

# BULLETIN

HOUSTON GEOLOGICAL SOCIETY



## *In this issue:*

### HGS ANNUAL SCHOLARSHIP NIGHT

New Hires - Future Hires;  
Passing the Baton

### HGS VIRTUAL SHORT COURSE

Oil & Gas Exploration Methods in  
Earth's Over-Pressured  
Petroleum Systems (Multiple  
Case Studies Included)

### HGS VIRTUAL GENERAL LUNCH

Reservoir Evaluation, DRV Analysis,  
& Inter-well Communication  
Monitoring

### HGS VIRTUAL INTERNATIONAL DINNER

Oil & Gas Prices, Inflation, &  
Supply Chains: The Long  
Emergency



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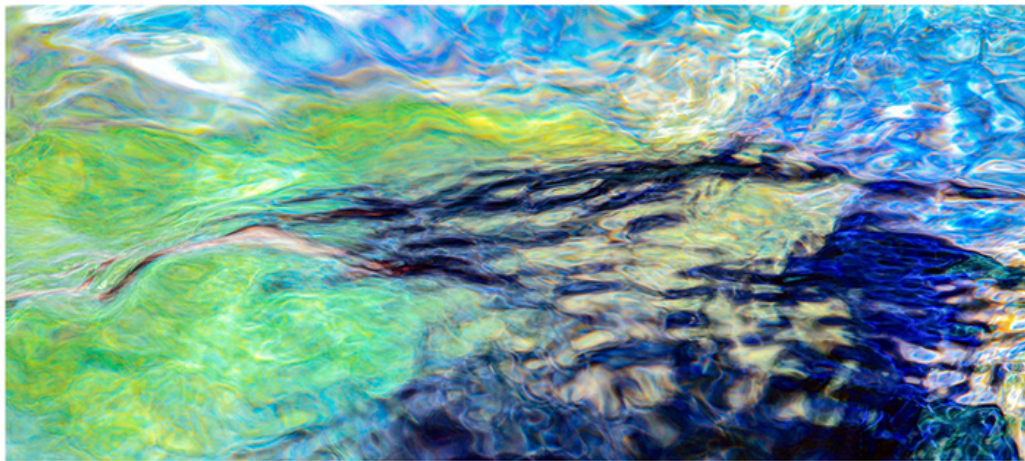
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*ON THE COVER: Early Jurassic Bridport Sandstone cliffs in West Bay, Dorset, England. Photo provided by Patty Walker.*





**Larry Garmezy** Shell Global Exploration Advisor, retired  
Invites the HGS community to his solo exhibition

**Stuck** in the backyard **March 5 - 31**  
**Opening Reception: Saturday, March 5, 12 - 8 p.m.**  
Photographs on metal and watercolor paper

**HGS Social and Closing Party,**  
**Saturday, March 26, 6 - 9 p.m.**  
**Reconnect with Houston geoscientists**  
**Live music and light refreshments**



Garmezy's work captures  
impressions or abstractions  
of the visual landscape,  
distorted by physical processes  
that create surprising patterns.



2305 Dunlavy, Houston, Tx. 77006 Mask Required  
[https://www.archwaygallery.com/store/c42/Larry\\_Garmezy](https://www.archwaygallery.com/store/c42/Larry_Garmezy)

**Archway  
Gallery**  
Art for home & office



MIKE ERPENBECK



During the course of the HGS year, you can expect to read in the President column at least once about the subject of volunteering. Elsewhere in the Bulletin, on our web page, and our social media the message comes through, too, on the importance of lending your support to the functions and activities of HGS in the form of volunteering.

Although the process of becoming an HGS volunteer may seem self-explanatory to us old hands, I can see how it might seem a bit overwhelming to a member starting out. The thought occurred to me that it wouldn't hurt to walk through the organization and process, starting at the basics.

A look on the first page of every HGS Bulletin provides a listing of all committees and Board functions within the Society. It gives a concise overview of all the activities performed within HGS in the course of a year. It may appear at first glance to be a big, disorganized mess, but there is a method to the apparent madness. All committee work is tied to the mission of HGS in reaching out, educating the wider society, and informing and inspiring our own geologic community. Some of these committees handle a one-time annual event, some are monthly, while others address the day-to-day operations of the Society. A closer look allows a grouping of the committees into scientific-oriented, socially focused, or administrative. Behind the scene, the "committee" often consists of only one person, others may look and function like a true committee (with all the leadership, complimentary skills, and social aspects of the team concept organization). From the standpoint of offering opportunity to those who desire more involvement in the largest Society of its kind in the world, there truly is something for everyone wishing to contribute.

Most professionals, we observe, are multi-faceted in their interests, passions, and curiosities. They may have achieved a measure of fulfillment in their career lives, but they may have additional interests, some of which may compliment their specialized careers. These interests take the form of hobbies, books, new learnings and skills. Often these lead to joining groups with others of like interests. As if these new interests weren't fulfilling enough, strategy experts in career development constantly remind us of the importance of widening our range of skills and experience in our professional lives. It is difficult to imagine a place that offers more such opportunity than volunteer committee and leadership work in HGS.

*"Come join us... we've got something for everyone."*

If you have some of these outside interests, if you are becoming concerned about painting yourself in a professional corner by having a too-focused specialized skill range, if you want to present yourself to the industry as a more balanced, broadly skilled job candidate, start your search for solutions within HGS.

If you are an MBA type, our Finance Committee and International Group Treasurer both show vacancies (again, page 1 in the Bulletin shows this). Let board members know that you are available.. we move our Treasurer and Treasurer-Elect positions up every year. If you are an ace number-cruncher it is the fastest route to a Board position. We are trying to re-activate the Northsiders Group (for monthly lunch meetings) and Outcrop Family Camping has been inactive a while. And these are just from the "formal" vacancies. But don't assume these are the only ones. The truth is there are many more committee needs that aren't expressed formally (committee heads are always thinking about a succession plan).

If you have an interest in computer, software, social media, web design and management, data and digital tech there are several relevant committees that can be contacted (or call Andi and Alyssa in the office). Video skills are increasingly valuable.. notify Linda Sternbach you want to join (or take over) this committee. Project management experience is gold these days. Nearly all committee work involves design and execution of projects in some capacity. Cheryl Desforges and Thom Tucker in Continuing Education are always looking for additional help and ideas. The NeoGeos are always needing new ideas and execution of those. It's a great way for early career members to jump start into HGS volunteer work. Email Casey Langdon (clangdo3@gmail.com) for info on joining the NeoGeos. Consider contacting Steve Johansen or Letha Slagle to learn about Educational Outreach opportunities (this is a very robust and rapidly expanding committee).

The small (committee-of-one) instances provide opportunities. Committee "chairs" who could use a partner, someone to bounce ideas with and perhaps groom to take over. The committee structure is dynamic and always changing. If you have an idea for a new committee, try pitching it to a board member.

I have just touched on a few examples here. HGS provides many opportunities for expanding your business skills and fulfilling your need for additional experience.

Back to that first page in the Bulletin. Contact information for all the committees and board members is shown. Do not hesitate to reach out to us. Don't count on us finding you!

Come join us... we've got something for everyone.

**Mike Erpenbeck**  
President, HGS



# FROM THE EDITOR

SCOTT SECHRIST



## Scholarship: A Lifetime of Learning

Winter winds are blowing prices higher, worldwide. As of this writing, WTI is near \$90, Brent is approaching \$95 and Natural Gas is nearly \$5.50 per MCF. Geopolitical tensions, massive winter hedging and a 'Backwardated' price curve (future year prices lower on Commodity trading forecasts) all combine to max out price volatility. And that's not even pricing in any actual military action in Eastern Europe... so here's hoping cooler heads prevail.

So, what do these turbulent times have to do with Scholarship? Plenty, as it turns out. To take honorable advantage of these rapidly transitioning times, HGS Members in-the-know realize that the 'Lifetime Learning' process always pays benefits, regardless of one's youth or seniority.

To keep our geoscience exploration skillsets at their best, we can all benefit from a review of techniques more widely used in the recent past; now applied in a current-day business model. Long time HGS Member and Author Dr. Marc Helsinger continues with his second installment of applying Sequence Stratigraphic Integration to increase the Probability of Success and Risk Reduction of drilling large, untested prospects onshore in the Gulf Coast (equally applicable worldwide). Stay tuned for his third installment next month in the March 2022 HGS Bulletin... with hopefully a new series following after!

HGS Core Values and Mission Statements aren't just dusty words on a stone (or digital) tablet...they are alive and underway every day in the HGS. Educational Outreach for K-12, College and University support and HGS Continuing Education are all the Heartbeat of HGS.

To celebrate that Spirit and Commitment, the HGS Scholarship Night will be an IN-Person event at the Norris Center next Monday Night, February 7, 2022. There will be a great panel discussion with renowned Moderators Charles Sternbach and former HGS Editor Fang Lin interviewing five successful Young Professional HGS Geoscientists sharing their experiences and future plans, in an exciting evening, culminating in the awards of HGS Undergraduate and Calvert Memorial Scholarships. See the HG Website and Calendar for more information, Moderators' and Speakers' Bios and Schedule of Events. Attendees will be emailed a certificate of continuing education for 1 professional development credit hour after the event. Sign up early and safely Social Distance with your HGS colleagues; this event is nearly SOLD OUT, so don't delay!

HGS is a Participating organization in the NAPE Summit 2022, opening registration on Monday, February 7th, with day-long short courses kicking off Tuesday February 8th, including: AAPG: Directions and Opportunities in Energy: Assets, Finances, Technology and Data, 8:30 AM-5:00 PM Wednesday February 9th NAPE Summit activities continue with the Global Business Conference and Luncheon, the NAPE/TCU Energy Innovation Case Competition, the NAPE Job Fair and the Icebreaker.

Thursday February 10th highlights the main Domestic & International Prospects, the NAPE Charities Luncheon, Renewable Energy Prospects and the Connections & Conversations: Women In Energy (Global Business Conference Badge Required).

Be sure to visit the HGS booth on the main convention floor! Sign up or renew your Membership, new Continuing Education Courses, plus more In-Person and Hybrid events throughout HGS' 99th year! HGS Past President Jim Tucker needs volunteers to spend a few hours staffing the booth all day Thursday, and half day Friday. Free passes will allow time to attend and see the exhibits before and after your booth assignment. Jim's contact info is on the HGS Website, and here: [jtuckergeo@aol.com](mailto:jtuckergeo@aol.com); 301-807-9255.

Friday February 10th  
Finishes the week focusing on the Domestic & International Prospects, the Government Affairs session and the Summit Sweepstakes Drawing.

Wednesday, February 16, 2022 the HGS Engineering and Environmental Group will host a Virtual Ethics Discussion. Our presenter will be Becky Johnson, Chairperson of the Texas Board of Professional Geoscientists. Ms. Johnson has almost 30 years of experience in domestic and international environmental management. She has been a professor at Texas Christian University (TCU) in the Department of Environmental Sciences since 2004. Ms. Johnson was appointed to the TBPG by Governor Perry in 2011, served as an officer since 2015 and was appointed Chair of the TBPG by Governor Abbott.

Ms. Johnson's Ethics Discussion abstract is coming soon. See the Bulletin, the HGS Website and the HGS Calendar for the latest updates. Attendees will be emailed a certificate of continuing education for 1 professional development credit hour after the event.

On Thursday, February 17, 2022, the Committee will present an HGS Short Course: Oil and Gas Exploration Methods in Earth's Over-Pressured Petroleum Systems (Multiple Case Studies Included). This will be a morning Virtual Event via Zoom, from 8:00am - 12:00pm CST. This 4-hour course has practical global applications for all sedimentary basins, not just those in the lower 48 states of the USA. Attendees will be emailed a Certificate of Continuing Education for 4 PDH after the event.

On that same date Thursday February 17 2022, the Luncheon will feature Shell Oil's Deepwater Mission to Mars, presented by Tyler Priest, Associate professor of History at the University of Iowa. He is a widely published scholar of energy and environmental history, with expertise in the history of offshore oil. See the HGS Website and Calendar for links to sign up on the SIPES website and see your HGS friends in the audience!



## FROM THE EDITOR ...continued

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SCOTT SECHRIST



On Wednesday February 23rd, 2022 the HGS will host the HGS Virtual General Lunch which will be held as a virtual event from 12 noon until 1:00 PM. Speaker Jana Bachleda of RevoChem LLC will present "Reservoir Evaluation, DRV Analysis, and Inter-well Communication Monitoring using Geochemical Fingerprinting Technology in

Multiple Texas Basins". This should be a high value presentation for anyone involved in low permeability geology, wellbore placement and completions.

The Science & Engineering Fair of Houston (SEFH) will be held in-person on February 26, 2022 at the George R. Brown Convention Center. If you would like to volunteer to be an HGS Special Awards judge, see the HGS Website and Calendar for details.

We truly appreciate and thank ALL our HGS Members, Volunteers and HGS educational outreach teams! Wishing Everyone the best of health and continuing success in 2022!

**HGS Editor 2021-2022**  
**Scott C. Sechrist**  
**Editor@ HGS.org**

# ***COVID-19 Policy Statement***

## ***Updated February 1, 2022***

The Houston Geological Society continues to maintain a cautious approach to indoor social and educational gatherings. Please check the HGS website on a regular basis for all HGS online event opportunities.

The HGS Board will continue to monitor the situation and governmental directives to determine the pace of opening up the holding of HGS in-person events or whether the situation calls for reversing the trend in some measure.

Please monitor [hgs.org](https://www.hgs.org) and your email for further communication concerning HGS events.

For more information about how you can help to prevent the spread of the virus, visit the CDC website: <https://www.cdc.gov/>.

**2021-2022 HGS Board**



# ***Production Results from Levee-Overbank Turbidite Sands at Ram/Powell Field, Deepwater Gulf of Mexico***

ARTICLE BY MARC HELSINGER FROM PROCEEDINGS OF THE GCS-SEPM 2000 CONFERENCE  
AUTHORS: GEORGE R. CLEMENCEAU; JASON COLBERT, DENNIS EDENS

Seismic stratigraphic visualization techniques are a critical tool in defining levee deposits of slope fan plays which are often overlooked because of their laminated character. Ram/Powell is an excellent analog to similar slope fan deposits that occur along the entire onshore Gulf Coast region.

Ram/Powell Field is in the northeastern Gulf of Mexico in Viosca Knoll Block 956. The field produces from several stratigraphically trapped reservoirs which occur within channel-levee facies of a slope fan system (see Figure 1, below).

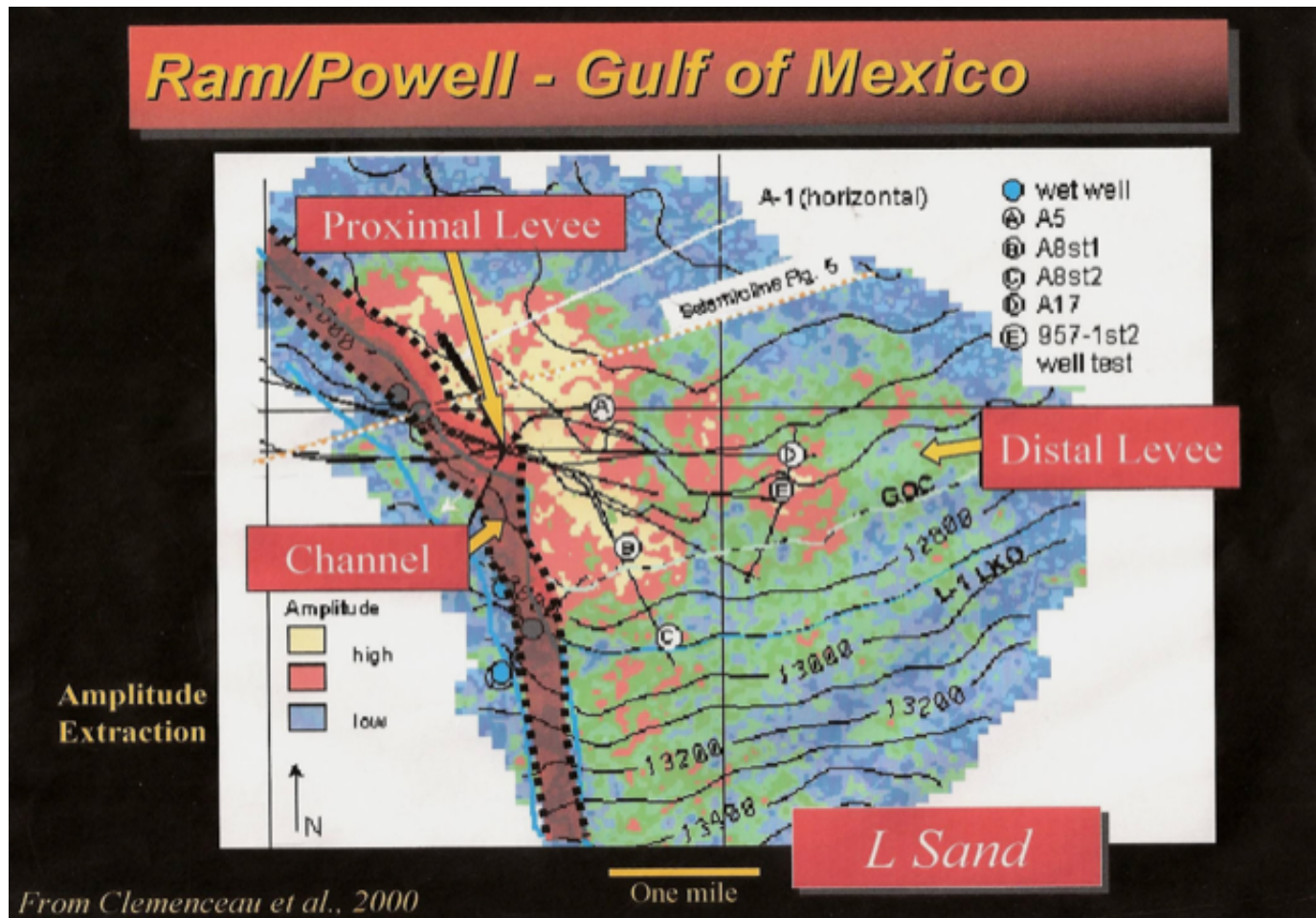


Figure 1

One of the most productive zones is the L reservoir, which is trapped entirely within thin bedded levee-overbank facies. These sands have porosities of 15-32% and permeabilities of 20-100md, which are unusually favorable values for overbank depositional units. Levee facies reservoir units can add substantially to areal extent and with substantial hydrocarbon potential.

From: Proceedings of the GCS-SEPM 2000 Conference  
"Production Results from Levee-Overbank Turbidite Sands at Ram/Powell Field, Deepwater Gulf of Mexico"  
Authors: George R. Clemenceau; Jason Colbert; Dennis Edens  
DOI:<https://doi.org/10.5724/gcs.00.15.0241>

## HGS GENERAL DINNER MEETING

MONDAY, FEBRUARY 7, 2022 | 5:30 - 9:00PM  
NORRIS CONFERENCE CENTER, HOUSTON, TX  
HGS MEMBERS / NON-MEMBERS \$50 STUDENTS \$25  
[HTTPS://WWW.HGS.ORG/CIVICRM/EVENT/INFO?ID=2304](https://www.hgs.org/civicism/event/info?id=2304)  
EVENT CONTACT: HGS OFFICE | [OFFICE@HGS.ORG](mailto:OFFICE@HGS.ORG)

### ***HGS Annual Scholarship Night "New Hires - Future Hires; Passing the Baton"***

*All event profits benefit the HGS Scholarship Funds.*

The HGS Scholarship Night has a long tradition of engaging inspiring, visionary, and entertaining speakers. This year's inspiring group has entered the oil and gas industry in the last 0-5 years, all with jobs in major companies. Each panelist will share 5-10 minutes of their experiences on how to get and keep a job. This can include PowerPoint slides, stories, and advice. The "New Hires" will then answer questions from the audience with participation highly encouraged by the HGS Student Scholarship Winners, the "future hires". This talented group of young people will entertain, engage, and inspire us all with their talent and passion for making a difference.

The student Scholars will be in attendance and receiving their Scholarship awards this evening. Don't miss a great opportunity to meet the students and encourage the next generation of our industry! Come meet the student scholars and help support the HGS Foundation Scholarship and the Calvert Memorial Fund!

#### **Moderators**



**Charles Sternbach** has 50+ scientific references on Data Pages. He is a "rainmaker" for AAPG by recruiting 500+ geoscientists to write papers on exploration creativity for Super Basin special issues of the AAPG Bulletin, Playmaker 1-day programs, and 25

Discovery Thinking forums at Annual Conventions. These collective programs have had a major impact on AAPG by: "pack the house attendance," significant positive net finances, and left a legacy of popular publications and online videos. Charles served as AAPG's 101st president.

As HGS president, Charles created HGS Legends panels (1999-2000). He currently serves as co-chair of the HGS 100th anniversary committee with Linda Sternbach and they are planning a big celebration at the April 22-26, 2023, GCAGS GeoGulf convention for which Charles is the General Chair.

#### ***Thank You, 2022 Sponsors!***



THUNDER EXPLORATION, INC.



**Fang Lin** is the Chapter Manager of Hydrocarbon Charge and Geochemistry at Chevron Technical Center in Houston, Texas. She has been an active member of HGS for more than ten years. She served as the Index Editor for HGS Bulletin (2009 - 2014), Editor-Elector of HGS Bulletin (2018

- 2019), Editor of HGS Bulletin (2019 - 2020), and has served on the HGS Board of Directors twice. She is also an Active member of AAPG, EAOG and HOGS, a reviewer of AAPG Bulletin, Marine and Petroleum Geology, and Organic Geochemistry. Fang has a broad interest in technology advancement in earth science and is passionate about integration and application of technology.



WALTER OIL & GAS CORPORATION





## Biographical Sketches



**Dr. Claire Bailey** has been a geologist with ExxonMobil since 2019. She is currently working with a team on the Permian Delaware, Texas, where she focuses on operations and development of XTO acreage.

Her love for geology began as a teenager in

San Francisco, California when she joined an NSF-funded program called SF-ROCKS. She received her B.S. in Geology from San Francisco State University and continued her studies at Cal State Northridge where she received her M.S. conducting research focused on understanding provenance of sands deposited on the shelf and slope of the Canterbury Basin, South Island, New Zealand. She then received her Ph.D. from the Institute of Salt Tectonics at the University of Texas at El Paso, where her research focused on understanding the interaction between the fluvial systems of the Morrison Formation and the Gypsum Valley Diapir.



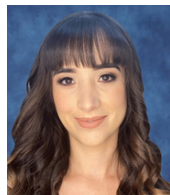
**Libby Ingram Storer** is a Development Geophysicist for Shell, where she has matured Deepwater assets Perdido and Mars since 2018. She previously worked for ConocoPhillips as a petroleum engineer but pivoted her career to geoscience in 2015. She has since worked for Hess and a small

start-up oil and gas company. Libby has a wide view of the oil & gas industry through her multidisciplinary experiences and this contributed to her knowledge of finding opportunities to make yourself competitive for jobs in a downturn. She is a graduate of the University of Houston with a Geophysics Masters (2017) and Louisiana State University with Engineering and Geology Bachelors (2013).



**Eric Peavey** is a 4th year Geology PhD candidate at Texas A&M University, studying the outcrop to subsurface chemostratigraphy of the Wolfcamp A and Wolfcamp B in the Delaware Basin. He earned a B.S. in Earth Science from Southern Connecticut State University in

2013, and an M.S. in Geology from Texas A&M University in 2017. Since starting his PhD in February 2019, he has completed two virtual internships for Chevron, has participated in student leadership for Texas A&M's AAPG and SEG student chapters, and actively supports Texas A&M's Unconventional Reservoirs and Outcrop Consortium (UROC). He has been hired by Chevron and is expected to start work following his graduation in August 2022.



**Luciana Tinker** has worked as a Geoscientist with ExxonMobil since 2017. She began her career with the Mexico Exploration team, assessing the potential of deepwater open acreage. She is currently part of the Brazil Salt Basins Operations team, and has supported the evaluation and

drilling of the Opal and Tita wells, as well as the maturation of several other prospects within the XOM Brazil portfolio. Luciana was born in La Paz, Bolivia at 14,000 ft elevation, giving her an early appreciation for the mountains and surrounding geology. Luciana obtained her B.S. from Trinity University and M.S. from The University of Texas at Austin. At UT, she worked for the Gulf Basin Depositional Synthesis Consortium, characterizing Paleogene deepwater stratigraphy in the Southern Gulf of Mexico. Prior to her time with ExxonMobil, Luciana worked in Geoscience roles with multiple companies, including the Bureau of Economic Geology as a Research Assistant studying salinity of Wilcox groundwater sands.



**Nathan Tinker** has spent the last decade in San Antonio, Austin, and Houston, completing a B.S. in Geosciences from Trinity University, working with several private oil and gas companies, and completing a M.S. in Geological Sciences from the University of Texas at Austin.

After a successful internship with Hilcorp Energy Company in 2016, Tinker was hired full-time as a Geoscientist. He has spent the last 5 years in Development and Production Geoscience roles on integrated asset teams, preoccupied with increasing rate and reserves in conventional and unconventional oil and gas fields across the Gulf Coast and SW Wyoming.

From finding new low resistivity/low contrast pay in a legacy West Louisiana oil field, to reservoir characterization around an East Texas salt dome, to recommending and drilling multiple commercially successful oil wells, to tight gas and shallow oil plays of the Green River Basin, Tinker has been fortunate to have experienced a variety of technical, interpersonal, and leadership development opportunities with Hilcorp.



## Science and Engineering Fair of Houston

### ***Make a difference in 2022!***

Are you enthusiastic about geology? Do you enjoy listening to students talk about geology? If so, share your love of geology by joining the HGS Special Awards Agency team of volunteer judges at the annual Science and Engineering Fair of Houston (SEFH), which will be held in-person on **February 26, 2022 at the George R. Brown Convention Center**.

The HGS team reviews Earth science related projects in the Junior and Senior Divisions at the SEFH. A top project is picked for each division, and summer internships to the Houston Museum of Natural Sciences are awarded to the top 3 seniors. The winners are invited to an Engineering Science and Technology Council of Houston awards banquet (or Zoom meeting), where the students showcase their projects.

If you would like to volunteer to be an HGS Special Awards judge, and can commit to spending a half day reviewing the presentations at GRB, please email Dorene West ([dbwesthou@earthlink.net](mailto:dbwesthou@earthlink.net); please put **'SEFH Special Awards judging'** in the subject line).

For more information about the science fair, please go to <https://sefhouston.org>

Join us in making a difference in 2022!

**Science and Engineering Fair Committee**  
**Dorene West, Chair**



# **HGS VIRTUAL ENVIRONMENTAL & ENGINEERING MEETING**

WEDNESDAY, FEBRUARY 16, 2022 | 7:00 - 9:00PM

ZOOM WEBINAR

HGS MEMBERS \$15 NON-MEMBERS \$30 STUDENTS \$10

[HTTPS://WWW.HGS.ORG/CIVICRM/EVENT/INFO?ID=2321](https://www.hgs.org/civicism/event/info?id=2321)

EVENT CONTACT: MATTHEW COWAN | MRCOWAN1@HAL-PC.ORG

## ***Ethics Discussion***

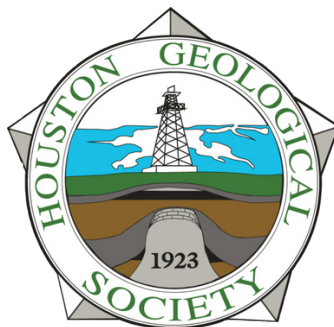
### ***Biographical Sketch***



**Becky Johnson** has almost 30 years of experience in domestic and international environmental management and is an experienced consultant, trainer and auditor. Her expertise is in complex subsurface investigations/remediation, multi-media compliance audits, hydrogeology and groundwater resources. She has an in-depth understanding of regulatory programs including EPA, OSHA, CAA, CWA, EPCRA, and RCRA. She is an experienced international speaker, routinely providing lectures and courses on a wide variety of environmental topics.

She has been a professor at Texas Christian University (TCU) in the Department of Environmental Sciences since 2004, bringing real-world expertise to the classroom, and preparing the next generation of professionals. TCU has pioneered the blending of traditional academia with applied science, creating a dynamic and successful program for our future environmental leaders.

She is a licensed Professional Geoscientist (TX) and was appointed to the Texas Board of Professional Geoscientists (TBPG) by Governor Perry in 2011. She has served as an officer of the board since 2015 and was appointed as Chair of the TBPG by Governor Abbott. Her term expires in 2023.



# HGS VIRTUAL CONTINUING EDUCATION SHORT COURSE

THURSDAY, FEBRUARY 17, 2022

8:00AM - 12:00PM

HGS MEMBERS \$30 NON-MEMBERS \$45 STUDENTS \$20

[HTTPS://WWW.HGS.ORG/CIVICRM/EVENT/INFO?ID=2356](https://www.hgs.org/civicism/event/info?id=2356)

EVENT CONTACT: THOM TUCKER | CENTURY@FLASH.NET

## ***Oil & Gas Exploration Methods in Earth's Over-Pressured Petroleum Systems (Multiple Case Studies Included)***

### **Course Description**

This 4-hour course will give both geoscientists and engineers:

- A brief introduction on the development of abnormally pressured Phanerozoic depositional systems
- How abnormally pressured have influenced oil and gas exploration and development methods therein (especially risk mitigation).

Although it will be given as a Houston Geological Society short course, it has practical global applications for all sedimentary basins, not just those in the lower 48 states of the USA.

### **Summary**

This 'how to' course should help oil and gas explorationists and engineers to better understand the relationships between pressure cell development in global depositional systems and how they influence oil and natural gas deposits pooled in them. Course emphasis will be on over pressured sedimentary systems rather than under pressured systems

### **Learning Objectives**

Students will learn to recognize overpressure cell development in sedimentary deposits using:

- Reflection seismic data (such as velocity analyses obtained via seismic processing methods, relative seismic amplitude of sedimentary packages, seismic sequence stratigraphy and velocity sag development),
- Well-derived information, such as: sonic and density logs, resistivity and conductivity logs, drilling time logs, drilling mud weights and velocity surveys.

They will also learn how to use these same data to mitigate risks in:

- Pursuing oil and gas prospects and plays and in over-pressured basins.
- Delineating and developing oil and gas fields during the field exploitation phase.

### **Course Outline**

- Abnormal Pressure definitions, mechanisms, conceptual models (Steven L. Getz; one hour)
- Developmental relationships among normal-pressured, under-pressured, and over-pressured sedimentary systems. (Mary Van Der Loop; one hour)
- Break
- Models for oil and gas exploration in over-pressured basins using case studies of medium to large oil and gas fields. (Steven L. Getz; one and a half hours)
- USA Mid-Continent and Permian Basin over-pressured petroleum systems (Mary Van Der Loop; 30 min)

### ***Biographical Sketches***



**Steven L. Getz** is a professional geologist and geophysicist who worked more than nine years with Cities Service Oil Company before becoming an oil and gas consultant for decades. During his lengthy career he generated prospects that led to large oil and gas discoveries in

Equatorial Guinea, Guatemala, as well as Trinidad, wherein he held the title of Chief Geophysicist for Trinmar Limited for two staggered six-month contracts. During his fifty plus year career, he has also generated prospects that became commercial oil and gas discoveries in: the Permian basin, Indonesia, China, and the Gulf of Mexico basin. From 1983 through 1987, he was an owner/partner of a NASD firm, wherein he held a Series 24 license. During 2004, he was a new ventures geophysicist for Santos USA. From 2005 through 2010, he held the title of Chief Geologist with Allen Hoffman Exploration. He then became Exploration Manager for Fortesa International in their onshore Senegal acreage for several years. For the past three years, Steve Getz has been doing work for Green Cloud Inc, a geothermal energy company. Mister Getz has given six one-hour talks to the HGS during the past ten years:

- **Impact of the Laramide movement period upon the petroleum geology of the continental land masses north of the Earth's equator** (May of 2012)
- **Understanding the Oxfordian Smackover and Lower Buckner Carbonate Petroleum System** (September of 2012)
- **Circum-Atlantic and Gulf of Mexico Deepwater Oil Plays Pooled in Coarse-grained Clastic Reservoirs Deposited in Deepwater Environments** (January of 2013)  
This talk was first given as a keynote address at a Caribbean Geological Conference during 2015 and expanded into a one-day short course given to the geoscientists of the Trinidad and Tobago Geological Society during 2015.
- **Overpressure-Based Hydrocarbon Exploration for Small to World Class Giant Sized 'Overpressure-Enhanced' Oil & Gas Pools in Cenozoic Sand/Shale Depositional Complexes** (April of 2014). This talk was then given at the 2015 Caribbean Geological Conference in Trinidad, the AAPG deep-water and shelf Technology Workshop in January of 2016.
- **Oil and Gas Plays in Mesozoic and Tertiary Carbonates Deposited in Southwestern Europe and Northern Africa Near the Present-Day Mediterranean Sea** (March of 2017)
- **Global Exploration for Geothermal Resources** (December of 2020)



### ***Biographical Sketches***



**Mary Van Der Loop** is a Certified Petroleum Geologist with BS and MS degrees in Geology (from Madison WI and Arlington TX), and over 45 years experience in all phases of exploration and production, including 25 years in the Permian Basin. Her areas of expertise

include oil and gas shales, chert detritals, overpressure, prospect evaluation, and the Permian Basin Wolfcamp Shale. She is Past President of the West Texas Geological Society and Permian Basin SEPM.

### ***Instructor Contact Information***

**Steven L. Getz**  
sgetz@sbcglobal.net  
713-304-8503 (cell)

**Mary Van Der Loop**  
Sanctuary Oaks Consultants Int'l, Inc.  
sanctuaryoaksgeo@yahoo.com  
832-434-3639 (cell)  
361-865-2901  
P.O. Box 453  
Flatonia, TX 78941



## HGS VIRTUAL GENERAL LUNCH

WEDNESDAY, FEBRUARY 23, 2022 | 12:00 - 1:00PM

ZOOM WEBINAR

HGS MEMBERS \$15 NON-MEMBERS \$30 STUDENTS \$10

[HTTPS://WWW.HGS.ORG/CIVICISM/EVENT/INFO?ID=2347](https://www.hgs.org/civicism/event/info?id=2347)

EVENT CONTACT: PATTY WALKER | PATTYWALKER1@ICLOUD.COM

### ***Reservoir Evaluation, DRV Analysis, & Inter-well Communication Monitoring using Geochemical Fingerprinting Technology in Multiple Texas Basins***

Thousands of hydrocarbon compounds naturally occur in produced oil and oil extracted from core or cutting samples, these compounds carry a tremendous amount of information on reservoir properties and subsurface fluid flow. A unique geochemical data-driven method is introduced that reveals both static reservoir characteristics such as permeability and oil saturation, as well as dynamic reservoir performance such as hydrocarbon contribution by zone, drainage height, and well communication. This methodology has proven beneficial throughout the lifecycle of unconventional reservoir development, aiding in answering many questions for optimal full field development.

In this presentation, we present a two-part workflow using geochemical information collected from both rock (cuttings/core) and produced oil. In the first part, bulk geochemical compound data collected from rock samples were used to generate a group of Reservoir Characterization Indices (RCI) to provide key reservoir properties such as permeability and oil saturation. In the second part, time-lapse produced oil samples were allocated back to its contributing zones using regression models, based on geochemical fingerprint data of the rocks and oils, to reveal the temporal and spatial variation of the effective drained rock volume (DRV) surrounding horizontal wells in unconventional plays. The probability of inter-well fluid communication between well pairs is also calculated based on the similarity of the geochemical fingerprints in the produced oils of the corresponding wells. Case studies and data integration examples from Eagle Ford and Permian basins are presented that demonstrate: 1) geochemical reservoir characterization correlates with petrophysical analysis and when combined with time-lapse production allocation we gain an understanding of how targeting and reservoir properties effect zonal contribution through the life of the well; 2) production allocation based on high-resolution GCXGC data provides quantitative zonal contribution and vertical drainage height information, identifying shared contribution between stacked wells and quantifying the impact of frac hits to parent wells; 3) the landing zone can contribute anywhere from ~30% up to ~100% to the production, having this knowledge can lead to different infill and well management decisions; 4) P90 Drainage Frac Height can be utilized to understand SRV; and 5) significantly overlapped DRV can impair well performance. Results from these studies have also facilitated optimizing of several current landing zones and well spacings that lead to improved economic recovery of stacked plays in Midland basin.

#### ***Biographical Sketch***



**Jana Bachleda** is a senior geologist at RevoChem, where she helps integrate geochemical ratio data into the regional geologic framework to help answer important questions regarding reservoir quality, potential bypassed pay, ideal landing zones and optimal field

development.

She is an integrated geoscientist with over 12 years of technical and leadership experience in the petroleum industry, filling roles such as operations, development, exploration, and acquisitions geologist as well as geology manager before moving to RevoChem. Jana has proficiency in applied petroleum geochemistry, reservoir characterization, optimal field development, new play identification, data integration, sequence stratigraphy and 3D seismic interpretation.



# HGS VIRTUAL INTERNATIONAL MEETING

MONDAY, FEBRUARY 28, 2022 | 6:00 - 7:00PM

ZOOM WEBINAR

HGS MEMBERS \$15 NON-MEMBERS \$30 STUDENTS \$10

[HTTPS://WWW.HGS.ORG/CIVICISM/EVENT/INFO?ID=2327](https://www.hgs.org/civicism/event/info?id=2327)

EVENT CONTACT: STEVE GETZ | [SLGETZ@OUTLOOK.COM](mailto:SLGETZ@OUTLOOK.COM)

## *Oil & Gas Prices, Inflation, & Supply Chains: The Long Emergency*

The mainstream explanation for high energy prices, shortages and supply chain disruptions--a surge in demand after the pandemic--is inadequate. It's a system collapse. The effects of Covid 19 on the global economy are certainly part of the explanation. Well-intentioned but energy-blind initiatives to reduce global emissions have been equally responsible by aggravating oil and gas supply-demand balances.

Tight oil and shale gas have been the primary components for global energy supply growth over the last 20 years. After a decade of proclaiming fabulous profits, investors realized that they had been played. Investors have largely abandoned oil, gas, and the energy sector. This is a potential catastrophe for our civilization.

All plans for lower global emissions call for an end to or a substantial reduction in oil use for energy. Few people understand that they are signing up zero or negative economic growth, lower living standards and lower population. Islands of reductionist thinking in an ocean of system ignorance have led to this impossible situation. There is no clear way forward that includes sustaining current levels of energy use and economic growth. The best approach is to substitute natural gas for coal first & emphasize renewable storage.

Focusing on simple growth of solar & wind installations is like production growth for tight oil--a losing business model that investors will tire of.

### *Biographical Sketch*



**Arthur E. Berman** is a petroleum geologist with 43 years of oil and gas industry experience. He is an expert on U.S. shale plays and is currently consulting for several E&P companies and capital groups in the energy sector.

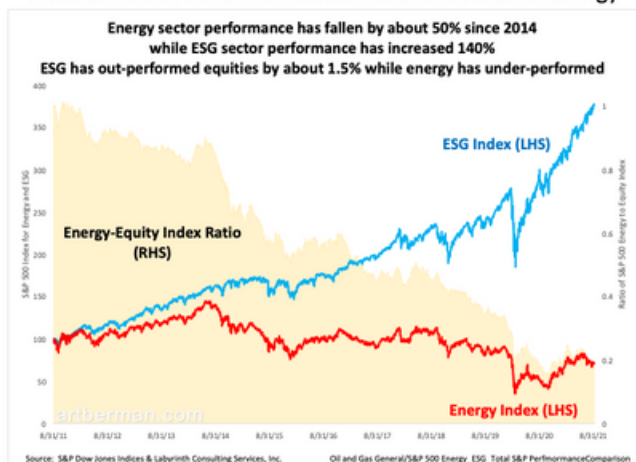
He routinely gives keynote addresses for energy conferences, boards of directors and professional societies. Berman has published more than 100 articles on oil and gas plays and trends. He has been interviewed about oil and gas topics on CBS, CNBC, CNN, CBC, Platt's Energy Week, BNN, Bloomberg, Platt's, The Financial Times, The Wall Street Journal, Rolling Stone and The New York Times.

Berman is an associate editor of the American Association of Petroleum Geologists Bulletin, and was a managing editor and frequent contributor to [theoildrum.com](http://theoildrum.com). He is a Director of the Association for the Study of Peak Oil, and has served on the boards of directors of The Houston Geological Society and The Society of Independent Professional Earth Scientists.

He worked 20 years for Amoco (now BP) and 23 years as consulting geologist. He has an M.S. (Geology) from the Colorado School of Mines and a B.A. (History) from Amherst College.

Website: [artberman.com](http://artberman.com)

### Investors and Credit Markets Are Shorting Energy Investors believe there are better returns outside of energy





**Houston  
Geological  
Society**

# **MEMBERSHIP DUES INCREASE**

**EFFECTIVE FOR  
2022-2023 DUES**

**Active / Associate Members \$36**

**Emeritus Members \$18**

**Student Memberships still FREE**

Prices effective for all renewals &  
applications for the 2022-2023 year.

Thank you for your continued  
support and understanding.

Effective for all membership renewals and membership applications moving into the 2022-2023 fiscal year, HGS has slightly increased its membership dues. Moving forward, the new membership fees will be as follows:

- Active / Associate Memberships: **\$36.00**
- Emeritus Memberships: **\$18.00**
- Student Memberships are still **FREE**.

Dues for the upcoming year are not due until June 30, 2022.

The Houston Geological Society is a society with a global view. The HGS includes students, geologists, geophysicists and academic experts. Our objectives are to stimulate interest and promote the advancement of the geosciences, to disseminate and facilitate discussion of geological information, to enhance professional interaction among geoscientists, and to aid and encourage academic training in the geosciences. As an HGS member, you will receive special privileges, discounts, and priority event registration. If you are an active AAPG member, please support this society and become an active HGS member!

#### **Active Membership**

*In order to qualify for Active Membership, you must have a degree in geology or an allied geoscience from an accredited college or university or, have a degree in science or engineering from an accredited college or university and have been engaged in the professional study or practice of earth science for at least 5 years. Active Members shall be entitled to vote, stand for election, and serve as an officer in the Society. Active Members pay \$36.00 in dues (effective beginning for all 2022-2023 dues).*

#### **Associate Membership**

*Associate Members do not have a degree in geology or allied geoscience but are engaged in the application of the earth sciences. Associate Members are not entitled to vote, stand for elections or serve as an officer in the Society. Associate Members pay \$36.00 in dues.*

#### **Student Membership**

*Student membership is for full-time students enrolled in geology or an allied geoscience. Student Members are not entitled to vote, stand for elections or serve as an officer in the Society. Student Member dues are currently waived (free). Students will have a 24 month grace period after graduation. After a student graduates and receives a job, he/she must apply for Active membership to HGS.*

#### **Emeritus Membership**

*Members who attain the age of 65 and have been Active members of HGS for a minimum of 10 years may request Emeritus status by contacting the HGS office. Emeritus Members shall also be considered Active Members. Emeritus Members pay \$18.00 in dues (effective beginning for all 2022-2023 dues).*

Interested in becoming a member? Be sure to fill out a [Membership Application](#)!

We thank you for your continued support and greatly appreciate your understanding!  
2021-2022 HGS Board



# February 2022

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>
		1	2
6	7 <b>HGS Annual Scholarship Night</b> "New Hires - Future Hires; Passing the Baton" Page 9	8 <b>HGS Board Meeting</b> 5 p.m.	9
13	14	15	16 <b>HGS Virtual E&amp;E Meeting</b> "Ethics Discussion" Page 12
20	21	22	23 <b>HGS Virtual General Lunch</b> "Reservoir Evaluation, DRV Analysis, & Inter-well Communication Monitoring" Page 15
27	28 <b>HGS Virtual International Meeting</b> "Oil & Gas Prices, Inflation, & Supply Chains: The Long Emergency" Page 16		

## Cheated, Mistreated, Pushed Around?

Have you been cheated, mistreated or somehow deprived of your share of a deal, working interest or royalty? If so, give me a call. I have thirty years experience as a working interest and royalty owner in the oil and gas business to go along with forty years of court room experience. A trusted team of professionals together with the necessary resources is available to work on your case. You do not pay anything unless we win.

### Proven Results





- \$6,000,000 Future payout projected for settlement to widow with ORRI recovered under husband's consulting contract after company contended no payments due after death.
- \$5,800,000 Combined cash settlement for UPRC East Texas and Central Louisiana royalty owner class action cases for underpaid royalties. Court approved fee of 1/3.
- \$4,700,000 Jury verdict, oil company violates geologist non-compete contract. Settled later on confidential terms.
- \$2,000,000 Settlement for downhole failure of casing results in loss of well bore, net to client \$1,372,411.79.
- \$1,175,000 Settlement for geologist and family where oil company drilled too close to geologist property. Case filed 18 years after well drilled. Net to client \$664,822.51.
- \$986,000 Cash settlement, net to clients \$657,207.60, plus future mineral interest valued at \$500,000.00. Dispute over mineral interest ownership from thirty year old contract.

Robert A. Chaffin

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# February 2022

Thursday	Friday	Saturday	
3	4	5 	<p><b>Reservations</b></p> <p>The HGS prefers that you make your reservations online through the HGS website at <a href="http://www.hgs.org">www.hgs.org</a>. If you have no internet access, you can email <a href="mailto:office@hgs.org">office@hgs.org</a> or call the office at 713-463-9476.</p> <p><b>Reservations for HGS meetings must be made or cancelled by the date shown on the HGS website calendar, which is normally 24 hours before hand or on the last business day before the event.</b></p> <p>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 Webmaster at <a href="mailto:webmaster@hg.org">webmaster@hg.org</a>. Once the meals are ordered and name tags and lists are prepared, no more reservations can be added even if they are sent. <b>No-shows will still be billed.</b></p> <p><b>Pricing</b></p> <p><b>In-Person Meetings</b>  HGS Members \$35  Non-Members/Walk-Ups \$40  Emeritus/Honorary Life \$15  Students \$5</p> <p><b>Virtual Meetings</b>  HGS Members \$15  Non-Members \$30  Students \$10</p>
10 	11	12	
17 <b>HGS Virtual Short Course</b> "Oil & Gas Exploration Methods in Earth's Over-Pressured Petroleum Systems" Page 13	18	19	
24	25	26	

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## GIVING BACK

### Annual Volunteer Day at YMCA Camp Cullen

HGS Members and friends needed for our annual Volunteer Day at YMCA Camp Cullen!

**March 5, 2022**

**Do you have a burning desire to give back?** The HGS is teaming up with the YMCA to have a Volunteer Day on Saturday March 5th. The volunteer work we do that day will be at Camp Cullen, a YMCA summer camp located near Trinity, Texas.

We chose to help Camp Cullen for several reasons. First of all, most of the kids attending Camp Cullen are from the Houston area. Also, many campers are from underprivileged families and attend the camp free of charge. Last, but not least, there is a significant geology component to the camp's programs with an actual geologic field trip in the quarry, a geology lab with hand samples onsite, and a "gold" panning area for younger kids. HGS has also conducted its Outcrop Family Campout at Camp Cullen in the past.

The work planned for our group this year is to work with other volunteers on "Prospect Ridge", an Old West mining town. We will continue work on a project to build a Dance Hall Façade and to do some additional work on the mostly completed Gold Panning area, General Store, Bank, and Boot Hill to complete the look and feel of this area. You don't need any special skills, just a willingness to work! In addition to general carpentry, putting things together, etc., we also need some artists to help paint graphics on the dance hall interior walls.

For those interested, we'll also take a break at midday so you can see the quarry field trip area and the geology lab.

So, if you would like to do a good deed, spend a nice day in the Piney Woods, and perhaps help get kids interested in geoscience, please consider donating part of a Saturday to this effort. Depending on where you are located in the Houston area, it takes about 1 to 1 ½ hours to get to the camp. We plan to start work at ~9am and will conclude by mid-to-late afternoon. Breakfast, lunch, and refreshments will be provided. You are welcome to have your older kids participate as volunteers but there will also be childcare provided by camp staff.

You can sign up at the following link which provides more details:  
<https://www.signupgenius.com/go/10c0c44aaae2fa6f94-ymca>

If you have any questions, please contact HGS member John Adamick at [jadamick@stauroiliteconsulting.com](mailto:jadamick@stauroiliteconsulting.com).





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26-28 September 2022  
Houston, TX & Online

# The 21st HGS-PESGB Africa Conference

## CALL FOR PAPERS

### "The Future of G&G in Africa's E&P: Skills, Transition, & Resources"



**PES**  **GB**

Submit Abstracts to:  
[africa2022@hgs.org](mailto:africa2022@hgs.org)

Abstract Deadline: July 2022



The HGS/PESGB Africa Conference has built a reputation for hosting high-quality technical talks focused on the geology of the African continent and conjugate margin. In 2022, the conference will focus on how Africa transitions over the next decade. Alongside submissions on petroleum exploration, development, and reservoir management, we also seek submissions on subsurface technologies, skills and the projects supporting Energy Transition in Africa, such as geothermal, carbon storage and rare earth element exploration.

The HGS Africa Technical Committee invites you to submit an abstract for the program. Your research could be featured on the agenda, giving you a platform to reach a global audience. You also have the opportunity to win one of the prestigious awards for technical excellence for the best presentations, including special awards for students and international contributors.



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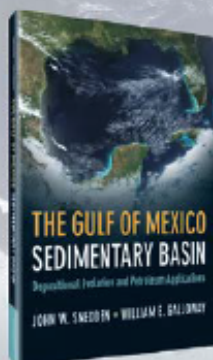
## THE GULF OF MEXICO SEDIMENTARY BASIN

Depositional Evolution and Petroleum Applications

JOHN W. SNEDDEN

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# *Remembrance*

MICHAEL JOHN SWITEK, JR.  
1941-2022



Michael John Switek, Jr. of Houston, TX, passed away on January 26, 2022 at the age of 80 after a courageous, two-year fight against cancer. He was born on October 30, 1941 in Passaic, NJ to Michael John Switek Sr. and Estelle Hicswa Switek. Michael was a devoted husband, father, and grandfather who always came home whistling. He was a teacher to his children and grandchildren, passing on ghost stories, ways to identify trees or geologic formations, and where to find the best fruit in town. He was a geologist who pulled the car over in the middle of nowhere to point at some rocks. He could beat anyone at Trivial Pursuit. He lovingly tended his citrus trees. He led Boy Scout Troop #640 through Dutch-oven spaghetti and a victorious banner competition. Michael was an adventurer who worked in Siberia, Mexico, Denmark, Colombia, and Kazakhstan; he'd return to Texas and say, "The nicest people live in (fill in the blank)", but their kindness was surely a reflection of his own. He knew the location of every Dairy Queen between Houston and South Bend. When he travelled, he preferred to forge his own path rather than stay on the tour. At 18, he hitch-hiked from South Orange to the University of Notre Dame where he was a first-generation college student on an Army ROTC scholarship. Subsequently Michael served as a notification officer who consoled next-of-kin during the Vietnam War. He believed angels walked among us and would tell of the angel who found Michael and his five young children lost and hot in Lower Manhattan, gave them all Italian ices, then mysteriously disappeared. Michael was a gentle and generous soul.

Michael received a BS Geology from Notre Dame in 1963, and a MA Geology from Oregon in 1967. He worked for Lukoil-Aik Joint Ventures. Michael joined Houston Geological Society in 1980.

Michael was preceded in death by his parents Michael John Switek Sr. and Estelle Hicswa Switek. He is survived by his wife of 57 years Sally Frances Marnen Switek; his children Michael John Switek III and wife Mam, Elizabeth Switek Deans and husband John, Daniel Switek and wife Elizabeth, Judith Switek, and Mary Switek; his grandchildren Noah, Jacqueline, Jacob, Danielle, Emily, and Adam.

*Summarized from Life Tributes section of the Houston Chronicle on Jan. 30, 2022.*

## HGS Bulletin Instructions to Authors

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

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

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

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

### HGS Bulletin Advertising

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

Random Inside Ad Placement Black & White Prices Shown – Color add 30% to prices below					Specific Page Color Ad Placement					
No. of Issues	Random Eighth Page	Random Quarter Page	Random Half Page	Random Full Page	Inside Front Cover Full Page	Inside Back Cover Full Page	Page 2 Full Page	Outside Back Cover Half Page	Back of Calendar Full Page	Calendar Quarter Page
10	\$950	\$1,350	\$2,550	\$4,750	\$8,000	\$7,500	\$7,050	\$6,850	\$6,650	\$3,000
9	\$800	\$1,300	\$2,500	\$4,700						
8	\$750	\$1,250	\$2,250	\$4,300						
7	\$600	\$1,100	\$2,200	\$3,850						
6	\$550	\$950	\$1,800	\$3,500						\$2,000
5	\$500	\$800	\$1,600	\$3,000	\$4,700	\$4,500	\$4,350	\$4,000		
4	\$450	\$650	\$1,300	\$2,500						
3	\$300	\$550	\$950	\$2,000						\$1,000
2	\$250	\$400	\$700	\$1,500						
1	\$150	\$250	\$450	\$1,000	\$1,500	\$1,400	\$1,250	\$1,000	\$1,250	\$850
Professional Directory Section Business Card Ad: 10 Issues – \$160 (\$30 for each additional name on same card)										

### Website Advertising Opportunities

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

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





The Houston  
Geological  
Society

# Renew your membership

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Renew or join by scanning the QR code above!

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## APPLICATION TO BECOME A MEMBER OF THE HOUSTON GEOLOGICAL SOCIETY

### ***Qualifications for Active Membership***

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

### ***Qualifications for Associate Membership (including students)***

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

**Apply online at [www.hgs.org](http://www.hgs.org) and click "Join HGS". Annual dues expire each June 30.**

**Annual dues are \$36; Emeritus members pay \$18; Students are free.**

**To the Executive Board:** I hereby apply for membership in the Houston Geological Society and pledge to abide by its Constitution and Bylaws.

Full Name \_\_\_\_\_ Membership Type (choose one): Active Associate Student

Current Email (for digital Bulletin & email newsletter) \_\_\_\_\_

Phone \_\_\_\_\_

Preferred Address for HGS mail \_\_\_\_\_

Employer (required) \_\_\_\_\_ Job Title (**required**) \_\_\_\_\_

Will you volunteer? (Y/N) \_\_\_\_\_ Committee choice: \_\_\_\_\_

Active & Associate membership for one year (July 1st - June 30th) \$36.00 \_\_\_\_\_

Student membership \$0.00 \_\_\_\_\_

\*OPTIONAL\* Scholarship Contributions: Calvert/HGS Foundation-Undergraduate \$5.00 \_\_\_\_\_

**Total Remittance** \_\_\_\_\_

### **Payment**

Check # \_\_\_\_\_

Credit Card: V MC AE Discover Credit Card #: \_\_\_\_\_

CVC Code (**required**) \_\_\_\_\_ Expiration (mm/yy) \_\_\_\_\_

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

Company \_\_\_\_\_ Company Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Postal Code \_\_\_\_\_

School (**required**) \_\_\_\_\_ Major (**required**) \_\_\_\_\_

Degree (**required**) \_\_\_\_\_ Year Graduated \_\_\_\_\_

School (*optional*) \_\_\_\_\_ Major (*optional*) \_\_\_\_\_

Degree (*optional*) \_\_\_\_\_ Year Graduated \_\_\_\_\_

Years Work Experience (**required**) \_\_\_\_\_

Please submit a brief statement regarding your work experience in the practice or application of earth science or an allied science.

AAPG Member Number \_\_\_\_\_ HGS Sponsor's Name \_\_\_\_\_

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

# Professional Directory

<p>Consulting, Evaluate Prospects: USA and International Seeking Prospects: Texas</p> <p><b>Victor H. Abadie III</b> Consulting Geologist</p> <p>650.201.0528 • vic@montara.com Post Office Box 81, Montara CA 94037-0081 AAPG/DPA, SIPES, Calif. Reg. Geologist, Tex. Reg. Geologist</p>	 <p><b>Paul W. Britt</b> Geologist, P.G., C.P.G.</p> <hr/> <p>Houston, Texas</p> <p><b>Geological &amp; Geophysical Consulting</b> <i>Petra Consulting and Training</i> <i>Kingdom Seismic Interpretation</i></p> <p>713-651-0004      pbritt@texplore.com www.petrauser.com      www.texplore.com</p>
 <p>Integrated Prospect Generation, Regional Mapping, Sequence Stratigraphy, Property Evaluations US Onshore and Gulf of Mexico</p> <p>Tim Powell Timp854@gmail.com 832-217-5650</p> <p>3429 Tahoma Trail College Station, Tx 77845</p>	 <p><b>THUNDER EXPLORATION, INC.</b></p> <p><b>WALTER S. LIGHT, JR.</b> PRESIDENT PETROLEUM GEOLOGIST</p> <p>P.O. BOX 541674      US MOBILE: +713 823 8288 HOUSTON, TEXAS      UK MOBILE: +44 (0)794 755 1693 77254-1674      EMAIL: wthunderx@aol.com</p>
 <p><b>METAROCK</b> LABORATORIES</p> <p>2703 Highway 6 S, Suite 280A Houston, TX 77082 Tel 713-664-7916 Cell 832-287-8320 Fax 832-415-0358 zach@metarocklab.com www.metarocklab.com</p> <p>Zach Arasteh Business Manager</p>	<p>Website • Brochure Ad • Logo • Catalog Newsletter Design</p>  <p><b>Lisa Krueger Design</b> <i>Design and Art Direction for Print and Web</i> LisaKruegerDesign.com 713.664.7267</p>

**Advertise your Business Card!**  
**\$175 per 10 Issues**

**Contact:**  
**713-463-9476 or office@hgs.org**



## HGS WELCOMES NEW MEMBERS

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## New Members Effective January 2022

### ACTIVE MEMBERS

Justin Cooper

Adam Turner

Ryan Wilson

Marcello Orellana

Peter Lanzarone

Edward Feragen







# *Houston Geological Society*

14811 ST. MARY'S LANE, SUITE 250  
HOUSTON, TX 77079

Contact Us  
713.463.9476  
[office@hgs.org](mailto:office@hgs.org)