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
Brazil’s prolific plays are revealed with reliable images created using advanced processing techniques. PGS has over 20 years’ experience in the area and up-to-date coverage including new acquisition and high-quality reprocessing.

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High-quality reprocessing.
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 valuable and promising contributions to the enhancement and success of 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, Orthocerus 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 Sacry. This mineral is an antimonide sulfide (Sb253). Our ancestors would crush this mineral and mix it with oil to make the earliest known eye makeup. 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 Protorecorssia stromatolite fossil from the Bitter Springs Formation, Alice Springs, Australia. This is one of the oldest fossils found. The largest/highest Rock Award went to President Ken Nemerth 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 makeing, HGS@gmail.com.
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 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.

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 co-worker 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 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 sediments 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 allochthonous 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 TansuXite Fields, which have now produced over 100 mmbc of oil to date. Since the 350 to 450 feet water depth of the outer shelf was much shallower than deepwater, the reservoirs 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, Taia, 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, Taia 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.
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".
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

For directions to the club, visit www.greaterhoustongunclub.com

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

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

To pay by credit card, please call the HGS office: (713) 463-9476.

Name: ____________________________________   Company: _____________________
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!
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.

New tools for new challenges

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 Pre-registered 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.
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.

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.

As 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 grown 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.

Steven Follmer
University of Houston Clear Lake
Master’s Student

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.
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 rations over time
- Evolution of well design (lateral length, completion intensity) and correlation to productivity
- Competitive landscape – majors, independents and privates

Oil and Gas Records in 2018

Raoul LeBlanc
IHS Markit

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 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.

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 General Dinner Meeting

Monday, May 13, 2019

Live Oak Room • Norris Conference Center • 416 Town and Country Blvd #210
Social Hour 5:45–6:45 p.m.
Dinner 6:45–7:45 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.
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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 depositional systems, and source-to-sink sediment dispersal. We used 3D seismic data from Fairfield Geotechnologies and log data of Brushy Canyon Formation deepwater channel deposits, northern Delaware basin, to address these questions. We interpret an overall step back of depositional environments, from large, low sinuosity, confined, proximal basin-floor channel complexes to smaller, more laterally extensive, distal distributary channel deposits organized in lobate patterns; this evolution is consistent with some interpretations of Brushy Canyon Formation outcrops. Basin-floor channels are much lower sinuosity than those on continental slopes, which reflect short-lived channels on the basin floor. A stratigraphic forward model of channel meandering illustrates the evolution of channels from low-sinuosity, short-lived channels to more sinuous, longer-lived ones. Potential controls on channel longevity include 1) over spilling sediment-gravity flows promoting avulsions, and 2) external changes in sediment supply to the system promoting depositional-system shutdown and channel abandonment. The 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."

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: $55 Pre-registered members; $60 non-members/walk-ups
To guarantee a seat, pre-register on the HGS website or 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 Guest Night

Saturday June 8, 2019
Houston Museum of Natural Science
Adults $60
Children $30

Evening Includes:
Two free Planetarium Shows
Buffet Dinner
Guest Speaker
Spread the word!!!
Sponsorship Opportunities Available
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 tracts 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/ky, 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 downdip, 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 stratigraphic 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. III

Biographical Sketch
Kevin Bohacs ScD FGSA FGS FRGS 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

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 to 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.
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<td>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. 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, please contact 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. No-shows will be billed.</td>
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<td>“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 18</td>
<td>&quot;Steven Follmer, Page 12&quot;</td>
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HGS General Luncheon Meeting

*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

HGS Environmental & Engineering Dinner Meeting

*Steven Follmer, Page 12*

HGS Board Meeting

"Oil and Gas Records in 2018,“ Raoul LeBlanc

HGS Northsiders Luncheon Meeting

"Sandy Building Blocks of Basin-Floor Submarine-Rim Reservoirs, Low-Sinuosity Deepwater Channel Deposits, Permian Basin," Dr. Jacob Covault, Page 16

HGS General Luncheon Meeting

"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 18

Members Pre-registered Prices:

- Dinner Meeting members: $40
- Emertus/Honorary members: $40
- Student members: $10
- Nonmembers & walk-ins: $45
- Except Emertus & Eng.: $30
- Nonmembers & walk-ins: $35
- Emertus/Honorary members: $15
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

Presidents-elect (two candidates):

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

Vice President (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
I have 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)
I was an integral part of the company’s validation period that lead to the commercial launch of our product line and subsequent acquisition to Halliburton. Currently, he works at TGS in the capacity of sales and 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,

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 B-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 offshore Gulf Coast and Permain 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
Geophysical Society of Houston – Electronic Publications, Publicity Committee

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
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.

Experience
1997-2000 Systems Engineer, CompuCam Systems
2001-2003 Transportation Engineer, Whbur 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

Tami B. Shannon

Education
- Texas A&M University - Corpus Christi - Master of Science Degree, Environmental Science, 2007
- Winnipeg State University - Bachelor of Science Degree, Hydrogeology, 1997

Experience
- 1997-2000 Systems Engineer, CompuCam Systems
- 2001-2003 Transportation Engineer, Whbur 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
- 2017-CURRENT International Appraisal Data Lead, Oxy, Inc.

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

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.
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 grandchildren.

Leadership and Advisory Roles

2003-2004
Chairman, AAPG Unconventional Gas Research Group

2005
Co-chair, AAPG Vul, 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 Natural Gas Alliance (ANGA), Houston, Texas

2011-2013
Member, U.S. DOE Unconventional Resources Technology Advisory Committee

2011-2015
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

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 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 Petroleum Institute; the International Energy Agency; the International Energy Agency; the International Energy Agency.

Business Skills: data rooms, technical committee meetings with partners & JV

Play Based Exploration, 2D & 3D seismic interpretation, Lower 48 Unconventionals

Passionate Geologist: expertise in sedimentary geology, salt tectonics, deep-water exploration

Statement

I am very honored to have been nominated for a position on the HGS Executive Board 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 personal and professionally. 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.
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
CIG Robertson
2010 – 2015, Marketing Geologist
2015 – 2017, Regional Technical Manager
2018 – today, Business Development Manager

Professional Affiliations
Houston Geological Society
Geophysical Society of Houston
Houston Geological Society

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.

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

Cerid Davies—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
Overview 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 SetiWorks, GeoQuest BSSX, and other geoscience courses, and performed UNIX systems administration for GITC program and business model that became template used by AAPG in assisting other start-up training centers domestically and internationally.

Consulting Geologist and Adjunct Faculty Member Instructed Physical Geology courses, labs, and assisted with Geoscience Technology Training Center.

Midcontinental, 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

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:

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- AAPG House of Delegates and HoD Foreman, Long Service Award
- HoD Nominations and Awards committee
- DPA Editor

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)
Mikenchem Drilling Controls (1972)
Fabrication and field service of desilters, mud centrifuges, and shale shakers

Publications
Various abstracts and short articles

Houston Geological Society Activities
Bullet Committee, member and chair
AAPG Dau Committee, member and chair
Africa Conference Committee
Editor-Elect and Editor

Other Professional Activities
LA Basin Geological Society; Treasurer, Secretary, Vice-president, President
Dallas Geological Society; cofounder of the International Interest Group, Newsletter Editor
Dhalran Geoscience Society, AAPG councilor
1990-1995
AAPG, Bulletin Associate Editor

James W. Tucker — Candidate for President-elect

AAPG, Treasurer
AAPG Delegate or Alternate from Los Angeles, Dallas, Dhahran, and Houston

Memberships
HGS, AAPG, GSA, AGU, APIB YBRA, SPE

Certifications and Licenses
AAPG Certified Petroleum Geologist #3472
APIB 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...
Candidates for the 2019–2020 Executive Board (continued)

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.

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.

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.

Wayne K. Camp—Candidate for Director

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
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)


Candidates for the 2019–2020 Executive Board (continued)

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

Professional Membership

American Association of Petroleum Geologists (AAPG); Energy Mineral Division (EMID)
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

R.H. Dott, Sr. Memorial Award, Best Special Publication, 2010

American Association of Petroleum Geologists Certificate of Merit, 2018

Top 10 Hedberg Paper, 2009

American Association of Petroleum Geologists

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!

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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, as well as a manager of several 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.

Robert Archer

Robert Archer with 25 years of E&P industry experience, 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.

Jon F. Blickwede

Since entering the profession in 1981, Jon has worked as an exploration geologist for Amoco, Unocal/Chervon, and StatOil, as a manager for the coarser 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 spent a general conference for GCAGS 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.

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.

Jennifer Burton

Jennifer Burton is a 23-year professional of the oil and gas industry. She was with Amoco for 11 years and then joined Oxy in 2008. She has been with Oxy 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 two years on Anadarko’s corporate planning team. Jennifer is a licensed geologist in California and is a recognized short course instructor. She is currently the Director of Exploration of the Fine Grained, Structurally Complex Deep-Water Reservoirs of the San Joaquin Basin.

Matthew Brozowskii

Dr. Matthew Brozowskii has been an active member of the AAPG since 1992, presenting under the auspices of the Astrogeology Committee in society meetings, besides publishing in the AAPG Explorer. His love for geology has been shared with the next generation by teaching the Geology merit badge at the 2005 Scout Jamboree 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 voluntarism.

Richard Ball

Richard is a Certified Petroleum Geologist who specializes in 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) Director. 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.

Jennifer Burton

Jennifer Burton is a 23-year professional of the oil and gas industry. She was with Amoco for 11 years and then joined Oxy in 2008. She has been with Oxy 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 two years on Anadarko’s corporate planning team. Jennifer is a licensed geologist in California and is a recognized short course instructor. She is currently the Director of Exploration of the Fine Grained, Structurally Complex Deep-Water Reservoirs of the San Joaquin Basin.

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 (Hd) 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 be more active as duties are removed from them. These are difficult times for the AAPG when all hands young and old need to be more active as duties are removed from them.
increase the scope of the society. For that reason I am running for delegate again.

David Cole

David Cole graduated in 1984 with a BSc 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 Statonex 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 currently is President of Engineering and Geosciences for Black Falcon Energy, managing over 8000 non-operating W1 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), PDEG, 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 serving 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 Sabo 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 2012-2014; and many more. I have been a presenter and session judge at many conferences and workshops, and session judge at many conferences and workshops, and have been honored to serve as a member of the AAPG House of Delegates.

Craig M. Dingler

Craig is a hydrologist 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 chair 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 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

Sharma Dronamraju is a Geoscientist and Director, AKD Professional Solutions in Houston, Texas, USA. He worked for Petrobras USA, Marathon Oil, Halliburton, Statoil and Schlumberger. His experience includes field exploration, as well as SEC reserve audit preparations, interpretation, appraisal, and reservoir delineation of Lucius Field, Gulf of Mexico, Brazil. Sharma’s recent work includes Geomodeling for EOR in mature oil fields in Mesic Zone 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 (Mississippian Fm.), addressing subsurface heterogeneity of Mishrif Carbons in Southern Iraq and reservoir modeling of HPHT fields in offshore East Malaysia and Borneo, and sub-salt interpretation, appraisal, and reservoir delineation of Lucas Field, Gulf of Mexico. Sharma’s current focus is continental rift basins and their contribution to geoscience.

Sharma earned his Master’s degree 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 SEPE. He has served on many target audiences, clients, in US, Central Asia, Mexico, and Asia. HGS and AAPG Technology Workshop in U.S.
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 where she contributed to the company’s development operations in the Marcellus Shale. In 2016, she joined Swift Energy Company in Houston, Texas as the Director of Energy Technology. In 2018, she returned to Noble Energy to help support the company’s exploration efforts in the Permian Basin and other sedimentary basins in North America and New Zealand. In 2019, she joined an innovative open-hole logging company and as President, she still participates in the AAPG and SEG. These positions allow her to share her geologic knowledge, advising clients in best practices and has given her the opportunity to expand her knowledge of basins in the US and globally. Meredith’s varied experience has given her a well-rounded knowledge of not only the science but also the business side of the industry. She holds a degree in Geology from Texas A&M University 2004, and continues his education through industry forums, talks, conferences and short courses. This 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. I am currently a Consulting Geologist for Unit Petroleum Company and a Trustee Associate of the TBPG, WPG. Since starting my career in 2016 during a major downturn, I have worked on many discoveries in Texas and other sedimentary basins in North America and in New Zealand. I also have experience in several unconventional reservoirs domestically in the United States and internationally, including projects in offshore Brazil, Australia, Urca, Marcellus and Gulf of Mexico. Prior to joining Dering Enivronmental 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. 

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 Bellare 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 30 basins around the world. Barry has authored more than 75 peer-reviewed papers and book chapters. 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 the President of the Houston Geological Society. He has also been an AAPG Distinguished Lecturer. 

Casey Langdon  
Casey is a young, motivated, and passionate petroleum engineer with a desire to learn more about the geology/geophysics of mature and emerging petroleum plays. He holds B.S. in Geology from West Virginia University and a M.S. in Geoscience form 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 geoGoss (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 HIS Market (2016-2019) for the asset valuation group (Vantage) and Latin American 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
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 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 reconfiguration to E&P and 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 renowned wildcatter Moncrief Oil for ultra-deep prospects.

Ken 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. I would like to have an opportunity 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. 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 Cranton wrote: “Probably no other member has had more impact on our AAPG Constitution & Bylaws (CR&B) 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 (CR&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 CR&B. His understanding of the history, intent, content, and development of our CR&B, as well as Roberts Rules of Order which underpin our CR&B, 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, 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 WD. 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 Modelling: 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.

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 by mentoring and volunteering my time and talents 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 1998, 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 exploration and development company and member of their Board of Directors. I have a wide range of areas of experience.
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 APIU and the SITES 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 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, IPAAA, CGGS, 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.

Eilya Saudale

Eilya 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. 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 geologist, interpretation, consulting, and supervising geophysicist in several organizations. Memberships include AAPG (CP Geologist #6965, CP Geophysicist #90), SEG, SIPES, GSH, and HGS. Activities have included SEG/OTC oral and poster judge, SIPES continuing education, SEG 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, DOE/Pentagon directors, White House advisors, DOE/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 Permain Basin chapter.

With a BS in Geology from Dickinson College, I started my career as an Offshore Geologist at Texaco. I had the good fortune to work as a Geologist or manager for Monroe, Anadarko, Valero, Gulf Keystone and Sylvia 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.

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 AAPAG. Previous roles have seen me working as a Delegate
for the HOD the past 4 years and serving as the Secretary/Editor for the HROD 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.

No bio or photo received.

HGS Welcomes New Members

New Members Effective April 2019

ACTIVE MEMBERS
Julieta Quijada
Patricia Walker
Dania Drahus
John Yantosca
ASSOCIATE MEMBERS
Chad Beck
Corey Kilburn
EMERITUS MEMBER
Gilberto Rojo
STUDENT MEMBERS
Jordan Dickinson
Reed Rightmer
Jing Zhang
Benjamin Taylor-Hillie
John Scherer

Welcome New Members

Note: Unemployed HGS members contact the office for discount

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

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For more information please visit: www.hgs.org
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.

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.

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.
Government Update

The Texas Legislature is back in session. The Speaker of the House, Dade Phelan, called the session to order, and the work of the legislature began. The first order of business was the adoption of rules, and the debate on these rules was brief and to the point. The rules were adopted without amendment, and the legislative session got underway. The House and Senate both adjourned sine die on May 27, 2019, after completing their work for the session. The next legislative session is scheduled to begin on January 14, 2020.

According to the Texas Legislative Council, the 2019 legislative session was the shortest in recent history, lasting only 140 days. This was due in part to the fact that the legislature did not pass any major legislation that required the approval of both the House and Senate. The Legislature also adjourned before it could consider several important issues, including the state budget, education funding, and criminal justice reform. The legislature did pass some important bills, including a bill to increase the minimum wage, a bill to reform the criminal justice system, and a bill to expand access to mental health care. However, these bills were not as comprehensive as they could have been, and some important issues were left unaddressed.

The Texas Education Agency (TEA) released its school finance report for the 2018-2019 fiscal year. The report showed that the state's public schools received a total of $57.3 billion in state and local revenue, an increase of $3.1 billion from the previous year. The report also showed that the state's schools were meeting the needs of their students, with 89% of students meeting or exceeding state standards in reading and math.

The Texas Department of Transportation (TxDOT) released its 2018-2019 performance report. The report showed that TxDOT continued to make progress on its transportation programs, with a total of $4.4 billion in construction and operation expenditures. The report also showed that TxDOT continued to prioritize safety, with a focus on improving the state's roads and highways.

The Texas Department of State Health Services released its 2018-2019 report. The report showed that the state continued to make progress on its public health initiatives, with a focus on improving childhood immunization rates, addressing the opioid epidemic, and reducing the number of deaths from motor vehicle crashes.

The Texas Health and Human Services Commission released its 2018-2019 report. The report showed that the state continued to make progress on its efforts to improve access to health care, with a focus on increasing the number of people covered by Medicaid and improving the quality of care provided to Medicaid beneficiaries.

In other news, the Texas attorney general, Ken Paxton, announced that his office had reached an agreement with the state's largest electric utility, CenterPoint Energy, to pay $20 million in fines for violating the state's clean energy laws. The settlement comes after a six-month investigation by Paxton's office, which found that CenterPoint Energy had engaged in fraudulent activities to avoid complying with the state's clean energy standards.

The Texas area health authorities released their 2018-2019 report. The report showed that the state continued to make progress on its efforts to improve access to health care, with a focus on increasing the number of people covered by Medicaid and improving the quality of care provided to Medicaid beneficiaries.
This annual event, alternating between London and Houston, has established itself as the primary technical E&P conference and exhibition on Africa.

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

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

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

GET IN TOUCH
For more information, please get in touch with events@pesgb.org.uk or call +44 (0) 20 7408 2000

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

Contact events@pesgb.org.uk to discuss the possibilities

1-2 October 2019 | Olympia London

Africa is Back
Smarter
Stronger
Better

Getting the attention you deserve!

Reach a specific and exclusive audience by connecting with over 600 professionals actively interested in the region

Increase your visibility before an international audience

The Centre for Exhibition Industry Research (CEIR) reports that booth efficiency increases by 104% when sponsorship is included in the exhibition plan.

60% of attendees were Presidents / VP / Directors / Exploration Managers / Senior Geophysicists / Chief 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

Why Sponsor?

Registration | £4,000

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

Technical Programme | £4,000

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

Delegate Bags | £4,000

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

Abstract Volume | £4,000

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

Evening Reception | £4,000

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

Would you like to support the Africa E&P Conference in an alternative way?

Flexible and bespoke sponsorship packages are available...

接触
AfricaEP2019
@PESGB

2017 SPONSORS

WiFi | £2,000

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

Speaker Gifts | £1,000

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

Offsite Ice Breaker Drinks Reception | £3,000

This first event in the show’s calendar the Ice Breaker Drinks Reception starts the Africa Conference with a bang! 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

...its 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.

Water Coolers | £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.

Feature Areas

Seismic Theatre | £4,000

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

International Pavilion | £2,000

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

Poster Area | £2,000

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

Signage | £2,000

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

Course | £500

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

Give Something Back

Sponsored Student Places | £2,000

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

YP Networking | £500

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

Conference Materials

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

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

Exhibitor Benefits

EXHIBIT

Before

- Listing on the event exhibitor list and floorplan, both online and in upcoming PESGB magazines
- 1 LinkedIn post and 1 Twitter Post, organised by PESGB Conferences Ltd, stating your involvement in exhibiting at the event
- Access to the exhibition manual to assist your in preparing for the event
- Access to the ‘We’re Exhibiting’ banner ads for additional marketing
- Opportunity to book your space on the event exhibitor list and on the floorplan in literature and signage

During

- Complimentary access to the Conference 1 with 4sqm booth 2 with 8sqm booth
- Priority access to booking meeting rooms on-site at the event
- Lunch and refreshments provided throughout the day
- Company details in the online exhibitor guide

After

- Complimentary access to the full Africa E&P Conference 2019 delegate list
- Access to the Africa E&P Conference 2019 Post-show Report
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External 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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Complementing the outstanding technical conference, the exhibition space will feature industry operators, service companies, national oil companies and professional organisations.

SECURE YOUR BOOKING IN 4 EASY STEPS...

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

Welcome to the Africa E&P Conference 2019!

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.

FEATURE AREAS

- 4sqm | £1,600 (+VAT)
  - Includes shell scheme
  - 2 x spotlights
  - 1 x electrical socket
  - 1 x table
  - 1 x cupboard
  - 2 x chairs
  - One complimentary registration

- 8sqm | £2,500 (+VAT)
  - Includes shell scheme
  - 3 x spotlights
  - 1 x electrical socket
  - 1 x table
  - 1 x cupboard
  - 3 x chairs
  - Two complimentary registrations

CONSULTANT’S QUARTER | £700

- Two display boards
- Facia board
- 1 x spotlight
- 1 x table
- One complimentary registration

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.

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.

<table>
<thead>
<tr>
<th>Placement</th>
<th>Rate</th>
<th>Specifications/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGS Website Home Page Banner Ad</td>
<td>$800 - Monthly</td>
<td>275 x 875 pixels, homepage top banner ad. All Home Page Banner Ads rotate every 15 seconds</td>
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<td></td>
<td>$800 - 3 Months</td>
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<td></td>
<td>$800 - 6 Months</td>
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<td></td>
<td>$2800 - 12 Months</td>
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<tr>
<td>HGS Website Home Page Column Ad</td>
<td>$500 - Monthly</td>
<td>200 x 400 pixels, homepage right column ad</td>
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<td>$500 - 3 Months</td>
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<td></td>
<td>$500 - 6 Months</td>
<td></td>
</tr>
<tr>
<td>HGS Website Event Page Ad</td>
<td>$300 - 12 Months</td>
<td>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.</td>
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<td>$300 - 6 Months</td>
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<td></td>
<td>$120 - 3 Months</td>
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<tr>
<td>Geo-Jobs</td>
<td>$250</td>
<td>Company logo, company website, and company description will be highlighted on HGS Calendar website event. This is an opportunity to display company names, gain personnel exposure and hand out product information at HGS dinner meetings.</td>
</tr>
<tr>
<td>Vendor Corner</td>
<td>$250</td>
<td>*4 Pack option with a FREE bonus event for $100.00 available. Request to <a href="mailto:vendorcorner@hgs.org">vendorcorner@hgs.org</a>.</td>
</tr>
<tr>
<td>Event Short Course Calendar Ad</td>
<td>$100 - Monthly</td>
<td>An event ad posted within the HGS website calendar under the Events tab.</td>
</tr>
<tr>
<td>Bundle &amp; Save!</td>
<td></td>
<td>*30% off website ads when combined with print ads in all 10 HGS Bulletin issues.</td>
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<tr>
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Tex t publishing contract. All submissions are subject to editorial review and revision.

Photographs may be digital or hard copy. Hard copies must be printed on glossy paper with the author’s name, photo and figure number and caption on the back. Digital files must be submitted in .AI, .EPS, .PDF or .JPG format with 300-DPI or greater resolution at the printing size and be accompanied by figure captions that are linked by file name of the desired image. The images should be submitted as separate files from the text. DO NOT EMBED them into your text document; they must be saved separately. Digital images 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.

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Figsures, maps, diagrams, etc., should be digital files using Adobe Illustrator or Adobe Photoshop files should be saved and submitted as .AI, .EPS, .PDF or .PDF format. Send them as separate attachments via email or CD if they are larger than 5 MB each. A comparison of figure captions that include the file name of the desired image. DO NOT EMBED them into your text document; they must be saved separately. Digital images 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.

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