



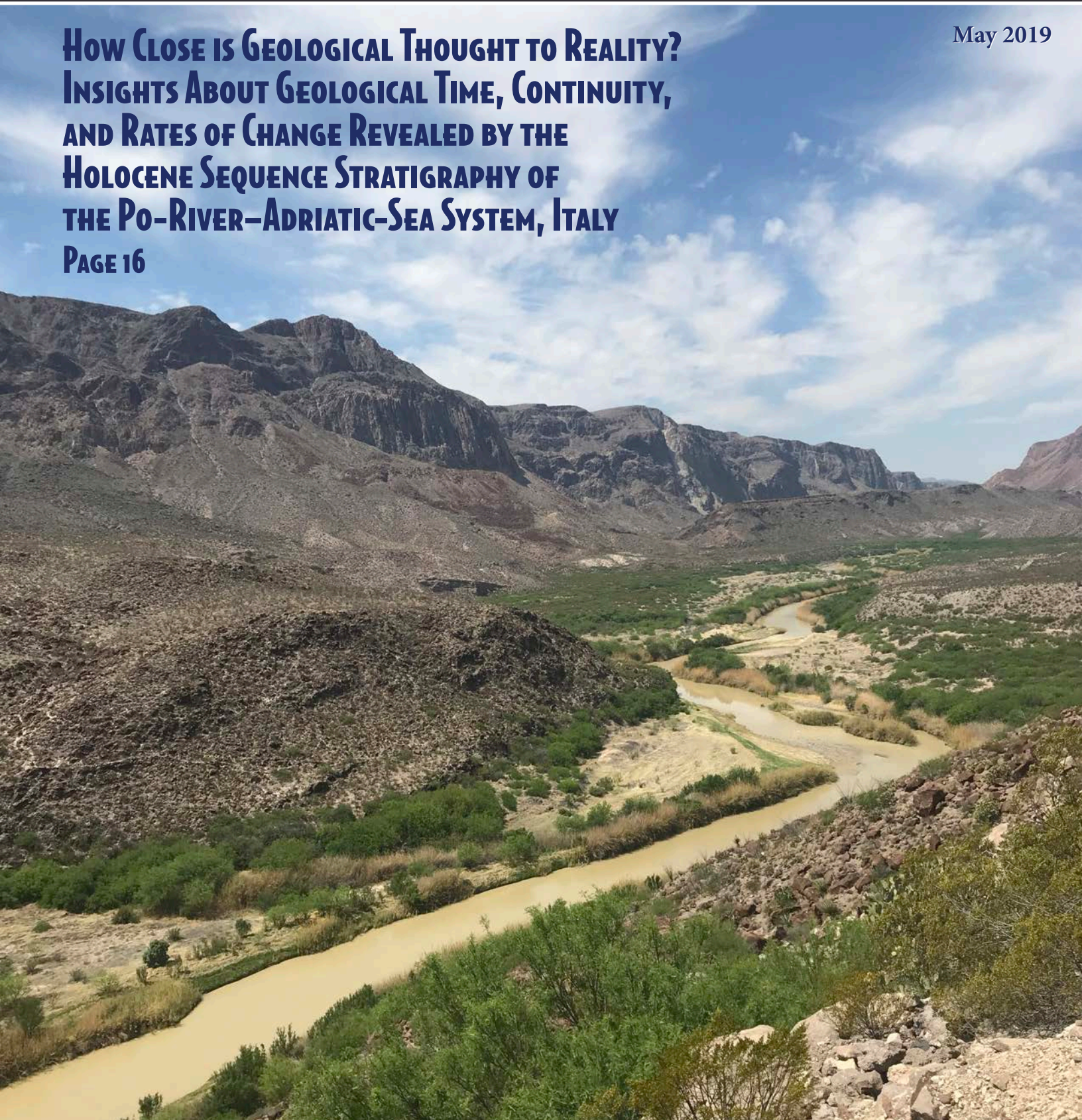
# HGS Bulletin

Volume 61, Number 9

Houston Geological Society

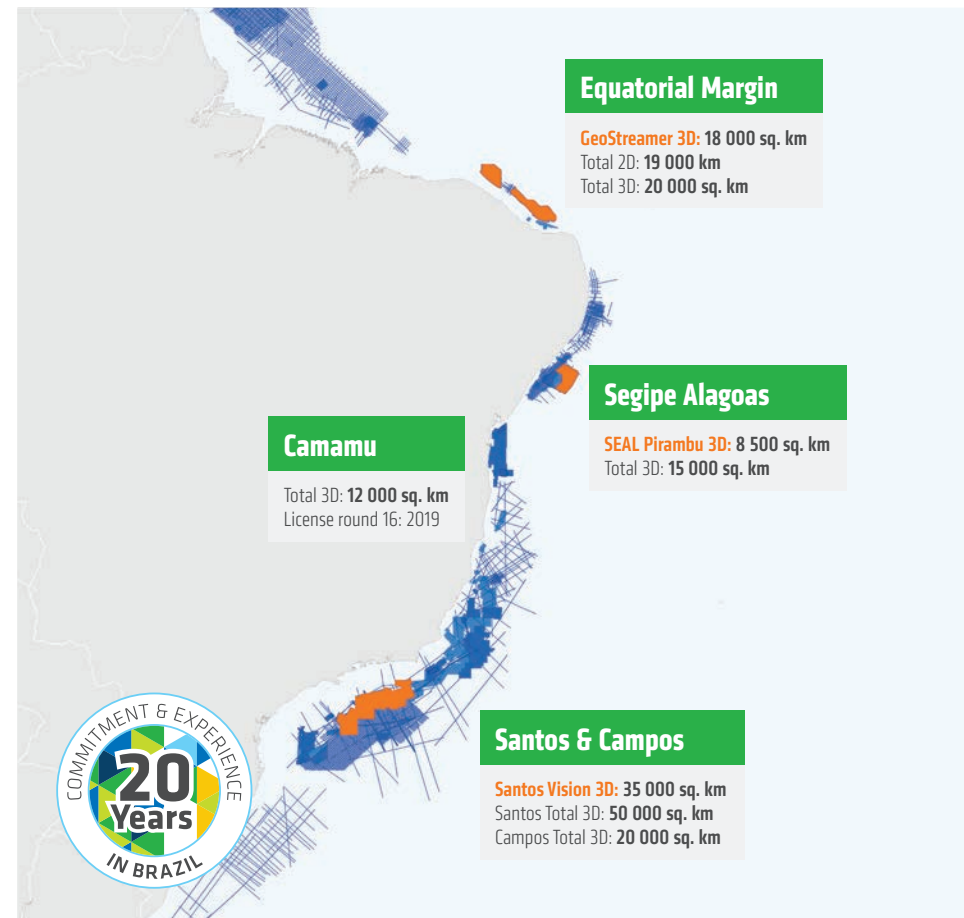
**HOW CLOSE IS GEOLOGICAL THOUGHT TO REALITY?  
INSIGHTS ABOUT GEOLOGICAL TIME, CONTINUITY,  
AND RATES OF CHANGE REVEALED BY THE  
HOLOCENE SEQUENCE STRATIGRAPHY OF  
THE PO-RIVER-ADRIATIC-SEA SYSTEM, ITALY**  
**PAGE 16**

May 2019





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

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**Subscriptions:** Subscription to a digital version of this publication is included in the membership dues (\$30.00 annually). The subscription price for non-members is \$160.00. The printed Bulletin for 10 issues for HGS members is \$150.00 or \$15.00 per issue while supplies last. Periodicals postage paid in Houston, Texas.

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

### Technical Meetings

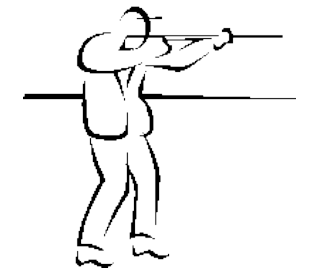
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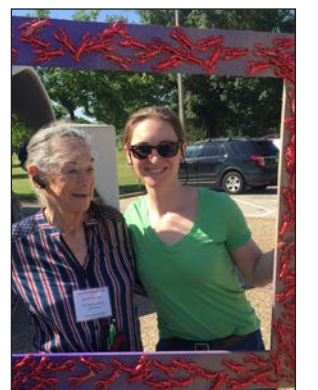
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**About the Cover:** Looking south across Rio Grande River at volcanic sequences in Mexico, during Big Bend State Ranch State Park field trip, March 2019. Photo by Annie Walker.

# Annual Houston Geological Society Awards

It's Awards Season again. The Oscars, Grammys, Golden Globe and more. Well it's also HGS Award Season as well. The HGS President's Night held in June, is where the Houston Geological Society honors those individuals and companies who are recognized for outstanding volunteering or other major contributions to the Society. These Awards range from giving awards to children who spent many hours cleaning gunk off Mastodon bones that were covered with Hurricane Harvey floodwaters to the HGS Gerald Cooley Award, its highest.

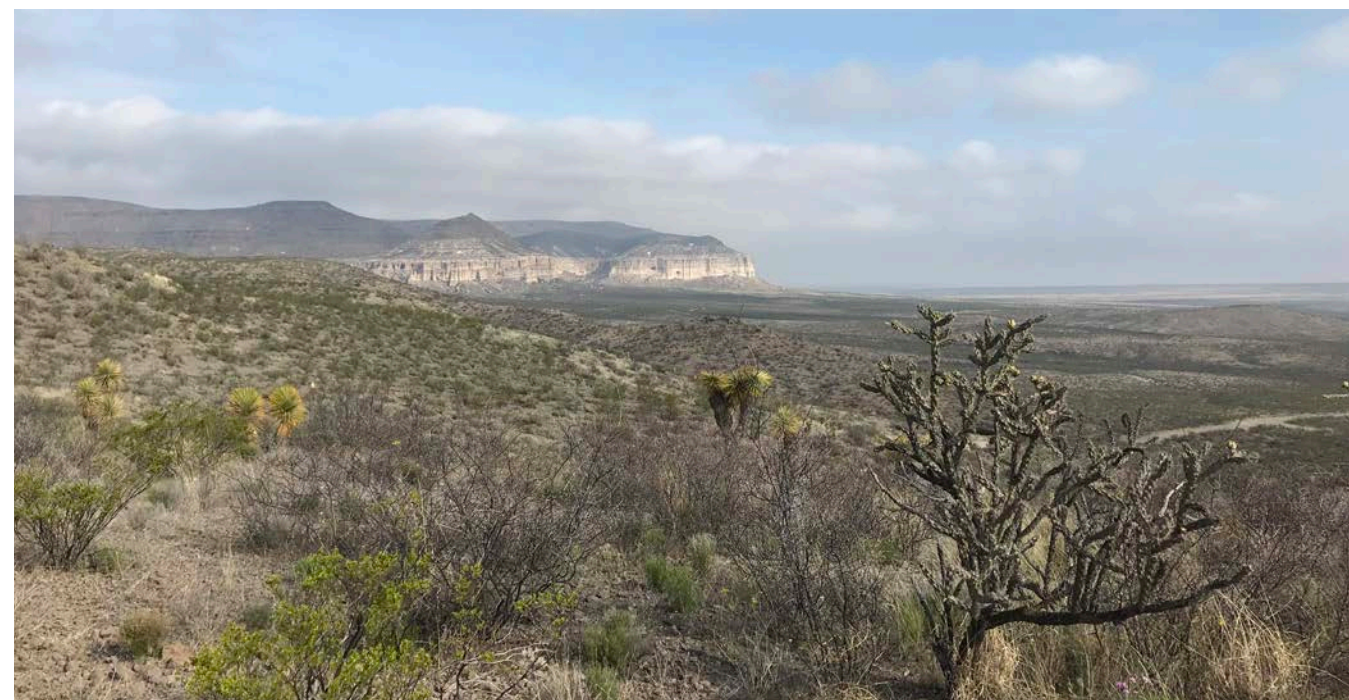
Many awards are presented at President's Night. The most prestigious Award is the **Gerald Cooley Award** given to honor those who have continued to serve the society well above and beyond the call of duty over many years. **Honorary Life Membership** honors members who have distinguished themselves in the science of geology or have contributed outstanding service to the success and welfare of this organization. The **Distinguished Service Award** honors members who have given long-term valuable service to the society. The **President's Award** honors members whose extraordinary efforts or unique contributions in a fiscal year or over a short period of time deserve special recognition. **Chairman's Award** honors members whose extraordinary efforts or unique contributions to their committee deserve special recognition. The **Rising Star Award** honors individuals who are relatively new to the HGS or its activities, and have made significant and promising contributions to the enhancement and success of the society. The HGS also recognizes companies with the **Corporate Star Award**, honoring those companies who have made significant

contributions to the Houston Geological Society. The **HGS Teacher of the Year Award** has been established to honor individuals whose extraordinary efforts and unique contributions are in earth science education.

Awards at President's Night vary from plaques, salt lamps, *Orthoceras* bowls, dinosaur heads, dinosaur 3D dioramas, rocks, minerals, and fossils. Some of the most notable Rock Awards given out include the Stibnite mineral given to Gerald Cooley Award honoree Deborah Sacrey. This mineral is an antimony sulfide mineral (Sb<sub>2</sub>S<sub>3</sub>). Our ancestors would crush this mineral and mix it with oil to make the earliest known make-up. Cleopatra is said to have used this to make the highlighted lines around her eyes. Charles Sternbach received his Gerald Cooley Award which was a Proterozoic Stromatolite fossil from the Bitter Springs Formation, Alice Springs, Australia. This is one of the oldest fossils found. The largest/heaviest Rock Award went to President Ken Nemeth who received a slice of a petrified wood tree trunk from Indonesia. It almost crushed the podium.

This year's HGS Awardees will be recognized in the June HGS *Bulletin*. The HGS Awards Committee looks forward receiving instructions from the HGS Board to make an Award for you. Please send nominations and any supporting materials to mike.deming.HGS@gmail.com.

Rock on my friends. ■



Big Bend State Ranch State Park field trip, March 2019. Photo by Annie Walker.

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# 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. ■



Cheryl Desforges  
President@HGS.org

## Passion and Persistence

Very early in my career, as the oil and gas industry was just emerging from a depression in the late 1960s and early 1970s, an older coworker gave me some advice: save your money, because the industry is cyclical. That was very good advice. But there was more that he didn't mention. To survive in the industry through the downturns, you must have passion and persistence. Without those two qualities, you're better off finding another career. Having lived through a couple of major downturns in the oil and gas industry, I've had the opportunity to experience and observe the human qualities of passion and persistence related to career choices.

When I mentioned that I was planning to attend a SIPES luncheon where the speaker would be talking about the Hackberry, a coworker quipped that he was once advised if your boss ever assigns you the Hackberry to work, it's time to look for another job. It certainly has the reputation of being very difficult to interpret, resulting in an inordinate number of dry holes. But Michael Puzio questioned the depositional and structural models of the time and developed a different model for his prospects. Finding someone to invest in his idea was another story. He said over a four-year period he showed his "deal" to 100 prospective buyers and got 100 rejections. When he was unemployed for 2 years he painted, worked as a photographer, and waited tables to help support his family. But he believed in his idea; he was passionate and persistent. Finally, while at Mayne & Mertz they decided to take a chance and test his idea. His new interpretation of the Hackberry resulted in phenomenal success. As they say, the rest is history. They drilled about 120 wells with a 70% success rate. The cumulative production has been 221 BCF of gas and 23.7 million barrels of oil.

Another tale of passion and persistence is still playing out as I write this column. Around 20 years ago, when I worked for Randall & Dewey in the acquisition and divestiture (A&D) industry, the Majors were divesting all their Gulf of Mexico Shelf properties. After all, the general thought was that everything had already been discovered, and deepwater plays were the new

*To survive in the industry through the downturns, you must have passion and persistence.*

exploration trend for new major reserves. But my sales pitch was always that there must be deeper objectives yet to be discovered on the shelf. Most gravity studies predicted there was at least 30,000 feet of sedimentary fill under the Gulf of Mexico Shelf. But the deepest drilling was around 15,000-20,000 feet depth, coinciding with the depth the seismic imaging, because of the offset. Only about 25 wildcats had penetrated subsalt stratigraphic section in the three million-acre Louisiana outer shelf (OCS) area, causing many to think that was the end of the clastic sedimentary basin fill. Compounding the issue, the seismic technology of the time couldn't image below the salt. But our understanding of salt tectonics and seismic technology has dramatically improved since back then. In 2013, John Seitz, Ron Bain, Clint Moore and their team at Gulf Slope recognized that the subsalt plays being exploited in deepwater underlie allocthonous salt on the shelf, too. In fact, during their days at Anadarko in the early 1990s, they and the Anadarko team helped pioneer the subsalt shelf play with field discoveries at Mahogany, Hickory and Tanzanite Fields, which have now produced over 100 mmboe to date. Since the 350 to 450 feet water depth of the outer shelf was much shallower than deepwater, the reserves could be exploited for much less investment. By applying advanced seismic Reverse Time Migration depth imaging technology and new deepwater depositional geoscience modeling, Gulf Slope's Team generated 8 drill-ready subsalt prospects. They attracted investors and launched their publicly traded company (OTC:GSPE) to explore for subsalt reserves on the shelf in March 2013. Their first subsalt prospect, Tau, is still being drilled, but it has reportedly drilled through 7000 feet of salt and encountered pressure and hydrocarbons at the base of salt. More than six years in the making, Tau can prove the concept and make the company, but it will likely launch the industry into renewed interest in the Gulf of Mexico shelf. Persistence pays off again.

There are many examples of the importance of the power of passion and persistence in driving geoscience and the oil and gas industry. They are key to making our industry fun. ■

# Surface Faults in West Houston Field Trip

## May 4, 2019



Jim Tucker  
editor.hgs@hgs.org

## Muscle Replaced Guile

Problem solving approaches evolve and solutions usually get simpler and easier. For years, geologists saw petroleum shows on mudlogs and samples from low permeability intervals. But these zones would not flow in the way common saturated porous and permeable would easily produce, so those were the easier objectives. But, looking at the in-place potential reserves was always floating out there in imaginations, and intrigued those with the time and background to think about them.

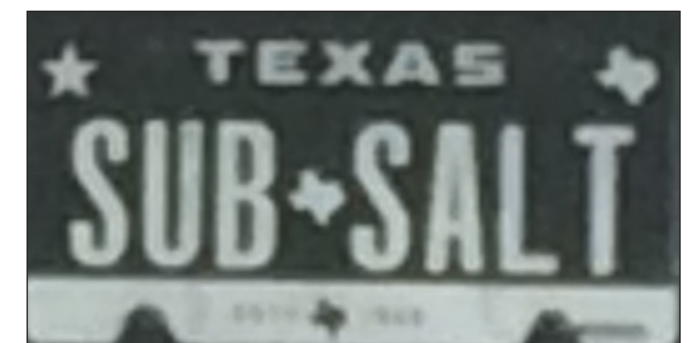
Modern computer processing has speeded up many tasks, allowing us to do things that were always proposed to be improvements, such as prestack reflection surface seismic processing and neural network analysis of often-disparate and irregular data types. Over my career, the amazing reduction of electronic data storage costs has flipped the approaches to information storage. Well log data files from several types of downhole surveys could be put on a single eight inch spool of tape in the early 1980s, while the dipmeter log surveys took a tape reel over a foot across. Since the disk storage space back at the office was precious, the underlying microlog surveys for the diplogs were often deleted, once the dips (“tadpoles”) were calculated, and the original tapes used as scratch tapes. Modern software techniques can now produce amazingly improved dip results from these field log data, but many tapes are long gone. So the opportunity to use more muscle here is gone.

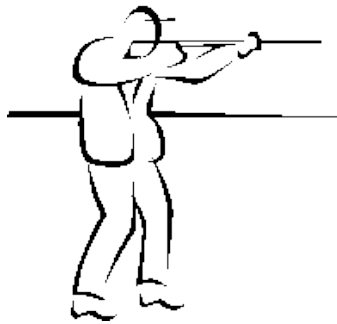
The past two decades have shown that the combined technologies of hydraulic fracturing and horizontal drilling can be used to recover in-place petroleum from low-permeability rocks. As time has progressed, we have not just used a bigger hammer, but have used more hammers on our subsurface nails in our efforts to create more extensive and homogeneous damage halos around boreholes to allow the tight country rock to drain into the boreholes. However, the reported recoveries of in-place reserves are generally less than five percent. And we know from the 1967 Gasbuggy experiment that a bigger hammer does not always give the desired results.

It’s time for us to think harder on this recovery problem, now that muscle has been applied about as far as possible. Get to it.

So, what is this page’s title about? I heard the phrase on an afternoon’s play of the *Engines of Our Ingenuity* show on KUHF. The topic of the day was nomograms, which used to be widely used for log analysis calculations to visually determine values from often-nonlinear relationships or observed values. The author, John Lienhard, was reflecting on how we now have machines to do involved calculations that we used to work around by graphical techniques. Now you may go look for your “tornado charts”. ■

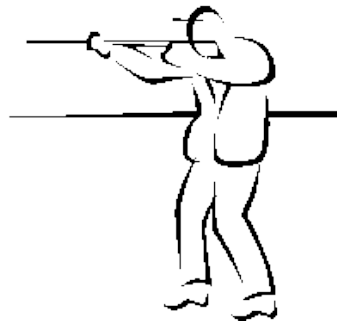
*Volunteer for something this month.*





# 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>**

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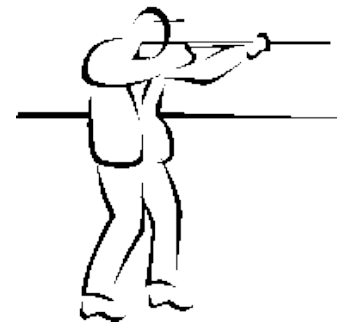
Email: \_\_\_\_\_ Phone: \_\_\_\_\_

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: \$ \_\_\_\_\_

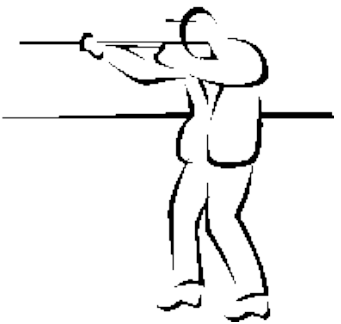
If you wish to register as a squad, please return forms for all squad members together.

.....  
**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  
6702 McHard Road, Missouri City



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### 3D seismic survey design New tools for new challenges

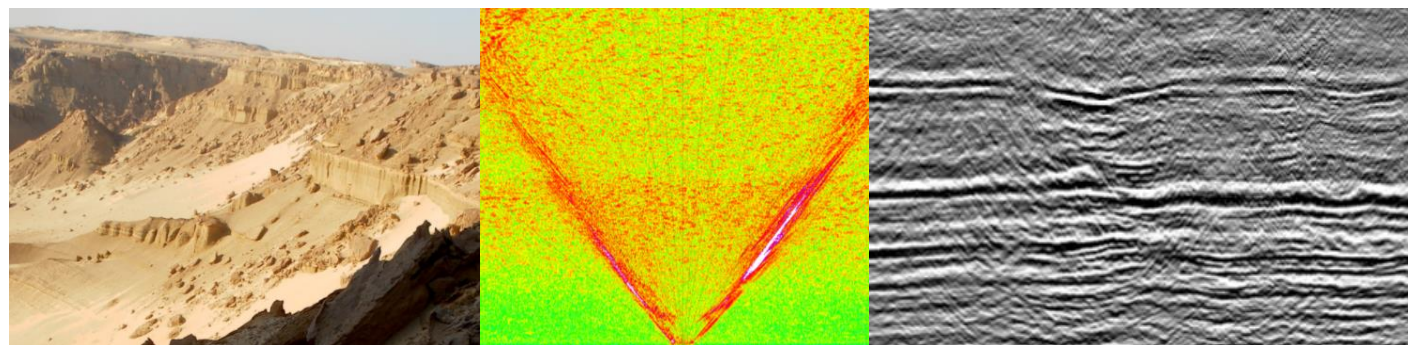


As geophysicists, we are faced with ever increasing challenges in conventional and unconventional exploration and development. This symposium will explore the challenges and opportunities represented by new technologies such as high density, wide azimuth, long offset, broadband acquisition using compressive sensing, nodes and full waveform inversion.

Wed. 29<sup>th</sup> May 2019  
9:00 am to 1:00 pm (CST)

Registration	
General public	\$125
GSH/SEG Members	\$ 90
Students	\$ 25

Who should attend ? : Geoscientists, technical managers and field operation specialists seeking to remain current with the latest technology developments. The program has a land bias, but is very relevant to wide azimuth marine applications.

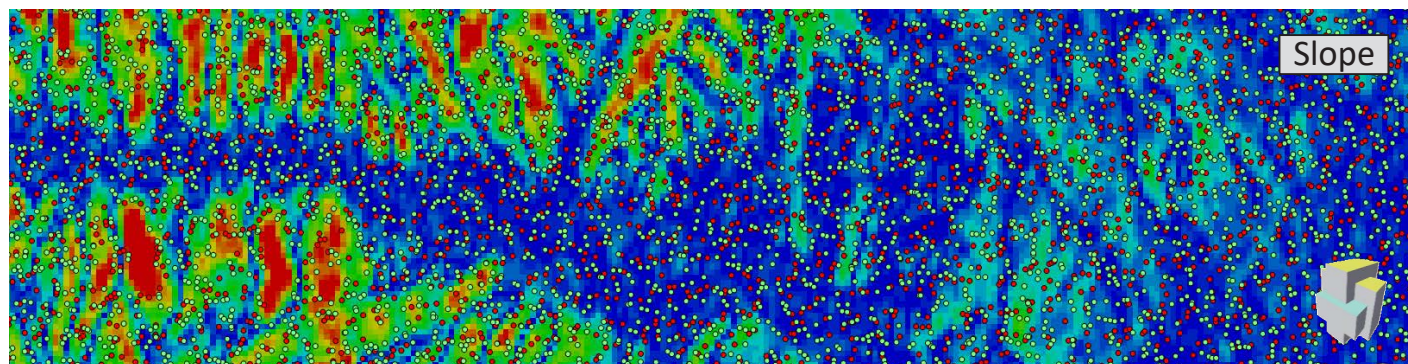


Speakers include global thought leaders such as Ted Manning (BP), Nick Moldoveanu (Schlumberger), Chengbo Li (ConocoPhillips), Ali Said (CGG), Dennis Yanchak (Apache) and John Archer (SAE). Additional speakers pending confirmation.

This informal and interactive event will be co-chaired by Dave Monk (Past President of SEG & Director of Geophysics at Apache) and Malcolm Lansley (Consulting Geophysicist)

Visit [gshtx.org](http://gshtx.org), Events Tab to register and see full presenter information (when available)

#### Event sponsors



Wednesday, May 8, 2019

Black Lab Pub, Churchill Room • 4100 Montrose Blvd.  
Social Hour 5:30–6:30 p.m.  
Dinner 6:30–7:30 p.m.

Cost: \$30 Preregistered members; \$35 non-members/walk-ups

To guarantee a seat, pre-register on the HGS website & pre-pay by credit card. Pre-registration without payment will not be accepted. Walk-ups may pay at the door if extra seats are available.

Steven Follmer  
University of Houston Clear Lake  
Master's Student

If you are an Active or Associate Member who is unemployed and would like to attend this meeting, please call the HGS office for a discounted registration cost. We are also seeking members to volunteer at the registration desk for this and other events.


### Flood Risk Analysis in Brays Bayou

Houston is a city that is known for flooding. The city has been subject to major flood events especially in recent years, e.g. tropical storm Alison in 2001, Memorial Day floods in 2015 and hurricane Harvey in 2017. However, over the past 60 years Houston has gone from a city of about a 900,000 people in 1960, to over 2.3 million today. This significant increase in population has greatly changed the urban landscape of Houston as the city has been and continue to sprawl outwards to meet development demands. This research focuses on the Brays Bayou watershed that is currently home to over 700,000 people and expected to be under pressures for housing more people in future years. The main objective of this study is to conduct a flood risk analysis of the Brays Bayou watershed under current and future conditions (i.e. the 2040 projections of the region). The study will use the following software: HEC-HMS, HEC-RAS, and ArcGIS. HEC-HMS will be used to analyze the hydrology of the watershed under the latest changes in the Atlas 14, Volume 11 for the State of Texas. HEC-RAS will be used to conduct flood analyses to identify critical areas within Brays Bayou. This study will evaluate possible management scenarios of what could possibly help to attenuate the flooding in high risk areas. The results of this study will include flood hydrographs from HEC-HMS, flood plain maps from HEC-RAS, and hydrologic maps from ArcMap. The overall goal will be to analyze where the bayou is at today and what could be done to mitigate future flood risk. ■

#### Biographical Sketch


STEVEN FOLLMER is an Environmental Science master's degree candidate at the University of Houston-Clear Lake with a specialization in Environmental Geology. He also holds the license of Geoscientist in Training. His career began in the Marine Corps in 2005 where he held a number of positions while stationed in Afghanistan, Japan and the U.S. Given his years of military experience, Steven was asked to serve his final assignment as a recruiter for the northeastern region of Texas from 2012-2014. Upon completion of his military service, he pursued a Bachelor of Science degree in Geology with a minor in Environmental Science at Stephen F. Austin State University





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President/Geologist

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**Monday, May 13, 2019**

Live Oak Room • Norris Conference Center • 816 Town and Country Blvd #210  
Social Hour 5:30–6:30 p.m.  
Dinner 6:30–7:30 p.m.

**Cost: \$40 Preregistered members; \$45 non-members/walk-ups**

**To guarantee a seat, pre-register on the HGS website & pre-pay by credit card.**

**Pre-registration without payment will not be accepted.**

**Walk-ups may pay at the door if extra seats are available.**

*If you are an Active or Associate Member who is unemployed and would like to attend this meeting, please call the HGS office for a discounted registration cost. We are also seeking members to volunteer at the registration desk for this and other events.*

**HGS General Dinner Meeting**

*Raoul LeBlanc  
IHS Markit*

**Oil and Gas Records in 2018**

2018 set a new record, both in oil and in gas, for growth in production from shales and tight rocks. At the same time, the oldest shale plays are in decline and important questions about the physical and financial sustainability of the resource remain. This session will explore the factors driving shale output and the physical and corporate constraints that work to limit its scale. We will review the following areas in an interactive way exploring the data in real time:

- Spatial patterns of quality/sweet spot identification
- Development over time and migration of activity
- Influence of oil/gas split on well productivity and GOR ratios over time
- Evolution of well design (lateral length, completion intensity) and correlation to productivity
- Competitive landscape – majors, independents and privates ■

**Biographical Sketch**

**RAOUL LEBLANC** is a Vice President on the IHS Financials team evaluating the dynamic North American onshore arena.



As a veteran of the industry and a former partner at PFC Energy, Raoul brings 20 years of experience in strategic and industry analysis. Familiar with a wide range of corporate and market issues, he has extensive experience on issues related to North American independents, upstream assets, and natural gas markets. From 1997-2006, Raoul worked at Anadarko Petroleum. During his tenure there, he directed the company's Strategic Planning effort, which assumed responsibility for strategy formulation, portfolio optimization, scenario planning, and competitor analysis. He also worked on the company's Mergers and Acquisitions team, evaluating and modeling financial results, operational performance and E&P corporate valuation.

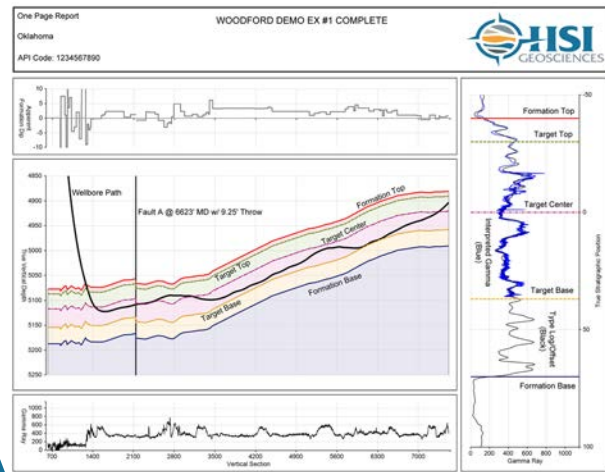
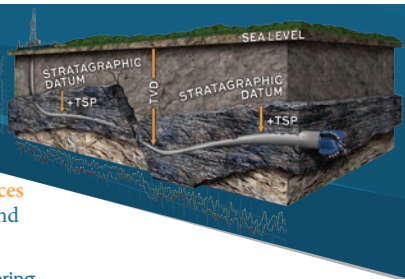
Prior to Anadarko, Raoul was a senior oil analyst at Energy Security Analysis, a market analysis consulting company in Washington, DC where he held responsibility for Asian markets and worldwide distillate fuels.

Raoul has worked and studied in Japan, the Western Pacific, and Britain. He holds an undergraduate degree from Georgetown University and an M.A. in Energy and International Relations from the School of Advanced International Studies, The Johns Hopkins University.





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## HGS Northsiders Luncheon Meeting

Tuesday, May 14, 2019

Southwestern Energy Conference Center, 10000 Energy Drive, Spring, TX 77389  
Social 11:15 a.m., Luncheon 11:30 a.m.

Cost: \$35 Preregistered members; \$40 non-members/walk-ups

To guarantee a seat, pre-register on the HGS website & pre-pay by credit card.

Pre-registration without payment will not be accepted.

Walk-ups may pay at the door if extra seats are available.

If you are an Active or Associate Member who is unemployed and would like to attend this meeting, please call the HGS office for a discounted registration cost. We are also seeking members to volunteer at the registration desk for this and other events.

Dr. Jacob Covault

Xavier Janson, Zoltan Sylvester, Dallas Dunlap,

David Mohrig

In collaboration w/the BEG TORA group

# Sandy Building Blocks of Basin-Floor Submarine-Fan Reservoirs: Low-Sinuosity Deepwater Channel Deposits, Permian Basin

Submarine fans are deepwater depositional systems that received terrigenous sediment from canyons and channels that extend across continental margins. Sandy channelized architectural elements of submarine fans are important deepwater reservoirs. Outcrops of the Permian (Guadalupian) Brushy Canyon Formation were used to develop one of the first predictive models of deep water slope to basin-floor-fan reservoir architecture, which informed exploration and development of the West African continental margin, among other petroliferous basins. However, how do outcrop-based interpretations of the Brushy Canyon Formation compare to the subsurface? Where is the Brushy Canyon Formation useful as a deepwater reservoir analog? More broadly, do sandy channel deposits maintain the same facies, geometry, and stacking from slope to basin floor?

subsurface character of sandy channelized architectural elements of the Brushy Canyon Formation in the northern Delaware basin is similar to outcrop-based interpretations; the Brushy Canyon Formation is potentially a useful analog to constrain the facies, geometry, and stacking patterns of basin-floor submarine fans, such as other prospective units in the Permian basin. However, these channels are poor analogs for many slope reservoirs that consist of longer-lived channels with higher sinuosity and more complicated stratigraphic architecture. ■

### Biographical Sketch

**DR. JACOB COVAULT** is a Research Scientist and leader of the Quantitative Clastics Laboratory (QCL). His expertise is the sedimentology and stratigraphy of deep-water depositional systems, and source-to-sink sediment dispersal. Jacob aims to address challenges in the exploration and development of natural resources, namely reservoir presence and quality prediction in frontier basins, and reservoir connectivity and heterogeneity. Prior to his present position at the QCL, Jacob was a senior research scientist at Chevron Energy Technology Company, and served the Department of the Interior at the U.S. Geological Survey. He received PhD and BS degrees in Geological and Environmental Sciences at Stanford University, where he played football 1999-2003. Jacob has published peer-reviewed research papers and scientific conference abstracts pertaining to petroleum geology, reservoir characterization, sedimentology, stratigraphy, basin analysis, Earth surface processes, and marine geology. Jacob was the recipient of the 2017 SEPM Wilson Award in recognition of "Excellence in Sedimentary Geology by a Young Scientist."



Save the Date!!!

HGS Guest Night  
Saturday June 8, 2019

Houston Museum of  
Natural Science

Adults \$60  
Children \$30

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Two free Planetarium Shows  
Buffet Dinner  
Guest Speaker

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Image - dinopit.com

Wednesday, May 29, 2019

Petroleum Club of Houston • 1201 Louisiana (Total Building)  
Social Hour 11:15 a.m.  
Luncheon 11:45 a.m.

Cost: \$35 Preregistered members; \$40 non-members/walk-ups

To guarantee a seat, pre-register on the HGS website & pre-pay by credit card.

Pre-registration without payment will not be accepted.

Walk-ups may pay at the door if extra seats are available.

If you are an Active or Associate Member who is unemployed and would like to attend this meeting, please call the HGS office for a discounted registration cost. We are also seeking members to volunteer at the registration desk for this and other events.

## HGS General Luncheon Meeting

**Kevin M. Bohacs**

ExxonMobil Upstream Research Company  
(retired), now at KMBohacs GEOconsulting LLC  
Alessandro Amorosi, Luigi Bruno, Bruno Campo  
University of Bologna, Italy

**Tina M. Drexler**

ExxonMobil Exploration Company

# How Close is Geological Thought to Reality? Insights About Geological Time, Continuity, and Rates of Change Revealed by the Holocene Sequence Stratigraphy of the Po-River–Adriatic-Sea System, Italy

Two fundamental questions confront a geologist when faced with a stratigraphic succession: How much time is represented by the preserved strata? and How continuous was the sediment accumulation? The vastness of geological time is largely beyond human observation and comprehension. Time spans of “just” tens to hundreds of thousands of years may become unfamiliar when moving from modern, observable, and quantifiable depositional processes to the almost incomprehensible series of moments recorded in the rock record.

We enhanced our experiential concept of time based on the chronologically well-constrained Holocene succession of the Po-Adriatic system, Italy. The parasequences of the highstand systems tract are tens of meters thick and locally constitute up to 95% of the total volume of Holocene deposits. The preserved strata, however, represent only a relatively short time interval (a few hundreds of years) and record < 10% of the total time span involved. Early Holocene (9.2 to 7.7 ky bp) transgressive shorelines retreated at a mean rate of ~10 m/y, following a stepped trajectory at the centennial scale. At the transition from aggradation to progradation (ca. 7.0 ky bp), a laterally extensive prograding deltaic body, up to 30 m thick and > 20 km long down dip, accumulated in less than 2,000 years. Both phases involved rates of change up to three orders of magnitude larger than those observed in the last two centuries.

Parasequences of similar size in the rock record are commonly interpreted to have developed at slower rates over longer temporal scales, based on coarser-resolution chronometry and the assumption that stratal thickness equals time duration. However, severe misconceptions can be generated by using the common approach that subdivides an arbitrary thickness of strata into equal parts and durations. In the Holocene succession of the Po Plain, very short periods of very rapid sedimentation alternated with long phases of non-deposition, erosion, or stratigraphic condensation, recorded at bounding surfaces of individual parasequences. The bounding surfaces represent at least 90% of the entire time span of the Holocene and are associated with distinct rock properties.

The highly fragmented nature of the sedimentary record impacts the interpretation of hierarchical stacking of parasequences, time scales of accumulation of ancient strata, and inherent rates of change of alluvial and deltaic depositional systems. We illustrate these consequences by comparing the Holocene Po-Adriatic stratigraphy to older strata, including the middle Pleistocene of the Enza River region, Italy and the Cretaceous Blackhawk and Mancos formations, Book Cliffs, Utah. All of these observations and considerations reinforce a key foundation of sequence stratigraphy: that surfaces are just as significant as the strata they bound...if not more so. ■

### Biographical Sketch

Kevin Bohacs ScD FGSA FGS FRGS recently retired as Senior Research Scientist from ExxonMobil Upstream Research Company where he led the application of sequence stratigraphy and sedimentology to mudstones from lacustrine to deep-marine environments. He now operates KMBohacs Geoconsulting LLC. Kevin is an Eagle Scout and earned a BSc (Honors) in Geology from University of Connecticut and ScD in Experimental Sedimentology from Massachusetts Institute of Technology.



He has written more than 100 scientific contributions on the stratigraphy and sedimentology of mudstones, hydrocarbon source and reservoir rocks, and continental depositional systems (lakes, fluvial-floodplain systems, paleosols, coals, and paleoichnology). Dr. Bohacs is the co-author and editor of books on sequence stratigraphy, lacustrine hydrocarbon reservoirs, and field safety. (He is writing a second edition of the field safety book.) He has received many best paper citations and awards (including AAPG Honorary Member and AAPG's Berg award for outstanding research) and served as distinguished lecturer for several societies nationally and internationally. He currently serves as Secretary-Treasurer for SEPM.

## Early Career Quiz



This is a recollection of useful tools no longer in common use. It is encouraged to ask a colleague to talk about this.

The winner of a HGS meeting registration is the first respondent to editor.hgs@hgs.org that:

1. Correctly names the items in the picture,
2. Explains their use, and
3. Has worked the fewest number of years and months as a professional geoscientist.

Send your answers to: editor.hgs@hgs.org. Have fun.

# May 2019

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday



# GEOEVENTS



	<p><b>Reservations:</b> The HGS prefers that you make your reservations on-line through the HGS website at <a href="http://www.hgs.org">www.hgs.org</a>. If you have no Internet access, you can e-mail <a href="mailto:office@hgs.org">office@hgs.org</a>, or call the office at 713-463-9476. <b>Reservations for HGS meetings must be made or cancelled by the date shown on the HGS Website calendar, normally that is 24 hours before hand or on the last business day before the event.</b> If you make your reservation on the Website or by email, an email confirmation will be sent to you. If you do not receive a confirmation, check with the <a href="mailto:Webmaster@hgs.org">Webmaster@hgs.org</a>. Once the meals are ordered and name tags and lists are prepared, no more reservations can be added even if they are sent. <b>No-shows will be billed.</b></p>		1	2	3 <b>Don't wait, make your reservations online at <a href="http://hgs.org">hgs.org</a></b>	4
5	6	7 <b>HGS Board Meeting</b> 6 p.m.	8 <b>HGS Environmental &amp; Engineering Dinner Meeting</b> "Steven Follmer, Page 11"	9	10	11
12	13 <b>HGS General Dinner Meeting</b> "Oil and Gas Records in 2018," Raoul LeBlanc Page 13	14 <b>HGS Northsiders Luncheon Meeting</b> "Sandy Building Blocks of Basin-Floor Submarine-Fan Reservoirs: Low-Sinuosity Deepwater Channel Deposits, Permian Basin," Dr. Jacob Covault, Page 15	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29 <b>HGS General Luncheon Meeting</b> "How Close is Geological Thought to Reality? Insights About Geological Time, Continuity, and Rates of Change Revealed by the Holocene Sequence Stratigraphy of the Po-River-Adriatic-Sea System, Italy" Kevin M. Bohacs, Page 16	30	31	<p><b>Members Pre-registered Prices:</b> Dinner Meetings members..... \$40 Emeritus/Honorary members..... \$40 Student members ..... \$10 Nonmembers &amp; walk-ups ..... \$45 Except - Env. &amp; Eng. .... \$30 Nonmembers &amp; walk-ups ..... \$35 Emeritus/Honorary members..... \$15</p>

**June 8, 2019**  
HGS Skeet Shoot  
Greater Houston Gun Club,  
Missouri City, Page 8

**June 8, 2019**  
HGS Guest Night  
Houston Museum of Natural Science,  
Page 4

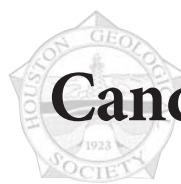
**July 22 - 24, 2019**  
Unconventional Resources  
Technology Conference  
(URTeC 2019)  
Denver, Colorado

**June 7-15, 2020**  
HGS Grand Canyon Field Trip  
Page 45

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# Candidates for the 2019–2020 Executive Board

## Houston Geological Society Officer Election

### The candidates put forth by the Nominations Committee are:

**President - Elect:** Sarah Gephart Stanley, James W. Tucker

**Vice President:** Bryan Guzman, Scott Sechrist

**Secretary:** J.Schulenberg, Tami Shannon

**Treasurer-elect:** Angela Hammond, Thomas Reed

**Editor-elect:** Ceri Davies

**Directors (2 positions):**

Wayne K. Camp, Bob Fryklund, Constantin Platon, Ryan E. Yarrington

### HGS Election Voting Instructions

Members will be able to vote in one of two ways:

1. Return the paper ballot that will be delivered in the mail, OR
2. Vote online following instructions that will be delivered by e-mail.

**PLEASE VOTE** – Upon receiving the paper ballot or the e-mailed instructions!

**The voting period opens April 10, 2019 and continues to May 10, 2019.**

### President-elect (two candidates)



#### Sarah Gephart Stanley

##### Education

Master of Science (MS), Geology  
Ball State University, Muncie, IN  
Master of Arts in Education (MA),  
Secondary Education, Biology, and  
General Science, Ball State University,  
Muncie, IN

Bachelor of Science (BS), Education, Biology and General Science major, Earth Science minor, Ball State University, Muncie, IN

##### Professional Experience

Geophysical Insights, Houston, TX

Senior Geoscientist and Lead Trainer, Since October, 2017 is has been my pleasure to contribute to the efforts of Geophysical Insights in the areas of curriculum development, attribute analysis, interpretation, and client support. In these capacities I have introduced fellow geoscientists to new methodologies in geophysical attribute analyses.

IHS Markit, Houston, TX

Senior Principal, Governance and Common Codes (2016 – 2017)  
Selected by upper management to create team dedicated to standardizing IHS Energy input codes, sanitizing data inputs, quality control, data governance, and merging Canadian and US data into single database.

Director, US Operations Training and Certification for IHS Energy Technical Division (2011 – 2017)

Created and managed internal training and certification program that covered 150+ IHS applications for IHS Energy technical staff.  
Director of Training, Seismic Micro Technology, Inc. (acquired by IHS MARKIT) (2002 – 2011)

*Sarah Gephart Stanley continued on page 26*



#### James W. Tucker

##### Education

Rice University, BA (Geology)  
Texas A&M University, MS (Geology)

##### Professional Experience

Occam Resources (2012-present)  
Consultant – Reservoir architecture, structural geology

ARAMCO (2002-2012)

Geologist-Eastern Province exploration, upstream geological research, weekly seminar coordinator, shallow drilling research project

Computational Geology (2000-2002)

Chief Geologist-Dipmeter and structural analysis, software support and special client projects

CGG Americas (1997-1999)

Integrated Studies Manager, General Manager Reservoir Services  
Supervise reservoir study projects in Venezuela and Mexico, global interpretation client projects, software and services sales

Consultant (1996)

North African interpretation projects

AtlanticRichfieldCompany (1978-1995)

Geologist – Various exploration and development projects and interpretation in the US midcontinent and Gulf of Mexico, Celtic

*James W. Tucker continued on page 27*



# Candidates for the 2019–2020 Executive Board *(continued)*

## Vice President (two candidates)



#### Bryan Guzman

##### Education

2008 – BS Geology University of Texas at San Antonio  
2018 – MS Analytics Texas A&M University

##### Professional Experience

- 2007 – 2008 Geo-Tech Balcones Energy Library
- 2008 – 2011 Geologist – Ingrain Inc.
- 2011 – 2013 Geoscientist – Ingrain Inc.
- 2014 – 2015 Product Champion – Drill Cutting Technologies – Ingrain Inc.
- 2015 – 2017 Senior Technical Sales Advisor – Ingrain a Halliburton Service.
- 2017 – 2018 Senior Technical Sales Advisor – Halliburton
- 2018 – Present Senior Account Manager – TGS

##### Professional Affiliations

HGS, AAPG, SPE, SPWLA

##### Professional Activities

- 2011 – 2017 HGS Chairman Exhibits Committee 2013 – 2014  
HGS Secretary
- 2015 – 2016 HGS Treasurer Elect
- 2016 – 2017 HGS Treasurer
- 2017 – Present HGS Advertising Committee Chairman
- 2018 – 2019 GCAGS Treasurer (Houston 2019 Conference)

##### Statement

Bryan began his career as a geologist for Ingrain Inc in 2008 where he was an integral part of the company's validation period that lead to the commercial launch of their product line and subsequent acquisition to Halliburton. Currently, he works at TGS in the capacity of sales & business development. Over his career he has held positions in operations, research & development, and sales & marketing.

Outside of work, Bryan enjoys personal studies in theology, outdoors activities like hiking or camping, and playing video games. Most of all he enjoys spending time with his wife and two young children.

Ever since I joined the HGS, I have enjoyed the benefits of education, networking, and friendship. Currently, I have been working on ways to grow the advertising for the *Bulletin*,

*Bryan Guzman continued on page 28*



#### Scott Sechrist

##### Education

Houston Community College, Houston, TX  
Post Baccalaureate Courses 1985-86,  
for University of Houston/MS Geology  
program.  
S. F. Austin State University, Nacogdoches,  
TX. Bachelor of Arts Degree 1975- 1977

Electronic Communication R-T-F/Marketing  
Southwest TX State University, San Marcos, TX. Bachelor of Arts  
Degree 1972-1974 Geography/Remote Sensing  
Trinity University, San Antonio, TX. Baccalaureate Courses, 1970-  
1972 Geology/Geography

##### Professional Experience

- 2015-present Acoustic Geoscience Consulting – Multiple  
Clients in the Gulf Coast and Permian Basin
- 2014-2015 Grand Gulf Energy Geophysical Consultant
- 2012-2014 Subsurface Consultants / Noble Energy  
Deepwater Geophysical Consultant
- 2006-2011 Subsurface Consultants / Knowledge Reservoir  
Multiple Clients – Domestic and International
- 2002-2005 Calpine Natural Gas – Senior Geophysicist
- 2002-2002 JM Huber Geophysical Consultant
- 1997-2001 Panaco, Inc. Chief Geophysicist
- 1985-1996 Acoustic Exploration, Inc
- 1980-1984 Seiscom Delta United, Petty-Ray Geophysical
- 1978-1979 Bendix Field Engineering/DOE NURE Program

##### Professional Affiliations

American Association of Petroleum Geologists – DPA C.P.  
Geologist #6065; C.P. Geophysicist #90  
Society of Exploration Geophysicists – SEG/OTC Oral & Poster  
Session Judge  
Society of Independent Professional Earth Scientists – Continuing  
Education Committee, Houston  
Houston Geological Society –Board of Directors, Shrimp Peel  
Committees  
Geophysical Society of Houston – Electronic Publications, Publicity  
Committees

##### Statement

During my 40 years of experience, the HGS has always been there to support me in my career. For Geoscientists of all ages and skill levels, I have observed the HGS to always be the Number One source for Networking; with the highest quality Technical

*Scott Sechrist continued on page 28*



## Candidates for the 2019–2020 Executive Board (continued)

### Secretary (two candidates)



#### J. Schulenberg

I am honored to stand for secretary of the Houston Geological Society. I've been involved with AAPG and HGS since graduating from the University of Houston with a degree in Geology/Geophysics Option. I am AAPG certified in both geology and geophysics and am a

long-standing member of SEG and GSH. I am a founding member of the University of Houston College of Natural Sciences and Mathematics Alumni Association.

#### Currently serving HGS

- HGS President's Rising Star Award 2018
- Delegate AAPG House of Delegates
- Secretary on the Calvert Memorial Scholarship Board
- Video committee recording presentations at luncheons/special events.

#### Previously served HGS

- Academic Liaison Co-chair recruiting speakers for the 2018 HGS Flood Conference
- Video team recording the two-day HGS Flood Conference event
- HGS Continuing Education committee
- Special awards judge for HGS at the Annual High School Science and Engineering Fair.

#### Additional HGS Outreach

I work with numerous colleges to target and encourage the best applicants for the HGS Calvert Memorial Scholarship applications. This effort presents an opportunity to build bridges between university geoscience departments and HGS while encouraging students to become active members in the society.

I truly enjoy giving back to the Society and hope to continue those contributions serving as HGS Secretary in the coming year. ■



#### Tami B. Shannon

##### Education

Texas A&M University - Corpus Christi - Master of Science Degree, Environmental Science, 2007

Winona State University - Bachelor of Science Degree, Hydrogeology, 1997

##### Experience

1997-2000	Systems Engineer, CompuCom Systems
2001-2003	Transportation Engineer, Wilbur Smith Associates
2003-2006	GIS Technician, City of Corpus Christi
2006-2007	GIS Analyst, UT Marine Science Institute
2007-2010	Senior GIS Analyst, Deloitte - Petroleum Services Group
2010-2012	GIS Coordinator, Fugro GeoConsulting, Inc.
2012-2014	Senior GIS Programmer/Analyst, Resource Data Inc
2013-2014	GIS Application Developer, Gulf Interstate Engineering
2014-2015	GIS Project Lead, RPS Knowledge Reservoir
2015-2017	GIS Application Systems Expert, Oxy, Inc
2017-Current	International Appraisal Data Lead, Oxy, Inc.

##### Professional Affiliations

Houston Geological Society  
Geophysical Society of Houston  
Texas Board of Professional Geoscientists GIT #46

##### Professional Activities & Awards

2018-2019	Candidate for HGS Secretary
2016-2017	HGS President's Award
2016-2017	Editor, HGS <i>Bulletin</i>
2015-2016	Editor-Elect, HGS <i>Bulletin</i>

##### Statement

Thank you for considering me for your 2019-2020 HGS Secretary. I have been a member of HGS since 2007, when I first moved to Houston and learned of this esteemed organization. As a "silent" member for many years I participated in numerous meetings and events, but in 2015, it was an honor to have the HGS membership elect me HGS *Bulletin* Editor for 2016-2017. I worked closely with the HGS Board and its talented volunteers for over two years to gain great knowledge of the Society and to understand the Board's objectives and inner workings. As a nominee for HGS Secretary for 2019-2020, I am confident my previous experience as HGS Editor and Board member would make me an excellent candidate for this honored position. ■



## Candidates for the 2019–2020 Executive Board (continued)

### Treasurer-elect (two candidates)



#### Angela Hammond

As a front end development manager for Shell, Angela does more than manage. With more than sixteen years of experience as a production geologist and development planner, she strives to inspire and develop others. She has worked closely with partners and co-owners,

development managers and vice presidents on balancing risk and value tradeoffs, competitively scoping developments, integration, and strategy initiatives. She has enjoyed and had fun working on numerous Deepwater projects (and one unconventional EOR project) over the years from exploration through to first oil. She sees herself as a student of leadership, always working to better herself and others. Angela has been a member of HGS for 16 years, a Trustee on the Undergraduate Student Scholarship Committee for 5 years, is a current member of AAPG, SEG, and a past co-editor of the GCAGS. She has also been the treasurer for her daughter's Girl Scout troop for the past 3 years. ■



#### Thomas Reed

Thomas worked 29 years in exploration and production as an individual contributor and in management. His career includes onshore and offshore USA, as well as Nigerian Shelf. He is an active member of HGS, GSH, SEG, AAPG, NABG, participates in the annual

HGS Applied Geoscience Conference on the Geophysics and Sponsorship committees, and is a Distinguished Toastmaster. During his career he enjoyed sharing his love for earth sciences through career days at public and private schools in Denver, Houston, and Ft Worth. After retiring from Oil and Gas, he joined Edward Jones Investments as a financial advisor in Montgomery, TX. He brings a unique perspective to the HGS treasurer-elect role and is eager to continue giving back to earth sciences in this role. He is 27 years married, has two grown children, both in college. He has an AA degree from Glendale Community College, double BS degrees in Applied Mathematics and Geology from the University of California, Davis, and a MS degree in Exploration Geophysics from Stanford University. ■



## Candidates for the 2019–2020 Executive Board *(continued)*

### Director – Two-year term *Vote for two candidates*



#### Wayne K. Camp

Wayne K. Camp is a Distinguished Geological Advisor with Anadarko Petroleum Corporation, The Woodlands, Texas, where he has been employed since 1980 working various domestic and international projects, including supervising exploration and development

teams from 1986-2006. Prior to working at Anadarko, Phillips Petroleum Company employed Camp in Houston for two years. Camp received his B.A. degree in geology (with honors) from the State University of New York at Oneonta (1976), and his M.S. degree in geology from Colorado State University, Fort Collins, Colorado (1979). Camp lives in Montgomery, Texas with his wife Joanne, and has two daughters and three granddaughters.

#### Leadership and Advisory Roles

2003-2004	Chairman, AAPG Unconventional Gas Research Group
2005	Co-chair, AAPG Vail, Colorado Hedberg Conference: "Understanding, Exploring and Developing Tight Gas Sands"
2006	Contributing Editor, AAPG Hedberg Series 3: "Understanding, Exploring and Developing Tight Gas Sands"
2009	Session Chairman and Proceedings Reviewer, Indonesian Petroleum Association
2010	Advisor, America's Natural Gas Alliance (ANGA), Houston, Texas 2010-2013 Member, U.S. DOE Unconventional Resources Technology Advisory Committee
2011-2013	Lead Editor and Contributor, AAPG Memoir 102: "Electron Microscopy of Shale Hydrocarbon Reservoirs"
2012-present	Planning Committee Member, Houston Geological Society Applied Geoscience Conference
2013	Associate Editor, "Interpretation for Unconventional Resources", SEG/AAPG Interpretation Journal
2013-2014	Unconventional Theme Chair, AAPG Annual Convention and Exhibition, Houston, Texas, April 6-9, 2014

Wayne K. Camp *continued on page 28*



#### Bob Fryklund

Bob Fryklund, Chief Upstream Strategist, Energy, IHS Markit, has over 38 years of industry experience focusing on global upstream strategic leadership and has advised on many of industries most revolutionary projects over the last two decades. He has held various executive

leadership positions at both majors and leading independents. A recognized Thought Leader on upstream oil and gas, he frequently speaks at key industry meetings, such as the World Economic Forum, CERAWEEK by IHS Markit, the Offshore Technology Conference, APLA, and the American Association of Petroleum Geologists Conference. He is also an established media consultant and source for both print and television. Mr. Fryklund serves or has served on several boards and executive committees, including the Association of Petroleum Geologists Advisory Board; the Independent Producers Association of America; the Brazilian Petroleum Institute; the International Energy Agency; the Libya-US Council, a bilateral trade association; and American School of Tripoli. Mr. Fryklund is a member of the Houston Geological Society and the American Association of Petroleum Geologists and has published numerous articles in three languages. Mr. Fryklund holds an AB from Hamilton College, has completed advanced studies at the University of Houston and the University of Tulsa, and holds an advanced certificate in management. ■



## Candidates for the 2019–2020 Executive Board *(continued)*

### Director – Two-year term *Vote for two candidates*



#### Constantin Platon

##### Education

2011 Master of Science: Geological Sciences @ The University of Alabama, Tuscaloosa, AL  
2005 Bachelor of Science: Engineering Geology @ Univ. Al. I. Cuza, Iasi, Romania

##### Experience

2016-Now	Lone Star College, Houston, TX: Geology Professor (Adjunct)
2015-Now	OAK GeoSciences, Houston, TX: E&P G&G Consultant, Outdoor Educator
2011-2015	Shell E&P, Houston, TX: Exploration Geologist (Brazil, Guyana, Colombia, GoM)
2008-2011	The University of Alabama, Tuscaloosa, AL: Teaching Assistant (Geology)

##### Professional Affiliations

HGS, AAPG, SEPM, GSA, GSH

##### Professional Accomplishments

2015	responsible for largest commercial hydrocarbon discovery @ Liza-1 well, first deepwater well in Guyana
2011	students changed majors to geology after attending my classes, to become my professional peers

##### Statement

- Passionate Geologist: expertise in sedimentary geology, salt tectonics, deep-water exploration
- Play Based Exploration, 2D & 3D seismic interpretation, Lower 48 Unconventionals
- Business Skills: data rooms, technical committee meetings with partners & JV
- Romanian Citizen, lived continuously in USA since 2005 (US Permanent Resident/GC)
- Passionate Geologist – Explorer at heart – loves rocks: to study, to climb on, to ride over
- Outdoor Adventurer: mountaineering & bicycle-touring expeditions; happy camper 20+ y
- Outdoor Educator, Tennis Coach, Kayak Instructor, 38 years old, married, 2 young children ■



#### Ryan E. Yarrington

##### Education

Houston Baptist University, Bachelor of Business Administration with double majors in Marketing and Business Administration 2005

##### Experience

2018-2019	Oildex/Drilling Info – Enterprise Account Executive specializing in OSS (Oilfield Services Suite) Oildex Software
2014-2018	MultiClient Geophysical – Seismic Data Marketing Representative focusing on Global Offshore 2D and 3D Seismic Acquisition
2011-2014	Sigma/ESG/Global Geophysical Services-Business Development/Marketing for Onshore Microseismic Acquisition and Engineering services Data Processing, and Reservoir Characterization
2011	HSEQ- Safety Advisor specializing in Environmental laws and procedures

##### Professional Affiliations

Houston Geological Society  
Geophysical Society of Houston

##### Professional Activities and Awards

2011 - present	HGS International Explorationists Committee Treasurer
2016-2017	HGS Rising Star Award

##### Statement

I am very honored to once again be nominated for a position on the HGS Executive Board of Directors for the 2019-2020 year. The Houston Geological Society, with its vast history in the Houston area has been integral in providing continuing education opportunities within the Geoscience Industry as well as cultivating a strong sense of community both locally and across the globe. After 8 years of membership and 6 years of volunteering for the HGS in the International Explorationists Group, I would love to expand my involvement in a Society that has made such a significant impact on my life professionally and personally. There are many things that I can bring to the table with a larger role in the HGS. Some of those attributes include flexibility, adaptability

Ryan E. Yarrington *continued on page 29*



## Candidates for the 2019–2020 Executive Board *(continued)*

### Editor-elect (one candidate)



#### Ceri Davies

##### Education

University of Liverpool  
Masters of Earth Science, Geophysics with Geology, 2005  
PhD in Paleomagnetism, 2009

##### Experience

CGG Robertson  
2010 – 2014 Marketing Geologist  
2015 – 2017 Regional Technical Manager  
2018 – today Business Development Manager

##### Professional Affiliations

Houston Geological Society  
Geophysical Society of Houston  
Rocky Mountain Association of Geologists  
American Association of Petroleum Geologists

##### Statement

With a warm welcome I appreciate the nomination for the Editor-elect role with the Houston Geological Society. Growing up surrounded by the natural world at its best along the coastlines of Wales, I became endeared to the curiosity geology could bring to everyday life.

I have continued that curiosity through my education in Liverpool and followed my career to the largest collection of geologists globally. I enjoy the diversity the Houston Geological Society brings, from the insights of West Texas to the next wildcat adventure offshore. Houston harbors and supports a geologists dream like no other city can.

I look forward to working with the Society and its members to continue in providing the material, presentations and opportunities to keep the curiosity alive. ■

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#### Sarah Gephart Stanley—Candidate for President-elect

Developed Seismic Micro Technology's first full-time training center to support SMT geoscience software. Hired and managed team of trainers Worked with other regions on global projects for clients, such as ONGC, Lukoil, Rosneft, and Hydro, and to meet revenue projections.

Schlumberger, Houston, TX

Curriculum Supervisor, Schlumberger Geoquest  
Managed creation and/or upgrades of 29 technical training manuals for GeoQuest. Supervised 3-member staff and numerous subject matter experts. Led certification of new teaching methodology and course content.

Supervisor, GeoQuest Geolab

Oversaw lab and cross-product data integration specialist. Directed release planning, quality control, and efficient testing of data transfers via Geoshare, Geonet, and related products. Managed global internal and external Geoshare support. Promoted Data Flow Integration resources within Schlumberger.

Lone Star College, Houston, TX

Director, Geoscience Technology Training Center at North Harris College

Led and greatly expanded first-of-its-kind beginning and mid-

career computer training program for geoscientists. Managed center finances, hired and supervised contract instructors, and prepared business plans and budgets.

Taught and supported Landmark Graphics SeisWorks, GeoQuest IESX, and other geoscience courses, and performed UNIX systems administration for GTTC program and business model that became template used by AAPG in assisting other start-up training centers domestically and internationally.

Consulting Geologist and Adjunct Geology Faculty Member

Instructed Physical Geology courses, labs, and assisted with Geoscience Technology Training Center.

Metfuel, Incorporated, Houston, TX

Area Geologist

Mapped all company properties in Black Warrior Basin coalbed methane project.

Drilled and mapped 500+ wells in less than 365 days.

CSX Oil and Gas Corporation, (TOTAL Minatome CORPORATION), Houston, TX

Senior Geologist, Onshore Exploration and Exploitation

Wainoco Oil and Gas Company, Houston, TX

Geologist, Appalachian Basin and South Texas



## Candidates for the 2019–2020 Executive Board *(continued)*

#### Sarah Gephart Stanley—Candidate for President-elect

City Service Company, International Group, Houston, TX  
Exploration Geologist, South and Central America

##### Statement

Throughout my geoscience career, it has been my honor to be associated with the HGS. My affiliation has allowed me to come to know many fine individuals in the petroleum industry. I have also tried to advance the Houston Geological Society through my volunteerism with the AAPG, making sure that the Houston Geological Society is represented nationally. Some of my society highlights include:

- HGS and AAPG Continuing Education Committees
- AAPG Sub-Committee Chair for Technical Training Centers
- HGS Employment Committee
- AAPG House of Delegates and HoD Foreman, Long Service Award
- HoD Nominations and Awards committee
- DPA Editor

##### Awards and Short Courses

- Harrison Schmitt Award (formerly AAPG Special Award)
- HGS President's Award
- Midland College Petroleum Geotechnical Training Program Pioneer Award
- AAPG Mid Continent Short-course on Computer Software
- HGS Shortcourses include:
  - What To Do When the Bottom Drops Out Symposium
  - Unix Basics For Interpreters
  - SeisWorks for Interpreters
  - 3D Visualization Overview Symposium (assisted)

Even though the HGS is the largest local geological society, I feel that we need to continue to expand our outreach through innovation and interaction with our society members and with members of other local societies. I consider it an honor to be nominated for President-elect of the Houston Geological society, and if elected, will do my best to uphold the trust the membership has placed in me. ■

*continued from page 20*

#### James W. Tucker—Candidate for President-elect

Sea, SE Turkey, Ghana and other West Africa, onshore China, and various other areas;  
Exploration Planning Director (international)

Milchem Drilling Controls (1972)

Fabrication and field service of desilters, mud centrifuges, and shale shakers

##### Publications

Various abstracts and short articles

##### Houston Geological Society Activities

1982-1984 Ballot Committee, member and chair  
1998-2002 International Explorationists Committee, member and chair  
2014- Africa Conference Committee  
2017-2019 Editor-Elect and Editor

##### Other Professional Activities

1984-1988 LA Basin Geological Society; Treasurer, Secretary, Vice-president, President  
1992, 1997 Dallas Geological Society; cofounder of the International interest group, *Newsletter* Editor  
2011- Dhahran Geoscience Society; AAPG councilor  
1990-1995 AAPG; *Bulletin* Associate Editor

2014-2016 AAPG; Treasurer  
AAPG Delegate or Alternate from Los Angeles, Dallas, Dhahran, and Houston

##### Memberships

HGS, AAPG, GSA, AGU, AIPG YBRA, SPE

##### Certifications and Licenses

AAPG Certified Petroleum Geologist #3472  
AIPG Certified Professional Geologist CPG-7224  
California Registered Geologist License No. 4386  
Texas Licensed Geologist License No. 2182

##### Statement

I joined the Houston Geological Society when I was transferred to Houston in the summer of 1980 and have maintained my membership since then, including when located elsewhere, since I knew I would be back. I have always looked at local societies as the first circle of my professional involvement, and have participated in them wherever I have been located. I have been in societies near insolvency with declining memberships, and societies with robust membership and funds, and learned from all of them.

It is important that the HGS continue to serve Members. Our size, as the world's largest local geological society, allows us to have many and varied programs, publications, training courses, public and youth programs, and social activities, as well as providing scholarships for our future colleagues. This will continue as we add

James W. Tucker *continued on page 28*



## Candidates for the 2019–2020 Executive Board *(continued)*

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### **James W. Tucker**—*Candidate for President-elect*

innovative activities to our current ones while maintaining prudent economies. We prepare for the future by constant diligence and continuing involvement of our Members. We are a volunteer organization, and that is our strength, and carries the obligation to participate where interested.

It is an honor to be nominated for President-Elect/President, and I will work hard to engage Members and the larger community. I look forward to HGS participation for many years to come. ■

*continued continued from page 21*

### **Bryan Guzman**—*Candidate for Vice President*

website and HGS organized conferences. Until recently, I have spent much of my time working on the exhibits committee organizing the set-up and transportation of the HGS booth for various conventions throughout the year. When I served as HGS Secretary, it afforded me the opportunity to learn more about the many functions of the HGS when compiling the monthly board meeting minutes. I was also exposed to the financial side of the organization as the HGS Treasurer-elect and Treasurer where I witnessed the society's dedication to the various efforts through the annual budget. It has been a pleasure meeting many people along the way and I am thankful to the opportunities the HGS has provided me while serving as a chairman, secretary and treasurer. It would be my great pleasure to serve in the capacity of HGS Vice President. ■

*continued from page 21*

### **Scott Sechrist**—*Candidate for Vice President*

Meetings and Continuing Education presentations in the industry.

As an HGS member, I have volunteered through the years in a wide range of events: working at the registration table for Technical meetings, stuffed convention bags, participated in Science Fair judging, volunteered at Shrimp Peels and Golf Tournaments, learned how to shoot Skeet and helped to promote the HGS Fishing Tournament, provided liaison with other local geoscience societies and was honored to serve on the HGS Board of Directors.

Now as an Emeritus member of HGS, I feel it is my duty to contribute further to the ongoing success of the Houston Geological Society. In humble recognition of all the benefits HGS membership has provided to me, I would be honored to serve my fellow Houston Geological Society members as Vice President. My first priority will always be to continue the HGS tradition of providing outstanding speakers and topics at HGS Luncheon and Dinner meetings, to benefit the entire HGS membership. I thank you for your consideration and would appreciate your vote. ■

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### **Wayne K. Camp**—*Candidate for Director*

- 2014-2016 Lead Chairman, SEPM-AAPG Joint Research Conference "Mudstone Diagenesis", Santa Fe, New Mexico, October 16-19, 2016
- 2016-2017 Vice President, AAPG Energy Minerals Division
- 2016-2017 Vice Chair, AAPG Energy Minerals Division Annual Meeting Committee
- 2017-2018 President-Elect, AAPG Energy Minerals Division
- 2017-present Lead Editor and Contributor, AAPG Memoir 121 (tentative): "Mudstone Diagenesis: Research Perspectives for Shale Hydrocarbon Reservoirs, Seals, and Source Rocks" (in press).
- 2018-present President, AAPG Energy Minerals Division
- 2018-present Session Chair, Canadian Society of Petroleum Geologists 2019 Gussow Conference "New Directions in Geoscience for Unconventional Resources: Living at the Interface between Geochemistry, Geomechanics, and Engineering"

#### **Publications (excluding abstracts and posters)**

Camp, W.K., 2008, Basin-center gas or subtle conventional traps? in, S.P. Cumella, K.W. Shanley and W.K. Camp, eds., *Understanding, Exploring and Developing Tight Gas Sands: American Association of Petroleum Geologists, AAPG Hedberg Series*, no. 3, p. 49-61.

Camp, W.K., 2011, Pore-throat sizes in sandstones, tight sandstones, and shales: Discussion: *American Association of Petroleum Geologists Bulletin*, v. 95, p. 1443-1447.

Camp, W.K., and B. Wawak 2013, Enhancing SEM grayscale images through pseudocolor conversion: Examples from Eagle Ford, Haynesville and Marcellus shales, in W.K. Camp, E. Diaz, and B. Wawak, eds., *Electron Microscopy of Shale Hydrocarbon Reservoirs: American Association of Petroleum Geologists, Memoir 102*, p. 15-26.

Camp, W.K., S. Egenhoff, J. Schieber, and R.M. Slatt, 2016, A compositional classification for grain assemblages in fine-grained sediments and sedimentary rocks-Discussion: *Journal of Sedimentary Research*, v. 85, p. 1-5.

Camp, W.K., (in press), Diagenetic evolution of organic matter cements: Implications for unconventional shale reservoir quality prediction, in W.K. Camp, N.S. Fishman, P.C. Hackley, J.H.S. Macquaker, K.L. Milliken, and K.G. Taylor, eds., *Mudstone Diagenesis: Research Perspectives for Shale Hydrocarbon Reservoirs, Seals, and Source Rocks, American Association of Petroleum Geologists Memoir 121*.



## Candidates for the 2019–2020 Executive Board *(continued)*

*continued from previous page*

### **Wayne K. Camp**—*Candidate for Director*

#### **Honors and Awards**

- Best Student Paper Presentation, 1979 Geological Society of America
- Best Technical Presentation, 1987 Houston Geological Society
- Best Technical Presentation, 2003 Rocky Mountain Association of Geologists
- Top 10 Hedberg Paper, 2009 American Association of Petroleum Geologists
- R.H. Dott, Sr. Memorial Award, Best Special Publication, 2010 American Association of Petroleum Geologists
- Certificate of Merit, 2018, American Association of Petroleum Geologists, Energy Minerals Division

#### **Professional Membership**

- American Association of Petroleum Geologists (AAPG); Energy Mineral Division (EMD)
- Society for Sedimentary Geology (SEPM)
- Geological Society of America (GSA)
- Houston Geological Society (HGS)
- Indonesia Petroleum Association, former member
- Rocky Mountain Association of Petroleum Geologists (RMAG), former member
- Sigma Xi (Honorary Scientific Research Society), former member ■

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### **Ryan E. Yarrington**—*Candidate for Director*

to new situations, integrity, networking skills, an ability to analyze situations objectively, follow through on commitments, quality communication, a willingness to work with others, a positive disposition, and of course, my fantastic sense of humor! Between those characteristics and the guidance that I receive from other seasoned members of the Board I feel that I could be a strong member of the team. If I am elected Director, I would aim to channel my skills into supporting the various committees that I would oversee and to encourage them with their continued growth in the Society. As a part of the HGS Board as a whole, I look forward to the possibility of being involved in the ongoing success and expansion of the largest local Geoscience society in the country. I hope that I can count on your vote! ■



# AAPG House of Delegates Candidates

The House of Delegates of the AAPG is made up of delegates from affiliated societies and international regions throughout the world. They are selected by popular vote from within their respective areas and serve a three-year term.

Requirements of the delegates include:

- Familiarity with AAPG's Constitution and Bylaws
- Acquaintance with AAPG's current policies and programs
- Willingness to inform the leaders of their society or region regarding AAPG's program of activities, particularly as it relates to cooperative participation and service
- Ability to process AAPG Executive Committee requests for applicant information regarding membership eligibility
- Availability to serve on local certification committee to process Board of Certification requests for applicant information for AAPG Certification
- Willingness to actively solicit applications from eligible geologists for membership in AAPG

We are providing a brief informational summary of 18 candidates for the HGS delegation to the AAPG House of Delegates. A formal ballot will be sent to those eligible to vote by AAPG. Each voting member will be asked to vote for 25 individuals.



## Jeff Allen

Jeff Allen has over ten years experience as a petroleum geologist and entrepreneur. He has worked as a consultant evaluating investment opportunities for multiple companies and also worked alongside Professor Emeritus Dr. Spencer Wood of Boise State University to make Idaho the

35th oil and gas producing state in North America. Mr. Allen independently raised \$5MM while oil was only \$23/bbl to manage and execute an exploration project covering 60 square miles. Mr. Allen coordinated with multiple investors, vendors, contractors, and employees. Mr. Allen brought a geologic idea to fruition resulting in multiple oil and gas wells. He has been an influential member and leader of various boards in Houston, TX including The Petroleum Club of Houston, The Houston Geological Society, The American Association of Petroleum Geologists, and The Society of Independent Professional Earth Scientists. Mr. Allen maintains a passion for education and continues to volunteer time with local schools to influence children toward an academic career in Math, Science, and Engineering. He holds a BS in Geology from the University of Texas at San Antonio as well as many professional certifications. ■



## Jonathon P. Allen

Jon Allen is an Earth Science Advisor at Chevron USA. Since receiving his PhD in 2009, he has worked for Chevron in Bakersfield and Houston. He has participated in the Career Services and Young Professionals AAPG Committees, and been in the Technical Organizing Committees for the PSAAPG and ACE meetings. He has also been Vice-President of both the San Joaquin Geological Society and the Pacific Section of the AAPG. He has received service and publication awards from SEPM, AAPG, and Pacific Section of AAPG. ■



## Robert Archer

With 25 years of E&P industry experience, Robert is the Chief Executive Officer of Blue Wave Oil & Gas, a company delivering on demand advisory services with integrated financial and technical modeling and analysis with a focus on unconventional plays. He holds a Bachelor

of Science in Geological Geophysics from the University of Reading and a Master of Science in Petroleum Engineering from the University of Houston. He is a licensed Professional Geoscientist in the State of Texas.

Prior to Blue Wave, Robert was with Zone Energy operating an East Texas Woodbine water flood. Robert was a co-founder of Knowledge Reservoir, an E&P consulting firm delivering reservoir studies. His expertise is in the field of subsurface uncertainty quantification and integrated reservoir studies. Robert is professionally affiliated with the AAPG, SEG and SPE. A member of the House of Delegates since 2016, he hopes to continue to serve. ■



## Richard Ball

Richard is a Certified Petroleum Geologist who worked both conventional and unconventional reservoirs with Chevron USA over the entirety of his ten year career, including onshore U.S., Gulf of Mexico Shelf/Deep Water, and West Africa Shelf. Currently, Richard is Vice-President at

Detring Energy Advisors and serves the AAPG as Treasurer and a Division of Professional Affairs (DPA) Councilor. Mr. Ball is a proud graduate of Stephen F. Austin State University and the University of Louisiana at Lafayette, where he earned his BS (2005) and M.S. (2007), respectively.



## Jon F. Blickwede

Since entering the profession in 1981, Jon has worked as an exploration geologist for Amoco, Unocal/Chevron, and Statoil, as a manager for the northern Latin America region at IHS, and is currently a consultant. He has won Best Paper Awards as a student (AAPG), and as a professional

from AAPG (Matson Award), and New Orleans, Houston, and GCAGS societies. He has organized conferences for GCSGS and Gulf Coast Section-SEPM, served on AAPG committees, and is a member of AAPG and societies in Mexico and Venezuela. He is currently President-Elect of the HGS, and will be Houston Geological Society President 2019-2020. ■



## Matthew Brzostowski

Dr. Matthew Brzostowski has been an active member of the AAPG since 1982, presenting under the auspices of the Astrogeology Committee in society meetings, besides publishing in the AAGG Explorer. His love for geology has been shared with the next generation by helping teach the Geology

merit badge at the 2005 Boy Scouts of America National Jamboree. Matt graduated from Washington State University with a Geology BSc degree in 1980, the highlight of which was the Field Camp in the San Juan Islands. He went on to earn a PhD in Geoscience from the University of Texas at Dallas in 1991. Matt's almost 40 years in the industry with Schlumberger, and its predecessor companies, have been filled with experiences throughout the globe. If elected, Matt promises to continue to ensure the HGS is duly represented within the AAPG, and he will reach out to all members in a spirit of professional responsibility and volunteerism. ■



## Jennifer Burton

Jennifer Burton is a 23-year professional of the oil and gas industry. She was with Anadarko for 11 years where she worked and led exploration and development projects in the Permian Basin, East Texas, Alaska and Wyoming as well as serving for 2 years on Anadarko's corporate

planning team. Jennifer has spent the last 12 years in consulting and private equity backed companies developing and selling projects in both the domestic and international arenas. She has a BS in Geoscience from the University of Memphis and a MS in Geology from the University of North Carolina- Chapel Hill and is an AAPG Certified Petroleum Geologist. Throughout her career, Jennifer has been an active volunteer in AAPG and the Houston Geological Society as well as serving on the boards of two community non-profit organizations. She has led and served on the HGS Educational Outreach Committee, is a past HGS Secretary and Director and served on two AAPG conference committees. Most recently she has served on the

House of Delegates since 2016. She is an active voice for activities that enrich the educational and service components of our professional societies and is looking forward to contributing to the continued growth and direction of our programs. ■



## Matt Campbell

I am honored for the opportunity to stand for the AAPG House of Delegates. I am excited to represent the Houston area as a mid-career geoscientist with enthusiasm to provide feedback and guidance as the Association continues to evolve with the next generation of members. Identifying

a path forward, while retaining the guiding principles of the Association remains critical to the organization and will be my focus as a member of the House of Delegates.

After finishing my MS Degree from the University of Texas in Austin, focusing on carbonate stratigraphy and depositional systems, I began my career with Oxy working Permian Basin EOR/IOR projects. Since then, I have moved on to work structurally complex deep-water reservoirs of the San Joaquin Basin in California, and most recently, the fine grained, unconventional reservoirs of the Permian Basin. I have progressed in my career from a geologist & geomodeler to taking various leadership roles, both multi-disciplinary, and geoscience focused. I am currently the Project Development Manager for Oxy's unconventional EOR initiative, blending my experiences in fine grained, deep-water reservoirs and EOR processes in the Permian Basin, while continuing to maintain an active leadership role in Oxy's geoscience community. ■



## Martin M. Cassidy

Martin's AAPG and HGS experience began in 1958 when I joined the AAPG in graduate school at the University of Oklahoma, and have been active ever since. I arrived in Houston in 1965 with Pan American exploration company (later Amoco) and become active in the

HGS. I was treasurer in 1968 and V.P. in 1969. After returning from overseas assignments in the 1980s my activity was with the international group, the Africa conference and eventually I was elected President of the HGS. During that time I was also a delegate in the House of Delegates of the AAPG.

The House of Delegates (HoD) is a very important group, like the Congress of the USA. Like them a major duty is to act as advisor and balance to the Executive branch of the Society. The House of Delegates should be more active in affairs of the society, not less active as duties are removed from them. These are difficult times for the AAPG when all hands young and old need to man (person?) the oars. I would like to continue in efforts to

AAPG House of Delegates Candidates *continued on page 32*

## AAPG House of Delegates Candidates continued from page 31

increase the scope of the society. For that reason I am running for delegate again. ■



### David Cole

David Cole graduated in 1984 with a MSci in Geology from Colorado School of Mines. He worked for Amoco for 9 years before joining an independent to run an exploration effort in Guatemala. He rejoined BP-Amoco in 2003 to lead their exploration effort in the Delaware

Basin. At this time he also formed Stanotex to acquire oil and gas interests in gulf coast salt domes. He then joined Layline Petroleum in 2009 as Chief Geologist to lead their development and exploration program in properties in central Texas and the Gulf Coast. He is currently Vice-President of Engineering and Geosciences for Black Falcon Energy, managing over 8000 non-operating WI wells across the U.S. ■



### John W. Deck, Jr.

John Deck has 37-years of technical and senior management experience in the Exploration and Production industry. He worked as an exploration and exploitation geologist on prospects in the Gulf of Mexico, Mississippi, and Alabama, in research organizations where he held

responsibility for conceptualizing and directing the development of advanced technology solutions, in operations groups where he lead the development and implementation of business inspired technical strategies, and as an independent consultant for super major and large independent E&P, E&P software and IT firms. John recently retired from Amplify Energy Corp. where he served as Vice President and Chief Information Officer.

John was instrumental in developing E&P portfolio management processes, establishing technology-outsourcing relationships, building and transforming E&P IT organizations, designing and implementing E&P IT strategies and implementation roadmaps, aligning IT and business strategies to enable business value, creating workflow processes, and rationalizing people, processes, and technology due to corporate reorganizations and consolidations.

John earned his MBA from Rice University as well as a MS in Geology from the University of South Carolina. His undergraduate degree, a Bachelor of Arts in Geology, was awarded from Rutgers University. He has published and presented papers on exploration projects and E&P technical research to many industry organizations including the AAPG, SEG, ORACLE, Landmark Graphics, Paradigm Geophysical,

Environmental Systems Research Institute (ESRI), PNEC, and the National Computer Graphics Association. He is Co-Chair of the 2019 AAPG Annual Convention and Exhibition section entitled "The Digital Transformation in the Geosciences." ■



### Cheryl Desforges

I would be honored to continue servings as one of the HGS Delegates to the AAPG HoD. My goal is to advocate that AAPG continue to serve the needs of our membership, and that it remains a bottom up, member driven organization, rather than a top down governed organization

and bureaucracy.

I have been privileged to have been allowed to practice Geology in the Petroleum Industry since 1975. My career path at various times has involved being an independent consultant, and working for a number of up-stream oil companies and technical service companies, including Atlantic Richfield Company (ARCO), Sonat Exploration, Diamond Shamrock, J. M. Huber, Randall & Dewey, Ryder Scott, and Sabco Oil and Gas Corporation, and most recently, Eagle Hydrocarbons, before once again becoming a consultant. My career has offered me opportunities to develop skills in many facets of geologic evaluation spanning rank wildcat and regional trend exploration to field exploitation, as well as SEC reserve audit preparations, acquisition screening and divestment marketing. My education includes a BS degree in Geology from Texas Christian University and a MS degree in Physical Science/Geology and a Master of Business Administration from the University of Houston. I am a licensed Professional Geoscientist in the State of Texas and an active member in a number of professional organizations, including AAPG, HGS, SEPM, and SEG. I have held various volunteer and elected positions including HGS President-Elect/President 2017-2019, Vice President 2015-2016, Treasurer-Elect/Treasurer 2005-2007 and Committee Chairman for several committees: Finance 2004-2005; Continuing Education 2004-2018; Publication Sales 1985-1989; Conference Co-Chairman 2018 "Flooding in Southeast Texas: The Science Behind the Floods"; 2005 "Coastal Subsidence, Sea Level and the Future of the Gulf Coast" and 2018 ; Regional Science Fair Awards/Interns Selection Committee 2004-2015, as well as GCAGS Houston 2008 Treasurer, AAPG HoD 2007-2019. ■



### Craig M. Dingler

Craig is a hydrogeologist for Clean Harbors Environmental Services, with previous experience in the petroleum industry and academia. He is a Texas licensed professional geoscientist, and member of the Houston Geological Society, American Association of Petroleum Geologists, and the National

Ground Water Association.

In AAPG, he has served the Division of Environmental Geosciences as VP and member of the advisory board. He was DEG technical chairman for the Houston 2006 AAPG annual convention and DEG vice chairman for the Houston 2011 meeting. He is a past-president of the HGS and also served as treasurer, *Bulletin* editor, and chairman of the environmental and engineering geologists group. He has BS and MS degrees in geology from SUNY-Oneonta and the University of Idaho, respectively. Craig has been an AAPG Delegate since 2010. ■



### Sharma Dronamraju

SSharma Dronamraju is a Geoscientist and Director, AKD Professional Solutions in Houston, Texas, USA. He worked for Petrobras USA, Marathon Oil, Halliburton, Landmark Graphics, Fugro, and ONGC over 30 years of upstream oil and gas.

His expertise lies in rejuvenating mature fields. He was associated with several deep-water developments and exploration appraisals in GoM, Gulf of Thailand, Indonesia, deep-water Nigeria, Equatorial Guinea, and South China Sea. Sharma's recent work includes Geomodeling for EOR in mature oil fields in Miocene Syn-rift clastics and carbonates and regional prospectively of Gulf of Suez, Egypt, heavy oil development in Powder River Basin in Lower Cretaceous incised valley fills (Newcastle Fm.), addressing subsurface heterogeneity of Mishrif Carbonates in Southern Iraq and reservoir modeling of HPHT fields in offshore East Malaysia and Borneo, and sub-salt interpretation, appraisal, and reservoir delineation of Lucius Field, GoM. Sharma's current focus is continental rift basins and their contribution to geoscience.

Sharma earned his Master's degrees from Indian Institute of Technology, Texas A&M University, and MBA from Rice University. Mr. Sharma is State Registered and Certified in Texas USA (#12543), Vice Chair of International Explorationists Committee, Houston Geological Society, a Member of AAPG for 30 years, Member of House of Delegates, and an active member of SIPES. He held several trainings for target audiences, clients, in US, Middle east, Mexico, and Asia; HGS and AAPG Technology Workshop in U.S. ■



### Olusanmi 'Tunde Emmanuel

Olusanmi 'Tunde Emmanuel, PhD (Colorado School of Mines, 2014) is an AAPG DPA CPG (#6301) and a Certified Earth Scientist (SIPES #3501), and HGS member. He has been a presenter and session judge at many conferences including the AAPG, URTeC and the

HGS/PESGB Africa Conference. He has served the AAPG as a member of the Grants-in-Aid Committee (2014-2015) and the Education Awards Committee (2015-2018). He was a member of the 2018 Technical Committee of the Houston Geological Society and the Petroleum Society of Great Britain Africa Conference Committee, where he also served as Session Judge and presented an oral paper on emerging Cretaceous plays in the Gulf of Guinea, West Africa. He has over 15 years industry experience working for multinational exploration and production companies including ExxonMobil, Statoil ASA, BG Group Plc. and Shell in Nigeria, Norway, United Kingdom and the USA. He left Shell in October 2016 to become the Chief Executive Officer/Chief Geoscientist of Acetop Energy LLC., an energy consulting, training, recruitment and procurement services firm based in Houston, Texas. He is also the Managing Associate, Geoscience for Emerald Peak Associates LLC, a Colorado – headquartered oil and gas prospects generation company focused on SW, Texas. Tunde has worked on the geological and geophysical evaluation of conventional oil and gas plays and prospects in the Niger Delta, the Cretaceous Dahomey/Benin and Keta-Tano basins, the Chad basin, Lower Benue Trough, UK North Sea basin, onshore Libyan basins; the Cretaceous Olmos Sandstone, and the Austin Chalk (Gulf Coast basin, Texas) as well as Shale plays including the Marcellus, Haynesville, Niobrara, Eagle Ford, Bakken Shale, Bazhenov and Domanik.

I am grateful for the nomination and, if elected, would be greatly honored to serve as a member of the AAPG House of Delegates for our area. The AAPG has been a force for good around the globe and has continued to strive to increase its contributions to the development of geoscience education in many emerging economies. In fact, I first became involved with the activities of the AAPG in 1998, when Professor Nahum Schneiderman led a team of AAPG members from Chevron Nigeria to deliver a Distinguished Lecture talk and inaugurate the first AAPG Student Chapter in Africa at the Federal University of Technology, Akure, Nigeria after donating several geoscience books and equipment to the University. It will be an honor to be able to use my service as an AAPG HOD member to help support the next phase of the international drive for the registration of more international geoscientists as members of the AAPG. ■

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### Meredith Faber

Born and raised in Texas, Meredith attended Trinity University in San Antonio where she joined AAPG as a student member in 2003. She graduated with a Bachelor of Arts degree in English and a Bachelor of Science degree in geosciences in 2005. She went on to attend graduate

school at Southern Methodist University in Dallas, Texas, where she split her time between teaching oceanography lab classes, participating in various student organizations (including the SMU AAPG Student Chapter) and earning a doctoral degree in geology with an emphasis in stable isotope geochemistry. She completed her dissertation research on isotopic and ecological investigations of the land snail record and novel data management techniques in 2012. After graduation, Meredith joined Swift Energy Company (now Silverbow Resources) in Houston, Texas, to work in exploration in onshore South Texas.

Meredith moved to Noble Energy in 2014 and worked in the Marcellus Business Unit. Currently, she works in Development and Operations in the Permian Basin. She actively serves the Association as VP of the Division of Professional Affairs, but has previously served as a member of the Student Chapters Committee, as vice-chair and co-chair of the Young Professional Committee (now YP SIG), as a candidate for AAPG Secretary and as both a House of Delegates Delegate and Alternate on behalf of the Houston Geological Society. She credits AAPG and HGS with providing the opportunities that resulted in her present career path and considers it a privilege to give back to the Society and the Association by serving as a Delegate. ■



### Gretchen M. Gillis

Gretchen Gillis is Geological Consultant at Aramco Services Company in Houston, where she supports oil and gas exploration and production and provides training in petroleum geoscience and scientific writing for Saudi Aramco. She began her career as exploration geologist and later

served in a variety of marketing communication roles with Schlumberger. Gretchen was elected AAPG Editor (2007 – 2010) and received the AAPG Distinguished Service Award in 2011 and Honorary Member Award in 2018. Appointed by AAPG in 2015 to the board of directors of GeoScienceWorld, she served as 2016-2018 board chair. Gretchen is a Trustee Associate of the AAPG Foundation and the SEG Foundation, and a Director of the SEG Foundation. Gretchen earned a BA degree in geology from Bryn Mawr College, Pennsylvania, USA, and an MA degree in geological sciences from the University of Texas at Austin. With her husband, Dave Cook, Gretchen enjoys providing direct

sponsorship to the AAPG ACE for important activities such as the Icebreaker Bar (2017), the Unconscious Bias Luncheon (2018), and End-of-day Refreshments (2019). ■



### William Gough

William Gough is a Geoscientist with 14 years of experience in the upstream oil & gas industry. He worked as a Senior Geologist for Unit Petroleum Company (05 – 16). In this role he worked the Gulf Coast basin and was instrumental in the discovery and development of multiple

fields. Gough is currently in contract business development roles with two different O&G service companies: Cordax, an innovative open hole logging company and MadMackenzie Solutions an environmentally friendly EOR start-up company. These positions allow him to share his geologic knowledge, advising clients in best practices and have given him the opportunity to expand his knowledge of basins in the US and globally. William's varied experience has given him a well-rounded knowledge of not only the science but also the business side of the industry. William holds a degree in Geology from Texas A&M University 2004, and continues his education through industry forums, talks, conferences and short courses.

It would be an honor and privilege to serve the HGS as a member of the AAPG House of Delegates. Over the past couple years, I been very active in HGS, AAPG, and multiple other organizations in the Gulf Coast area. These organizations have been instrumental in keeping me in tune with this ever-evolving industry, increasing my geologic knowledge and providing unparalleled networking. If elected, it would be my pleasure to give back to the geoscience community, championing continuing education for members and assistance for those in transition. ■



### Clint L. Hipke

I am currently a Consulting Geologist with 44 years of experience in exploration and development of hydrocarbons. Areas of expertise include Texas and Louisiana Gulf Coast, East Texas, North Louisiana, Mississippi, Montana, Wyoming, and Colorado. I also have experience in several

other sedimentary basins in North America and in New Zealand. My affiliations include HGS (since 1975), AAPG, GSH, RMAG, TBPG, WPG. ■



### Barry Katz

Barry Katz received his BS in geology from Brooklyn College in 1974 and his PhD from the University of Miami in 1979 in marine geology and geophysics. After receiving his doctorate he joined Texaco's Bellaire Research Center where he held numerous technical and supervisory

positions. He continued with Chevron after the merger in 2001, where he has been part of Chevron's Energy Technology Company. He currently serves as a team leader and Chevron Fellow. His work has focused on the applications of geochemistry to petroleum exploration and development. He has been engaged in both research and technical support, working in approximately 50 basins around the world. Barry has authored more than 75 peer-reviewed papers. He is ending his term as Elected Editor of the AAPG *Bulletin* and is an Associate Editor for *Marine and Petroleum Geology*, *Journal of Petroleum Science and Engineering*, *Arabian Journal Geological Sciences*, and the *Journal of Natural Gas Geoscience*. He is also a member of the editorial board of *Acta Geologica Sinica*. He was named an Honorary AAPG Member in 2011 and is completing his second term as a member of the AAPG House of Delegates. He has served as Elected Editor and President of the Houston Geological Society. He has also been an AAPG Distinguished Lecturer. ■



### Sean Kimiagar

Sean is a Geologist with experience working on conventional and unconventional reservoirs domestically in the United States and internationally, including projects in offshore Brazil, Australia, Utica, Marcellus and Gulf of Mexico. Prior to joining Detring

Energy Advisors, Sean has worked for BHP Billiton Petroleum, Halliburton and C&C Reservoirs, where he held a number of technical and Business Development positions. Sean received his Masters degree in Petroleum Geology from University of Texas at Arlington, and is an active member of AAPG and Houston Geological Society. ■



### Rosemary Laidacker

Ms. Laidacker is an independent geophysical contractor, most recently for Chevron. She has specialized in oil and gas prospect generation and development in the Gulf Coast both onshore and offshore, and has worked on many discoveries in Texas and Louisiana. She started her career with

Cities Service Oil and spent time at Total Petroleum where she was District Geophysicist. She obtained a BS degree in Mathematics

and Physics at Lamar University and a Master of Science degree in Geology/Geophysics from the University of Houston.

Rosemary is a long-time member of the AAPG and has been an active volunteer for the HGS. She has already served two terms a member of the AAPG House of Delegates. As Chairman of the Continuing Education Committee she has won the HGS President's Award in 2012 and the Rising Star Award in 2011. In 2018 she was awarded the HGS President's Distinguished Service Award for her additional volunteer's activities serving on the HGS Website, Flood, Communications and Social Media Committees. Ms. Laidacker was Co-Field Trip leader for the HGS Sponsored Spindletop Field Trips for the 2014 and 2018 AAPG Conventions held in Houston. She is also a member of the SEG and local GSH, and an AAPG Certified Petroleum Geophysicist.

As a member of the AAPG House of Delegates (HoD), I will actively work to increase the local HGS membership and the AAPG membership. I enjoy being involved with the HGS and AAPG organizations and would like to continue my involvement so I can contribute more to both. I want to represent the HGS local needs as member of the AAPG House of Delegates. I ask for your support. ■



### Casey Langdon

Casey is a young, motivated, and enthusiastic geoscientist with a desire to learn more about the geology/geophysics of mature and emerging petroleum plays. He holds a B.S. in Geology from West Virginia University (2014) and a M.S. in Geoscience from Fort Hays State University (2016).

Casey has shown leadership 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), Chairman of the HGS neoGeos (2018-Present), and committee member of the AAPG Student Expo Committee (2017-Present). He has also received several awards and honors for his research in seismic interpretation and student leadership.

Currently, Casey works for Concho Resources in the Houston office. His work focuses on developing analytics solutions to support the geoscience A&D team. Previously, he worked at IHS Markit (2016-2019) 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.

Since starting my career in 2016 during a major downturn, I have experienced how much professional membership and

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participation can benefit one's career path. The opportunities at AAPG events like the Student Expo, networking events, and ACE provides students and young professionals a platform to pursue a passion and fulfilling career in the geosciences. I am delighted to have been asked to stand for election for AAPG House of Delegates (HoD). My past volunteer experience will help bring ideas to support and promote YP membership and bring new geoscientists into the petroleum geoscience career. ■



### Bill Matthews

Bill Matthews has over 25 years of experience in oil and gas from technology adoption and consulting to hands-on expertise in the search for new reserves. He has held senior leadership positions at both Schlumberger and Landmark/Halliburton resulting in unique perspectives and in-depth knowledge of leading E&P technologies that reduce risk. Currently, he consults for technology providers including Gartner and data management startups.

Previously he was Vice President, Technical Services at Drillinginfo - a leading SaaS and data analytics company for the energy industry. Prior to that, Bill was the global marketing director for Schlumberger's software division for all geoscience and reservoir engineering applications including Petrel. Bill then moved from this position to lead Schlumberger/WesternGeco's exploration consulting services for North America. In this and similar earlier global roles at Halliburton, he managed consulting projects that ranged from technology reconciliation to E&P advisory for prospective basins for both conventional and unconventional reservoirs.

Bill began his career as an interpreter and joint ventures for renowned wildcatter Moncrief Oil for ultra-deep prospects and drilling wells from the Rockies to the Gulf Coast. He has a Master's in Geology from Rice University, Houston, Texas and an undergraduate degree in the same from Emory University in Atlanta, Georgia. ■



### David McGee

Dave McGee is a highly experienced geoscience consultant with fifty years of international E&P activities for worldwide majors and independent operators. Technical background includes Operation Geologist and wellsite management for operators and OBO partners in deep-shelf and deepwater basins, project economic evaluation for asset acquisitions/dispositions and evaluation of appraisal/development programs. Expertise and experience include

projects in all Gulf of Mexico regions, Rocky Mountains, West Coast, Caribbean basins, South America and West Africa. After his BS degree and graduate studies at University of Houston, He has been a geologist, supervisor and advisor for Superior, Mobil, RPS Energy, and Cobalt, and is currently a consultant with Resource Development Investigations. ■



### Kenneth Mohn

I am grateful for the consideration as a Delegate from the Houston area. I have served in the House of Delegates as both a Delegate and an Alternate Delegate in the past. I attend most AAPG conventions and have sat on the House of Delegates for the Houston group at most of the Annual Meetings in the recent past. It would be an honor to serve as a Delegate for the AAPG. I have worked in the industry as a Geologist since 1987 (not counting the Field and Wellsite Geological work in 1982-1983). I would welcome the opportunity to serve. ■



### Clint Moore

Dwight "Clint" Moore has dedicated thousands of hours to the AAPG House of Delegates during his 30 years as an AAPG delegate from Houston. Last year, Clint was awarded the "Honorary Member of the House Award", the HOD's highest award. His citationist, former AAPG President and HOD Chairman Pat Gratton wrote: "Probably no other member has had more impact on our AAPG Constitution & Bylaws (C&BL) than Clint, as he has worked every year on improving their fairness and enhancing their clarity. His HOD service is extensive, having served multiple times on the Constitution & Bylaws Committee (C&BLC) and as its Chairman, multiple times on the Credentials Committee, wrote dozens of articles for the Delegates' Voice, proposing and debating dozens of amendments on the floor, as well as counseling HOD Chairs providing guidance, history, and understanding of the C&BL. His understanding of the history, intent, content, and complexities of our C&BL, as well as Roberts Rules of Order which underpin our C&BL, is extensive."

Clint holds degrees in geology and business cum laude from Southern Methodist University, where he was designated a University Scholar. His 40 year career includes work for Anadarko Petroleum, Diamond Shamrock, Murphy Oil, ION Geophysical, DiamondStar, and now GulfSlope Energy, much of which has been focused on the Gulf of Mexico offshore basin. He is currently Co-Founder, Officer, & Vice-President of Geophysics, Geology, & Exploration for GulfSlope Energy (OTC-GSPE),

an offshore US Gulf of Mexico subsalt shelf-focused oil & gas exploration and production company. His career as a petroleum geoscientist includes discovering and/or developing both individually and as part of a team, more than half a billion barrels of offshore US GOM oil & gas, as well as being a pioneer in subsalt exploration & geoscience. He was Anadarko's lead subsalt exploration geologist for the 1993 subsalt Mahogany wildcat well field discovery, which produced the first subsalt oil & gas in the offshore Gulf of Mexico. ■



### Nicholas Nelson

Nicholas Nelson received his BS in Geology from Fort Lewis College in Durango, CO in 2006, and his Professional MS in Petroleum Reservoir Systems from Colorado School of Mines in 2015. For the first ten years of his career he held various operational and exploration positions in Denver, CO specializing in the rocky mountain region, but also worked the occasional Granite Wash, Eagle Ford, and Marcellus prospect. For the last four years he has been working in Houston for W.D. Von Gonten Laboratories as a Geologist/Petrographer primarily looking at Permian Basin reservoirs. In 2014 he served as Secretary on the board of directors for the Rocky Mountain Association of Geology (RMAG), as well as the AAPG Young Professional lead for the Rocky Mountain Section. He has also served as an alternate for the House of Delegates from 2015-2018. ■



### Ronald A. Nelson

Ron has worked with structural geology and fractured reservoirs for over 40 years with Amoco, BP Amoco and now Broken N Consulting, Inc. in Cat Spring, TX. He has taught over 100 industry courses on fractured reservoirs and has authored 110 publications on the subject, including two editions of a textbook entitled "Geologic Analysis of Naturally Fractured Reservoirs", and a new one called "Static Conceptual Fracture Modeling: Preparing for Simulation and Development". He has lectured on the subjects of structural geology and fractured reservoirs to Geological Societies, Universities, and National Oil Companies in over 20 countries and has been an AAPG Distinguished Lecturer twice and an SPE Distinguished Author. He has served as past President of the Houston Geological Society, past Vice President of the AAPG and Councilor at large for the Tulsa Geological Society. ■



### David Paddock

David Paddock is a scientific advisor in Schlumberger WesternGeco's North American Unconventionals Exploration team. He has consulted on dozens of unconventional development projects throughout North America as well as in South America, Europe, the Middle

East, and North Africa. A baby boomer, Dave has only had two employers, ARCo for 18 years and now Schlumberger for 18 years in their Consulting and Geophysical product lines. Dave has won Best Speaker Award at AAPG's Southwest Section meeting, has had talks selected for SEG's Best of AAPG session, and has two silver medals and two bronze medals from Schlumberger's "Performed by Schlumberger" program (an internal project success recognition program). He holds an MBA from the University of Louisiana at Lafayette and both a master of science degree in geology (with a geophysics option) and a bachelor of science degree in mathematics from Michigan State University. He is recognized by industry as the leading expert in Ant Tracking, a detailed seismic fault identification application widely utilized, particularly in the development of unconventional resource plays. David would be very pleased to serve HGS and the AAPG as an HGS representative to the AAPG House of Delegates. ■



### Robert Pledger

Over my career of almost 50 years, I have appreciated the people who have mentored me and as an active member of the HGS, have tried to give back be mentoring and volunteering my time and talent to others. Since coming to Houston in 1976, I have been active in the Houston Geological

Society, as a Director, Vice-President, Chairman and member of the Continuing Education Committee since 1988, judge for the Imperial Barrel Competition, and docent at the Houston Museum of Natural Science. I enjoy volunteering for field trips and short courses and am active in the American Association of Petroleum Geologists and the Society of Independent Professional Earth Scientists as a volunteer on numerous committees. Most recently I have been a guest speaker at Geoscience Day, sponsored by the HGS and GSH; was a field trip leader to Spindletop Field in 2014 with the AAPG, and guest speaker at several AAPG sponsored seminars.

I am currently a geological consultant engaged in prospect generation and evaluation, as well as President of Ashford Oil & Gas Company, LLC. I am formerly President of Benchmark Oil & Gas AB, a public Swedish Company and member of their Board of Directors. I have a wide range of areas of experience

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include the Gulf Coast, Alaska, West Texas, Kansas, Oklahoma, New Mexico and California as well as numerous countries internationally. I have an undergraduate degree from Lamar University in Geology and a Master's Degree in Business/Finance from the University of Dallas. I am a certified geologist by the AAPG, the AIPG and the SIPES and a Registered Professional Geoscientist with the State of Texas. I am a member of the Board of Trustees, and Chairman of the Advisory Committee for the Department of Space and Earth Sciences at Lamar University. ■



### John Pritchett

John Pritchett is the Vice President of Geosciences for Fieldwood Energy LLC. Prior to joining Fieldwood Energy Mr. Pritchett was a Board member and Vice President of Exploration and Development for Nexen U.S.A. Prior to Nexen U.S.A. he was Vice President of Exploration

at Woodside U.S.A. and BP plc. Mr. Pritchett has over 35 years of experience in upstream oil and gas exploration and development. Mr. Pritchett's career has given him the opportunity to not only lead exploration teams but also serve in roles in Strategic Planning, Organizational Development, Mergers and Acquisitions and Human Resources. Mr. Pritchett holds a Bachelor of Science degree in Marine Biology from Washington and Lee University. ■



### Barry J. Rava

Barry J. Rava has over 38 years oil and gas industry experience. He has a BS, cum laude with high honors in Geology from Hofstra University, and a MS in Planetary Geology and Geophysics from the University of Pittsburgh. He is an exploration consultant to international

companies and the independent community, a licensed geologist and geophysicist in Texas and President and founder, in 1996, of Icarus Oil and Gas, Inc.

He is VP of the Society of Independent Earth Scientists (SIPES; national) and Chairman of SIPES (Houston). Past positions: Treasurer, Geophysical Society of Houston; VP and President, Coastal Bend Geophysical Society; President, Gulf Coast Geological Library; Treasurer, Corpus Christi Geological Library; and Chairman of the Continuing Education committee, GCAGS and SIPES (Houston). He is currently a member of SIPES, SEG, AAPG, IPAA, CCGS, CBGS, HGS and GSH. He has co-authored two articles in the field of planetary geophysics and given guest lectures on the oil and gas industry. ■



### Ellya Saudale

Ellya Saudale is currently a senior geologist for Schlumberger (SLB) Western Geco and has been in SLB for more than 20 years. She has served in the HGS Education committee for many years until 2013 when she was transferred to Malaysia to join the regional Schlumberger Consulting

Group. After her return back to the states in 2015, she continued her involvement with the AAPG and HGS and served as a judge of the student posters last year. Internally within SLB, she is an active leader of the SLB Geology Community since 2018 and a mentor to her SLB colleagues. She has been involved in diverse technical projects including unconventional resource plays (Permian, Eagle Ford, Haynesville and others), shelf and deep water of the Gulf of Mexico, Myanmar, Malaysia, and Mexico offshore. Her unique background in both geology and petroleum engineering was instrumental in achieving the projects' successful execution and driving expected results. ■



### Scott Sechrist

For four decades Scott Sechrist has served as a field, interpretation, consulting, and supervising geophysicist in several organizations. Memberships include AAPG (CP Geologist #6065, CP Geophysicist #90), SEG, SIPES, GSH, and HGS. Activities have included SEG/OTC oral and poster

judge, SIPES continuing education, GSH electronic publications and publicity committees, and HGS Director and Shrimp Peel Committee. Since 1978 he has served several companies as geophysicist, geophysical consultant, and chief geophysicist and as a consultant.

I am honored to have been asked to stand for election to represent Houston in the AAPG House of Delegates. For more than 40 years, I have admired the dedication of AAPG, members, officers, directors and employees to provide the very best in educational and professional development opportunities to the geosciences community. My participation in the AAPG, HGS and other local and national professional societies has provided lifelong friendships and continuing professional education. Representing my friends, colleagues and the entire AAPG membership through service in the House of Delegates is an important responsibility. It would be an honor for me to serve as a new member of the AAPG House of Delegates from the HGS ■



### Gary Scott Steffens

Gary Scott Steffens is a retired senior geological advisor for Shell Exploration & Production Company. His 36 years of industry experience includes most of the world's oceans and all of the continents except Antarctica. Gary also built and directed numerous exploration research

programs and is recognized as a marine deep-water exploration expert through his international technical publications. Gary was also an energy spokesperson for Shell and the Industry, engaging and working with federal congressional members, DOD Pentagon directors, White House advisors, DOI/DOE regulators, governors, state legislators, and numerous county/city officials. In retirement, Gary splits his time between Houston, Texas and Gunnison, Colorado. He is an adjunct professor at Western Colorado University, teaching in both the Geology and Business Energy Management Schools. He also plans and logs water wells for the Gunnison community. ■



### Neil M. Sullivan

Given the notable quality of the candidates standing for election to the AAPG House of Delegates, it is truly an honor to have this potential opportunity to represent and serve the HGS membership. I would very much like to apply my diverse experience representing my friends, colleagues, and

fellow members in the many important issues now facing our profession. I have a particular interest in promoting economically accessible continuing education activities for our membership.

An AAPG member since 1972, as well as a Certified Petroleum Geologist, I am also a member of the local SIPES chapter. Joining SEPM, also in 1972, I served in numerous positions including as a past President of the Permian Basin chapter.

With a BS in Geology from Dickinson College, I started my career as an Offshore Geologist at Texaco. I have had the good fortune to work as a Geologist or manager for Conoco, Anadarko, Valero, Gulf Keystone and Sylvan Energy covering most of the petroleum basins in the U.S. as well as numerous foreign basins. In 1994, I received my Master's Degree in Geology from Tulane University followed by post-graduate work in Geology at the University of South Carolina while working at the Earth Sciences and Resources Institute. ■



### John Tackett

John Tackett is currently the Geoscience Manager for University Lands, where he oversees the geoscience activity across 2.1 million acres of Permanent University Fund (PUF) lands in West Texas. The PUF is the nation's largest public higher education endowment and benefits health

and educational institutions across The University of Texas and the Texas A&M University systems. University Lands' focus is on generating surface and mineral revenue streams through exceptional stewardship of the assets.

After beginning his career with Devon Energy in Houston as a geoscientist working exploration of the deep-water South China Sea, John moved to his first role in the Permian Basin working as a development geologist for Devon's SE New Mexico team. In 2011, John transitioned to Oxy to work the Vicksburg and Frio tight-gas sands in South Texas. After some time enjoying the exceptional structural and stratigraphic nature of the Vicksburg Trend, John moved to Oxy's Permian Exploitation team where he worked until presented the opportunity to join University Lands' new Houston-based development team in 2015.

John is active in various professional organizations, including the American Association of Petroleum Geologists and the Houston Geologic Society. He graduated from the University of North Texas with a BSc in Geography (Geology minor) in 2005, and in 2008 received his MSc in Geology from the Boone Pickens School of Geology at Oklahoma State University. ■



### Justin Vandenbrink

Following graduation from the University of British Columbia over two decades ago, Justin has worked in petroleum and mining exploration, and provision of wellsite services, personnel, and well information in several organizations. He is a member of HGS, AAPG, APEGA, CSPG, SEG, and

SEPM. An HGS member since 2008, his activities have included HGS/PESGB Africa Conference Committee, International Explorationists Chair, Director, and Vice-President, and received the Rising Star, Chairman's, and President Awards. Prior Delegate service has included Houston Delegates Foreman, Honors and Awards Committee, and Secretary/Editor-Delegates' Voice.

I am honored to be nominated as a Delegate for the AAPG's House of Delegates. I have been based in Houston for over a decade now and in that time have spent much of it volunteering for the AAPG. Previous roles have seen me working as a Delegate

AAPG House of Delegates Candidates continued on page 40

## AAPG House of Delegates Candidates continued from page 39

for the HOD the past 4 years and serving as the Secretary/Editor for the HOD in 2017/18. ■

### Nicole Villarreal



Nicole Villarreal is a geoscientist at ExxonMobil in Houston, TX, and currently works development in the Appalachian Basin for the XTO Energy division. She played ice hockey and field hockey in college and studied abroad in Russia in high school and college. It was while studying for dual degrees in International Studies and Russian

at Colby College in Waterville, ME, that she realized her love for geology. She continued her education at the University of Houston and went on to receive a BS and MS in Geology, with an emphasis on carbonate deposition and diagenesis. While a graduate student at the University of Houston, she became a member of AAPG and HGS and taught Paleobiology and Sedimentary Petrography lab courses. She is currently on the committee for the Calvert Foundation that provides scholarships for graduate geoscience students. Previously, she worked for Southwestern Energy, where she had the opportunity to rotate through exploration and production while receiving exposure to various basins across the United States.

I am honored to have been asked to serve as a candidate for the AAPG House of Delegates. As a recent graduate and young professional, I care deeply for the future of our profession and believe that our position as geoscientists is critical to a successful path forward for our nation as a world leader in energy production. Having been a member of AAPG and HGS since my time at the University of Houston, I hope to give back to the organizations that afforded me opportunities to grow both individually and professionally and to assist future geoscientists as they enter the oil and gas industry. ■

### Michael Vosbein

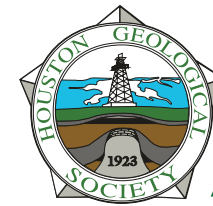
No bio or photo received.



### Patricia E. Walker

Originally from Tulsa, Oklahoma but have now lived in Houston, Texas for the last 32 years, and still an Okie at heart. After graduating from Oklahoma State University with BS and MS degrees, joined Exxon Production as a production geologist with responsibilities for field mapping, reservoir

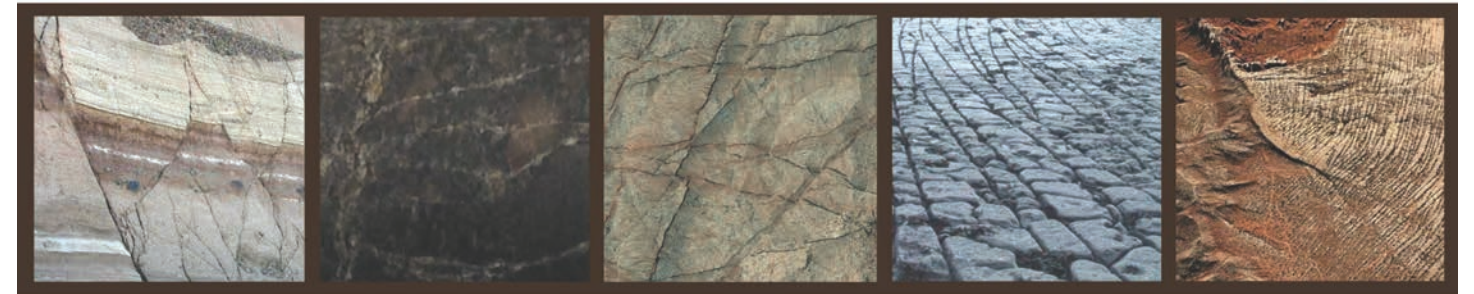
characterization, and infill drilling for several fields in the Texas Gulf Coast. Then moved into ExxonMobil Exploration in 1991 with assignments in Alaska & South American working regional scale to prospect scale opportunity generation. My career was punctuated while balancing career and family, I worked part time as a geologic consultant focused on asset evaluations for independent oil companies and for ExxonMobil on regional projects in the Middle East, North Africa, Mexico, Russia and Australia. I returned to ExxonMobil Exploration on a full-time basis and worked multiple assignments in a diversity of geologic settings in both a technical contributor role and a management role. I was named to a Senior Technical Consultant role in the Exploration Company and later promoted to Chief Geoscientist. In this role I serve as a technical advisor to Senior Leadership on global ExxonMobil activities. I am married to another geoscientist at ExxonMobil and have two children – Amanda (26) and Nathan (23). I am an Active member in the AAPG, member of Houston Geologic Society, and member of Executive Advisory board for the OSU Boone Pickens School of Geology. ■



# Applied Geoscience Conference

November 6-7, 2019

SOUTHWESTERN ENERGY • 10000 Energy Drive • Spring, TX 77389



## Applied Geomechanics: Through the Life Cycle of the Field

Day 1 AM Session 1 – Accessing Targets Faster with Safer Wellbores

Day 1 PM Session 2 – Optimizing Completion Footprint and Stimulations Design

Day 2 AM Session 3 – Post Stimulation Diagnostics and Monitoring

Day 2 PM Session 4 – Extending the Life of the Field: Production, Refracturing, and EOR

University Poster Session both days.

*This Fourth Applied Geoscience Geomechanics Conference (since 2013) by an industry expert committee provides the highest value through invited subject matter experts.*

### Cost structure

Early Bird: April 1 – June 30, 2019

HGS member \$300.00

Non-member \$375.00

General registration: July 1 – November 5, 2019

HGS member \$400.00

Non-member \$455.00

HGS student member \$75.00

Note: Unemployed HGS members contact the office for discount

For more information please visit [www.hgs.org](http://www.hgs.org) or contact the HGS office: [office@hgs.org](mailto:office@hgs.org)



## HGS Welcomes New Members

### New Members Effective April 2019

#### ACTIVE MEMBERS

Jennifer Hoyt  
Casey Langdon  
Catalina Luneburg  
Dan Meehan  
Brad Moon

Julieta Quijada

Patricia Walker

Danica Dralus

John Yantosca

#### ASSOCIATE MEMBERS

Chad Beck

Corey Kilburn

#### EMERITUS MEMBER

Gilberto Royo

#### STUDENT MEMBERS

Jordan Dickinson

Reed Rightmer

Jing Zhang

Benjamin Taylor-Hillie

John Scherer

*Welcome New Members*



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Brand your company with the premier event designed for integrated asset teams.

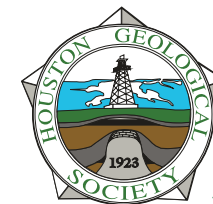
**93%** Rated the overall quality of the technical presentations as good or exceptional compared to other industry conferences

To Sponsor, please contact Andrea Peoples  
office@hgs.org or 713.463.9476

Opportunities	Platinum Sponsors \$10,000	Gold Sponsors \$5,000	Silver Sponsors \$2,500	Bronze Sponsors \$1,000
Logo on Sponsorship Banners	✓	✓	✓	✓
Advertisement in Program Book	Full Page	1/2 Page	1/4 Page	1/8 Page
Complimentary Full Registrations	6	3	2	1
Complimentary Vendor Booth	✓	✓		
Recognition by HGS in Program Book, onsite signage, post show highlights and thank you in the HGS <i>Bulletin</i>	✓	✓	✓	✓
Recognition in Conference Announcements and Website (logo with hyperlink)	✓	✓	✓	✓

**91%** Rated the talks as applicable to their every day work

For more information and to register please visit: [www.hgs.org](http://www.hgs.org)



# Applied Geoscience Conference

November 6–7, 2019

## Applied Geomechanics: Through the Life Cycle of the Field

To sponsor, please indicate your sponsorship level \_\_\_\_\_ with payment (payable to HGS) to: HGS, 14811 St. Mary's Lane, Ste. #250 - Houston, Texas 77079 - Attn: Andrea Peoples, or you can email your sponsorship form to office@hgs.org.

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Company \_\_\_\_\_ Email \_\_\_\_\_

Billing Address \_\_\_\_\_

Credit Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_ Sec. Code# \_\_\_\_\_

Approved by \_\_\_\_\_ Date \_\_\_\_\_

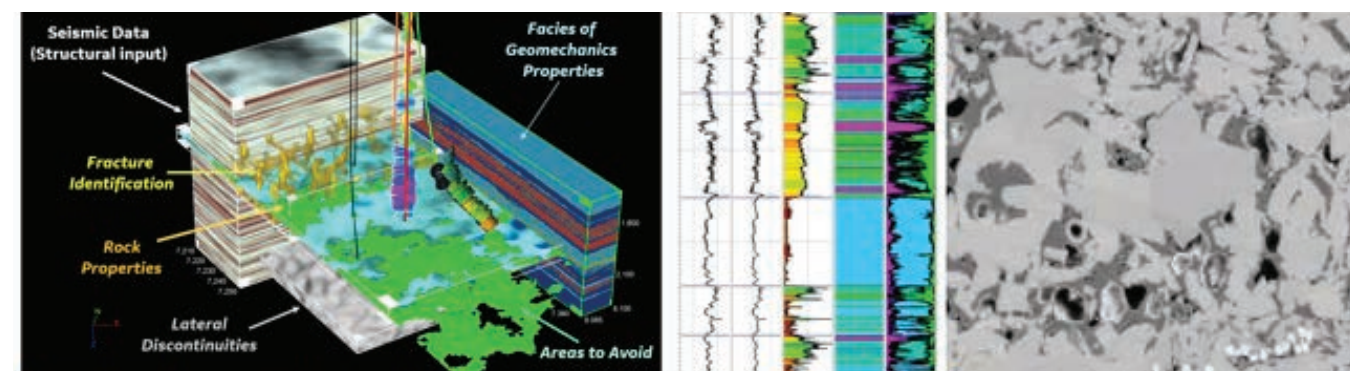
If you would like HGS to invoice your sponsorship please complete the section below:

Invoicing Address \_\_\_\_\_

Accounting Contact Name \_\_\_\_\_ Contact Email Address \_\_\_\_\_

Special Billing Codes \_\_\_\_\_ Approved by \_\_\_\_\_ Date \_\_\_\_\_

Please email your company logo to office@hgs.org. Note: Please send only company logos at 300+dpi

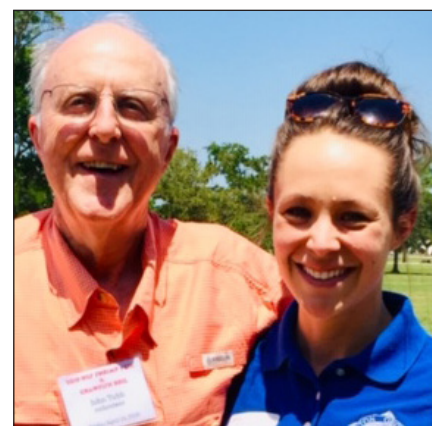


For more information please visit: [www.hgs.org](http://www.hgs.org)

# HGS 2019 Shrimp Peel & Crawfish Boil

I wanted to take a minute to thank all the generous sponsors and many volunteers that helped HGS put on this annual event. Every year it is getting larger and larger. Music and mudbugs all topped off with beer and beautiful weather. I could not have asked for more!

Andrea (Andi) Peoples  
HGS Office Director  
Shrimp Boil Committee  
Chairman



# HGS Grand Canyon Field Trip

Dates: June 7-15, 2020

Cost: \$3700/person



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. ■





## 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 (February 2019) House Subcommittee Holds Hearing on Spending Restrictions During Shutdown**

On February 6, 2019 the House Appropriations Subcommittee on Interior, Environment and Related Agencies held its first hearing of the 116th Congress to review how the recent government shutdown affected agency spending.

According to a report from the Congressional Budget Office (CBO), the five-week shutdown delayed approximately \$18 billion in federal spending and suspended some federal services. As a result of this reduced economic activity, CBO estimates a loss of about \$3 billion (0.02 percent) of gross domestic product impacting the overall U.S. economy, with much more significant underlying effects on individual businesses and workers.

Subcommittee Chair Betty McCollum (D-MN) began the hearing by emphasizing the importance of Congress protecting federal agencies, and reviewing the legal framework surrounding the executive branch's decision to continue operating certain agencies, like the National Park Service (NPS), in the absence of appropriations during a shutdown.

Sam Berger, who works for the Center for American Progress, testified that the Interior Department's decision to keep the parks open with insufficient staffing resulted in an accumulation of trash and human waste, safety risks to visitors, and damage to the parks themselves.

Other agencies that experienced a lapse in funding, such as the U.S. Department of Agriculture (USDA), the National Institute of Standards and Technology (NIST), the National Oceanic and Atmospheric Administration (NOAA), the National Science Foundation (NSF), and the U.S. Geological Survey (USGS), did not continue to operate as NPS did during the shutdown.

Although January is ordinarily a crucial time for some of those agencies (e.g., NSF) to consider scientists' grant proposals, they could not provide new funding or review new grant proposals for the duration of the shutdown. As a result, many current and future research projects were put on hold, impacting data collection, research decisions, student funding opportunities, and other agency operations. According to Benjamin Corb, director of public affairs for the American Society for Biochemistry and Molecular Biology, NSF had provided \$42 million of funding by January 8, 2018, in stark contrast to \$0 allocated around the same time in 2019.

Christine McEntee, executive director of the American Geophysical Union, argued that the shutdown put American lives and scientific progress at risk, since it stalled much of the ongoing scientific research on extreme weather events and natural disasters, thus creating gaps in what would otherwise have been continuous data.

After the shutdown, many agencies posted updates regarding the resumption of their operations following the shutdown. All federal agencies are now funded until September 30, 2019—the end of fiscal year 2019.

### **House Holds a Series of Climate Hearings**

House Democrats held a series of hearings throughout this month February to highlight the scientific evidence and impacts of climate change. Beginning on February 6, both the House Natural Resources Committee and the Energy and Commerce Subcommittee on Environment and Climate Change held simultaneous hearings on the societal impacts of climate change and the potential adaptation and mitigation strategies for policymakers to help address the issue.

Chairman Raúl Grijalva launched the Natural Resources Committee hearing with a call for action, emphasizing that "climate change is real...Every day we fail to act increases the costs of addressing this crisis for future generations." The relatively large panel of nine witnesses at this hearing relayed a conclusive

agreement: climate change is a pressing issue and needs to be addressed. Massachusetts Governor Charles D. Baker, one of the witnesses on the panel, noted that "in Massachusetts climate change is not a partisan issue – while there may sometimes be disagreement on specific policies, we understand the science and we know the impacts are real."

At the Energy and Commerce Subcommittee hearing, Chairman Frank Pallone stated that the purpose of dedicating his committee's first hearing to climate issues was because "we are feeling its effects now, and the influence of unchecked climate change is becoming more obvious every year." Throughout the hearing, witnesses promoted the economic benefits of combating climate change. Michael Williams, deputy director of the BlueGreen Alliance, said that "Americans don't have to choose between a good job and a clean environment—or a safe climate—we can and must have both." Williams touted the Buy Clean California Act, a state incentive program that became law in 2017, as an example of how the government can help to support jobs as well as a healthy environment by creating additional motivation for manufacturing suppliers to reduce their carbon emissions.

The following week, the Natural Resources Subcommittee on Energy and Mineral Resources also held a climate-related hearing about preparing for the energy transition, and the House Science, Space, and Technology Committee held another hearing on the state of climate science.

As lawmakers pushed for action on the contentious Green New Deal proposal in the House (H. Res.109), these climate hearings played out as a strategic move by Democrats to press for more vigorous action on climate change. The Green New Deal resolution, sponsored by Representative Alexandria Ocasio-Cortez (D-NY-14), proposes an ambitious approach to dealing with climate change through a 10-year national mobilization effort. Critics emphasize the vagueness of the resolution, and Dr. Joseph R. Mason from Louisiana State University testified at the Natural Resources Subcommittee hearing that it neglects the increased concentration of pollutants other than carbon dioxide, referring to toxic materials such as heavy metal elements that are released into the atmosphere from rechargeable battery production.

The House continued to showcase its focus on climate change with six committees holding additional hearings during the last week of February.

### **Lawmakers Introduce Bipartisan Carbon Capture Bills**

Two bipartisan carbon capture bills were introduced in the Senate on February 7, 2019.

The Carbon Capture Modernization Act (S. 407) was introduced by Senator John Hoeven (R-ND) to modify the existing tax credit for investment in clean coal facilities so that it would more effectively encourage the use of carbon capture and sequestration technologies.

Senator Hoeven shared a compilation of opinions from industry representatives highlighting the benefits of the bill. For instance, ClearPath Action Executive Director Rich Powell praised the bill, highlighting its ability as a bipartisan effort to produce sensible solutions that benefit domestic energy production while reducing emissions. In the past, other carbon capture legislative proposals have struggled to gain footing in Congress mainly due to being faulted as ineffective either for failing to provide sufficient financial incentives or neglecting to significantly cut carbon emissions.

The Utilizing Significant Emissions with Innovative Technologies (USE IT) Act (S. 383) was also introduced on the same day by Senator John Barrasso (R-WY). The USE IT Act seeks to support carbon utilization and direct air capture research. It would also facilitate federal, state, and non-governmental collaboration in the development of carbon capture, utilization, and storage projects. An identical bill (H.R. 1166) was introduced in the House on February 13, 2019 by Representative Scott Peters (D-CA-52).

If approved, the USE IT Act would create a Direct Air Capture Technology Advisory Board with expertise in climate science, physics, chemistry, biology, engineering, economics, and business management.

Senator Shelley Moore Capito (R-WV), an original cosponsor of the bill, believes that incentives are the key for building America's energy leadership and investing in new ways to use our energy resources.

### **Public Lands Package Passes the House**

The House and Senate overwhelmingly passed a bipartisan package of more than one hundred public lands, natural resources, and water bills this month.

The public lands package, originally titled the Natural Resources Management Act (S. 47), was introduced in January 2019 by Senator Lisa Murkowski (R-AK) and placed directly on the Senate calendar for expedited consideration.

The lands package includes measures to improve the nation's existing volcano monitoring network, reauthorize the National Cooperative Geologic Mapping Program (NCGMP), and permanently reauthorize the Land and Water Conservation Fund (LWCF). It also establishes or expands several national monuments and designates more than 1.3 million acres of new wilderness area in the U.S.

The Senate passed S.47 on February 12, 2019 by a vote of 92-8, followed by the House on February 26 by a vote of 363-62. Shortly after the House passed the bill, Democratic leaders renamed it the John D. Dingell Jr. Conservation, Management and Recreation Act, honoring the late Michigan Democrat who died earlier this month and helped shepherd major environmental legislation into law during his career. ■

1- 2 OCTOBER 2019 | OLYMPIA LONDON



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STRONGER  
BETTER

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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  
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**HEADLINE**

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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

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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.

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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!

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

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#### 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
Note pads	£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 you 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

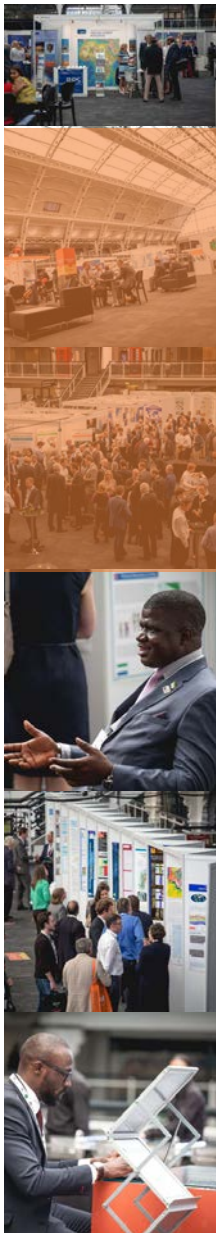
We're committed to helping you make your African E&P Conference 2019 experience as profitable and productive to your business as possible. We will be sending all exhibitors, a copy of the exhibitor marketing toolkit - This pack is intended to act as a helpful checklist and guidelines to support exhibitors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

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 2 x spotlights  
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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**

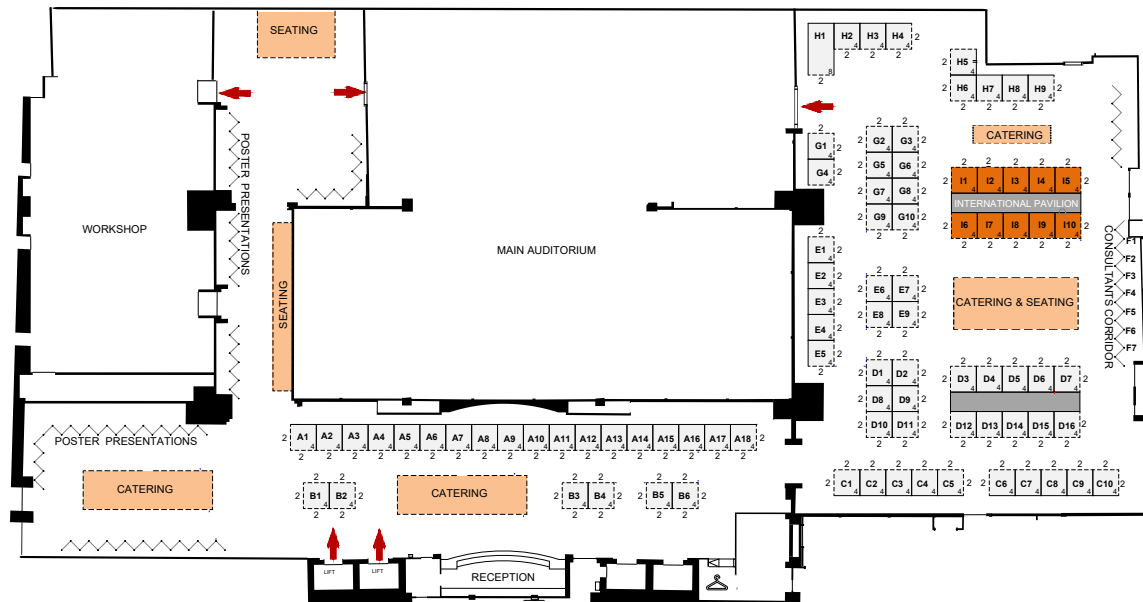
Two display boards  
 Facia board  
 1 x spotlight

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. 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 vendorcorner@hgs.org.	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. \_\_\_\_\_

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**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)

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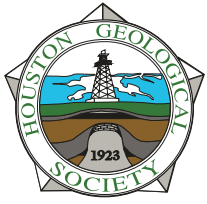
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