petroleum geologist in Maracaibo, Venezuela, began serving as the Curator of the Paleontology Section of the Biology Museum at the University of Zulia (MBLUZ), a position that he held until May of 2001. During this period, he led a small group of students to explore new or poorly known fossil localities in western Venezuela. Discoveries that have come as a direct result of Moody's work include Devonian plants, trilobites, Jurassic dinosaurs, Cretaceous fish and reptiles, and Pleistocene mammals. Many of his discoveries eventually involved international researchers.

Of special interest, John conducted the first explorations of Venezuela's numerous and large surficial tar deposits ("menes") for



**HGS Guest Night  
Saturday, June 8, 2019  
Featured Speaker  
John M. Moody**

fossils of the sort made famous by the La Brea Tar Pits in Los Angeles, California. Succeeding in that effort, he became the first person to recognize extinct species in a Venezuelan tar pit. Those demonstrated the existence of a world-class opportunity to study the paleontological and paleoenvironmental record of the Neotropics. His work has led to numerous scientific publications and the establishment of the now-inactive Foundation for Quaternary Paleontology of Venezuela.

In his talk, John will describe tar pit paleontology in general, the inspirations for his search, the challenges presented by unfunded field work in remote areas of Venezuela, and the thrill of discovery when a turn of a shovel first revealed

the jaw of a juvenile giant ground sloth. ■



From the  
Editor

From the Editor



**Jim Tucker**  
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## "Live for the Science, not for the Weekend."

This was one of the messages from Kenneth Peter's remarks on receiving the AAPG Sidney Powers Memorial Award at the recent AAPG Annual Meeting in San Antonio. It was clear that he lived this message, as part of a well-rounded life. I hope we all can do this as well. Most of us have work with colleagues who could not wait to leave the office, and were only there for lifestyle maintenance. Or others who always seemed to be working, without interests away from the job. Neither is ideal, and balance is critical.

A few months ago, I mentioned that all the presentations at the CERAWeek in Houston in March were going to be online. They may be found at: <https://ceraweek.com/video-gallery.html>. There are quite a few, but one I enjoyed in person was Ray Hunt and his son Hunter discussing Hunt Petroleum and their business (see: <https://ondemand.ceraweek.com/detail/video/6014174913001/ray-and-hunter-hunt-with-dan-yergin--a-father-and-son-dialogue?autoStart=true&q=hunt>). Another inspirational video interview was with a mentor of mine, Marlan Downey. In the past it has been on the Roxanna website.

I mentioned both of these as suitable modern archive examples at the meeting of the History of Petroleum SIG last week at the AAPG Annual Meeting in San Antonio. We were discussing how to capture the information and wisdom of colleagues, since we geologists are not a written culture. Jeff Lund and I contributed "Lessons from a Career" a few times over the past year. I'm sure future *Bulletin* editors will appreciate any contributions documenting our careers, adventures, and accomplishments.

I hope you have enjoyed the *Bulletin* this past year. A few new things were tried, and no one complained, so I'll take that as positive. Fang Lin will be the Editor next year, and will appreciate technical article contributions, cover photos and ideas on how to make the *Bulletin* better for our readership. The group of local societies that have any sort of monthly bulletin or newsletter is declining, and HGS should retain its leadership as we close out our first century. Ever onward. ■

*And volunteer for something this month.*

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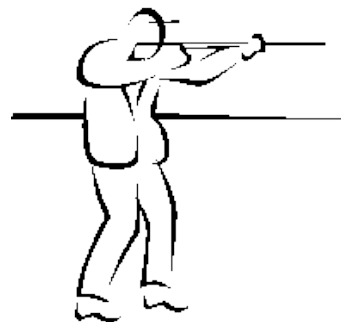
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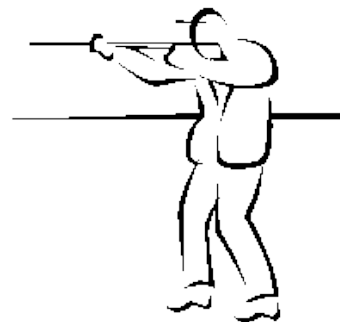
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## HGS SKEET SHOOT

Saturday, June 8, 2019  
Greater Houston Gun Club  
6702 McHard Road, Missouri City



This tournament is a 50 target event. Shells are provided, however **you must bring eye and ear protection**. Greater Houston Gun Club and National Skeet Shooting Association safety rules will be in effect. Trophy winning shooters will be determined by the Lewis class system. Door prizes will be awarded by blind drawing after the conclusion of shooting. All competitors are automatically entered into the door prize drawing, but you must be present at the time of the drawing to win. BBQ lunch will be provided from 11:30 until 1:30. Refreshments will be available throughout the day. **Non-shooting guests are welcome to enjoy lunch and refreshments at a cost of \$20 per guest.**

HGS recognizes that 2019 is a lean year in the oil patch, and sponsorship for events like this is hard to find. **For \$150, you'll receive paid entry for one shooter and one guest (total value of \$120) and be listed as a platinum sponsor on the webpage and at the event.**

We are limited to 160 shooters in four rotations. Entry fee is \$90 per shooter for registrations received by FRIDAY, JUNE 1st. After June 1, registration will be strictly on a "space available" basis and the entry fee will be \$120 per shooter. **Register early!!**

For more information, contact: Andrea Peoples at (713) 463-9476 or [office@hgs.org](mailto:office@hgs.org)

For directions to the club, visit [www.greaterhoustongunclub.com](http://www.greaterhoustongunclub.com)

\*\*\*\*\*

ONLINE REGISTRATION INFORMATION AT: <https://www.hgs.org/civicrm/event/info?id=2078>

To pay by check, mail this form with a check made out to HGS to:  
**Houston Geological Society, 14811 St. Mary's Lane, Ste. 250, Houston, TX 77079**

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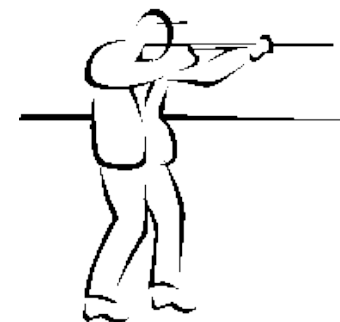
Preferred time: (circle one) 9:00 10:00 11:00 12:00 Ammo: (circle one) 12 gauge 20 gauge

Entry Fees: \$ \_\_\_\_\_ + Guest Fees: \$ \_\_\_\_\_ + Sponsor Contribution: \$ \_\_\_\_\_ = Total: \$ \_\_\_\_\_

If you wish to register as a squad, please return forms for all squad members together.

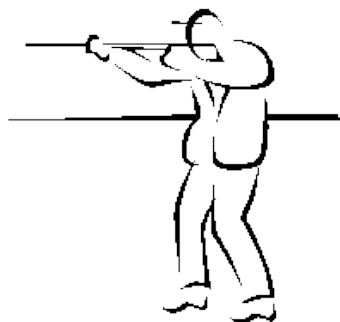
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**ALL SHOOTERS WILL BE REQUIRED TO SIGN A DISCLAIMER OF RESPONSIBILITY  
BEFORE THEY WILL BE ALLOWED TO SHOOT!**



## HGS SKEET SHOOT

Saturday, June 8, 2019  
Greater Houston Gun Club  
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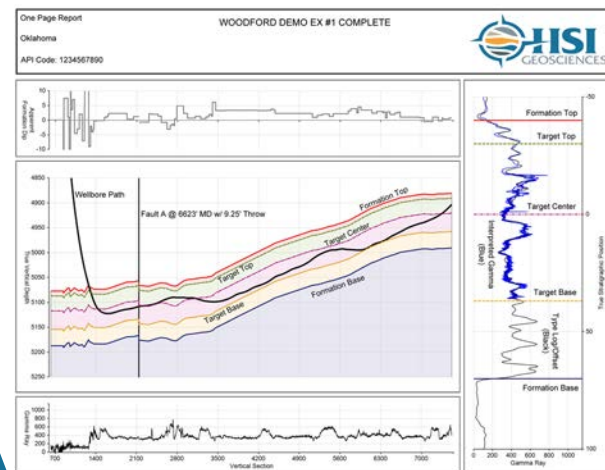
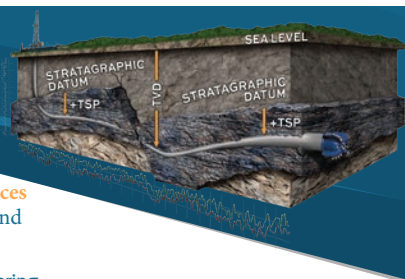
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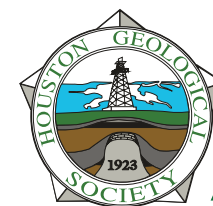
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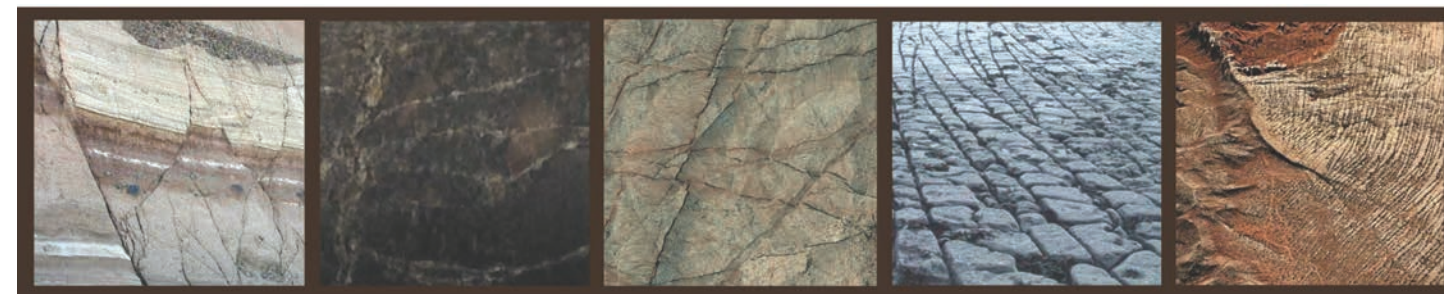
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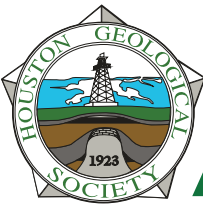
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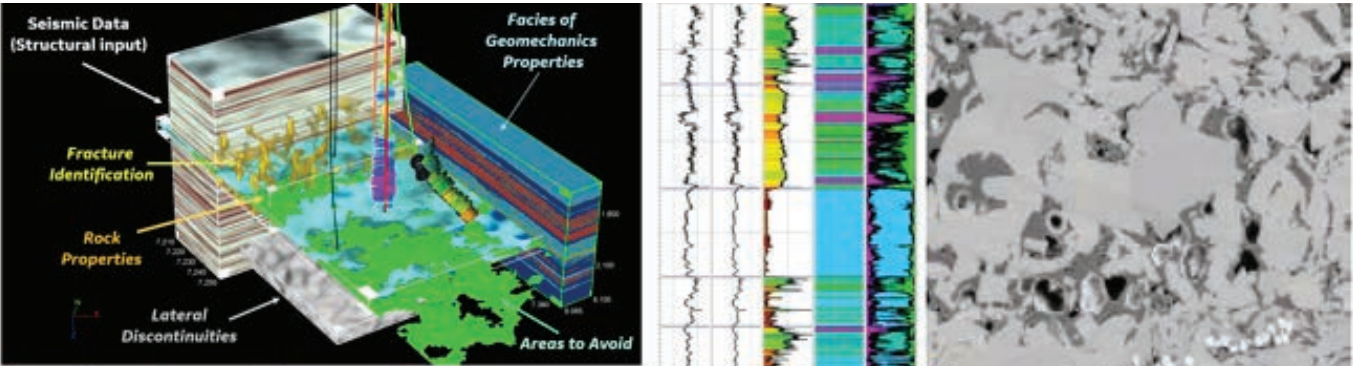
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June 2019

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday



GEOEVENTS



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						1
2	3	4	5	6	7	8 HGS Skeet Shoot Greater Houston Gun Club Page 8  HGS Guest Night Houston Museum of Natural Science Page 4
9	10	11 HGS Board Meeting 6 p.m.	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

July 22 – 24, 2019  
Unconventional Resources  
Technology Conference  
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November 6-7, 2019  
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Life Cycle of the Field*  
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July 22 – 24, 2019  
First HGS/EAGE Conference on  
Latin America  
*South American Petroleum Plays  
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June 7-15, 2020  
HGS Grand Canyon Field Trip  
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# Houston Geological Society Awards

## 2018-2019 Gerald A. Cooley Award

The Gerald A. Cooley Award honors the memory of the man we remember as the personification of dedication, service and leadership continuing long after official office terms expire. It recognizes true dedication to the profession of petroleum geology in general, and to the Houston Geological Society in particular. The award honors those who have continued to serve the society well above and beyond the call of duty over many years. A candidate must have received both the Distinguished Service and Honorary Life Membership Awards to be eligible for consideration.

*It is the Society's highest award.*

**Kenneth Eugene Nemeth** – If I were to list and discuss all of the professional and volunteer activities that Ken was a participant, it would take up several pages of this HGS Bulletin issue. I will summarize everything but the HGS related activities.

He received a bachelor's degree in geology from Albion College (with honors) in 1973 and a master's degree in geology from the University of Texas at Austin in 1976. Ken worked for Shell, Louisiana Land & Exploration, Blue Sky Oil & Gas, Adobe Resources (Adobe Oil & Gas Corp.), Browning Oil Company, and Schlumberger.



**Kenneth Eugene Nemeth**

Elect, 2013-2014; Honorary Membership, 2010; Office Committee Chairman, 2007-2010; Outstanding Service Award, 2007; Guest Night Committee, 2005-2007; Treasurer, 2004-2006; Treasurer-Elect, 2004-2005; Finance Committee Chairman, 2001-2005; Website Committee, 2003-2004; President's Award 2005; Rising Star Award, 2003; Entertainment Committee, Annual Shrimp Peel 1981-1985, Chairman 1983-85; Employment Committee, 1986-1991; Publicity Committee 1982 GCAGS Convention.

As can be seen from the above information, Ken took a very active part in every organization that he was a member. He was a "doer." He

readily took on difficult projects. For example, soon after he was elected as Treasurer-elect in 2004, the Treasurer resigned. Ken took over as Treasurer without having a year to prepare for the job. He discovered that the HGS finances were in disarray. Income and expenses were difficult or mostly impossible to track and our savings reserves were not being utilized in the best manner. Ken rose to the need and took on the monumental task of reorganizing and correcting our finances. He spent many Saturdays working to correct the problems. Ken loved spreadsheets and utilized them often. The more complicated and difficult the better. Our HGS office staff uses several spreadsheets that Ken designed or edited for tracking historical data for the Society.

It is very unfortunate that HGS did not honor Ken with the Jerry Cooley Award during his lifetime. Sandy and Samantha Nemeth will receive this award in his honor at the President's Night ceremony. ■

*Citation by John Tubb, Jr.*

Ken became a member of HGS in 1981. The following is a summary of Ken's activities in the Houston Geological Society: Nominations Committee, 2015-2018; Past President, 2015-2018; Chairman, Nominations Committee, 2015-2016; President, 2014-15; President-



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## 2018-2019 Honorary Life Membership

Honorary Life Membership honors members who have distinguished themselves in the science of geology or have contributed outstanding service to the success and welfare of this organization. The honoree must have received the HGS Distinguished Service Award.

For more than 43 years, **Richard G. Howe** has practiced geology after earning his BS in Geology from Lamar University in Beaumont. He started his career as a Petroleum Geologist. He returned to school during the 1980's downturn to study engineering geology, and hydrogeology, earning a Master of Geoscience from Texas A&M University in College Station. He is a former partner in Terrain Solutions, Inc., an environmental and geological services firm, and is now the owner of Terra Cognita, LLC, a geological services firm. He has grown his career and reputation as an engineering geologist conducting studies of many of the surface faults that cross the upper Gulf Coast.



**Richard Howe**

He and his mentor Dr. Carl Norman are among the top experts in surface faulting along the Texas Gulf Coast.

Richard's life is one of service. Over the years, he has followed the water-related issues that impact the Houston metropolitan area and has been an advocate for sound water resource management. For almost 27 years he held an elected position as a Director of Charterwood MUD and served as its president for more than 10 years. He previously served on the advisory committee for the University of Houston Downtown's geology program, and has been serving on the advisory council for the Lamar University Earth and Space Sciences Department since the mid 1990s.

Richard's service to HGS for 40 years, since 1979, is something we want to celebrate at this time. He continues to be very actively engaged to this day.

Richard served on the HGS Board of Directors from 2007-2009, and he strongly advocated running HGS as a small business. He has been awarded the HGS 2004 Distinguished Service Award, and the honor of HGS and ECH naming one of the three Houston Museum of Natural Science summer internships for him in 2007. (The other two internships are named after Claudia Ludwig and Barry Katz.) The AEG Texas Section also recognized his service with the Floyd T. Johnston Award for "Outstanding Engineering Geologist" in 2008.

He was active in the Environmental and Engineering Geology Group for approximately 20 years. Along with Arlin Howles and the late Howard Kunz, he was instrumental in renaming the HGS Environmental Committee to the Environmental and Engineering

Geology Committee. He later worked to have the E&E Committee reclassified as the E&E Group. He gave a presentation to the E&E Group on the Daisetta Sinkhole in 2008.

For 20 years he was on the HGS Field trip Committee, where he either assisted with or helped plan a many field trips, at least including:

- The 1987 HGS "Geology of the Big Bend Trans Pecos Region" Field Trip
- The 1988 "Boling Salt Dome/Sinkhole" Field Trip, as well as writing an article for its field guide
- The Hockley Salt Mine Field Trip
- Chaired, coordinated, managed the 2008

HGS-AEG Big Bend Field Trip

- The HGS Arbuckle and Ouachita Mountains and Turbidities in Oklahoma field trip in the 1990s
- The 2009 HGS-AEG Daisetta Field Trip, where he also gave a presentation during the associated conference
- Helped plan and run two HGS road rallies
- Worked on the virtual field trip committee in the 1990s through early 2000s
- Co-led the field trip for the AEG 2010 Schlemmer Conference in Galveston on "Modern Subsidence, Sea-Level Rise, and Future of the Gulf Coast"
- Co-led a fund raising 2019 HGS field trip "Faults in West Houston".

But he is not through. He will be co-leading the "Faults in West Houston" field trip for the 2019 GCAGS GeoGulf Conference in Houston.

- Richard has also assisted in and helped organized conferences and short courses:
- The 1987 HGS "Alternative Careers in Geology Conference"
- HGS' TX A&M Professor Dr. Norm Tilford's "Siting of Critical Facilities" short Course
- the 2005 HGS-AEG-ECH conference on "Coastal Subsidence, Sea Level and the Future of the Gulf Coast";
- the HGS 2018 conference on "Flooding in Southeast Texas: The Science Behind the Floods"

As the HGS representative to the Engineering, Science and Technology Council of Houston (ECH) for 10 years, Richard served as Vice President of ECH from 2003-2004, President from

**Richard Howe** continued on page 35

## 2018-2019 Honorary Life Membership

Honorary Life Membership honors members who have distinguished themselves in the science of geology or have contributed outstanding service to the success and welfare of this organization. The honoree must have received the HGS Distinguished Service Award.

**Inda Immega** is receiving the *Houston Geological Society's Honorary Life Membership Award* for the 2018-2019 year. Previously she received the Distinguished Service Award in 2004 and the President's Award in 2001.

**Inda is the rock behind the HGS K-12 outreach programs.** She started **Earth Science Week** activities at the Houston Museum of Natural Science in 1998, the first year of the national ESW efforts sponsored by the American Geosciences Institute. She led it as chair or co-chair for years and passed the chair position on to others, but has always been actively involved and served as the coordinator

at the museum, and the backbone to insure continuity. Inda is the chair/co-chair of the **HGS committee for the Houston Museum of Natural Science**; she is the second person to hold this position and has for many years. She has assisted at many HGS Guest Nights. As a museum volunteer, she is a strong representative of the HGS. She helps on **multiple HMNS events** – tours, scout events, activity tables, etc. She helps with the training of volunteer docents and coordinates children's activities for many of the museum exhibits, both permanent and visiting displays. Her favorite hall is Gems and Minerals, but is active in Paleontology and in the Wiess Energy Hall, as well as many of the traveling exhibits. A previous award description of Inda said that she likes to work in partnership with others and rarely takes credit for contribution, and this continues.

Inda provides excellent advice and support to the HGS Educational Outreach Committee, helping to organize tours of HMNS for HISD magnet students of the Petroleum Academies. She helped with the start of the HGS Bones in School project. She was an instructor in a 1999 continuing education class. Inda was involved in the HGS booth at the start of the city Earth Day event. In 1994 she was an active member of the AAPG Computer Applications Committee, and in 1995 she participated in the creation of the HGS website.

Inda's other AAPG activities include the Youth Education Activities Committee, and as a long-time member of the AAPG House



**Inda Immega**

of Delegates. She participated in the AAPG Teachers' Day Programs during the 1995 and 2002 AAPG Annual Conventions in Houston

Inda and her husband, Neal Immega, are also active in the **Houston Gem and Mineral Society (HGMS)**. Inda arranges every year for the HMNS and the HGS to have adjoining booths at the show to help with the school field trips for over 1000 students and with scouts earning geo badges. Both Inda and Neal set up and staff the booth for HMNS outreach.

Inda Immega grew up in central Texas, the oldest child of a large family. She got

interested in geology from her grandmother who lived near an outcrop filled with rocks, petrified wood and Eocene fossils. She participated in a National Science Foundation summer program in geology at Texas A&M during her junior year in high school. Her high school chemistry teacher encouraged Inda to apply for a scholarship to A&M, which she won. Living off-campus in an all-female apartment house, Inda was the only woman in the undergraduate geoscience program. She was supported by Fred E. Smith, the NSF Summer Science Program director and a professor at A&M, who felt it was important that both women and men have the opportunity to pursue the science of geology. She was greatly inspired by the fact that there was a female graduate student in A&M's School of Oceanography working on her MS degree, Claudia Ludwig, recipient of the 2004 HGS Honorary Life Member Award. Inda and Neal met as undergrads at TAMU and both went on to Indiana U for their doctorates and then spent their geology careers at Shell. She served as an exploration geologist in Shell Oil Company for many years, until her retirement in 1998. Inda developed an early understanding of computer geology as the field emerged, and freely shared this knowledge with colleagues. Inda worked for Shell Oil until her retirement in 1998.

*Citation by Janet Combes*

## 2018-2019 Honorary Life Membership

Honorary Life Membership honors members who have distinguished themselves in the science of geology or have contributed outstanding service to the success and welfare of this organization. The honoree must have received the HGS Distinguished Service Award.

**Neal Immega** is receiving the *Houston Geological Society Honorary Life Membership Award* for the 2018-2019 year. Previously, he received the President's Award in 2015 and the Distinguished Service Award in 2017.



**Neal Immega**

Neal Immega has contributed many years of service in the HGS outreach efforts. He has led multiple field trips for Earth Science Week events to Galveston Island, High Island, Whiskey Bridge, downtown Houston building stones, each several times. These trips had scores of children and their parents attending as well as college students and K-12 teachers. The explanations at the outcrops had volunteers stationed along the exposures so that groups could travel at their own pace rather than have one leader of a large group. He led a 2005 HGS field trip to the Brazos River that is on the HGS website. Neal has helped the Educational Outreach Committee with field trips for HISD magnet students of the Petroleum Academies, including the Whiskey Bridge fossil dig field trip, the High Island Beach Learning trip, and the visits to the Ocean Star Museum. He has also led trips for Houston AAPG and GCAGS conventions. Neal helped with the start of the Bones in School project in 2012, and has contributed articles on the importance of field trips and outreach to the HGS Bulletin.

As an active volunteer at the Houston Museum of Natural Science, Neal is a strong representative of the HGS. He helps on **multiple HMNS events** including tours, scout events, etc. He has assisted at **HGS Guest Nights at the museum**. A visitor on one of Neal's museum paleontology tours definitely benefits from his enthusiasm for the subject

Neal and Inda Immega are active in the **Houston Gem and Mineral Society (HGMS)**. Both Neal and Inda set up and staff a booth for HMNS outreach at the annual Houston Gem and Mineral Society

Show and help with the adjacent HGS booth for many years. He promotes interest in geology in multiple HGMS events and field trips. Neal has been very active for years in the effort to provide rock/mineral/fossil kits to schools. He frequently speaks at these schools, where the most popular topic is the rock cycle. Neal is currently President of the Paleontology section of the HGMS. One of his current projects is reviewing and updating the HGMS libraries. In addition, Neal teaches classes on lapidary and silversmithing (jewelry-making) at the Houston Gem and Mineral Society

Neal has been involved in Science Olympiad training for Junior High and High School students and coached 2 U.S. Champion teams in the last 5 years.

When Neal was about six years old, he found his father's rock collection in the basement of the family home in St. Louis, Mo. The specimens were from West Texas near where Big Bend National Park is now located. Neal says that he was fascinated and believed every one of those rocks had a story to tell. His interest in fossils grew so that while in high school he spent hours in the recovery of fossils, primarily blastoids, a kind of sea lily, from an area near Millstadt, Ill. He found he could earn spending money if he sold some of his collections to Ward's Natural Science in Chicago, a large supplier of scientific material to schools and universities. Inda and Neal met as undergrads at Texas A&M University and went on to Indiana U for their doctorates. They both went on to geology careers at Shell. After a few years in exploration, Neal moved to the Shell Bellaire Research Center, where he worked in geochemistry and facilitated the early delivery of interpretive computer applications in exploration. ■

*Citation by Janet Combes*

## 2018-2019 Honorary Life Membership

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**Glenn Lowenstein** has been a member of the Houston Geological Society for over 30 years. He has been a HGS volunteer who always comes to help if asked, as well as assisting major projects. He was the Chairman of the Environmental and Engineering Group for seven years, which entailed finding speakers, vendor corners, and innovative meeting and dining areas throughout town. He was also on the organizing committee for the 2005 "Coastal Subsidence, Sea Level and the Future of the Gulf Coast" Conference and helped with the 2018 "Flooding in Southeast Texas: The Science Behind the Floods" Conference. He led the organizing committee for the recent 2019 "Geology at the Crossroads, Big Bend Ranch State Park, Presidio and Brewster Counties, West Texas" Field Trip, along with his invaluable committee members, including Bob Traylor, Richard Howe, Matthew Cowan, Annie Walker and Constantin Platon.

Glenn's service to all Texas geoscientists is revealed by him having Texas PG #28 – one of the low numbers that were awarded to a select number of license holders in honor of their service working on the passage of the initial PG licensure bill. Of particular pride, was being selected by Governor Perry to serve on the Texas Board of Professional Geoscientists from 2005 through 2011. During that period, he worked closely with enforcement and helped refine regulations, especially firm registration. Even after leaving the Board, he maintained a close relationship with the Board supporting efforts to maintain the PG license when threatened by forming a work group, testifying before the legislature, meeting with legislators in Austin to discuss the importance of geologic licensure, and assisting in financing efforts for lobbying. In the most recent 2018-2019 fight to reauthorize the Texas Geoscience Act, Glen was one of the few HGS members to testify in Austin before the Sunset Commission to relate the value geologists and the role that licensing plays in having qualified and capable



**Glenn Lowenstein**

professionals to protect health, safety and the environment of Texas.

Glenn was born in New York and has a Bachelor's degree in Geology from CUNY Queens College, but he soon adopted Texas as he earned his Masters degree in Geology from Texas A&M.

Glenn's career in geology started out as being an Earth Science teacher for HISD where he taught geology for four years in the underserved Fifth Ward during the early 1990s. He exposed his students to his love of geology with mineral and fossil samples, stream table experiments, field

trips, and laboratory experiments that had not been practiced in the middle school before.

Glenn then changed to a career in environmental geology performing environmental services for PSI as a consultant to municipalities and private clients in the southwest and he was eventually promoted to Department Manager. In the late 1990s, he left PSI, and became a consultant to several engineering and environmental consulting firms, as well as performing assessments for his own company. In 2001 he joined forces with Richard Howe and created Terrain Solutions, Inc. (TSI), where they performed more complex environmental assessments, fault studies, remedial activities, and litigation support services, including expert witness testimony for environmental legal issues. Eventually, Richard Howe left TSI during 2008 to focus exclusively on fault studies, but Glen and Richard still work closely on select projects. Glen has grown TSI to include several full time and part-time geologists and environmental scientists. TSI now offices and collaborates with an asbestos company and a forensic geochemist on projects ranging from fueling stations to chemical plants. ■

*Citation by Cheryl Desforjes*



## 2018-2019 Honorary Life Membership

Honorary Life Membership honors members who have distinguished themselves in the science of geology or have contributed outstanding service to the success and welfare of this organization. The honoree must have received the HGS Distinguished Service Award.

**Bob Traylor** is a native Texan. He graduated with a BS in Petroleum Geology from Lamar University in Beaumont, Texas. He describes himself as an “accidental geologist.” He started his career in 1969 working for Texaco, mapping several Gulf Coast salt domes. He calls that “his learning period”. After 3 years he embarked on a 30-year career as an independent consultant and an operator/producer. In 1994 Bob joined the Railroad Commission in the Groundwater Advisory Unit (GAU) as a Geological Advisor. All operators knew Bob, because all drilling permits needed to have Bob’s approval that the casing program would protect freshwater aquifers before their drilling permits were approved. He retired in 2017, allowing more time to enjoy operas, symphonies and ballets. He is a Bob is a Patron of the Houston and Santa Fe operas and the Houston symphony and ballet.



**Robert J. Traylor**

People who know Bob know he is an “idea man” and often the motivator to start projects. After joining HGS during the early 1970s, he has often been the “spark” for new ideas for conferences, field trips and short courses. More often than not, he then participates in organizing and sometimes leading events.

After being the “spark” for the ideas, he was in the organizing committee for the 2005 HGS-AEG-ECH conference on “Coastal Subsidence, Sea Level and the Future of the Gulf Coast” and the 2018 conference on “Flooding in Southeast Texas: The Science

Behind the Floods”, the 2008 HGS-AEG Big Bend Field Trip. He started the idea for the 2019 “Geology at the Crossroads, Big Bend Ranch State Park, Presidio and Brewster Counties, West Texas” Field Trip by insisting that there needed to be a field trip to the Solitario as soon as the 2008 Big Bend Fieldtrip ended.

He has given presentations about Railroad Commission issues, contamination and sinkholes. He has been the initial driving force and led fieldtrips to see Pennsylvanian growth faults, a “Disaster” field trip, and mining operations on the Brazos River. It was on the mining fieldtrip that he got to prove one of his

top priorities – protecting water supplies. He observed mining operations making illegal discharges into the Brazos River. Later he discovered they also did not have stormwater permits.

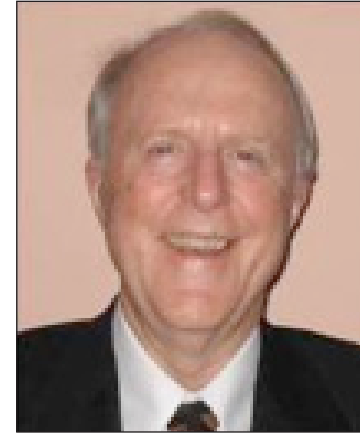
Bob is a Licensed Texas Geologist (# 921). He’s a Certified Professional Geologist through the American Institute of Professional of Professional Geologists (AIPG), and a Certified Petroleum Geologist through American Association of Petroleum Geologists (AAPG). In addition to HGS, Bob belongs to the American Association for the Advancement of Science (AAAS), Association of Environmental & Engineering Geologists (AEG), and the Geological Society of America (GSA). ■

*Citation by Cheryl Desforges*

## 2018-2019 Honorary Life Membership

Honorary Life Membership honors members who have distinguished themselves in the science of geology or have contributed outstanding service to the success and welfare of this organization. The honoree must have received the HGS Distinguished Service Award.

John Tubb has had a lifetime of volunteering for the professional societies in his life. His volunteering efforts started with the Lafayette Geological Society, where he was Secretary and Delegate to the AAPG House of Delegates from the Louisiana Geological Society. After moving to Houston during 1975, HGS has been the beneficiary of most of his volunteerism. John has received a Distinguished Service Award in 2012 and the Society’s highest honor, the Gerald A. Cooley Award in 2013, the President’s Award in 2018 for his service as a HGS Officer.



**John Tubb, Jr.**

For HGS he served as an AAPG Delegate from Houston from 1983 to 1985, 1994 to 1998, and again from 2000 to 2007. He served as HGS Treasurer-elect and Treasurer 2007-2009, President-Elect and President 2009-2011. Since then he has continued to be active as a valuable advisor to HGS presidents and the Board of Directors. John lent his strong leadership as the committee chairman for Technofest for two successive years’ events. His work with three different Legends’ Nights contributed greatly to their successes and provided the necessary support for the HGS scholarship funds. He served as

a negotiator of hotel contracts for the HGS-PESGB Africa conference when that event was held in Houston. He was a valuable member of the Africa Conference committee, always well organized and willing to spend time on details. He was the Chairman of the Scholarship Night Committee from 2011-2018. And he is currently Chairman of the Office Management Committee.

John continues to be an asset to HGS and is very deserving of the Honorary Life Award.

John has a BS in Geology from SLI (UL Lafayette now) in Lafayette, Louisiana, and a MS and PhD from University of Illinois. He has worked in the industry for 56 years for Tenneco, Aminoil, Michigan-Wisconsin Pipeline Co. and Japex, where he rose to ever more responsible jobs, including Division Geologist, District Manager, and Vice President of Exploration. He has been a Consulting Geologist since 1996. ■

*Citation by Cheryl Desforges*

# 2018-2019 Distinguished Service Award

HGS Distinguished Service Award honors members who have given long-term valuable service to the Society.

**Matthew Cowan** is the “ever-ready volunteer” for HGS, as well as other organizations. Some of his activities with these organizations have been to represent the professional geoscience community before the Texas Board of Professional Geoscientists, lobbying members of the State legislature and recently testifying before the Texas Sunset Commission on the matters related to Professional Licensure.



**Matthew Cowan**

Matthew has been a member of the HGS since the early 2000s. As a member of the HGS, he has served on various committees from Continuing Education to Governmental Affairs and served on the HGS Board as Secretary. As Chair of the Environmental Engineering Group in the HGS, he has facilitated monthly meetings by arraigning speakers and venue. He served on the organizing committees for the 2019 “Geology at the Crossroads, Big Bend Ranch State Park, Presidio and Brewster Counties, West Texas” Field Trip, the 2018 “Flooding in Southeast Texas: The Science Behind The Floods” Conference and the 2005 “Coastal Subsidence, Sea Level and the Future of the Gulf Coast” Conference. During 2014 Matthew presented an ethics talk at the GCAGS Convention. During 2011 in Houston and 2014 in Dallas he helped organize the conference “Myths and Reality of Hydraulic Fracturing” for Texas Association of Professional Geoscientists. Matthew has served on the boards of the TAPG, American Institute of Professional Geologists – Texas Section and is currently a Director for the Texas Geoscience Council.

Matthew graduated from Texas A&I University in 1993 with a BS Geology with minor in Mathematics and from Texas A&M – Kingsville with a MS Geology in 2000. Currently he is active in the Texas A&I Alumni Association with serving on the Board of Directors and scholarship committee. Matthew has been a practicing Geologist for more than 20 years in the environmental field. He is a Licensed Professional Geoscientist in both Texas and Louisiana. ■

**Bill Dupré** has devoted his life to service, starting as a teacher during 1970 beginning in graduate school continuing to the present. He has combined this service with his passion for geology, starting at age 15, when he was the geology merit badge counselor at El Rancho Cima Boy Scout Camp. He was also fortunate to be a charter member of the Esso Production Research’s Explorer Science Post. There he went on field trips and studied fossils with Dr. Russell Jeffords, solidifying his commitment to geology. He began formally studying geology at the University of Houston, transferring to the University of Texas at Austin where he completed his BS and MA degrees in geology. He continued at Stanford University, completing his MS in hydrology and PhD in geology. This was followed by two years teaching at Wesleyan University in Connecticut. He returned to Houston to teach at the University of Houston in 1976, where he taught until 2019. During that time, he was the major supervisor for 25 graduate students and a committee member for more than 125 graduate students. He is retired and remains Professor Emeritus in the Department of Earth and Atmospheric Sciences. He will continue to teach in the Accelerated Petroleum Geology Master’s Program at UH, which he has done for the past 10 years. He has also worked part-time for the US Geological Survey, including the Water Resources, Environmental, Alaska, Marine Geology, and Western Mineral Resources Branches, as well as for NOAA and the U.S. Corp of Engineers. Bill is a Texas Licensed Professional Geoscientist (#3096).



**William Rook Dupré**

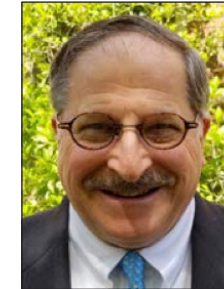
Bill’s commitment to HGS has been long and deep. Historically, Bill has been served HGS in many capacities, including HGS Treasurer (1985-1986), Delegate to the AAPG House of Delegates (1989-1990 and 2000-2002), HGS Calvert Memorial Scholarship Committee Secretary (2002-2010), HGS Executive Committee Board Member (1991-1993), HGS Academic Liaison Committee Chairman (1991-1993) and most recently on the organizing committee for the 2018 HGS Conference “Flooding in Southeast Texas: The Science Behind The Floods”. In addition, he has served affiliated societies including the AAPG Committee on Publications (1982-1984), GCAGS-SEPM Program Committee (1990-1991), GCAGS Convention Student Program Chairman (1991 and 2000), AAPG Student Chapter faculty advisor (2006-2009). Bill has also received many awards from places he has touched, including

**Bill Dupré** continued on page 35

# 2018-2019 Distinguished Service Award

HGS Distinguished Service Award honors members who have given long-term valuable service to the Society.

**Walter** has been an HGS member since 1977. He was a Director in 2008-09 and received the Rising Star Award in 2006 and the President’s Award in 2018. Walter is a graduate of the University of Texas at Austin and prior to forming his company worked for Sohio Petroleum and JWR Exploration, Inc.



**Walter Light**

Walter owns Thunder Exploration and Thunder Exploration is Walter Light: they are two sides of the same coin. Walter is my ideal example of an independent geological operator. He originates prospects, leases the land, promotes the deal, participates in the drilling, completion and production of a successful well. He also participates in outside generated deals. He works mainly in the Eagle Ford shale play in south Texas and is a very successful geologist.

Walter, through Thunder Exploration, has been a longtime supporter of HGS activities. His company has been a sponsor of many HGS activities since 2000. Thunder Exploration’s monetary commitment to HGS rates it as one of the highest supporting companies since 2000 and the second highest contributor for HGS sponsored events in 2018-19. ■

*Citation by John Tubb, Jr.*

**Sue Pritchett** has been an active member of the Houston Geological Society since she joined. If two words can describe her, they are “Always There”. Initially as a helpful volunteer at various events, she worked her way up to the position of Volunteer Coordinator; helping several committees recruit volunteers. She is always ready to help with a smile and lots of energy. From the banks of Panther Creek to the dunes of Long Beach, she maintains an interest in field study as well as attending the many lectures provided by the HGS. Her most memorable trips was that led by Michael T. Halbouty to Spindletop and to Col. Drake’s well in Pennsylvania with Marlan Downey.



**Susan Pritchett**

She began her interest in the energy industry as a summer intern with Mitchell Energy in The Woodlands, challenged to map a waterflood field with geologist Bob Barber. Helped by her part-time job with the Texas Railroad Commission, she graduated with a BSc from UT Austin. From the tight gas fields of East Texas to the shallow offshore Gulf of Mexico, her career with Enserch Exploration was exciting but cut short by a downturn. Since then she’s worked with several unique service companies offering cutting-edge science to the industry; she’s currently the customer service manager for Ikon Science.

As an active HGS member, she was recruited by Claudia Ludwig to be the Engineering, Science and Technology Council’s HGS Councilor. The ECH was one of the founding societies backing the establishment of the Science and Engineering Fair of Houston (SEFH), now in its 60th year. Sue was instrumental in creating the HGS Science Fair Committee to build awareness and recruit judges for both Division winners and Summer Research Assistants at the HMNS. The HGS sponsors three named HMNS internships in honor of Richard Howe, Claudia Ludwig (both ECH past-presidents), and Barry Katz (who supported the SEFH endowment). Sue serves as Secretary on the Board of Directors of the SEFH.

Sue continues to serve as the HGS ECH Councilor and will always support the many activities and help offered to members and HGS committees with her loyalty and dedication. She has previously received the HGS Rising Star Award and the HGS President’s Award for her volunteer work. Sue is being honored for her distinguished service to the HGS and she hopes that may that continue for a long time. ■

*Citation by Jim Tucker*



## 2018-2019 Distinguished Service Award

HGS Distinguished Service Award honors members who have given long-term valuable service to the Society.

**Letha Slagle** was educated in Environmental Science at University of Virginia and earned her MS degree in Geology at Stanford University, specializing in Stratigraphy and Sedimentology. During her career at Shell Oil Company, she explored the Americas from Alaska through South America. Her career highlights included early record-breaking horizontal Bakken wells and exploration in Brazil. She was part of the teams discovering the Parque de Conchas Campos Basin field complexes as well as Santos Basin fields. During these campaigns, Shell ventured into record-breaking water depths and drilled the first dynamically positioned well with a Surface Blowout Preventer.



**Letha Slagle**

Letha later served as Discipline Chief of Exploration Geology for Shell International E&P, managing skill pool health, staff mentoring and development, resourcing and technical assurance. She also served as Manager of the Fluids and Basins Center of Expertise, a global team of subsurface specialists. These specialists in Applied Stratigraphy and Petrology, Integrated Charge Evaluation and Asset Geochemistry, Well Testing and Structural Geology were deployed on E&P projects worldwide.

Since retirement, she has volunteered in Educational Outreach. She formed strategic partnerships with other organizations and began training students of the four HISD Petroleum Academies in geologic skills and in professional development. In 2012, she brought this effort under the umbrella of the Houston Geological Society. Events touch some 500 public school students a year, including interviews skills training, rock labs, museum days, geologic map labs, and beach and outcrop geologic field trips. These events include serious technical content, such as exercises and videos, which she produced to introduce students to opportunities in the field of geology. Recent highlights include the annual rock lab at the Texas Bureau of Economic Geology, where over 100 students work with core, hand samples, and microscopes to understand rocks and minerals, and the annual tours of the Houston Museum of Natural Sciences. Several graduates of the Petroleum Academies have now gone on to graduate bachelor's programs and begun graduate studies in geology, and credit their career choices to these early exposures. Students and the Independent Petroleum Association of America (IPAA) have

**Letha Slagle** continued on page 36

**Henry M. Wise** received a BA in geology from Boston University and an MS in geology with a minor in geophysics from The University of Texas at El Paso. He began his career exploring and mining uranium in South Texas for US Steel and, later, Cambridge Royalty Company as its VP of Uranium. During the downturn in the uranium industry in the 1980s, he switched his career to environmental geology with an emphasis on site assessments and soil and groundwater remediation. He is currently a Remedial Services Senior Specialist with NRC in their La Porte, Texas office, having joined the company in 1999.



**Henry M. Wise**

Henry has been a member of the HGS since he moved to Houston in 1981 and helped to found the HGS Environmental Committee (now the Environmental and Engineering Geologists Group) and continues to serve on its planning committee. He is a long-standing member of the Group's steering committee and has been a member of the Continuing Education Committee, serving on the planning committee for the Coastal Subsidence Conference in 2005 and as the videographer of the conference's presentations. However, he is probably best known for re-starting the Government Affairs Committee, along with Arlin Howles, for writing the monthly "Government Update" in the HGS Bulletin since 2005, and for authoring "The Wise Report" since about 2003. For his efforts, Henry has been awarded HGS's Volunteer for the Month for April 2005 and President's Award in 2006.

Henry is a member of the AAPG and is both a founding and current member of its Environmental Geosciences and Energy Minerals Divisions, where he serves on the Energy Minerals Division's Uranium Committee as its Vice-Chair of Industry. He is also a member of the NGWA and is a licensed Professional Geologist in Texas (P.G. 940). Henry has also been serving as president of the AIPG Texas Section since 2013 and has been working for many years with many other Texas Geologists to assure that the Texas Board of Professional Geoscientists remains funded and intact. Towards that end, Henry is also a founding member of the Texas Geoscience Council (TGC), serves on its Board, and oversees the HGS TGC fund.

In his spare time, Henry is an avid hang glider pilot and has been

**Henry M. Wise** continued on page 36

## 2018-2019 Chairman's Award

Chairman's Award honors members whose extraordinary efforts or unique contributions to their committee deserve special recognition.

**Steve Johansen** earned a BS from New Mexico Institute for Mining and Technology, an MS from University of Arizona and a PhD from UT Austin. He worked for Texaco and Chevron for 28 years in exploration, development, and the research/services groups. Much of this was overseas in the United Kingdom, Venezuela, Indonesia, and the partitioned zone of Saudi Arabia/Kuwait. Steve initially did sequence stratigraphic and petrographic analyses; with time his emphasis shifted to large team efforts for planning and implementation of major development projects. These included diverse projects such as steamflood fields, unconventional heavy oil fields, offshore gas and oil fields, and waste disposal wells. Steve contributed to many geocellular model constructions used for reserves estimation and development planning. Teaching and mentoring were a significant part of his career. He delivered lectures and field trips in sedimentation, diagenesis, and reservoir management in both the US and abroad.



**Steven Johansen**

Steven began volunteering with the Educational Outreach committee in 2016 and has been one of our most reliable and repeated core participants. Events in which he repeatedly played a key role include:

- Rock Lab, which exposes over 100 HISD Petroleum Academy high school students to rocks and mineral, through core examination, hand samples and microscopes
- High Island Beach Learning, which includes multiple learning threads on stratigraphy, sedimentology, structural geology and paleontology.
- Bones in Schools and Rock Labs for local ISD 5th-8th graders
- Multiple Boy Scout/Cub Scout Rock Labs
- Career fairs for Spring Branch ISD and San Jacinto College middle-school summer camp

Whenever there is a need for educational outreach, he has answered yes, and he is also exceptionally effective at what he does. He explains rocks and examination techniques to these students very well and gets them excited about careers in geology.

Steve is married to DanDan Chen Johansen, a former Chinese and Japanese interpreter and executive assistant whom he met in London 25 years ago. They have two daughters. Their eldest Jennifer just graduated from Rider University (New Jersey) with a degree in Finance. Alice is entering her third year as a computer science major at the University of Edinburgh. ■

*Citation by Letha Slagle*

**Ken** was awarded a BA in Geology and a Masters in Paleontology from Queens College (CUNY). He has worked as an exploration geologist for more than 40 years. Areas he has worked include China, Korea, India and Malaysia, East Africa, West Africa and Brazil as well as the US East, West and Gulf Coasts. He has focused predominantly on the Gulf Coast, including onshore, shelf and deep water. In addition to his exploration work he has served as an expert witness in State, Federal and International courts.



**Ken Thies**

Ken has gravitated back to his paleontological roots and has been working on the Pleistocene megafauna of the Texas Gulf Coast. He has made several paleontological discoveries and written publications, working in conjunction with the Texas State Museum. Ken is pictured with a representation of the animal from which he discovered a tooth in Hockley, which had previously been documented only in South America.

The HGS Bones in Schools program has provided opportunity for him to teach what he loves, pass it on to the future generations and possibly inspire a few new paleontologists. Ken has been key and necessary to the success of the reboot of the Bones in Schools Program, involving coordination with the Educational Outreach Committee Chair. He played a leadership role in every Bones in Schools event which we have held, never turning down any opportunities to help with these events. He has helped train several additional volunteers in this program, including HGS student members who are themselves considering careers in geology. He will work with students of any grade level and has interacted with over 500 students with this material in the last 15 months.

Ken measures his success by the light in the eyes of young people and the several PhDs either in process or completed which he has influenced. ■

*Citation by Letha Slagle*

## 2018-2019 Chairman's Award

*Chairman's Award honors members whose extraordinary efforts or unique contributions to their committee deserve special recognition.*

HGS is pleased to present the Chairman's Award to **Robert (Bob) Wiener** for his many years of continuous service and contributions to HGS. Bob joined the Houston Geological Society in 1978 and has been an active member throughout his career. Bob served as Vice President of HGS (2017-2018) and is currently a co-chair of the North American Interest Group.



**Bob Wiener**

In his role as Vice President, Bob worked tireless planning and organizing the speakers for the monthly HGS General Dinner and General Luncheon meetings. Bob selected speakers for the HGS General Meetings from a variety of organizations, spanning small independents to major oil and gas companies, to speak on innovative and diverse technologies as well as current global oil and gas discoveries to provide up-to-date knowledge and awareness for our HGS community. In addition, Bob went to great

lengths to assist the speakers through guiding them with document submissions to the HGS website and HGS Bulletin and ensuring that the equipment was gathered and ready for the speakers. These were not small tasks! Bob is an invaluable mentor for HGS and graciously and patiently helps transfers his expertise to those in our HGS community.

Bob graduated from the University of Rhode Island with a BSc Degree in Geology. In 1974, Bob joined Cities Service Company and began his career in the oil industry. While working for Cities Service International Oil Company, Bob moved to Houston in 1978 and became a member of the Houston Geological Society. After career changes and an overseas assignment with Conoco, Bob returned to Houston in 1988 and began his consulting and independent prospect generation business, Goh Exploration, Inc. Bob is active member of AAPG, serving on the Geophysical Integration Committee, as well as Geophysical Society of Houston, and a member of the Society of Exploration Geophysicists. ■

*Citation by Penny Patterson*

## 2018-2019 Rising Star Award

*Rising Star Award honors individuals who are relatively new to the HGS and have made significant and promising contributions to the enhancement and success of the society.*

**Jeremy** is currently the SWN Liaison for the HGS Northsiders' Luncheons. He has volunteered with the HGS Northsiders' Luncheon Committee since 2018 and has served as treasurer and Committee Co-Chair. When Jeremy began volunteering, he proposed a change to the meal system at SWN from a catered option to a voucher system. The change allows visitors the chance to pick their own meal while saving HGS more than half the existing cost per visitor.



**Jeremy Andrews**

Jeremy received his BS in Geology from the University of Arkansas in 2003, and his MS in Hydrogeology from Baylor University in 2005. He began working as a hydrogeologist in 2005 working on groundwater modeling, contaminant transport simulation, remediation design, and build out. The majority of his project work was completed in north and east Texas, Puerto Rico, Delaware, and Kansas. In 2014, Jeremy graduated from the University of Houston with his MS in Petroleum Geology and was hired by Southwestern Energy where he has worked on the New Ventures Team in the Permian and SCOOP/STACK, and development in West Virginia. Jeremy is currently on the Utica/Point Pleasant Team. ■

*Citation by Ian McGlynn*

Initially **Ceri** volunteered to help the North American Explorationists group that he now co-chairs with two others. The talks have sold out this year. He will be Editor-Elect 2019-2020, and HGS Editor 2020-2021. He plans to assist with the initial HGS-EAGE Latin America conference later in 2019.



**Ceri Davies**

Ceri grew up surrounded by the natural world at its best along the coastlines of Wales, becoming endeared to the curiosity geology could bring to everyday life.

He continued that curiosity through education in Liverpool (MS and PhD) and followed his career to the largest collection of geologists globally in Houston. He has been with CGG Robertson since 2010. He enjoys the diversity the Houston Geological

Society brings, from the insights of West Texas to the next wildcat adventure offshore. Ceri feels Houston harbors and supports a geologist's dream like no other city can. ■

*Citation by Jim Tucker*

**Bryan** is the type of member every non-profit organization wishes all their members were like. He is always ready to donate his personal time to HGS activities and always with a smile on his face.



**Bryan Flynn**

Bryan is a member of the HGS Continuing Education committee and helps with the reviewing materials for short courses. He is primarily responsible for coordinating the HGS booth at the Sam Houston Area Council Scout Fair.

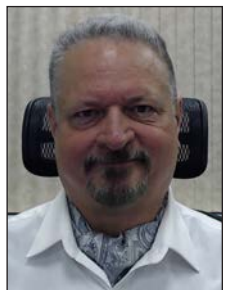
He loves to encourage our youth towards STEM topics, and also volunteers with San Jacinto College Energy Ventures Camp.

Bryan received his BSc in Environmental Geology from Millsaps College and MS in Petroleum Geophysics from the University of Houston. He has spent his career using advanced geophysical techniques to understand the geology of deep water exploration and development targets in the Gulf of Mexico, North Sea, and West Africa. He has recently launched his own consulting firm, evaluating oil and gas prospects for private capital groups.

Bryan believes that strong, active technical societies are important and is an active member of HGS, GSH, SEG and AAPG. HGS will certainly be in very good hands well into the future with Bryan as an active member. ■

*Citation by Cheryl Desforges*

**Mark Herkommer** has been a member of HGS since 1999, but over the past 3 years he has stepped up more and more to help with several activities, including volunteering for the 2017 Mubrocks and 2018 AGC Conferences, as well as sponsoring both events, and volunteering to help with the 2019 Shrimp Peel and 2019 Latin America Conference. He has contributed \$3160 to sponsor 3 events



**Mark A. Herkommer**



# 2018-2019 Rising Star Award

*Rising Star Award honors individuals who are relatively new to the HGS and have made significant and promising contributions to the enhancement and success of the society.*

so far and has indicated he will sponsor the Latin America Conference.

Since 1988, Mark Herkommer, a Licensed Professional Geoscientist in Texas, has focused his professional career on the analysis of seismic and geological data for pore pressure, fracture gradient and wellbore stability (PP/FG/WBS) interpretation. He has been involved in most geopressure and geomechanical related phases of well planning and drilling and currently manages the Data and Consultancy service line for Excellence Logging, an international mud logging company with bases in more than 20 countries around the world.

Prior to joining Excellence Logging, Mark was the owner and president of Petrospec Technologies, a company specializing in solutions to geopressure and geomechanical challenges in offshore operating environments. He holds a bachelor's degree in geology and a master's degree in mathematics and is the author of more than 70 publications relating to the geosciences and mathematics. His current research interests are centered on computational error analysis and probabilistic methods for well control.

After his company was successfully acquired by Geoservices (A Schlumberger Company), Mark worked for 7 years as Geoservices' Geomechanics Domain Head, training and supervising a team of wellsite geopressure analysts throughout the world, supporting global marketing efforts, and researching new methods of real-time geopressure and geomechanical surveillance.

Today at Excellence Logging, Mark is actively involved the new product development, including Real-Time Geopressure-Geomechanics and Wellbore Surveillance services, which integrates Excellence Logging's Advanced Surface Data Logging measurements to provide real-time wellsite PP/FG/WBS surveillance for unconventional onshore and offshore wells. ■

*Citation by Andi Peoples*

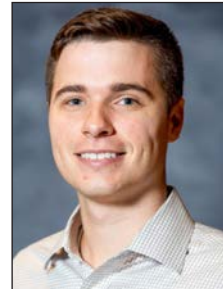
**Casey** is the kind of young, motivated, and enthusiastic geoscientist that will be the future of HGS. He has shown leadership since his college years by serving as President of the Fort Hays State University AAPG and SEG student chapters (2015-2016), leading Fort Hays State University's IBA team (2015). He brought his leadership skills to HGS by becoming Chairman of the HGS NeoGeos (2018-Present), where he has steered the NeoGeos

back to its intended purpose of being an introduction to HGS for early career geoscientists. As the NeoGeo Chairman, he planned quarterly happy hours and recruited sponsors, put together the NeoGeos Career Development Series, "Geologists in Investment Banking" (60+ attendees). He is already planning a Summer Happy Hour for Interns, and a Fall Career Development Series: Data Science and Analytics for NeoGeos. Casey continues to be involved as a committee member of the AAPG Student Expo Committee (2017-Present). He has received several awards and honors for his research in seismic interpretation and student leadership. If his volunteerism was not enough, he has already started helping with obtaining sponsors for HGS events by recruiting Concho as a sponsor of Guest Night.

Casey holds a BS in Geology from West Virginia University (2014) and a MS in Geoscience from Fort Hays State University (2016). He has a desire to learn more about the geology/geophysics of mature and emerging petroleum plays. Casey started his career working for IHS Markit (2016-2019), where he worked for the asset valuation group (Vantage) and Latin America research group (EDIN). His focus for Vantage was valuation of company positions in the Permian Basin and Haynesville. For EDIN, he led research efforts for the southern Atlantic Margin countries. More recently, he started working for Concho Resources in the Houston office. His work at Concho focuses on developing data analytics solutions to support the geoscience A&D team. ■

*Citation by Cheryl Desforges*

As a new HGS members, **Rebecca Morgan** and Jason Simmons jumped into service feet first as Co-Chairs of the HGS Applied Geoscience Subsurface Intelligence Conference 2019. This was the first conference of its kind, designed to offer a fresh look at the evolving world of data analytics being applied to the geosciences. Rebecca and her fellow Co-Chairman Jason Simmons leveraged the vast experience of the HGS staff and committee members to achieve a successful event.



**Casey Langdon**



**Rebecca Morgan**

# 2018-2019 Rising Star Award

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Rebecca currently leads a team in the Geoscience & Petroleum Engineering group in Baker Hughes, a GE Company, focusing on standardizing software and processes to develop exceptional solutions. Rebecca's strong Geological technical background, with a MS degree in Sedimentology, some 20 years in Oil and Gas industry and extensive international experience, bring results that address today's customer and industry challenges.

Rebecca is being awarded the HGS Rising Star Award for her service with the AGC conference, but you can expect to see her being honored more in the future, because she has already asked if HGS is ready for the second Applied Geoscience Subsurface Intelligence Conference 2020. *Citation by Cheryl Desforges*

Just as a bit if trivia, even though stars are always present, from different perspectives, some appear to rise and set.

**Dave Orchard** can be considered one of those ever present "volunteer stars." After joining HGS in 1980, he was elected to the HGS Board from 1995-1997 as the HGS *Bulletin* Editor-Elect and Editor. Then he became less active and "set" for awhile, as many of us do. More recently, he rose again to become an active contributor to the Society. During 2018 he taught a one-day short course for HGS, **The Lucia Method of Carbonate Reservoir Characterization**. He has continued to be active by taking on the large task of organizing and executing the 2019 HGS Guest Night at the Houston Museum of Natural Science. As the "second Rising Star", his friends will never allow him to ever "set" again.

Originally from California, he received a BA degree in Anthropology from Stanford University, completed undergraduate course work in Geology at San Diego State University, and received a MA in Geology from the University of Texas at Austin. His career has included periods of employment with the U.S. Geological Survey, BHP Petroleum Americas, and ConocoPhillips. As well, he has owned and managed a service company within the petroleum industry and founded and directed a non-profit organization for investigations into the paleontology of tar pit fossils in Venezuela. In addition to HGS, he is a member of the AAPG and the West Texas Geological Society. ■ *Citation by Cheryl Desforges*

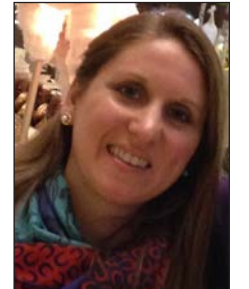
**Lauren** is the kind of volunteer who steps up when needs arise and quietly works in the background serving others and helping organizations function. During 2015 she worked as a co-editor of papers and abstracts for the September 2015 Gulf Coast Association of Geological Societies (GCAGS) Transactions. Since 2011 she has volunteered for Chemo Angels using her time to support people going through cancer treatment. In 2017 Lauren was made aware of the need for someone to work with Dianna Phu on the HGS Social Media Committee, because Dianna would be leaving on maternity leave. Without hesitation, she said "I don't know anything about social media, but I'm willing to learn." Since that time, she has been Co-Chairman of the Social Media Committee, where she sees that events are posted across all out social media - Facebook, LinkedIn, and Twitter.

Lauren has twelve years of experience as an exploration and production geologist. She currently is employed by EP Energy working in the Permian Basin (Wolfcamp) Asset Team. She has worked for Marathon and EOG, with short "fill-in" jobs as a consultant and at Hess.

Lauren completed her BA in Geology from Smith College in Northampton, Massachusetts during 2004 and her M.S. in Geology from Baylor University, Waco, Texas during 2007.

In addition to Houston Geological Society (HGS), she is a member of a number of other professional societies, including American Association of Petroleum Geologists (AAPG), Geological Society of America (GSA), Sigma Xi, The Scientific Research Society, SIPES Houston, Women's Energy Network (WEN) and Pink Petro. ■

*Citation by Cheryl Desforges*



**Lauren Robinson**



**Dave Orchard**

# 2018-2019 Rising Star Award

*Rising Star Award honors individuals who are relatively new to the HGS and have made significant and promising contributions to the enhancement and success of the society.*

As a new HGS members, **Jason Simmons** and Rebecca Morgan jumped into service feet first as Co-Chairs of the HGS Applied Geoscience Subsurface Intelligence Conference 2019. The event was the first of its kind for the oil and gas industry, focusing on innovation in the Digital Geosciences.



**Jason Simmons**

Jason is currently the Director of Digital Reservoir for Baker Hughes in Houston. He began his career at Hess Corporation, working in Reserves and Corporate Strategy functions. Jason also worked at Drillinginfo, in a data analytics and research role, before joining Baker Hughes. During his time at Baker Hughes, Jason has worked in a variety of roles from commercial to technical, while his most recent position focuses on combining digital with the subsurface.

Jason holds a BA in Mathematics from the University of Texas, a MS in Finance and Energy Risk Management from the University of Houston, and a MS in Statistics from Texas A&M University. ■

*Citation by Cheryl Desforges*

**Marcus Zinecker** has been an active volunteer with the HGS Exhibits group since he became an HGS member in early 2018. He has attended numerous conferences and events on behalf of HGS, including AAPG ACE, URTeC, NAPE, Summer Nape, UH Student Research Day, GCAGS, and GSA, where he has been responsible for registering new members, many of whom are young professionals and graduate students seeking to enter the oil and gas industry. He maintains an active interest in the recruitment and retention of young professionals into HGS and looks forward to his growing role within the organization.



**Marcus Zinecker**

Marcus received BSc's in both Geology and Geophysics, with Honors, in 2014 and is currently a second year PhD candidate at the University of Houston, working in the CBTH consortium group. His graduate work focuses on the rift structure of the southeastern Gulf of Mexico and the petroleum implications for crustal asymmetry between the northwest Africa and East coast U.S.A. conjugate margins. He was on the University of Houston IBA team in 2018, and he won First Place in the student poster session at the 2018 HGS Africa Conference. Marcus has experience in basin analysis, seismic interpretation, sequence stratigraphy, and well correlation, and is currently interning with BP in their Anchorage, Alaska office. ■

*Citation by Stephen Adeniran*

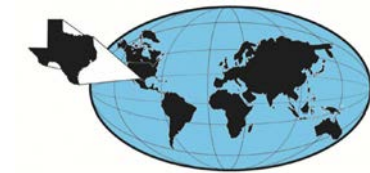
# 2018-2019 Corporate Stars

*The Corporate Star Award honors companies who have made significant contributions to the Houston Geological Society. These contributions can be monetary (cash) or in kind (donation of services, materials, or an individual's time).*

## Platinum Corporate Star Award



## Gold Corporate Star Awards



THUNDER EXPLORATION, INC.



## Silver Corporate Star Awards



## Bronze Corporate Star Awards



Terra Guidance



# 2018-2019 HGS Teacher of the Year

*This award has been established to honor individuals whose extraordinary efforts or unique contributions are in earth science education.*

This year, an outstanding Elementary School Science Instructional Specialist and Coach deserves recognition for her exceptional efforts at Lee Elementary, a Title 1 School serving a low-income community. **Jessica Snyder's** role is to help all teachers in the school prepare for STEM-related lessons and coach them on best practices. In doing so, she has brought Geoscience into the classrooms.



**Jessica Snyder**

Ms. Snyder was born in New Orleans and raised in Baton Rouge, Louisiana, where science teachers fed her curiosity and embraced her out of the box thinking during and after class. She went on to study Elementary Education at Louisiana State University and fell in love with teaching immediately. Giving children the opportunity to feel safe in their learning environment while providing them with knowledge that would help them succeed in the future was a dream come true.

She taught for two years in Louisiana and then relocated to Houston. She taught fourth grade math and science in 2009 at the newly opened Emery Elementary. She then moved to Klein ISD where she continued teaching fourth grade and served on the science curriculum writing team. From this experience she realized that she wanted to serve in a broader role than in a single classroom. For the last 3 years she has been the math and science Instructional Specialist at Lee Elementary. She assists teachers in lesson plans, coaches best practices, and interprets data to improve instruction.

In reviewing classroom data, she and the teachers noticed a need for more attention to geology lessons. In response, Ms.

Snyder invited the BEG and HGS to introduce students to geology through Rock Labs and Bones in Schools for several consecutive years. For the Rock Lab event, Jessica organized four consecutive double classes of 5th graders to participate, around 150 students in shifts of 30-40. HGS volunteers enjoyed seeing all the beautiful work the teachers and the students had already been doing on geology, displayed in hand-drawn concept-map posters. These 5th graders were already getting great exposure to geoscience! HGS provided a hands-on rock examination lab and a career discussion featuring the University of Texas Jackson School of Geology's "Earth is Calling" film. The students were extremely receptive and well prepared with many good questions. At

the Bones in Schools event, HGS volunteers had the privilege of interacting with her students on concepts of Paleontology, including the Pleistocene climate and environment of the Texas Gulf Coast. The students remembered us from before, gave us a warm welcome, and seemed genuinely excited to work with us again. Fossils and framed posters were left with the school.

By building teamwork with teachers and volunteers from HGS, Ms. Snyder is generating excitement for science in students at a young age. These memorable events might be just the thing for a diverse group of curious kids to imagine themselves with a future in geology or other STEM fields. ■

*Citation by Beverly DeJarnette and Letha Slagle*

## HGS Awards continued from page 18

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### **Richard Howe—Honorary Life Membership Award**

2004-2005, Vice President and President of the Houston Science and Engineering Fair respectively in 2005 and 2006. He helped plan and chair the ECH "Houston in the 21st Century" conference on flooding in the Houston Metropolitan Area in 2004.

Richard is a Licensed Professional Geoscientist in both Texas (#27) and Louisiana (#832). He is a Certified Professional Geologist with the American Institute of Professional Geologists (# 5191). In Texas, Richard worked on Texas professional licensing for

geoscientists for its passage and subsequent renewals for almost 20 years. The contribution he made to its initial passage is reflected in his license number, #27, which is one of the low numbers that were awarded to license holders who worked on the passage of the initial PG licensure bill. For the recent Sunset challenge, Richard testified before the Texas Sunset Commission and the Licensing and Administrative Procedures Committee for the Texas House on behalf of keeping the Texas Board of Professional Geoscientists (TBPG). In addition to the HGS, he is a member of the AAPG (including its environmental division), AIPG (Certified Professional Geologist), AEG, SEPM and the TAPG. ■

*Citation by Cheryl Desforges*

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### **Bill Dupré—Distinguished Service Award**

Distinguished Service Award: Texas Earth Science Teachers Association (1997), Distinguished Educator Award: Gulf Coast Association of Geological Societies (2001), John C. Butler Teaching Excellence Award (NSM) (2007), University of Houston Teaching Excellence Award for Core (2008) and University of Houston Provost Faculty Advising Award (2010). He currently serves on the board of the Bayou Preservation Association.

During the Fall of 2017, shortly after Hurricane Harvey devastated the Houston area, Bill was asked what he thought about the idea of the HG Continuing Education Committee putting on a conference that would focus on how geology impacts flooding. From its inception, the conference was perceived as a public service to our fellow citizens to enhance their understanding of the root cause of why areas in southeast Texas flood – the geology. That was just up Bill's alley. He jumped in to say not only was it a good idea, but he wanted to be on the planning committee. That was the beginning of his tireless participation in the planning and execution of a major conference, "Flooding in Southeast Texas: The Science Behind the Flooding" that was presented at the University of Houston on June 6-7, 2018. Bill agree to develop what became one of our keystone presentations, "Geomorphic Evolution of S.E. Texas Rivers: A Tale of Four Rivers." But he didn't stop there. At one of our planning sessions he pointed out that our message during our 2-day Conference would only get out to a limited number of people, and most of them would probably have a science or engineering background. He insisted that we could help the general lay public better understand the catastrophe of flooding, so they could avoid similar consequences in the future. Without any prompting,

he stepped forward agreeing to prepare community outreach presentations that could be given at community centers in the various watersheds around the Greater Houston Metropolitan area.

His initiative also launched the first action of the newly formed HGS Communication Committee's second mission to reach out to the general public. So, the **HGS Community Outreach – "Flooding and Floodplains in Houston: Past, Present and Future"** was born. The first of these presentations was a two-hour presentation on May 18, 2018 at the Bayland Community Center in the Westbury area of Houston. This presentation specifically addressed the Brays Bayou watershed that had experienced severe flooding during Harvey, as well as during 2 flood events during the prior 16 months. The free outreach was attended by 95 local residents who were exposed to a better way to evaluate and respond to flood hazards in the Houston region. He provided them with references – both as handouts and websites – about local water sheds and floodplain maps, as well as how to read and interpret them. He included the importance of understanding how and why floods and floodplains had changed over time, as well as likely changes in the future. Of particular interest to the audience was his review of possible approaches to reducing flooding in the future. After the conference, Bill continued HGS out-reach by giving interviews, workshops and symposiums around the Greater Houston Area. His workshops and symposiums were customizing to the particular watershed they were in, and included, in addition to the Braes Bayou, the Buffalo Bayou, Cypress Creek, and San Jacinto watersheds. These talks were variously open to the general public, various organizations and governmental agencies. He also gave interviews to *Houston Chronicle* and on NPR on several occasions. ■

*Citation by Cheryl Desforges*

HGS Awards continued from page 35

continued from page 26  
**Letha Slagle—Distinguished Service Award**

recognized her and the HGS at their Educational Board of Directors meeting for these efforts.

Several years ago, she took on the role of Chair of the HGS Educational Outreach Committee and, with the help of others, began efforts to reintroduce Bones in Schools and incorporate events for the Middle School and younger grade levels. The success of all the Educational Outreach Committee work has depended on and been enabled by the outstanding cooperation of other related committees and devoted volunteers.

Her lifelong hobby is “birding” and she is a frequently contributor to the Cornell University “ebird” database. She is a Gulf Coast Master Naturalist, and teaches the geologic section of this program. She also serves as a Director of Municipal Utility District 355, addressing local drainage and infrastructure issues. She is happily married to Grant Gist and has a son Miles, who has graduated with his Mechanical Engineering Degree from UT Austin and is working in the oil industry here in Houston. ■

*Citation by Cheryl Desforges*

continued from page 26  
**Henry M. Wise—Distinguished Service Award**

soaring through Texas skies since 1976 and has enjoyed going on numerous geological field trips, including The HGS canoeing trip on the Brazos River looking for vertebrate fossils, the 2014 HGS Grand Canyon field trip (perhaps his most memorable), and the 2017 AAPG Wyoming field trip to view the 2017 solar eclipse and fossil collecting.

In 1982 Henry married his wife Susan and they have two children, both Aggies, and two grandchildren, so far. ■

*Citation by Cheryl Desforges*

# HGS Grand Canyon Field Trip

## Dates: June 7–15, 2020

## Cost: \$3700/person

The trip is full.  
 Call the HGS office to be  
 added to the wait list.



*Running one of the many smaller rapids on day 1. Permian Hermit Shale at river level with Coconino Sandstone, Toroweap and Kaibab Limestone forming the cliff. Photo courtesy of Phil Caggiano.*

You are invited to join the HGS on its 2020 Grand Canyon field trip. This “Journey Through Time” will weave the geologic story of the Canyon with other natural sciences on display here, the human history in the Canyon, and of course the thrills (and chills) of running many exciting rapids of the Colorado River.

We will float the River on motorized rafts, providing us the opportunity to see and discuss the classic geology so beautifully portrayed here, from some of the earliest Precambrian sediments found in the States up to modern processes which continue to shape the canyon. Geological concepts are introduced and magnificently illustrated in the Canyon such that the geology comes alive for everyone. In addition to running rapids, we will offer a number of short hikes in some of the many side creeks, eat like royalty and sleep under the stars. Your river guides and gear are supplied by Hatch River Expeditions, one of the most experienced outfitters serving the Grand Canyon. Past participants have stated this was the best geologic trip they ever took and many have brought one or more of their family along to share this incredible experience with them.

While this is not an overly strenuous trip, participants must be in good enough physical condition to climb in and out of the rafts. You will have the opportunity to enjoy some hiking each day, the longest being six miles and several require some scrambling. The hikes are always optional; however, I encourage you to participate in as many as you are comfortable doing to fully experience this extraordinary trip.

The trip joins in Las Vegas on June 7. We will provide transportation by motor coach from there to Marble Canyon by way of Zion National Park for an opportunity to view the geology there, the first night in Cliff Dwellers Lodge, food and drink for our 8 days/ 7 nights on the river, a helicopter ride to Bar 10 Ranch the last day, and the flight from there back to Las Vegas. Costs not covered include your round-trip airfare to Las Vegas, first night’s dinner and breakfast in Marble Canyon, tips for our river guides, souvenirs purchased at Phantom Ranch or Bar 10 Ranch, and anything you might spend in Vegas should you decide to extend on either end. Optionally, you may join us in Marble Canyon and Hatch will arrange a return flight to there at the end.

Reserve your spot now with a \$500 deposit by calling the HGS office at 713-463-9476; the balance due is by December 15, 2019. Please read the HGS’s refund policy before booking your trip.

Trip Leader: **Steven Earle** is a Past-President of HGS and also served as Editor and as chair of North American Explorationists. He received his BS in Geoscience from the University of Arizona. While there, he spent as much of his free time as possible hiking the trails of the Grand Canyon. Steve is passionate about the Canyon and loves sharing his knowledge with everyone. After a 40-year career as an oil and gas explorationist, he is now retired in Pagosa Springs, Colorado. This will be Steve’s sixth and final time to lead the HGS field trip. ■





# HGS Welcomes New Members

## New Members Effective May 2019

### ACTIVE MEMBERS

Brian Maxson  
Philip Morath  
John Tackett

### STUDENT MEMBERS

Marissa Aleman  
Anindito Satrio Baskoro

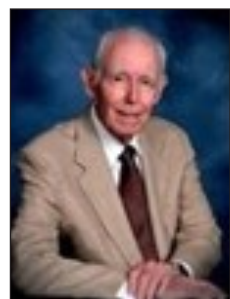
### EMERITUS MEMBERS

Rick Smith  
Paul Ware  
Howard White

*Welcome New Members*

## Remembrance

DONALD RICHARD JONES  
1930-2019



**DON JONES** graduated from Loyola High School in Los Angeles. He received a BA in Geology from UCLA in 1953 and a MS in Operations Research from the University of Houston in 1970. After serving two years in the U.S. Air Force as an Intelligence Officer, Don was employed by Marathon Oil Company as an exploration geologist. He later went to work at TransOcean Oil as an evaluation engineer and American Exploration Company as Vice President of Exploration and Production. One of his favorite adventures was the time he spent as a consultant in Buenos Aires with his good friend Warren Hawkins. Don joined HGS in 1980.

Don was preceded in death by his wife of 58 years, Vrai V. Jones. He is survived by his two children and five grandchildren. ■



## Government Update

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

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

The Texas Legislature is back in session. “The Wise Report” is currently following a number of bills that may be of interest to Texas Geologists (TBPG), including two (one in the House and one in the Senate) for reauthorization of the Texas Board of Professional Geoscientists. Both of these bills are identical, so only one needs to pass and be signed by Governor Abbot. Failure to pass one of these bills and/or a veto by the Governor will result in the TBPG disbanding September 1, 2019, leaving a vacuum of persons legally able to sign-off on geological reports to the Texas Commission on Environmental Quality (TCEQ), Texas Department of Transportation (TxDOT), US EPA, and other areas of public practice in Texas. In all probability, those persons who would be allowed to sign for these types of reports, etc. would be Professional Engineers. Professional Geoscientists (PGs) from other states may be allowed, but under current rules, only a PG registered in Texas are allowed to sign these documents.

### AGI Geoscience Policy Monthly Review (March 2019) House Subcommittee Holds Hearing on Offshore Energy Policies at BOEM and BSEE

On March 6, 2019 the House Natural Resources Subcommittee on Energy and Mineral Resources held a hearing to discuss the policies and priorities of the Bureau of Ocean Energy Management (BOEM), the Bureau of Safety and Environmental Enforcement (BSEE), and the U.S. Geological Survey (USGS). Walter Cruickshank, acting director of BOEM, and Doug Morris, chief at the Office of Offshore Regulatory Programs at BSEE, both spoke on the progress that their agencies are making in collaboration with USGS.

Both agencies have been prioritizing the advancement of offshore energy, with BOEM's National OCS Oil and Gas Leasing Program serving as the focal point of Cruickshank's testimony. Cruickshank said that BOEM's regular collaboration and coordination with BSEE, as well as other federal and state agencies, is crucial in ensuring the effective management of offshore energy activities and the continued assessment of their environmental impacts.

Cruickshank touted the benefits of offshore drilling in contributing to U.S. energy production, noting that in fiscal year 2017, outer continental shelf (OCS) leases provided about 18 percent of domestic oil production and 4 percent of domestic natural gas production. As of February 2019, BOEM manages over 2,600 active oil and gas leases on about 14 million OCS acres. Offshore energy production reached a 10-year high in 2018, and as BOEM looks to the future, Morris emphasized the potential for offshore wind to

revolutionize the U.S. energy portfolio as the technology continues to be advanced and deployed in U.S. waters.

Both organizations have worked towards satisfying Executive Order (E.O.) 13795 “Implementing an America-First Offshore Energy Strategy.” Issued on April 28, 2017 with the aim of reducing burdens on the offshore drilling industry, the E.O. requires BSEE to review and revise the Well Control rule, and BOEM and BSEE to review the Arctic rule, both of which were published in 2016 to meet the need for more stringent safety requirements in extreme operating conditions. The Well Control rule includes requirements for offshore well design, equipment, and operation, while the Arctic rule sets specific requirements for offshore drilling in the Beaufort and Chukchi Seas off the coast of Alaska. Both measures were introduced to update regulations to reflect the continuing advance of offshore drilling into increasingly extreme conditions, thus helping to prevent large-scale incidents like the 2010 Deepwater Horizon disaster.

Chairman Raúl Grijalva (D-AZ-3) has long opposed attempts to further open up the OCS to offshore drilling, and has recently praised a group of House Democrats for introducing a collection of bills to prevent offshore drilling in different parts of the OCS, such as the Stop Arctic Ocean Drilling Act of 2019 (H.R. 309). The Subcommittee on Energy and Mineral Resources is likely to hold hearings on these bills in the coming months.

### House Passes Bipartisan Bill to Support Energy Efficiency in Schools

On March 5, 2015 the House passed the Streamlining Energy Efficiency for Schools Act of 2019 (H.R. 762), a bill that directs the Department of Energy (DOE)'s Office of Energy Efficiency and Renewable Energy to provide a clearinghouse of information on programs and funding geared towards making schools more energy efficient. The bill, introduced by Representatives Matt Cartwright (D-PA-8) and Peter Welch (D-VT-AL) on January 1, 2019 would also include resources to help conceptualize and fund energy efficiency and retrofitting projects.

H.R. 762 has bipartisan support, with cosponsors including Brian Fitzpatrick (R-PA-1), Chellie Pingree (D-ME-1), and Frederica Wilson (D-FL-24). Energy and Commerce Chairman Frank Pallone, Jr. (D-NJ-3) and Energy Subcommittee Chairman Bobby Rush (D-IL-1) issued a joint statement praising the bill, stating that increasing energy efficiency in schools benefits both the schools themselves and the nation's children as “energy efficient schools

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## Government Update continued from page 39

save money and produce fewer emissions, which will result in a healthier environment.” Representatives Paul Tonko (D-NY-20) and Welch have echoed these points, adding that upgrading and modernizing schools also saves local taxpayers money. The bill will now move on to the Senate for consideration.

### House Subcommittee Holds Hearing on the Energy-Water Nexus

On March 7, 2019 the Subcommittee on Energy of the House Science, Space and Technology Committee met to discuss the complex web of connections between the energy and water sectors, as well as the implications of this nexus for society and the economy. The committee heard from experts in academia, industry, and the non-profit sector.

According to the Department of Energy (DOE), water and energy systems are interdependent and opportunities exist to co-optimize both systems. Kate Zerrenner, senior manager at the Environmental Defense Fund, emphasized the positives and negatives of this interdependence during the hearing, saying that “the two sectors simply cannot function without each other, but currently neither fully considers the needs and impacts of the other, which is having huge impacts on the availability of both resources.” Michael E. Webber, chief science and technology officer at ENGIE, agreed with this sentiment, affirming that increasing the efficiency of both sectors reduces environmental impacts and improves the resiliency of existing infrastructure because “saving water saves energy and saving energy saves water.”

Raman P. Singh, Associate Dean for Engineering at Oklahoma State University, made the case for a national focus on oil and natural gas production, which he argued offers the benefits of job creation, energy for economic and social development, and energy security while the U.S. transitions to more renewable forms of energy. Singh noted that just focusing on oil and gas would not suffice, and acknowledged the high levels of trans-disciplinary complexity associated with the engineering systems required to solve issues at the energy-water nexus. He proposed that there is not just one solution, and that a diverse, interdisciplinary effort is required to solve these large-scale issues.

Given the scale and rapid evolution of the national energy system, Zerrenner pointed to a lack of cohesive national policies that “incorporate water into energy policy discussions and vice versa,” with widely varying frameworks and objectives in energy and water policy from region to region. She highlighted that \$325 billion will be needed in the next 20 years to maintain and update water infrastructure, including pipes and meters, and that effective policy can play a key role in funding necessary updates to critical infrastructure.

The hearing was preceded by the introduction of the Energy and Water Research Integration Act (H.R. 34) on January 3, 2019 by Eddie Bernice Johnson (D-TX-30) and Frank Lucas (R-OK-3), with the intention of instructing the Department of Energy to consider water intensity in its energy research and development (R&D) programs. Energy Subcommittee Chair Conor Lamb (D-PA-17) has expressed that this bill is crucial as it aims to decrease water and energy intensity by assimilating water considerations into DOE’s energy R&D programs.

### Senate introduces bipartisan bill to designate PFAS as hazardous substances

On March 1, 2019 the Environment and Public Works Committee introduced the PFAS Action Act of 2019, a bipartisan bill that would require the Environmental Protection Agency (EPA) to classify per- and polyfluoroalkyl substances (PFAS) as hazardous substances within a year after the bill is passed. This declaration would expedite contaminated superfund remediation efforts by providing funds for cleanup efforts and charging polluters for remediation.

The bill, introduced by Senators Tom Carper (D-DE), Shelley Moore Capito (R-WV), Marco Rubio (R-FL), Jeff Merkley (D-OR), Cory Gardner (R-CO), and others, shows the continuing bipartisan commitment of the Senate to address the emerging issue of PFAS contamination across the country. Carper, articulating the thoughts of his colleagues, said that “this is an issue that must be addressed with urgency—and that’s why this bill is so important.” This Senate bill serves as a companion to an identical bill introduced in the House (H.R.535) in January 2019.

PFAS are synthetic chemicals that are largely unregulated at both state and federal levels, and are commonly found in products like firefighting foam, cleaning products, nonstick products, and paints. PFAS have been found to contribute to a series of health issues, including birth defects, cancer, and thyroid disorders. People are most commonly exposed to PFAS through air, soil, and drinking water.

Congressmen Brian Fitzpatrick (R-PA-01) and Dan Kildee (D-MI-05) cofounded the Congressional PFAS Task Force in January with the purpose of creating a House action plan for PFAS cleanup. They recently issued a joint statement affirming that “PFAS chemical contamination is a public health crisis and the EPA must act with an urgency that matches the scale of the problem.” EPA Administrator Andrew Wheeler has said that EPA is working to deal with the issue, but legislators in both the House and Senate have insisted on a more concrete timeline.

Continuing the bipartisan effort to mitigate PFAS risks, the House Subcommittee on Environment held a hearing to examine PFAS chemicals and their associated threats to public health on March 6, 2019. The hearing sought to determine what efforts the

Department of Defense is currently implementing to minimize the exposure of military communities to PFAS substances, as well as the plans EPA has for regulating these chemicals.

### Natural Resources Committee Investigates Rollback of National Monument Protections

The House Natural Resources Committee held a hearing on the rollbacks of national monument protections on March 13, 2019. The rollbacks were announced in December 2017, when President Donald Trump delivered two presidential proclamations in December to downsize national monuments on over 2 million acres of land in Utah. The proclamations authorizing the downscaling of the Bears Ears and Grand Staircase-Escalante monuments followed a comprehensive review of 27 national monuments for potential reduction or elimination, as required by an executive order issued by President Trump in April 2017.

The rollbacks have since been widely debated: some Utah officials have praised the move toward state instead of federal control, while tribal and environmental groups have expressed concern over the continued preservation of lands with deep historical, environmental, and cultural significance. President Trump justified his order by saying that past administrations have overreached their authority in using the Antiquities Act to set aside excessively large areas for protection as national monuments. Senator Mike Lee (R-UT), Congressman Rob Bishop (R-UT-1), and other Utah legislators have supported President Trump’s decision, indicating a preference against federal control of lands within their state.

Committee Chairman Raul Grijalva (D-AZ-3) has been a critic of the rollbacks since they were announced, stating that the monument reductions are “the largest public lands rollback in modern American history.” The hearing provided a forum in which Native American tribe leaders could voice concerns over the increased vulnerability of sacred lands as a result of the rollbacks, notably the possibility of extractive industries disturbing sites in formerly protected areas. Clark Tenakhongva, vice chairman of the Hopi Tribe, explained how lands retain a spiritual importance to their people even after the tribe has left the area. Conservation Lands Foundation Executive Director Brian Sybert underscored the “extraordinary value these lands hold for Native American communities and all Americans,” arguing that the rollbacks constituted “nothing more than political score settling.”

The rollbacks have also been criticized by paleontological groups, who have noted the value of protecting these lands both above and below the surface due to the richness of both relatively pristine wildlife habitat and exceptional fossil localities.

On March 12, 2019 Bishop introduced the National Monument Creation and Protection Act (CAP Act) (H.R. 1664), a bill to reform the original Antiquities Act and impose limits on the president’s power to change national monuments, due in part to concerns over future expansions of federally protected lands. Bishop has also invited former presidents Bill Clinton, Barack Obama, and George

W. Bush to appear before the committee to clarify the usage of the Antiquities Act throughout their presidencies.

### House committee Holds Hearing on Reauthorization of the National Flood Insurance Program

On March 13, 2019 the House Financial Services Committee held a hearing on the reauthorization of the National Flood Insurance Program (NFIP). NFIP was last reauthorized by Congress on December 21, 2018, authorizing the program through May 31, 2019. The program has long struggled with fiscal sustainability, due in part to the escalating costs of major storms in recent years. Since fiscal year 2017, NFIP has been reauthorized ten times and has experienced several brief lapses in authorization, especially during the government shutdowns of 2018. According to the Federal Emergency Management Agency (FEMA), NFIP reauthorization gives Congress the chance to simplify this program and strengthen it financially so that it can effectively help individuals and communities to secure flood insurance.

The Financial Services Committee’s hearing memo states that NFIP is currently the main provider of primary flood insurance in the U.S., covering over 5 million households, or about 93% of U.S. the population. During the hearing, Congressman Bill Pascrell (D-NJ-9) highlighted the importance of modernizing this program that affects so many citizens, and discussed the SAFE NFIP Act (H.R. 3285), which proposed changes to NFIP by allowing for flood prevention investments and insurance claim updates. Maria Cox Lamm, from the Association of State Floodplain Managers, agreed with these sentiments, calling for outdated flood maps to be updated immediately due to their critical importance in circumventing flood-related disasters. Lamm stressed that current flood maps are dangerously outdated, with many hazard areas remaining unmapped, making it difficult to identify areas of risk or create guides for flood-safe development in these communities.

Raymond J. Lehmann, director of finance, insurance, and trade policy at the Street Institute, spoke about NFIP’s past troubles and the tensions between government programs and the private sector. Lehmann pointed to the program’s lack of sustainability and insufficient mitigation incentives, and noted that the program discourages the adoption of private alternatives. Lehmann argued that private insurance can help close the protection gap for those whose needs fall outside of NFIP’s coverage.

With multibillion-dollar flood-related disasters striking many regions of the United States in the last few years, many legislators have intensified their focus on flooding. Charlie Crist (D-FL-13) recently introduced the State Flood Mitigation Revolving Fund Act of 2019 (H.R.1610) to allow FEMA to provide states with grants to fund flood risk reduction activities by amending the National Flood Insurance Act of 1968, which itself led to the creation of NFIP. Meanwhile, several other members of the Financial Services Committee have also proposed flood-related legislation, including Maxine Waters (D-CA-43) and Nydia Velázquez (D-NY-7). ■



1- 2 OCTOBER 2019 | OLYMPIA LONDON



**AFRICA IS BACK**  
SMARTER  
STRONGER  
BETTER

**This annual event, alternating between London and Houston, has established itself as the primary technical E&P conference and exhibition on Africa.**

The Africa E&P Conference 2017 was attended by over 600 delegates, with more than 30 countries represented including Congo, Comoros, Gabon, Guinea, Madagascar, Mozambique, Namibia, Nigeria, Sierra Leone and South Africa.

Reflecting the high-quality technical content, 50% of the audience is G&G, with 20% of the audience identifying themselves as C-level executives.

Africa E&P Conference 2019 will feature an oral programme of more than 25 high-quality talks covering E&P in all regions of Africa, and an full poster programme.

**60%**

of attendees were Presidents / VP / Directors / Exploration Managers / Senior Explorationists / Chief / Senior Geophysicists and Geoscientists

**Over 250**

companies represented at Africa 2017



**29%**

of the audience was international with representation from: Comoros, Mozambique, Sierra Leone, South Africa, Namibia, Guinea, Congo, Madagascar, Gabon, Nigeria, São Tomé & Príncipe



**#AfricaEP2019**  
**@PESGB**

#### GET IN TOUCH

For more information, please get in touch with [events@pesgb.org.uk](mailto:events@pesgb.org.uk) or call +44 (0) 20 7408 2000

## SPONSOR

### WHY SPONSOR?

- Reach a specific and exclusive audience by connecting with over 600 professionals actively interested in the region
- Increase your visibility before an international audience
- The Centre for Exhibition Industry Research (CEIR) reports that booth efficiency increases by 104% when sponsorship is included in the exhibition plan.



#### 2017 SPONSORS



*Would you like to support the Africa E&P Conference in an alternative way? Flexible and bespoke sponsorship packages are available...*

Contact [events@pesgb.org.uk](mailto:events@pesgb.org.uk) to discuss the possibilities



#### HEADLINE

#### REGISTRATION | £4,000

Make sure your logo is the first thing they see; this popular option includes your logo being printed on the lanyards and badges given to every person attending the conference.

#### TECHNICAL PROGRAMME | £4,000

Make sure not to be missed & get in front of your audience all day. The Technical program sponsor will have their logo displayed on the main stage throughout the full two days of the conference. A prominent position to make sure your company stands out from the crowd!

#### DELEGATE BAGS | £4,000

Make a lasting impression, get your logo on all of the delegate bags. These high-quality satchels or conference folders are not only given to everyone attending as they enter the show but are keepsake items. Ensuring the longevity of your exposure

#### ABSTRACT VOLUME | £4,000

Make sure to be associated with high quality technical content. Your logo will be included on the printed and online abstract volume; a valued technical resource which is an ongoing reference for many people working in the area.

#### EVENING RECEPTION | £4,000

Networking is one of the top reasons people attend any conference, and the Africa E&P Conference. Make sure that your company is the one to get the party started by sponsoring the Evening Reception; the focal point in the Conference social calendar. Sponsorship will include decorating the event in your branding, and a branded cocktail for attendees on arrival.

#### WiFi | £2,000

This option includes your logo on signage for the WIFI located throughout the seating areas. In addition to having the option to specify password of your choice, meaning everyone attending has to type in your company name each day.

#### SPEAKER GIFTS | £1,000

Get your logo on the gifts which are given out to all of the high profile industry speakers at the Africa conference.





FEATURE AREAS

SEISMIC THEATRE | £4,000

Back for a second year the second stream of talks at the Africa Conference proved to be a big success! Providing Seismic service companies a better opportunity to ‘show off’ their data. This sponsorship option would allow you to get your logo on the signage in the theatre, a prime spot to be noticed!

INTERNATIONAL PAVILION | £2,000

The International Pavilion is a central point to the exhibition floor and as its sponsor your logo would be prominently displayed both in this high profile area and in the specific section of the exhibition website.

POSTER AREA | £2,000

Logos on poster areas located on the show floor and on the poster session timetables.

SIGNAGE | £2,000

Your logo will be included on all of the directional signage and banners throughout the venue, including both the exhibition floor and conference areas.

COURSE | £500

Sponsor the associated course and get your logo on the course materials and signage.

GIVE SOMETHING BACK

SPONSORED STUDENT PLACES | £2,000

In order to support the future of our industry we would like to create a programme to support students attending the show. As their sponsor you will be thanked on signage & an article promoting the initiative.

YP NETWORKING | £500

For the first time ever we are planning on running a YP ‘speed networking style event. Everyone was just starting out once, this event will facilitate those young or new to the industry in meeting new people to show them the ropes at the conference.

CATERING

OFFSITE ICE BREAKER DRINKS RECEPTION | £3,000

The first event in the show’s calendar the Ice Breaker Drinks Reception starts the Africa Conference with a bang! To thank you for your sponsorship your logo will be included on signage of the event, including on the drink points.

BREAKFAST | £3,000

Buy everyone a bacon or sausage sandwich, perfect to start the day off right (or mend a sore head), your logo will be featured on the napkins wrapped around each; so people will know who to thank!

TEA & COFFEE | £1,500 PER DAY

...is always a vital part of any conference, and as its sponsor you can get your logo on the coffee cups. Get your brand in their hand.

LUNCH | £500 (MAX 2 SPONSORS)

Get your logo on signage on the catering stations over lunchtime.

WATERCOOLERS | £500

They say that humans are 60% water, keep everyone going by sponsoring the water stations, and get your logo on the floorplan at the same time.



CONFERENCE MATERIALS

Sponsoring delegate items make sure that your promotional item goes in the delegate bag given out to each of the attendees.

Pens	£1,000 - SOLD
Notepads	£1,000 - SOLD
Delegate list	£1,000
Exhibitor guide	£1,000
Insert	£500

EXHIBIT

EXHIBITOR BENEFITS

BEFORE	DURING	AFTER
Listing on the event exhibitor list and floorplan, both online and in upcoming PESGB magazines	Complimentary Passes to the Conference 1 with 4sqm booth 2 with 8sqm booth	Complimentary access to the full Africa E&P Conference 2019 delegate list
1 LinkedIn post and 1 Twitter Post, organised by PESGB Conferences Ltd, stating your involvement in exhibiting at the event	Priority access to booking meeting rooms on-site at the event	Access to the Africa E&P Conference 2019 Post-show Report
Access to the exhibition manual to assist your in preparing for the event	Lunch and refreshments provided throughout the day	Access to event photography
Access to the Exhibitor Marketing Toolkit, helping you to prepare your pre-conference marketing	Company details in the onsite exhibitor guide	Opportunity to book your space onsite for the 2021 show before exhibition space opens to new exhibitors
Access to “We’re Exhibiting” banner ads for additional marketing	Listing on the online event exhibitor list and on the floorplan in literature and signage	
Access to the pre-conference delegate list, prior to the event, to help you with preparations for the event		



EXHIBITOR MARKETING TOOLKIT

We’re committed to helping you make your African E&P Conference 2019 experience as profitable and productive to your business as possible. We will be sending all exhibitors, a copy of the exhibitor marketing toolkit - This pack is intended to act as a helpful checklist and guidelines to support exhibitors in their pre-conference marketing.

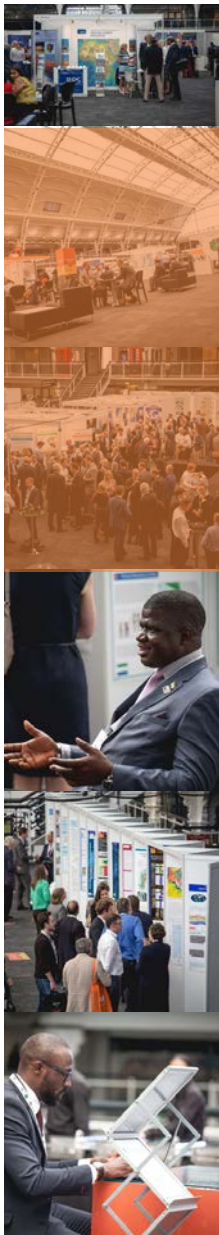
High-calibre technical content draws the right type of people

The only Africa-focused show we attended

All the best people you want to talk to...

Over 95% of exhibitors surveyed at Africa E&P Conference 2017 said they ‘definitely’ intended to exhibit again





Complementing the outstanding technical conference, the exhibition space will feature industry operators, service companies, national oil companies and professional organisations.

SECURE YOUR BOOKING IN 4 EASY STEPS...

- 1. Decide below what **size** booth you would like
- 2. Go to the exhibitor **floorplan** and identify your top four exhibit spaces from the current available positions
- 3. Complete the exhibitor **application form** noting your preferences online at **www.pesgb.org.uk/africa-2019/**
- 4. Complete **payment** as requested by the PESGB office

Welcome to the Africa E&P Conference 2019!

**4sqm | £1,600 (+VAT)**

Includes shell scheme  
2 x spotlights  
1 x electrical socket  
1 x table  
1 x cupboard  
2 x chairs

One complimentary registration

**8sqm | £2,500 (+VAT)**

Includes shell scheme  
3 x spotlights  
1 x electrical socket  
1 x table  
1 x cupboard  
3 x chairs

Two complimentary registrations

**CONSULTANT'S QUARTER | £700**

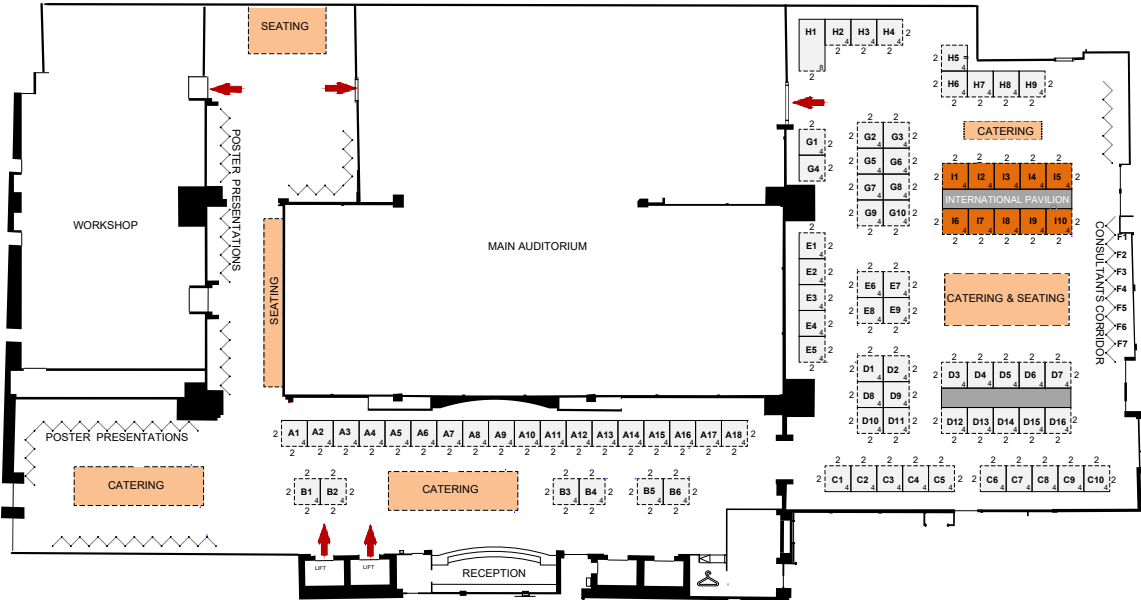
Two display boards  
Facia board  
1 x spotlight

One complimentary registration

**FEATURE AREAS**

**INTERNATIONAL PAVILION**

This designated space provides International representatives with a forum to increase their exposure and promote licensing rounds and/or available acreage to operators, consultants, governments and academia all specifically working or interested in the Africa region.



HGS Bulletin Instructions to Authors

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

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

**Figures, maps, diagrams**, etc., should be digital files using Adobe Illustrator or Adobe Photoshop. Files should be saved and submitted in .ai, .eps, .tif or .jpg format. Send them as separate attachments via email or CD if they are larger than 5 MEGs each, accompanied by figure captions that include the file name of the desired image. DO NOT EMBED them into your text document; they must be sent as separate files from the text. DO NOT USE POWERPOINT, CLIP ART or Internet images (72-DPI resolution) as these do not have adequate resolution for the printed page and cannot be accepted. All digital files must have 300-DPI resolution or greater at the approximate size the figure will be printed.

**Photographs** may be digital or hard copy. Hard copies must be printed on glossy paper with the author's name, photo or figure number and caption on the back. Digital files must be submitted in .tif, .jpg or .eps format with 300-DPI or greater resolution at the printing size and be accompanied by figure captions that are linked by the file name of the image. The images should be submitted as individual email attachments (if less than 5 MB) or on CD or DVD.

HGS Bulletin Advertising

The *Bulletin* is printed digitally using InDesign. Call the HGS office for availability of ad space and for digital guidelines and necessary forms or email [ads@hgs.org](mailto:ads@hgs.org). Advertising is accepted on a space-available basis. **Deadline for submitting material is 6 weeks prior to the first of the month in which the ad appears.**

Random Inside Ad Placement					Specific Page Color Ad Placement					
Black & White Prices Shown – Color add 30% to prices below					Inside Front Cover Full Page	Inside Back Cover Full Page	Page 2 Full Page	Outside Back Cover Half Page	Back of Calendar Full Page	Calendar Quarter Page
No. of Issues	Random Eighth Page	Random Quarter Page	Random Half Page	Random Full Page						
10	\$950	\$1,350	\$2,550	\$4,750	\$8,000	\$7,500	\$7,050	\$6,850	\$6,650	\$3,000
9	\$800	\$1,300	\$2,500	\$4,700						
8	\$750	\$1,250	\$2,250	\$4,300						
7	\$600	\$1,100	\$2,200	\$3,850						
6	\$550	\$950	\$1,800	\$3,500						\$2,000
5	\$500	\$800	\$1,600	\$3,000	\$4,700	\$4,500	\$4,350	\$4,000		
4	\$450	\$650	\$1,300	\$2,500						
3	\$300	\$550	\$950	\$2,000						\$1,000
2	\$250	\$400	\$700	\$1,500						
1	\$150	\$250	\$450	\$1,000	\$1,500	\$1,400	\$1,250	\$1,000	\$1,250	\$850

Professional Directory Section Business Card Ad: 10 Issues – \$160 (\$30 for each additional name on same card)

Website Advertising Opportunities

There are currently 5 opportunities to help spread the word about your business or event and generate traffic to your website or campaign. Please submit all ad materials five (5) days prior to the go-live date for testing.

Placement	Rate	Specifications/Description
HGS Website Home Page Banner Ad	\$800 – Monthly	275 x 875 pixels; home page top banner ad. All Home Page Banner Ads rotate every 10 seconds.
	\$1800 – 3 Months	
	\$2800 – 6 Months	
	\$3600 – 12 Months	
HGS Website Home Page Column Ad	\$700 – Monthly	200 x 400 pixels; home page right column ad
	\$1500 – 3 Months	
	\$2400 – 6 Months	
	\$3600 – 12 Months	
HGS Website Event Page Ad	\$600 – Monthly	200 x 400 pixels; calendar page left column ad. All Event Page Ads rotate every 10 seconds.
	\$1200 – 3 Months	
	\$1600 – 6 Months	
	\$2600 – 12 Months	
Geo-Jobs	\$50 – 14 days	Posting of job opportunities on HGS website. Click the Geo-Jobs tab to get started. Must be filled out completed and the dates set appropriately.
	\$100 – 30 days	
	\$300 – 3 Months	
	\$600 – 6 Months	
	\$1200 – 12 Months	
Vendor Corner	\$250 *4 Pack option with 1 FREE bonus event for \$1000.00 available. Send request to <a href="mailto:vendorcorner@hgs.org">vendorcorner@hgs.org</a> .	Company logo, company website, and company description will be highlighted on HGS Calendar website event. This is an opportunity to display company wares, gain personnel exposure and hand out product information at HGS dinner meetings.
Event/Short Course Calendar Ad	\$100 – Monthly	An event ad posted within the HGS website calendar under the Events tab.
Bundle & Save!	<ul style="list-style-type: none"><li>• 30% off website ads when combined with print ads in all 10 HGS <i>Bulletin</i> issues.</li><li>• 20% off website ads when combined with print ads in 5 HGS <i>Bulletin</i> issues.</li><li>• 10% off website ads when combined with print ads in 3 <i>Bulletin</i> issues.</li></ul>	



# Application to Become a Member of the Houston Geological Society

## Qualifications for Active Membership

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

## Qualifications for Associate Membership (including students)

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

Apply online at [www.hgs.org](http://www.hgs.org) and click on Join HGS

**Annual Dues Expire Each June 30. (Late renewals – \$5 re-instatement fee)**  
**Annual dues are \$30.00; emeritus members pay \$15.00; students are free.**

Mail this application and payment to:

**Houston Geological Society**  
**14811 St. Mary's Lane, Suite 250 • Houston, TX 77079-2916**  
Telephone: 713-463-9476 Fax: 281-679-5504  
Payment method:

☐ Check, ☐ VISA, ☐ MasterCard, ☐ American Express, ☐ Discover  
Card # \_\_\_\_\_

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

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

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Spouse's Name: \_\_\_\_\_

Email: \_\_\_\_\_

Job Title: \_\_\_\_\_

Company: \_\_\_\_\_

Company Address: \_\_\_\_\_

Work Phone: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Circle Preferred Mailing Address: Home Office

Professional Affiliations: \_\_\_\_\_

☐ AAPG member No.: \_\_\_\_\_

Professional Interest:

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

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

Membership Chairman \_\_\_\_\_

HGS Secretary \_\_\_\_\_

School \_\_\_\_\_  
Degree \_\_\_\_\_ Major \_\_\_\_\_ Year \_\_\_\_\_

School \_\_\_\_\_  
Degree \_\_\_\_\_ Major \_\_\_\_\_ Year \_\_\_\_\_

Earth Science Work Experience \_\_\_\_\_

Applicant's Signature \_\_\_\_\_ Date \_\_\_\_\_

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

Name: \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

revised 5/02/17

## Professional Directory

Available for Consulting in México or Other Countries

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Consulting Geologist

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Zach Arasteh  
Business Manager

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 <p><b>HSI HORIZONTAL SOLUTIONS INTL.</b> The Geosteering Experts</p> <p><b>George Gunn</b> Director of Sales</p> <p>15851 North Dallas Pkwy Suite 1250 Addison, TX 75001</p> <p>Office: (972) 416-1626 ext. 305 Cell: (214) 924-0268 Fax: (972) 416-5165 E-Mail: ggunn@horizontalsi.com</p>	 <p><b>SIPES</b> Houston Chapter</p> <p><i>Society of Independent Professional Earth Scientists</i></p> <p>Certification for Oil &amp; Gas Independents Cutting edge technical &amp; industry related presentations Network with Prospect and Production Buyers and Sellers www.sipes-houston.org or 713 651-1639 for info</p>	<p>Where is your Business Card? \$160 per 10 Issues 713-463-9476</p>
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To present your prospect for consideration, please email a summary and/or any associated confidentiality documents to our exploration team:

**geology@millenniumpetrocapital.com**





# HOUSTON

## GEOLOGICAL SOCIETY

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