

EAGE

EUROPEAN
ASSOCIATION OF
GEOLOGICAL ENGINEERS



FIRST HGS/EAGE CONFERENCE ON LATIN AMERICA

South American Petroleum Plays for Future Decades of the Third Millennium

19-20 NOVEMBER 2019 • NORRIS CENTER, HOUSTON TX, UNITED STATES

www.hgs.org | www.eage.org

WELCOME TO

the First HGS/EAGE Conference on Latin America themed “South American Petroleum Plays for Future Decades of the Third Millennium”

We are pleased to welcome you to the 1st HGS/EAGE meeting on Latin America that will take place in Houston, USA from 19–20 November 2019. We are excited to offer you this interesting event in Houston. It will bring together the knowledge of two well known societies, namely HGS and EAGE, the European Association of Geoscientists and Engineers.

While the petroleum industry is still experiencing the biggest economic downturn seen for decades, our industry-based colleagues and academics continue to bring new tools, influence and understanding to exploration and production activities. The world needs energy and therefore it needs you to participate in events like this. The downturn also offers opportunities especially in the field of new technologies and efficiency.

We strongly believe that the joint HGS/EAGE 2019 event will bring together a strong, successful conference focused on Latin America and widely attended by academic and industry participants. We are preparing a program with broad appeal, scientific focus and networking opportunities. We are expecting 300 participants from the US, Europe and Latin America with oral and poster presentations. In addition an exhibition is present to facilitate knowledge transfer and business among the Geoscience community. On behalf of the committee, we hope to see you in Houston!

Cheryl Desforges, Mariela Araujo Fresky and Steven Getz
Conference chairs

EAGE

The European Association of Geoscientists and Engineers (EAGE) is a global professional, non-profit association for geoscientists and engineers with 19,000 members worldwide. The objective is to collect and distribute technical knowledge. EAGE organizes events and publishes a monthly magazine for its members and 5 scientific journals. All members of EAGE are professionally involved in (or studying) geophysics, petroleum exploration, geology, reservoir engineering, mining and mineral exploration, civil engineering, tunneling and environmental matters. EAGE's Head Office is located in the Netherlands with regional offices in Moscow, Dubai, Kuala Lumpur and Bogota.

HGS

The Houston Geological Society is a professional society for petroleum, energy and environmental geoscientists. The HGS supports continuing education, networking, outreach to students, student scholarships and young professional activities, such as NeoGeos. HGS organizes multiple monthly events and publishes a monthly magazine for its members. This monthly magazine is also published in the AAPG Datapages. HGS is comprised mainly of petroleum geologists (but some are mining and environmental geologists.) Our associated members (who are not degreed geologists) include: geophysicists, petrophysicists, engineers (petroleum and civil) as well as mineral explorationists and environmentalists. Headquarters for the HGS is in Houston, Texas.



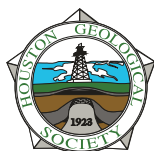
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Oral Presentations – Tuesday, November 19, 2019

| | | |
|----------------------|--|--|
| 7:00 | Registration and Coffee | |
| 8:00 - 8:05 | Introduction Session Chairs: Jon Blickwede, Steve Getz | |
| | Business Side of Exploration Session Chair: Steve Getz | |
| 8:05 - 8:40 | Diversity of Opportunity Drives Exploration Activity and Value | Alana Tischuk , <i>Wood Mackenzie</i> |
| | Regional Plays and Source Rock Session Chairs: Luis Carlos Carvajal-Arenas, Lucia Torrado | |
| 8:40 - 9:15 | Greater Caribbean Petroleum Systems | Craig Schiefelbein , <i>Geochemical Solutions International (GSI)</i> and William Dickson , <i>DIGs</i> |
| 9:15 - 9:50 | The Lone Ranger or a Posse of Prospects? A Deepwater Playground from Guyana to Cape Town | William Dickson , <i>DIGs</i> ; Craig Schiefelbein , <i>Geochemical Solutions International (GSI)</i> and David Rajmon, <i>Geosphix</i> |
| 9:50 - 10:05 | Break | |
| | Exploration Plays: Uruguay – Argentina Session Chairs: Kristin Frederick Boyd, Mariela Araujo Fresky | |
| 10:05 - 10:40 | New deepwater Clastic Upper Springhill Play in Malvinas Basin, Offshore Argentina | Swati Ghoshal , Michael Vinson, Gabriel Ritter, Tomieka Searcy and Ross Benthien, <i>BP America</i> |
| 10:40 - 11:15 | Offshore Northern Argentina – A New Frontier | Steve DeVito , <i>TGS</i> |
| 11:15 - 11:50 | Solving the Passive Margin Play Map Paradox Offshore Uruguay – The Value Density Proposition | Katya Casey , <i>Actus Veritas Geoscience LLC</i> |
| 11:55 - 1:20 | Lunch: Keynote Address Introduction: Kristin Frederick Boyd | |
| | Shell Upstream Argentina: Creating Value through Technical and Operational Excellence in a Global Super Basin | Ed Kruijs , <i>Shell</i> |
| 1:20 - 1:55 | Remote Sensing 2.0: Innovative Multispectral Satellite Data Analytics | James Reardon , Dmitry Vilbaum and Alexandre Agaian, <i>Terra Energy and Resource Technologies</i> and Scott C. Sechrist, <i>Acoustic Geoscience Consulting</i> |
| | Exploration Plays: Brazil Session Chairs: Ceri Davies, Lucia Torrado | |
| 1:55 - 2:30 | Deep Learning Assisted Seismic Interpretation Technology Applied to Evaporite Sequences: Case Study Offshore Santos Basin | Ana Krueger , Paul Endressen, Bode Omoboya and Benjamin Lartigue, <i>BlueWare Inc</i> |
| 2:30 - 2:45 | Break | |
| 2:45 - 3:20 | Deepwater Santos Basin: Huge Undrilled Pre-Salt Potential | Cian O'Reilly and James Keay, <i>TGS</i> |
| 3:20 - 3:55 | Cretaceous Plays of Deep-Water Foz do Amazonas Basin and Amazon Cone Area, North Brazil: Analog Petroleum Systems of the Equatorial Atlantic Passive Margins | Lucia Torrado , <i>University of Houston. Now at AGI Exploration, LLC</i> |
| | Exploration Plays: Venezuela – Guyana Session Chairs: Bob Fryklund, Seva Egorov | |
| 3:55 - 4:30 | Guyana-Suriname Deep Water Hydrocarbon System, Three Rivers and Two Source Rocks | Ken Nibbelink , Dick Boyce, Mosab Nasser and John Boyce, <i>JHI Associates, Inc (BVI)</i> |
| 4:30 - 5:05 | Sand Characterization and Provenance of the Guyanese Rivers – Implications for Offshore Sediment Development | Ross Taylor , <i>CGG</i> |



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Oral Presentations – Wednesday, November 20, 2019

| | | |
|----------------------|--|---|
| 7:00 | Registration and Coffee | |
| 8:00 - 8:05 | Introduction Session Chair: Pete Emmet | |
| | Business Side of Exploration Session Chair: Pete Emmet | |
| 8:05 - 8:40 | Common Pitfalls in Seismic Imaging in Overthrust Geology and How to Address Them – a Collection of Case Studies from South America | Thomas Fieseler , <i>TEECsolutions GmbH</i> |
| | Exploration Plays: Venezuela – Guyana Session Chairs: Bob Fryklund, Seva Egorov | |
| 8:40 - 9:15 | The Cretaceous Source Rocks from East Venezuela, Trinidad, Guyana/ Suriname Basins, NE South America | Francia Galea Alvarez , <i>Actus Veritas Geoscience, LLC</i> |
| 9:15 - 9:50 | Insights into the Geological Framework of Northeastern South America | Marel Sanchez , <i>Actus Veritas Geoscience, LLC</i> |
| 9:50 - 10:05 | Break | |
| | Regional Plays of the Caribbean Session Chairs: Bob Weiner, Carolina Mejia | |
| 10:05 - 10:40 | The Case for Paleogene Convergent Tectonism Along Northern South America BEFORE Diachronous Oblique Caribbean Collision | Jim Pindell and Diego Villagomez, <i>Tectonic Analysis Ltd</i> |
| 10:40 - 11:15 | An Emerging Play in the Caribbean: Tertiary Carbonate Buildups | Peter Lanzarone , Carlos Louzada, Stefan Punnette, Hui Jin, Michael Vinson, Jesse Koch and Scott Lepley, <i>BP America</i> |
| 11:15 - 11:50 | Character of the Caribbean Crust Revealed: Observations of New and Reprocessed Seismic Data | Kyle Reuber , Jim Pindell, Antara Goswami, Mattie Friday, Chuck Campbell, Andy Bliss and Brian Horn; <i>ION E&P Advisors</i> and <i>Tectonic Analysis Ltd</i> |
| 11:55 - 1:20 | Lunch: Keynote Address Introduction: Steve Getz | |
| | Energy Opportunities in Latin America: Investing Through the Political Cycles | Richard Chuchla , <i>Energy and Earth Resources Graduate Program, Jackson School, UT Austin</i> |
| | Western Caribbean Session Chairs: Steve Getz, Carolina Mejia | |
| 1:20 - 1:55 | Petroleum Potential of the Colombia Basin: Insights from New Rock Evaluation Analyses for Regional Seismic Observations | Luis Carlos Carvajal-Arenas and Lucia Torrado, <i>University of Houston. Now at AGI Exploration, LLC</i> , and Paul Mann, <i>Earth and Atmospheric Sciences, The University of Houston</i> |
| 1:55 - 2:30 | Structural Evolution and Hydrocarbon Prospectivity in Offshore Panama in the Caribbean | Antara Goswami , Jim Pindell, Robert Erlich, Kyle Reuber, Tim Matava and Andy Bliss, <i>ION E&P Advisors, Tectonic Analysis Ltd</i> and <i>Cayo Energy LP</i> |
| 2:30 - 2:45 | Break | |
| 2:45 - 3:20 | Exploration Potential of the Northern Offshore Region of Jamaica | Gregg H. Blake , <i>Blake Geological Services, LLC</i> , and Raymond Thompson, Herona Thompson and Brian Richardson, <i>Dept of Oil and Gas, PCJ</i> |
| | Central America Session Chairs: Pete Emmet, Hector San-Martin | |
| 3:20 - 3:55 | Late Cretaceous–Cenozoic Paleogeographic Evolution of the Nicaraguan Platform, Western Caribbean Sea: Implications for Hydrocarbon Potential | Lucia Torrado and Luis Carlos Carvajal-Arenas, <i>University of Houston. Now at AGI Exploration, LLC</i> |
| 3:55 - 4:30 | The Petroleum Geology of Offshore Honduras | Christopher Matchette-Downes , <i>CaribX (UK) Limited</i> |
| 4:30 - 5:05 | Petroleum Geology and Potential of Guatemala | Mark R. Bitter , <i>Marbit Geoconsulting, LLC</i> |



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Posters – 19-20 November 2019

Poster Session Chair: Mike Effler

| Affiliation | Name | Poster Topic |
|---|-------------------------|--|
| The University of Texas | Abdulah Eljalafi | Stratigraphic Architecture of Isolated Cretaceous Carbonate Platforms: A Case Study from the El Doctor Platform, Central Mexico |
| University of Houston | Weston Charles | Regional Flexure of the Caribbean Intraplate Area as a Result of its Subduction Beneath the Northern South America Margin |
| University of Houston | Lila M Bishop | Tectonic and Stratigraphic Stages and Hydrocarbon Prospectivity of the Sandino Forearc Basin of Nicaragua and Costa Rica Inferred from Seismic Mapping, Seismic Facies Analysis, and 2D Basin Modeling |
| University of Houston | Christian Montes | Determining the Amount of Left-lateral Displacement along the Santa Marta-Bucaramanga Fault, Colombia |
| University of Houston | Bryan Moore | Mapping the Continent-ocean Boundary Along the Gulf of Mexico and Circum-Atlantic Conjugate Margins Using Marine Satellite Gravity Data |
| University of Houston | Sean Romito | Caribbean Basement Terranes; Boundaries, Sedimentary Thickness, Subsidence Histories, and Regional Controls on Hydrocarbon Source Rocks, Oil Seeps, and Shows |
| University of Houston | Lei Sun | Tectonic Geomorphology and Gravity Modeling Reveal the Crustal Structure of Hispaniola and Impact on its Prospectivity |
| University of Houston/ Northeast Petroleum University | Anqi Shen | Flow Driven by Capillary Pressure in Shale Nanopores and Applications |
| University of Utah | Dhrupada Beti | Application of a New Resource Assessment Workflow to Offshore Suriname: Correction for Mineral Matrix Effect and Reclassification of Organofacies |
| University of Utah | Sudeep Kanungo | South Atlantic Deep-water Source Rock Systems from Offshore Suriname to the Falkland Plateau |
| Canopy E&P Services LLC | Rogers Hardy | The Quest from Shallow Shelf to Deepwater in Latin America: How We Got Where We Are, Where are We Going |
| Fugro | Stephanie Ingle | De-risking Frontier Offshore Exploration in Latin America with Seep Hunting and Geochemical Campaigns |
| ION Geophysical Corporation | Felix Diaz | New Insights on the Petroleum System in the Salaverry Basin-Offshore Peru |

EXHIBITING OPPORTUNITIES

Main reason for exhibiting:

- Meet existing and acquire new customers
- Introduce new products and services
- Demonstrate your technology and equipment
- Monitor the competition!
- Expand your network

Exhibitors benefits

When booking a stand for HGS/EAGE 2019 exhibitors will benefit from the following

- 2 exhibitors passes good for admittance to the exhibit hall only
- Exposure on the EAGE and HGS website
- Free access to the receptions
- Free lunches

To secure booth space, please complete the contract at the end of this guide and send it to us by email (office@hgs.org). Please note that all incoming contracts will be handled on first come first served basis.

SPONSORING OPPORTUNITIES

With an array of unique promotional opportunities, we can help you design the perfect program to enhance your company's experience at HGS/EAGE2019.

Why become a sponsor

When you are a corporate sponsor you get high visibility in a qualitative and uncluttered environment that makes your message stand out. HGS and EAGE events are synonymous with quality, with proven track records in the past. The HGS/EAGE 2019 program offers a diverse menu that will for sure help you reach your target audience.

Sponsoring will enable you to:

- Increase your visibility before a national, regional and international audience.
- Enhance your corporate image.
- Reach an influential, exclusive audience.
- Break through the media clutter.
- Associate your company with HGS and EAGE

CONTACT US FOR MORE INFORMATION

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EXHIBITORS

With the purchase of a 10' X 10' space you will get one table, 2 chairs and a waste basket.

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Exhibitor's booth fee of \$2,000.00

EXHIBIT SPACE ORDER \$2000.00 per 10' X 10' booth space: _____ booth(s) + _____ presentation(s) = \$ _____

Contact the HGS office for booth selection 713-463-9476 Booth # _____

Do you require Internet access at your booth? Yes No Do you require electricity at your booth? Yes No

(You must purchase electricity from the venue, HGS will send out the required form.)

SPONSORSHIP OPPORTUNITIES

| GOLD | SILVER | Sponsorship Opportunities | Sponsorship Amount |
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| <input type="checkbox"/> \$10,000 | \$5,000 | Lunch – Day One | |
| <input type="checkbox"/> \$10,000 | \$5,000 | Lunch – Day Two | |
| <input type="checkbox"/> \$9,000 | \$4,500 | Day One Reception – 2 Drinks plus Food | |
| <input type="checkbox"/> \$9,000 | \$4,500 | Day Two Reception – 2 Drinks plus Food | |
| <input type="checkbox"/> \$5,000 | \$2,500 | Flash Drive of Extended Abstracts | |
| <input type="checkbox"/> \$5,000 | \$2,500 | Technical Session Day 1 | |
| <input type="checkbox"/> \$5,000 | \$2,500 | Technical Session Day 2 | |
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| <input type="checkbox"/> \$5,000 | \$2,500 | Breakfast Day Two | |
| <input type="checkbox"/> \$5,000 | \$2,500 | AV Equipment and Services | |
| <input type="checkbox"/> \$5,000 | \$2,500 | AM & PM Break Food & Beverage Day One | |
| <input type="checkbox"/> \$5,000 | \$2,500 | AM & PM Break Food & Beverage Day Two | |
| <input type="checkbox"/> \$5,000 | NA | Lanyards | |
| <input type="checkbox"/> \$2,500 | \$1,250 | Poster Gallery | |
| <input type="checkbox"/> \$5,000 | NA | Delegate Bags | |
| <input type="checkbox"/> \$1,000 | \$500 | Speaker Gifts | |
| <input type="checkbox"/> \$2,000 | NA | WIFI | |
| <input type="checkbox"/> \$1,000 | \$500 | Conference Signage | |
| <input type="checkbox"/> \$1,200 | \$600 | Printing Proceedings Catalogue | |
| <input type="checkbox"/> \$500 | \$250 | Note Pads, Pens | |
| <input type="checkbox"/> \$ | \$ | General Fund – You fill in the amount | |