



GEOPHYSICAL SOCIETY OF HOUSTON
2026 Spring Symposium Program

The Innovation Pivot

Geophysical Breakthroughs
That Changed Everything

APRIL 22–23, 2026

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Honoring Tom Smith

Technical
Program

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Abstracts

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HONOREE

Tom Smith

A career of innovation,
leadership, and
community impact



**President & CEO
Geophysical Insights**

Celebrating 55 years of
geophysical innovation and a
legacy that reshaped
interpreter-led workflows,
modern seismic platforms,
and data-driven subsurface
technology.

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The Geophysical Society of Houston's premier technical event of the year

Over the past thirty years, applied geophysics in the oil and gas industry has undergone a series of innovation pivots that fundamentally retooled the practicing geophysicist and reshaped how the business works. This symposium reviews the breakthroughs that moved interpretation from centralized, high-cost computing to interactive interpreter-driven workflows and, more recently, to scalable, data-intensive environments enabled by AI/ML, cloud computing, fiber-optic sensing, depth imaging, and advanced velocity model building. Each session pairs technical presentations with panel-oriented discussion, providing attendees with a practical view of what changed, what is changing now, and what geophysicists will need next.



Interpreter-led workflows

Interactive interpretation moved capability closer to the business decision cycle.



AI & advanced computing

Scalable compute environments and data-rich workflows changed what teams can resolve and evaluate.



Fiber-optic sensing & imaging

Modern sensing and imaging continue to increase fidelity, monitoring strength, and integration.

What attendees can expect

- A cross-section of technical and strategic talks spanning acquisition, imaging, inversion, AI/ML, and business impact.
- A dedicated honoree program recognizing Tom Smith's career of innovation, entrepreneurship, and service to the geoscience community.
- Speaker profiles, talk abstracts, event sponsors, upcoming GSH events



Tom Smith

President and CEO
Geophysical Insights

Key developments include cost-effective PC-based seismic workstations that placed interpretation directly in the hands of geophysicists; maturation of seismic supported by wide-azimuth acquisition, depth imaging, and improved velocity model building; and integration of AI/ML, cloud computing, and high-density sensing such as fiber-optics.

These breakthroughs have expanded technical capability, accelerated interpretation, reduced uncertainty, and fundamentally changed how geophysicists operate and make business decisions. Join us in honoring Tom Smith, a distinguished geophysicist whose career spans 55 years starting at Chevron and moving to his current venture Geophysical Insights, which he founded in 2008.

Tom Smith is the Spring Symposium honoree and a distinguished geophysicist whose career spans 55 years, from Chevron to the founding of Geophysical Insights.

Research & innovation

- Launched KINGDOM software in 1984 — a landmark interpretation platform
- Launched Geophysical Insights in 2009 — advancing neural network technology for subsurface interpretation

Career recognition

- GSH Honorary Member and GSH Corporate Star
- SEG Enterprise Award; HGS Living Legend
- Distinguished alumni honors from the University of Houston and Iowa State

Leadership & community

- Served as SEG Foundation chairman from 2010 to 2013
- Supported 200+ software grants to universities worldwide
- Tom and Evonne Smith served as governors for “Forever True, Iowa State”



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2026 GSH Spring Symposium

The Innovation Pivot: Geophysical Breakthroughs That Changed Everything

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CHALLENGE BOWL



EXHIBITORS





Wednesday, April 22

Time	Speaker	Organization	Presentation
8:05-8:30 AM	Anu Venkataraman	ExxonMobil	From Exploration to Net Zero: Geophysics as a Strategic Decision Enabler
8:30-9:00 AM	Rocco "Rocky" Detomo	Omoted Geophysical Consultants	The Innovation Pivot: How Geophysics Shapes Business Outcomes
9:00-9:30 AM	Faqi Liu	TGS	Maximizing Reservoir Value through FWI-Driven Acquisition and Processing
10:00-10:30 AM	Henry S. Pettingill	Rose & Associates	Integrated DHI Prospect Evaluation: Lessons from a 25-Year Consortium Collaboration
10:30-11:00 AM	Marianne Rauch	Lumina Geophysical	The State of the Industry - Mergers, AI and Succession

11:30-1:30 PM

Exhibition, Lunch, Tom Smith Toast

1:35-2:00 PM	Bruce Karr	Fairfield Geotechnologies	Delaware Basin Dragon Slaying, Geophysics Style; Illumination Of Reservoir Using The Most Recent Geophysics Acquisition Design To Solve Near Surface Geology
2:00-2:30 PM	John Naranjo	bp	A Historical Overview of Deepwater OBN Testing in Pursuit of Densification and Bandwidth Enhancements in the Gulf of America
2:30-3:00 PM	Fabio Mancini	DUG Technology	From Imaging to Interpretation: Unlocking Subsurface Properties from Multi-Parameter FWI Attributes
3:30-4:00 PM	Zhigang Zhang	Viridien	FWI for Reservoir Properties: Are We There Yet?
4:00-4:30 PM	Chuck Diggins	DigginsGeo, LLC	Cascade Tomography Applied to Karsting in the Permian Basin

5:00-8:00 PM

Exhibition, Live Auction, Reception



EVENT AGENDA

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Thursday, April 23

Time	Speaker	Organization	Presentation
8:05-8:30 AM	Kumar Lakshmipathy	AWS	Agentic AI for Energy - Orchestrating the Subsurface
8:30-9:00 AM	Un-Young Lim	Chevron	QI Workflow Automation through the Integration of Physics-Based Machine Learning and Sampling Methods
9:00-9:30 AM	Katie Gurses	bp	Advancing Integrated Subsurface Workflows through Rapid Technology Deployment and Digital Enablement
10:00-10:30 AM	Deborah Sacrey	Geophysical Insights	Machine Learning: The Next Disruptive Technology Changing Sub-Surface Interpretation
10:30-11:00 AM	Prasenjit Roy	Chevron	Connecting the QI AI Stack: AVA Screening, ML-Enhanced Inversion, and Workflow Integration

11:30-1:30 PM

Exhibition, Lunch, Challenge Bowl

1:35-2:10 PM	Bob Fryklund	S&P Global Commodity Insights	Exploration - Thinking Differently
2:10-2:45 PM	Frederic Billette	bp	A Seismic Transformation Story: The Gulf of America (Mexico) Great Experiment
3:15-3:50 PM	Wafik Beydoun	Global Energy & Cross-Cultural Leadership	2026 and Beyond: The Cultural Skills Geophysicists Will Need
3:50-4:25 PM	Rocky Roden	Rocky Ridge Resources	Technology Trends Impacting Geoscience Today and in the Near Future

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Thank you for the time, coordination, and volunteer effort that made this event possible.

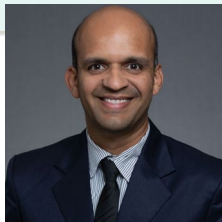
The Geophysical Society of Houston extends its appreciation to the Spring Symposium committee for planning, speaker coordination, logistics, communications, sponsorship support, and on-site execution.



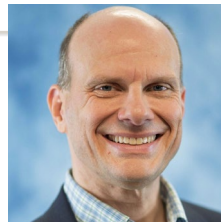
Rene Mott



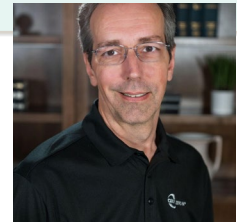
Kurang Mehta



David Tett



**Norbert van de
Coevering**



Gabriel Perez



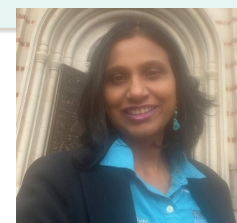
Ashley Hutton



Min Yang



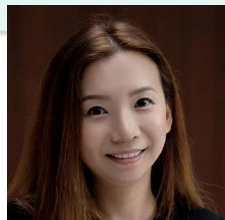
Tanima Dutta



Ye Feng



Chao Wang



Paula Oliveira



Hesham Moubarak





Anu Venkataraman

From Exploration to Net Zero: Geophysics as a Strategic Decision Enabler

Wednesday, April 22 | 8:05-8:30 AM | ExxonMobil



ExxonMobil

Talk overview

Geophysical data and subsurface evaluation methods play a critical role in business decisions across the full lifecycle of oil and gas reservoirs and are increasingly central to carbon capture and storage (CCS) projects. Over the past decade, the most significant driver of advancement in geophysics has been growth in computational capability. Increases in processing speed and access to large-scale memory have enabled the use of large data volumes and advanced algorithms, including machine learning, leading to more efficient and innovative approaches to subsurface characterization.

In exploration, Direct Hydrocarbon Indicators (DHIs) remain an important tool for portfolio derisking and prospect high grading. While attribute-based workflows have traditionally underpinned DHI analysis, the application of supervised machine learning methods is driving step-change improvements in predicting subsurface risk for undrilled prospects. In development and production settings, dense and modern seismic acquisition combined with advances in seismic imaging, inversion, and 3D seismic modeling are having material impact on reservoir characterization, and hence development plans and surveillance strategies. These technologies are enabling more confident and timely decisions that directly influence asset performance.

As the industry progresses toward net-zero commitments, geophysical monitoring methods are also becoming foundational to Measurement, Monitoring, and Verification (MMV) strategies for CCS. In addition to 4D seismic, integrated approaches that include induced seismicity monitoring for wellbore integrity, aeromagnetic surveys for abandoned well detection, and InSAR-based ground deformation measurements are being evaluated and implemented. A judicious combination of these geophysical techniques will allow for safe, compliant, and scalable carbon storage projects.

Speaker biography

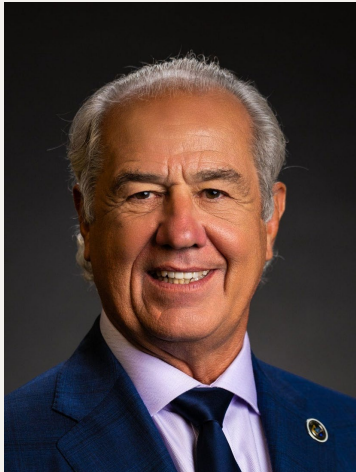
Anu Venkataraman is a Senior Geoscience Principal at ExxonMobil with over 20 years of experience spanning geophysical research, technology, and leadership roles across global assets. She holds a PhD in Geophysics from Caltech and over her career, advanced application of geophysical methods to complex business challenges. Her experience includes geophysical oversight for well execution and prospect maturation, regional subsurface leadership for the Guyana–Suriname basin, and exploration support across Guyana and West Africa. Earlier in her career, Anu led and pioneered work in passive seismic and microseismic monitoring, including coordination of large-scale integrated field experiments. Anu is recognized for bridging deep technical expertise with business impact, mentoring geoscience talent, and advancing the application of innovative geophysical workflows to support value-driven subsurface decisions.



Rocco "Rocky" Detomo

The Innovation Pivot: How Geophysics Shapes Business Outcomes

Wednesday, April 22 | 8:30-9:00 AM | Omoted Geophysical Consultants



**Omoted Geophysical
Consultants**

Talk overview

This talk is a personal reflection of the author's 45-year personal journey in geophysical innovation and its evolving role in shaping high-confidence decision-making across the energy industry. Rather than viewing innovation as a sequence of tools, the author frames it as a series of capability pivots—moments when advances in compute, acquisition design, imaging, and subsurface monitoring fundamentally expanded what geoscientists could resolve, predict, and operationalize across the exploration-to-production lifecycle. These historical inflection points, many of which the author directly participated in, improved spatial fidelity, reduced uncertainty, and enabled increasingly integrated subsurface models that strengthened business outcomes.

Building on this foundation, the talk turns to the next horizon of innovation: multiscale joint inversion frameworks, tightly coupled geophysical–geologic–engineering interpretation systems, and the accelerating influence of AI and large language models. These emerging capabilities are redefining seismic survey design, automating complex processing workflows, enabling uncertainty-aware interpretation, and supporting real-time operational monitoring. AI-native workflows—spanning survey optimization, noise characterization, generative model building, and conversational knowledge systems—are positioned as the next major innovation cycle, blending physics-based rigor with data-driven adaptability at unprecedented scale.

The session concludes by linking these technical advances to tangible business value: identification of new opportunities, faster cycle times, improved risking, reduced operational exposure, and more resilient development strategies. The overarching message is clear—geophysics remains a strategic differentiator, and the next decade of progress will be defined by how effectively the discipline integrates computational capacity, automation, multimodal data fusion, and AI-augmented decision systems.

Speaker biography

Dr. Rocco "Rocky" Detomo has spent more than 45 years in the global energy industry, including 33 years with Shell and over a decade as an independent consultant and technical advisor. He currently serves as the 2026 President-Elect of the Society of Exploration Geophysicists (SEG). Throughout his career, he has held senior roles across seismic acquisition, interpretation, exploration, development, production, and research, working extensively around the world—including five years based in Nigeria.

Rocky has been a pioneer in several key geophysical innovations, contributing to advances in direct hydrocarbon indicators, wide-azimuth acquisition, sub-salt imaging, time-lapse and life-of-field seismic monitoring, and distributed acoustic sensing. He has taught courses on integrated exploration evaluation, risking, and economics, and served as SEG's Africa and Middle East Honorary Lecturer on time-lapse seismic. As a founder of SEG's EVOLVE experiential learning programs, he continues to teach and advise in exploration, carbon capture and storage, and geothermal energy. His career is marked by a consistent ability to translate science, technology, and deep domain knowledge into meaningful business value.

Rocky has also been an active and influential volunteer within the geoscience community. He has served on and chaired numerous professional committees and is one of the few individuals to have served on the SEG Board of Directors (2014-2016), the SEG Advanced Modeling (SEAM) Board (2013-2014), and the SEG Foundation Board (2022-2025), where he was Chair for two years. He has twice chaired the SEG Annual Meeting Technical Program (2006 and 2015) and remains a strong supporter of women's networks, equity and opportunity initiatives, and student mentoring. He is an SEG Life Member, a Foundation Trustee Associate, and a long-term member of EAGE, the American Physical Society, and Sigma Xi. An Air Force veteran, Rocky holds bachelor's and master's degrees in physics and a PhD in nuclear physics from The Ohio State University.



Faqi Liu

Maximizing Reservoir Value through FWI-Driven Acquisition and Processing

Wednesday, April 22 | 9:00-9:30 AM | TGS



TGS



Talk overview

Full waveform inversion (FWI) has advanced from an algorithm focused mainly on velocity-model building for structural imaging to a broader technology capable of supporting quantitative reservoir characterization. This evolution has been driven by continuous progress in FWI technology, the improvements in seismic acquisition, especially the availability of low-frequency data and the enhanced computing power.

Acoustic FWI, initially designed to recover P wave velocity, has demonstrated unprecedented success by using the full seismic waveform to produce higher resolution subsurface models. This improvement sharpened the imaging of faults, salt bodies, and stratigraphic boundaries. Advanced to elastic FWI, imaging quality increased further, revealing features that were previously difficult to observe, especially in areas with complex salt geometries.

Elastic FWI also extends inversion beyond a single parameter. Multi parameter formulations allow the recovery of P wave velocity and reflectivity, or even the simultaneous inversion of P wave velocity, S wave velocity, and density. These capabilities help bridging the gap between structural imaging and reservoir property estimation.

The presentation follows this progression, beginning with acoustic dynamic matching FWI and the impact of acquisition design—particularly low frequency content—on inversion efficiency. It then examines the application of elastic FWI in geologically complex basins, and concludes with multi parameter elastic FWI, illustrated with land and marine examples that recover key reservoir properties.

Speaker biography

Faqi Liu, Sr. Research Manager, TGS. Faqi received both a bachelor's and a master's degree in Mathematics in China, and a Ph.D in Geophysics from the University of Texas at Austin. He joined TGS in 2019, currently he is the Sr. research manager leading the FWI technology group. He has more than 30 years of combined experience in academic institutes and the industry. He worked at the R&D department of ConocoPhillips and Hess in different roles. Prior to joining TGS, Faqi worked with PGS for 2 and half years leading the migration algorithm group. His research interests include FWI and various depth imaging algorithms. In 2020, Faqi received the Reginald Fessenden Award from the Society of Exploration Geophysicists.

Henry S. Pettingill

Integrated DHI Prospect Evaluation: Lessons from a 25-Year Consortium Collaboration

Wednesday, April 22 | 10:00-10:30 AM | Rose & Associates



Rose & Associates

Talk overview

A DHI (Direct Hydrocarbon Indicator) is an anomalous seismic response due to the presence of hydrocarbons. The initial technology was researched in the 1960s and first used to capture and drill oil and gas prospects in the 1970s, and as of today, has accounted for giant discoveries totaling over 130 MMBOE globally. These discoveries are found both onshore and offshore, however the effect is most dramatic in deep water (>500m water depth), where over two-thirds of the giant field reserves were discovered based on DHIs.

Over the last 25 years the Rose DHI Consortium has evaluated and documented over 400 drilled DHI prospects from almost 50 basins around the world, with over 85 companies contributing prospects and expertise (Figure 1a). Specific DHI characteristics have been consistently evaluated and used to calibrate pre-drill chance of success. Major areas of learnings from this database and our members are:

1. Global statistics and base rates: first and foremost, understanding the many DHI characteristics that contribute to the quality of a DHI, and how each of them is correlated with success rates. These are based not only on seismic data, but the integration of regional geology and well control, prospect geology and petrophysics (rock properties).
2. Understanding the 12 major pitfalls that can create false DHIs: what causes them, when they are likely to occur, how to evaluate their risk, and the mitigation techniques available. For instance, it is a common misconception that the most frequent geologic outcome for failed DHIs is low-saturation gas (LSG), when in reality, wet sands account for over 50% of DHI failures, and LSG less than 20% (Figure 1b). Of the wet sand failures, 27% exceeded their pre-drill P10 thickness prediction.
3. Understanding the “DHI Threshold Effect” and how to take advantage of it: DHIs are only known to be valid once drilled; before that we can only assess our confidence level that they will be proved valid. When that confidence level surpasses a certain threshold, the success rate increases dramatically, at times exceeding 80%, even for frontier areas. The workflow discussed here defines that threshold.
4. Basic and first principles, first and foremost: solid evaluations depend on reviewing basic DHI principles and data sets first and then integrating them. Only then can advanced techniques and derivative products be effective. The most common interpretive pitfalls we have documented are 1) over-reliance on such “advanced techniques”, most of which contain underlying assumptions and interpretations and 2) failure to recognize that non-uniqueness of seismic responses to variations in lithology, rock properties, stratigraphic stacking patterns and fluid properties. Over-reliance on AVO is a commonly observed pitfall (Figure 1c)
5. For every risk in DHI evaluations, there are workflows to mitigate those risks, and these will also be discussed

The remaining question is, how significant will DHIs be to future Exploration and discovery of major reserves? We remain optimistic due to several lines of evidence: 1) the fact that the global creaming curve has not flattened out, with major new plays being opened up in the last 5-10 years, 2) the discovery of major DHI-supported resources in geological settings we could barely imagine just 10 years ago (e.g., subsalt), and 3) the remarkable advances in seismic imaging and fidelity, which continue to resolve potential high-quality DHIs each day where they were not seen before. Controlled-Source Electromagnetism (CSEM) has also advanced in recent years and offers an excellent complimentary geophysical anomaly tool.

Examples that will be discussed include: 1) very subtle amplitude anomalies that have low A/B (amplitude over background), 2) continued success in sub-salt DHIs, 3) carbonate DHIs, 4) continued advancements in key technologies such as elastic full-waveform inversion (eFWI), ocean-bottom node seismic (OBN) and 5) advances in AI, machine learning, and computing power. In addition, market drivers will keep DHIs relevant in many theaters, particularly in areas where gas infrastructure and gas monetization opportunities will drive exploration and development. This last factor drives DHI exploration in many ‘mature’ basins onshore and in shallow water where infrastructure and markets are in place.

Based on the above database observations, learnings and recent trends, DHIs will continue to play an important role in future oil and gas exploration. Though the seismic expression of future DHI-driven discoveries will continue to be more subtle than in earlier years, the emerging technologies will also continue to evolve to facilitate prospect derisking and the discovery of more resources, in both frontier and mature basin settings. (Continued pg. 12)

Henry S. Pettingill

Integrated DHI Prospect Evaluation: Lessons from a 25-Year Consortium Collaboration

Wednesday, April 22 | 10:00-10:30 AM | Rose & Associates



Rose & Associates

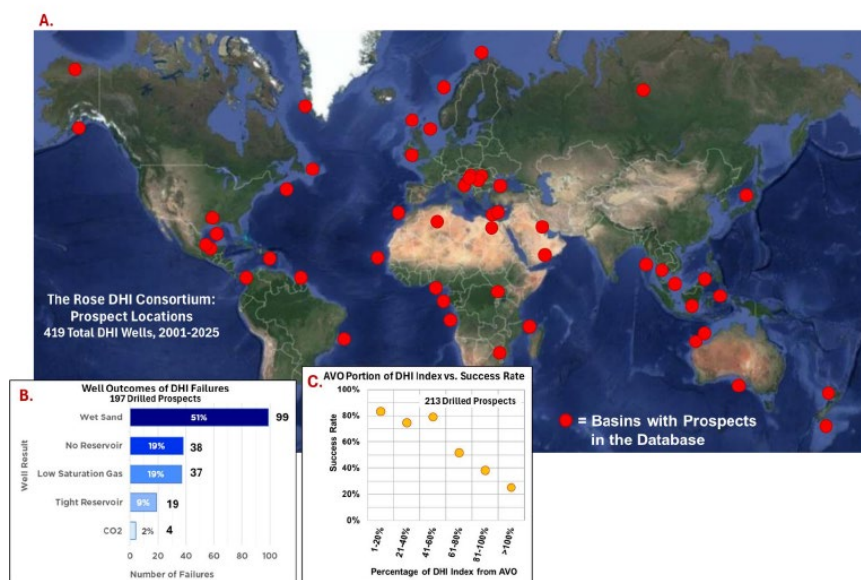


Figure 1. A. Map of the basin locations of the 419 drilled DHI prospects in the Rose DHI Consortium database. B. Failure outcomes for the 197 DHI failures in the database. Note that over half of the failures encountered wet sands, with non-reservoir lithologies and low saturation gas (LSG) each accounting for 19% of the failures. C. Success rates as a function of the proportion of the DHI Index (prospect chance uplift) that comes from AVO observations. Note that when AVO contributes more than 60% of the DHI Index, success rates fall rapidly.

Speaker biography

Henry S. Pettingill is currently Chairman of the Rose DHI Consortium, which has over 30 member companies with participating offices in over 50 locations world-wide. In addition, he is a consultant with Rose Subsurface Assessment (a CMG company) and with Geo Ventures International, a Geoscience training and consultancy provider. He has 43 years' experience as a Petroleum Geologist and Exploration Manager. Previously with Shell, Repsol and Noble Energy, finishing career as Chief Geoscientist. Authored over 90 publications and conference presentations, primarily on Deepwater E&P, Risk Analysis, Portfolio Management, DHI Exploration and Creativity for Petroleum Exploration. He had a key role in early Shell deepwater discoveries in the Gulf of Mexico and NW Borneo. He later established Risk Analysis/Peer Review programs at Repsol and Noble Energy, approving evaluations of over 100 Noble DHI prospects, including major discoveries in the Gulf of Mexico, Israel/Cyprus, West Africa, and Onshore USA. Participated as Member of the Consortium from 2001 inception until retiring from Noble in 2018. He holds a B.A. in Geology from the University of Rochester and a M.S. in Geological Sciences from Virginia Tech and is a Trustee Associate of SEG and of AAPG.



Marianne Rauch

The State of the Industry - Mergers, AI and Succession

Wednesday, April 22 | 10:30-11:00 AM | Lumina Geophysical



Lumina Geophysical



Talk overview

The oil and gas industry is once again undergoing significant transformation, with changes that are likely to shape the sector for years to come. Major operators are consolidating at a rapid pace, raising important questions: will this wave of mergers reduce opportunities, or create space for small- to mid-sized companies to expand more quickly?

At the same time, artificial intelligence (AI) has become a widely used—sometimes loosely defined—term, often applied to any approach involving neural networks. While AI promises to simplify many aspects of our work, it is worth asking whether this holds true in every case. Will it ultimately replace the role of the geoscientist, or will it instead give rise to new types of expertise?

These shifts also have implications for the next generation. How are students responding to such a rapidly evolving landscape? Historically, students from regions such as China, India, and South America helped offset declining interest among American and European students in pursuing careers in this field. Does this trend continue today?

This presentation will explore these questions and attempt to provide a deeper look into the forces reshaping the industry.

Speaker biography

Marianne Rauch holds a PhD in theoretical physics from Karl Franzens Universität in Graz, Austria. Known for her inquisitive mind, she has been actively involved in many facets of the global oil and gas industry. Throughout her career, she has researched and developed geophysical technologies, championed the integration of geology and geophysics during seismic processing, quantitative interpretation (QI), and interpretation workflows, and built and managed reservoir teams. She has also mentored numerous students and professionals and, more recently, expanded her interests into cybersecurity. Rauch has authored many technical publications and is an experienced presenter. She is highly active in professional societies, serving on the technical committees of URTeC and IMAGE, co-organizer of the yearly 4D Forum and Critical Minerals Workshop. Her leadership roles include First Vice President of the Geophysical Society of Houston and Past Second and First Vice President of SEG. She has organized and chaired numerous sessions at major conventions and regularly reviews abstracts and articles for publication. A passionate mentor to both young and mid-career professionals, she currently serves as Chief Operating Officer at Lumina Geophysical.



Bruce Karr

Delaware Basin Dragon Slaying, Geophysics Style; Illumination of reservoir using the most recent geophysics acquisition design to solve near surface geology.

Wednesday, April 22 | 1:35-2:00 PM | Fairfield Geotechnologies



**Fairfield
Geotechnologies**



Talk overview

The Delaware Basin within the Permian Basin has near surface geology challenges. There is an extremely high contrast of very slow unconsolidated geology mixed with very hard high velocity rocks in the first 5000ft. Within shallow layers of geology, there are interbedded halite, anhydrite, dolomite and shale layers. These layers are part of the Salado and Castile formations. Above the Salado formation, the Rustler formation has a high contrast reflection, and it does not dissolve away. Below the Rustler formation, dissolution of the halite layers in the Salado and Castile formations causes collapse of the anhydrite and shale layers above. This can create a structural complex Rustler formation which is back filled with slow unconsolidated weathering layers above. The first dragon to slay is the complex near surface structural geology. Legacy seismic data sets did not collect the proper offsets to even see the geology. The slow and high velocity contrast with the thickening and thinning of fill has created extreme statics which were previously never collected but embedded in the legacy seismic data. The first part of the talk focuses on illuminating the shallow geology by resolving the statics and building a complex shallow velocity field.

After resolving the structural complex near surface geology, the second part of the talk describes several new sets of geophysical challenges. These new dragons are directly related to the shallow geology. The famous “fill zone” in the Delaware Basin was believed to be a severe noise issue or transmission of energy issue, or a multiple issue. Basically, every seismic land problem you can think of was thought to be the reason that seismic data degraded so badly under the fill zone. Once the near surface statics and velocity challenges associated with the complex geology are resolved, we can systematically go after all the other seismic dragons. Some of the challenges can be addressed through seismic processing workflows but others must be focused on additional seismic acquisition designs.

The talk will tie together the required minimal acquisition designs with the proper spatial sampling needed to resolve the geophysical challenges to illuminate the full section of geology including shallow drilling hazards, zone of interest and the deep seismic seismicity fault complexes.

Speaker biography

Bruce Karr, Principal Technical Adviser for Fairfield Geotechnologies, Worked for Fairfield since 1994 as a Senior Geophysicist, Technical Manager, Processing Center Manager and now Principal Technical Adviser. Mr. Karr’s expertise includes 3D and 4D multi-component land data, with particular focus on geophysical problems including long wavelength statics, spectral enhancement, noise, depth-time issues, land seismic acquisition design and land field technology.

Mr. Karr received a BS in Geophysical Engineering and a minor in Geology from the Colorado School of Mines in 1988 and began his career with GSI shortly after graduation in Saudi Arabia. Mr. Karr transferred to Midland, Texas, where he began processing seismic data. By the early 1990s, West Texas was a prolific region for 3D surveys being acquired in the Permian Basin. Mr. Karr has worked with students and professors in partnership with the Colorado School of Mines Reservoir Characterization Project (RCP), Golden, Colorado; the Bureau of Economic Geology Consortium (EGL), Austin, Texas; and the Kansas Geological Survey (KGS), Lawrence, Kansas. Mr. Karr has produced or coproduced a number of papers and presentations concentrating on his areas of expertise in solving geophysical, geologic and reservoir problems. As a member of the Fairfield Geotechnologies team, Mr. Karr uses his knowledge to help clients resolve complex land project challenges.

John Naranjo

A Historical Overview of Deepwater OBN Testing in Pursuit of Densification and Bandwidth Enhancements in the Gulf of America

Wednesday, April 22 | 2:00-2:30 PM | bp



bp

Talk overview

BP has four major operated fields in the Gulf of America and several others in appraisal or development stages. Seismic imaging from new acquisition and processing underpins the subsurface activities at all these fields. Three of the producing fields use 4D OBN seismic acquisition and processing to help manage production. Except for 2023, bp has had an OBN crew operating in the Gulf of America every year since 2020.

With multiple surveys, opportunities have become available to conduct field testing of acquisition concepts around equipment and survey design. All testing has been done with support from oilfield partner companies and in collaboration with the acquisition vendor(s) performing the work. The two main themes being tested are 1) improving data density in source and receiver for improved resolution and 2) better recording of diving waves for improved full-waveform inversion velocity models.

A regular cadence of deepwater 4D ocean bottom node (OBN) surveys bring source and receiver vessels to the field. Often, for these mature assets, the velocity model is well established, well data is abundant and the subsurface challenges are known. Using the recording and source equipment for testing can be easily arranged before, during or after the 4D survey without the need of costly standalone mobilizations. In this presentation, we share learnings and results of several recent tests performed at low cost and little to zero impact to 4D operations. We show multiple iterations of tests in node densification to 16x best quality receiver density for these assets. Further, we show new acquisition styles to maximize collection of diving waves for improved full-waveform inversion velocity model updates at two world class deepwater assets.

Speaker biography

John Naranjo is a Seismic Acquisition Geophysicist with bp, specializing in survey design, testing, and execution of advanced seismic programs. With a career spanning more than two decades, John has become a recognized leader in innovative acquisition methodologies. His work focuses on pushing the boundaries of seismic imaging quality through rigorous field experimentation and methodical program design. Outside of his lengthy experience across multiple basins in the US, John's career is anchored by a broad portfolio of global field experience. He has supported and led seismic acquisition programs across Russia, the Middle East, Alaska, Canada, Trinidad and Tobago, and Brazil.

Fabio Mancini

From Imaging to Interpretation: Unlocking Subsurface Properties from Multi-Parameter FWI Attributes

Wednesday, April 22 | 2:30-3:00 PM | DUG Technology



DUG Technology



Talk overview

Full waveform inversion (FWI) is increasingly used not only for velocity model building but also for subsurface characterisation through physically interpretable attributes. This presentation focuses first on P-impedance (I_p), an often-overlooked attribute that can be robustly estimated even in acoustic FWI. I_p provides a high-resolution description of layer properties and supports the interpretation of lithology, porosity trends, structural features, and compaction or pressure effects, with calibration against well data. The analysis is then extended to V_p/V_s , introducing sensitivity to shear behaviour and improving discrimination between lithology, fluids, and pressure.

Speaker biography

Fabio Mancini is a geophysicist with broad expertise in seismic acquisition, processing, and imaging, with a strong focus on innovation and emerging technologies. He began his career as a processing geophysicist at CGG in London before completing a PhD at the University of Edinburgh, specializing in converted wave imaging. He then joined Total, contributing to both R&D and operational teams across land and marine seismic projects.

In 2008, Fabio moved to Hess as part of the Technology team, where he oversaw seismic activities across the Eastern Hemisphere. In 2011, he relocated to Australia to join Woodside, taking on a series of technical leadership roles and becoming Chief Geophysicist in 2018. There, he led significant advancements in Full Waveform Inversion and novel seismic acquisition approaches, which ultimately led to the formation of Blue Ocean Seismic Services. Fabio joined the spin-off in 2022 as Chief Geophysicist, guiding the development and deployment of autonomous seismic acquisition technology. In 2025, Fabio joined DUG Technology as Chief Geophysicist for APAC and the Americas, contributing to the development and application of their industry-leading multi-parameter Full Waveform Inversion solution.

He is an active member of EAGE and SEG and regularly contributes to conferences, workshops, and technical publications.



Zhigang Zhang

FWI for Reservoir Properties: Are We There Yet?

Wednesday, April 22 | 3:30-4:00 PM | Viridien



Viridien

Talk overview

The recent advancement in full-waveform inversion (FWI) and FWI Imaging has enabled unprecedented structural interpretation across all geologic settings, including complex subsalt areas, and opened the door to the evaluation of seismic amplitudes and attributes, thereby providing insights into reservoir properties. Multi-parameter elastic FWI, which directly inverts for V_p , V_s , and density, is widely regarded as the approach to achieving this goal. However, despite promising progress, the parameter crosstalk problem has yet to be fully resolved. This talk will discuss the main challenges associated with multi-parameter elastic FWI and introduce an intermediate step to indirectly derive reservoir properties through FWI Imaging Gather. Using a field data example, we demonstrate that this approach provides products with higher signal-to-noise ratio, better event continuity, and more reliable amplitude-variation-with-angle (AVA) compared to least-squares migration gathers.

Speaker biography

Zhigang Zhang received B.S. (2002) and M.S. (2005) degrees in Geophysics from Peking University, China, and a Ph.D. degree in Oceanography from the University of Rhode Island in 2010. He worked as a Postdoctoral Fellow at Los Alamos National Laboratory, Earth and Environmental Sciences Division starting in 2010, and joined Viridien (then CGG) in 2013. He currently serves as Houston Research Manager in Viridien's Houston office.

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Chuck Diggins

Cascade Tomography Applied to Karsting in the Permian Basin

Wednesday, April 22 | 4:00-4:30 PM | DigginsGeo, LLC



DigginsGeo, LLC

Talk overview

Cascade Tomography (CT) yields two independent, physically meaningful products: true broadband reflection statics and a tomographic velocity model free of near-surface distortion.

In land seismic processing, the long-standing assumption that first breaks represent refracted energy is fundamental—and fundamentally wrong. As a result, conventional refraction statics and near-surface tomography built on this premise generate systematically flawed models and incorrect statics. A More General Refraction Theory (2024, 2025), or AMGRT, showed that first breaks comprise a surface-consistent distortion surface superimposed on turning-ray refractions. Through a deterministic cascade, CT progressively strips surface-consistent distortions from the picks as statics; revealing the true refracted wavefield.

CT-generated statics and velocity models resolve long-standing limitations in land imaging and establish a consistent foundation for advanced workflows such as PSDM and FWI.

The CT methodology is first demonstrated on a simple synthetic 3D survey. Next, CT is applied to a 3D dataset from Carlsbad, acquired over the karsted carbonates of the Capitan Reef—one of the more challenging near-surface environments in the Permian Basin. In both cases, CT produces results that conventional approaches cannot replicate.

References:

Diggins, C. [2024], “A more general refraction theory”, SEG Workshop in Abu Dhabi for Near-Surface Geophysics.

Diggins, C. [2025], “A more general refraction theory: The alpha-beta model”, EAGE, Toulouse, France.

Speaker biography

Chuck has been in the industry a long time. Many years ago, right after graduate school, he was hired by Ken Lerner to join Western Geophysical Research in Houston, where Chuck soon got interested in statics problems. A year or so later, Chuck moved to Western’s new Denver research group with Dan Wisecup and soon started to develop refraction statics software: 2D EGRM and 2D-3D Refraction MISER. After Western, Chuck joined Green Mountain Geophysics and managed the development of the Millenium front end system, which included Fathom interactive refraction statics. Next, he founded Maverick Geophysics where he developed the fully integrated Stratus refraction package. Then he joined Renegade Geophysics which produced the Seismic Studio refraction package. He then joined XtremeGeo, which produced the Flatirons refraction package. He was the Houston center manager for Sterling Seismic Services for a little over a year. More recently he was DUG’s Principal Geophysicist for several years. About two years ago, Chuck recognized a serious flaw in conventional refraction algorithms, including the algorithms he himself was associated with throughout his career. About a year ago, Chuck left DUG. He is actively researching the problem and is developing practical solutions. Today’s paper describes one such solution, Cascade Tomography. Chuck lives up a few miles east of Boulder with his wife Yvonne in Louisville, Colorado.



Kumar Lakshmipathy

Agentic AI for Energy - Orchestrating the Subsurface

Thursday, April 23 | 8:05-8:30 AM | AWS



AWS

Talk overview

This talk covers agentic AI in the context of energy and subsurface workflows — what agents are, how they differ from traditional automation and ML, and how they are reshaping the way the energy industry works. Industry use cases are discussed to illustrate where agents are adding value. The talk also addresses challenges in developing and deploying agents — hallucination risk, data & infrastructure readiness, trust, and security — and explores what becomes possible when agents operate continuously at portfolio scale.

Speaker biography

Kumar is a seasoned technology leader and AI-driven enterprise transformation expert with over 25 years of experience delivering innovative solutions. Committed to responsible AI, he currently leads Generative AI initiatives for the energy sector worldwide at AWS. Prior to Amazon, Kumar was instrumental in scaling two energy startups from inception, guiding their strategy, sales, and product management to success.

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Un-Young Lim

QI Workflow Automation through the Integration of Physics-Based Machine Learning and Sampling Methods

Thursday, April 23 | 8:30-9:00 AM | Chevron



Chevron



Talk overview

This presentation introduces a fully automated quantitative seismic interpretation (QI) workflow that integrates depth calibration, wavelet estimation, and AVA inversion to generate consistent reservoir property predictions. At its core, the Automated Well-tie System (AWSM) uses Parallel Tempering Markov Chain Monte Carlo (PT-MCMC) to objectively optimize time-depth relationships and reflectivity models, enabling improved wavelet estimation and Physics Informed & Deep Neural Network based AVA inversion that align closely with well log data. A Midland Basin example shows that small depth-calibration differences can significantly impact inversion quality, underscoring the value of automated, bias-free well tying.

The workflow is extended with BootNet, a physics-based ensemble network, uncertainty-aware AVA inversion that combines bootstrapped data with deep neural networks trained on rock-physics-calibrated synthetic data. BootNet produces higher-resolution, less noisy estimates of acoustic impedance, V_p/V_s , and density while efficiently quantifying prediction uncertainty. Together, these methods deliver a scalable, end-to-end QI solution that improves accuracy, confidence, and efficiency in seismic interpretation.

Speaker biography

Un-Young Lim is a Lead Geophysicist at Chevron, based in Houston, Texas, where he focuses on quantitative seismic interpretation, rock physics, and the application of machine learning to subsurface characterization. He holds a Ph.D. in Geophysics from Texas A&M University and a Master's and Bachelor's degrees from the University of Houston and Korea University, respectively. At Chevron, his work spans automated seismic depth calibration, AVA inversion, and physics-informed deep learning workflows for reservoir property prediction and uncertainty quantification. Dr. Lim has authored and co-authored numerous technical papers presented at SEG, IMAGE, AAPG, and URTeC, with research contributions in seismic inversion, shale characterization, and data-driven geophysics. He has been recognized with multiple Chevron honors, including the Subsurface Excellence Award, and is an active contributor to the geophysical community through applied research and technical innovation.



Katie Gurses

Advancing Integrated Subsurface Workflows through Rapid Technology Deployment and Digital Enablement

Thursday, April 23 | 9:00-9:30 AM | bp



bp

Talk overview

High-quality subsurface decision-making requires rapid, rigorous interpretation, preservation of geological intent across modelling workflows, early and repeatable integration of seismic, petrophysical, and engineering data; consistent uncertainty exploration and verification. The Rapid Integration organization was established in 2020 specifically to accelerate these workflows and overcome long-standing silos between geoscience, reservoir engineering, and digital technology groups. Four teams - Rapid Interpretation, Rapid Geology, Rapid Analysis, and Rapid 4D - work closely with bp's Digital Technology and Oil & Gas Technology groups to bring cutting-edge tools into operational use while ensuring workflows remain technically robust, scalable, and business-relevant.

Rapid Integration follows a tri-party prioritization process - discipline priorities × regional business needs × technology capabilities - to ensure that digital spend and technical evaluation efforts are aligned with value. Activities include evaluations of AI interpretation tools, seismic delivery solutions, forward modelling platforms, and stratigraphic modelling innovations. Digital teams simultaneously support data integration, legacy-tool clean-up, and the adoption of modern, cloud-enabled architectures that reduce friction in tool deployment.

Speaker biography

Katie Gurses is a senior geologist at bp with more than 25 years of experience spanning exploration to production across multiple basins in bp's global portfolio. Over the past four years, her work has focused on advancing seismic interpretation workflows by driving the adoption of machine learning, automation, and digital enablement within bp's subsurface toolkit. In this talk, Katie will share lessons learned from rapidly deploying technology to advance integrated subsurface workflows, including modern interpretation, reservoir modeling, and 4D analysis.

Deborah Sacrey

Machine Learning: The Next Disruptive Technology Changing Sub-Surface Interpretation

Thursday, April 23 | 10:00-10:30 AM | Geophysical Insights



Geophysical Insights



Talk overview

Disruptive technology refers to ‘an innovation that significantly alters the way things are done, often creating new markets, processes, or services, and sometimes displacing existing ones – Investopedia.

The first disruptive technology to change mankind was the control of fire. In the last few centuries, one might list the discovery and control of electricity, the internal combustion engine, flying, computers, and the internet as disruptive technologies which have changed mankind.

In the upstream petroleum industry, the invention of logging tools and the understanding of reflection of seismic data are major transformative technologies which progressed the understanding of the sub-surface for purposes of finding hydrocarbons. Incrementally, one might add the advent of 3D seismic surveys, bright spots, AVO and the creation of many new attributes to the list. But in the end, geoscientists have not changed the way they have interpreted the sub-surface in the last 100 years. Until now, Multi-attribute Machine Learning using sample statistics is the next major disruptive technology which will alter the way geoscientists will view and interpret what is beneath our feet.

This presentation will focus upon how using Machine Learning can help in understanding shingled sands in the Strawn Formation in Southern Oklahoma in the process of extending the drilling program to down dip wells. Over 20 wells were drilled in trying to delineate the field, with 18 being economically successful.

Speaker biography

Deborah is a geologist/geophysicist with 50 years of oil and gas exploration experience in both North America and internationally. She received her degree in Geology from the University of Oklahoma in 1976 and immediately started working for Gulf Oil in their Oklahoma City offices. She started her own company, Auburn Energy, in 1990 and built her first geophysical workstation using Kingdom software in 1996. She helped SMT/IHS for 18 years in developing and testing Kingdom Software. She specializes in 2D and 3D interpretation for clients in the US and internationally. For the past 15 years she has been part of the Geophysical Insights team devoted to understanding multi-attribute neural analysis of seismic data for the geoscience community. She has become an expert in the use of Paradise™ software and has had many discoveries for clients using multi-attribute neural analysis. Deborah has been very active in the geological community. She is past President of the AAPG, past national President of SIPES (Society of Independent Professional Earth Scientists), past President of the Division of Professional Affairs of AAPG (American Association of Petroleum Geologists), Past Treasurer of AAPG and Past President of the Houston Geological Society. She is also Past President of the Gulf Coast Association of Geological Societies and has been on the Advisory Council of AAPG twice. Deborah is also a DPA Certified Petroleum Geologist #4014 and DPA Certified Petroleum Geophysicist #2. She is currently the Chair of the Advisory Council of AAPG. She belongs to AAPG, SIPES, Houston Geological Society, South Texas Geological Society and the Oklahoma City Geological Society (OCGS).



Prasenjit Roy

Connecting the QI AI Stack: AVA Screening, ML-Enhanced Inversion, and Workflow Integration

Thursday, April 23 | 10:30-11:00 AM | Chevron



Chevron



Talk overview

In the field of exploration & asset development, we are dominantly focusing on deeper and more complex reservoirs. The latest improvements in cloud computational infrastructure, artificial intelligence algorithms, and seismic technologies like amplitude preserving Least-Squares Reverse Time Migration, and Full Waveform Inversion (FWI) are making automated end-to-end solutions possible. In my presentation, I will demonstrate how machine learning can streamline workflows and enable integrated reservoir characterization, equipping explorers with powerful tools to enhance accuracy in decision making and decrease project cycle times.

Speaker biography

I am QI geophysicist and full-stack software developer at Chevron (20+ years) with a passion for building state of the art technology. Over the years, I have developed and deployed multiple successful geophysical applications and am the inventor on six granted patents. My work spans the full spectrum of applied geoscience and software development, with a focus on scalable, data-driven solutions that deliver step-change improvements in efficiency and accuracy.



Bob Fryklund

Exploration - Thinking Differently

Thursday, April 23 | 1:35-2:10 PM | S&P Global Commodity Insights



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Talk overview

Exploration is going through an existential time . What role should it play?

- Can we shorten the process?
- How do we do more with less?
- What are the implications of AI for the explorer of the future?

The discussion will offer some insights into how to tackle those questions and what role seismic plays.

Speaker biography

Bob Fryklund is the Chief Upstream Strategist at S&P Global Commodity Insights. Bob has 46 years experience working for majors, independents, and consultancies, with more than half of that in executive leadership roles. He focuses on advising companies, boards and leadership teams on areas that lead to high impact value creation – portfolio's , IPO's, restructuring, M&A. He is globally recognized expert on Upstream and won the AAPG Presidents award for his Thought Leadership. A frequent keynote speaker for both public and private events, he is also a well-known moderator and media source. Bob gives back to the industry via mentoring women leaders, and he also sits on multiple industry boards- IPAA, ARPEL, AAPG CAB, AAPG Trustee Associate and Hamilton College. He holds an AB in Geology from Hamilton College and resides in Houston, Texas.



Frederic Billette

A Seismic Transformation Story: The Gulf of America (Mexico) Great Experiment

Thursday, April 23 | 2:10-2:45 PM | bp



bp

Talk overview

In this paper, we will reflect on the formidable advancements in seismic imaging achieved by the industry over the past 10 years in the Gulf of America (Mexico), including seismic acquisition and seismic processing elements. What were the key ingredients, where are we now, what is next for this basin, and what is happening in the rest of the world. The paper will be illustrated by examples from seismic contractors and bp proprietary projects.

Speaker biography

Frederic holds a Ph.D. in Geophysics from Paris School of Mines, France, where he was hired from by bp. After technical roles in Technology and Exploration, he held a variety of management roles, including bp Seismic Imaging R&D Team Leader, Internal Seismic Processing Team Leader, and bp Western Hemisphere Seismic Delivery Manager. He is now the Applied Geophysics Adviser and the Global Exploration Seismic Lead.

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Wafik Beydoun

2026 and Beyond: The Cultural Skills Geophysicists Will Need

Thursday, April 23 | 3:15-3:50 PM | Global Energy & Cross-Cultural Leadership



Global Energy & Cross-Cultural Leadership

Talk overview

In today's global geophysics projects, being technically right is no longer enough—many strong ideas fail simply because they don't translate across cultures. How people lead, communicate, decide, and reason often makes the difference between a project moving forward or quietly stalling. This talk introduces the Cultural Compass and its country cards—practical tools to help you decode these differences and adapt in real time. More importantly, it will give you a clear sense of why these skills matter, offering a practical starting point to strengthen your impact in international projects.

Speaker biography

With over 40 years of international experience in the energy sector, Wafik Beydoun has lived and worked across more than 40 countries, leading major projects and partnerships in diverse cultural and operational environments. A former senior executive at TotalEnergies, with leadership roles at ADNOC and the International Association of Oil and Gas Producers, he brings deep insight into how culture shapes strategy, leadership, and collaboration. He also played a significant role in professional societies and global industry events, serving on the OTC Board of Directors for nearly a decade, including as Chair in 2018–2019. Today, Wafik teaches and advises on cultural intelligence, helping professionals and students navigate cross-cultural dynamics through his course Navigating Cultural Dynamics in a Complex Global Environment. He holds a PhD in Geophysics from MIT and advanced degrees from Université Pierre et Marie Curie, and is a member of major geoscience societies, with over 100 publications to his credit.

Rocky Roden

Technology Trends Impacting Geoscience Today and in the Near Future

Thursday, April 23 | 3:50-4:25 PM | Rocky Ridge Resources



Rocky Ridge Resources



Talk overview

In geoscience interpretation, there have been numerous AI/ML approaches developed over the last few years to solve specific singular interpretation tasks such as stratigraphic analysis, fault and fracture detection, and facies distribution. Future trends include the expanded application of synthetic models and digital twinning, automation of interpretation processes, and the combining of machine learning approaches. In November 2022, Chat GPT (Large Language Model – LLM) was introduced and produced unprecedented proficiency in understanding and generating human language. Based on Transformer Architecture, it incorporates self-supervised learning (self-attention), where a model learns from unlabeled data creating its own labels based on the data's internal structure. Will LLMs like Chat GPT be the future of interacting with our geological and geophysical data?

The hottest trend in AI/ML today is Agentic AI. This approach represents autonomous, goal-oriented systems capable of independent decision-making, learning and interaction within complex environments, rather than responding to individual prompts. It consists of AI agents which are entities designed to perceive their environment through sensors, process information, and act upon that environment, all the while striving to achieve specific goals (Nash, 2025). Can Agentic AI automate our interpretation workflows?

There have been some dramatic results in seismic processing over the last few years where Full Waveform Inversion (FWI) iteratively updates an estimated subsurface model and produces corresponding synthetic data to reduce the difference (the data misfit) between the synthetic and recorded data. The objective of FWI is to match the synthetic and recorded data in a comprehensive way, such that all information in waveforms (e.g., travel times, amplitudes, converted waves, multiples, etc.) is accounted for in the data misfit. FWI has produced such impressive results that its requirements have influenced the marine seismic acquisition industry to dominantly employ OBN systems.

Today the necessary computer power and associated architecture for advanced technologies like AI/ML and FWI are centered around CPU/GPU configurations, High Performance Computing (HPC), and The Cloud. However, most experts indicate within a decade, quantum computers will be fundamentally operational and estimates of the increases in today's computational speed could be from millions to exponentially faster. What geoscience challenges could be resolved in a world with fully operational quantum computers?



Rocky Roden

Technology Trends Impacting Geoscience Today and in the Near Future

Thursday, April 23 | 3:50-4:25 PM | Rocky Ridge Resources



Rocky Ridge Resources



Speaker biography

Rocky has 50 years in the industry as a Geophysicist, Exploration/Development Manager, Director of Applied Technology, and Chief Geophysicist. Previously with Texaco, Pogo Producing, Maxus Energy, YPF Maxus, and Repsol (retired as Chief Geophysicist 2001). Presently he owns his own consulting company, Rocky Ridge Resources, and has consulted with dozens of oil companies from around the world on geoscience technical issues, risk analysis evaluations, and reserve/resource calculations. He has authored or co-authored over 100 technical publications and conference presentations on various aspects of seismic interpretation, AVO analysis, amplitude risk assessment, and geoscience machine learning. Ex-Chairman of The Leading Edge editorial board and currently senior advisor with Geophysical Insights developing machine learning advances for geoscience interpretation. He is a principal in the Rose and Associates DHI Risk Analysis Consortium which has involved over 85 oil companies from around the world since 2001, developing a seismic amplitude risk analysis program and worldwide prospect database. Rocky has a B.S. from Lamar University and a M.S. from Texas A&M. He is a member of the SEG, AAPG, HGS, GSH, EAGE and SIPES.

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A look ahead across the next several months of GSH programming.

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APR 28

GSH Gets Down to Business with TGS

Live Webinar

MAY 7
Monthly

Unconventional & New Energies SIG

TGS Houston

MAY 12
Monthly

Data Processing & Acquisition SIG

SLB Houston

MAY 13
Monthly

Rock Physics SIG

GSH Geoscience Center & Museum

MAY 14

GSH Texas Hold Em Poker Tournament

TGS Houston

MAY 20
Monthly

Tech Lunch

Ikon Science Houston

MAY 21
Monthly

Potential Fields SIG

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Unconventional & New Energies SIG

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SPEAKER:
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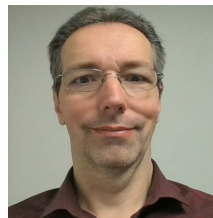
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