

# AAPG ICE 2019

International Conference & Exhibition

AAPG

27-30 August  
Buenos Aires,  
Argentina



*EXPANDING FRONTIERS AND UNLOCKING  
RESOURCES FOR FUTURE GENERATIONS*



TECHNICAL PROGRAM  
& REGISTRATION ANNOUNCEMENT MAGAZINE

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## MEDIA



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# LETTER FROM THE CHAIR

On behalf of The American Association of Petroleum Geologists (AAPG) and the Argentine Association of Petroleum Geologists and Geophysicists (AAGGP), I am pleased to invite you to the AAPG 2019 International Conference and Exhibition (ICE) in Buenos Aires, Argentina, 27–30 August.

The conference theme, “Expanding Frontiers and Unlocking Resources for Future Generations,” is key for those of us in industry who seek to stay resilient while facing a challenging energy future. This global scenario will lead the conference agenda.

The ICE technical program encompasses eight themes: Basins and Petroleum Systems; Unconventional Resources; Structural Geology; Tectonics and Geomechanics; Stratigraphy and Sedimentology; Geophysics, Deep-Water Exploration and Production; Mature Fields; and Energy and Environment. The program also features special sessions dedicated to Global Super Basins and Challenges and Opportunities for Unconventional Reservoirs. As usual, we will offer short courses, field trips, and special programs for students and young professionals.

The regional view of the energy business is also an important part of the ICE agenda, which includes Special Country Sessions, a Regulators’ Forum, and National and International Oil Companies’ Forums. These high-level sessions will provide insights from the organizations tasked with implementing energy policies and from company leaders facing the challenges of future energy scenarios.

Finally, ICE 2019 provides an excellent opportunity for you to learn from and interact with different geoscientists from the global community in one of South America’s most iconic cities.

All this is possible thanks to the contributions of companies, engagement from AAPG and AAGGP, and the enormous effort from countless volunteers.

I look forward to meeting you in the wonderful city of Buenos Aires, Argentina.



A handwritten signature in black ink, appearing to read 'C. Colo', written over a horizontal line.

**Carlos Colo**  
*General Chair*  
*ICE 2019 Organizing Committee*



# ORGANIZING COMMITTEE



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**Sofia Jorge**  
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Student Activities  
Co-Chair



**Angela Melli**  
University of La Plata  
Judging Chair

# Memoir 117: Petroleum Basins and Hydrocarbon Potential of the Andes of Peru and Bolivia

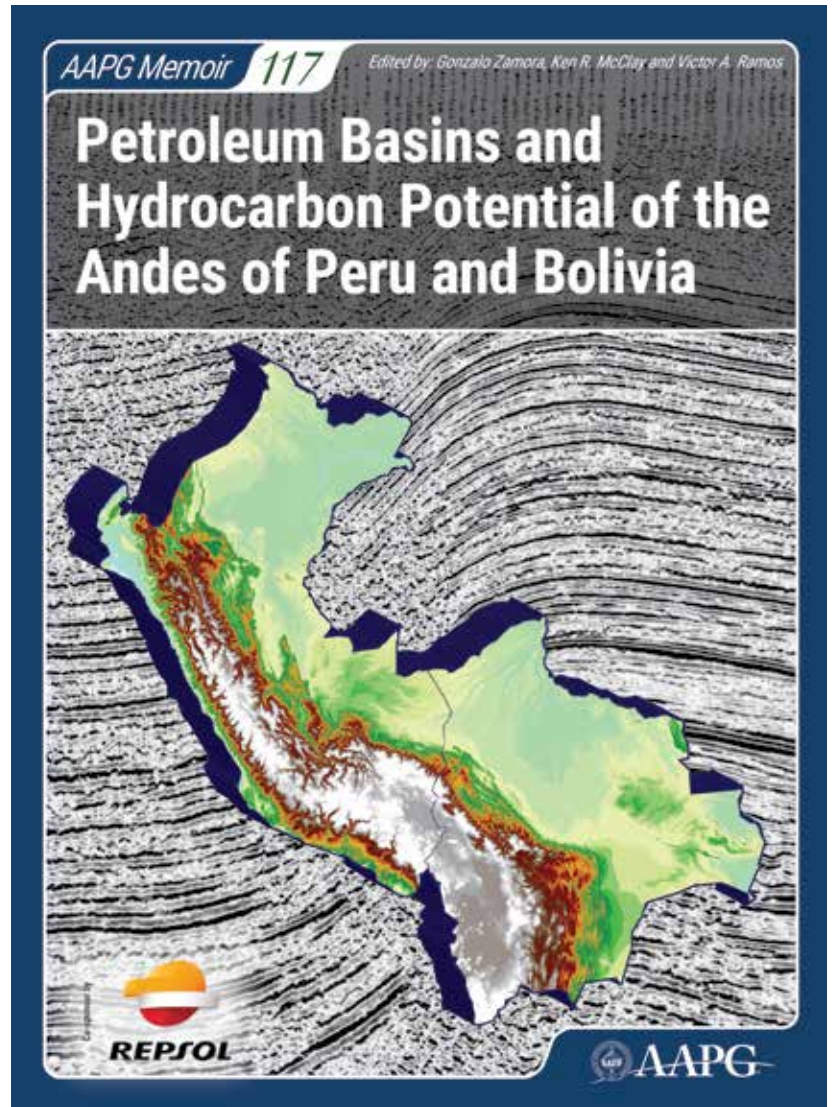
*Edited by G. Zamora, K. R. McClay, and V. A. Ramos*

AAPG Memoir 117 is the first international book dedicated to the petroleum geology and exploration potential of Peru and Bolivia. The geological evolution of the sedimentary basins of the sub-Andean and forearc regions of Peru and Bolivia was, to a large extent, controlled by the development of the South American margin of western Gondwana, setting up a favorable environment to the deposition of a variety of source rocks and reservoirs. Uplift of the Andean Cordillera during the Cenozoic generated a diversity of structural styles controlled by the mechanical stratigraphy of the thick sedimentary sequences and the influences of pre-existing structures and older basement fabrics.

This publication represents the most up-to-date, comprehensive analysis of the area since the publication in 1995 of AAPG Memoir 62 on the Petroleum Basins of South America. In the meantime, there has been very important exploration efforts that resulted in the discovery of 8.7 BBOE of oil and gas in the sub-Andean areas of northern Argentina, Bolivia, and Peru, with 85% of these discoveries found in the fold belt in structurally complex zones. Of these, the largest were found in the Chaco sub-Andean zone of Bolivia (5.3 BBOE), followed by the Camisea area of Peru (2.1 million BOE). However, the latest significant discoveries in Bolivia took place in 2004 (Incahuasi) and in 2008–2009 in Peru (Kinteroni and Urubamba, respectively). Activity has diminished considerably in the area during the past 10 years, when only 67 exploratory wells were drilled, resulting in a much lower volume of hydrocarbons discovered than in prior decades (1.3 BBOE).

Exploration activities in Peru and Bolivia have proven the existence of large gas fields with proven reserves greater than 10 TCF. However, a large number of prospects, mainly related to undrilled structures or deep targets, together with several frontier basins with exploration potential, make Peru and Bolivia very attractive for exploration.

This Memoir is critical for exploration geoscientists in the petroleum industry, research institutions, and academia in order to understand the diverse petroleum systems, the tectonic and geologic evolution of sedimentary basins, and the development of hydrocarbon fields in these regions of South America.



**Product #1303**

**Price: Member \$131/List \$262**

**CONTACT INFO** AAPG Customer Experience Center | [CECInbox@aapg.org](mailto:CECInbox@aapg.org)

# SCHEDULE AT A GLANCE

**Subject to change. Visit [ICEEvent.org](http://ICEEvent.org) for detailed information.**

## Saturday, 24 August

- 09:00–16:00 Pre-Conference Field Trip #1: Cuyo Basin, Mendoza Province, Argentina and Its Petroleum Systems (Saturday, 24 August–Monday, 26 August)
- 09:00–18:00 Pre-Conference Field Trip #2: Petroleum Systems of Neuquen Basin, Neuquen Province, Argentina (Saturday, 24 August–Monday, 26 August)
- 10:00–18:00 Pre-Conference Field Trip #3: Andean Compressive Deformation Affecting a Brazilian Pre-Salt Stratigraphic Analogue. Exploring the Cretaceous/Paleogene Boundary, Salta Province, Argentina (Saturday, 24 August–Monday, 26 August)
- 10:00–22:00 Pre-Conference Field Trip #4: Sedimentary Basins of the Buenos Aires Province, Argentina, and Its Hydrocarbons Exploration Potential (Saturday, 24 August–Monday, 26 August)

## Monday, 26 August

- 08:00–16:00 Pre-Conference Short Course #1 (Day One): Introduction to Unconventional Shale Plays: Learnings From Vaca Muerta Formation
- 08:00–16:00 Pre-Conference Short Course #2 (Day One): Natural Fractures Core Workshop
- 08:00–16:00 Pre-Conference Short Course #3 (Day One): Integrating Core, WellLog, and Outcrop Data into Predictive High-Resolution Sequence Stratigraphic Models
- 08:30–17:00 Pre-Conference Short Course #5 (Day One): Advanced Sequence Stratigraphic Applications for Exploration
- 09:00–17:00 Registration

## Tuesday, 27 August

- 08:00–16:00 Pre-Conference Short Course #1 (Day Two): Introduction to Unconventional Shale Plays: Learnings From Vaca Muerta Formation
- 08:00–16:00 Pre-Conference Short Course #2 (Day Two): Natural Fractures Core Workshop
- 08:00–16:00 Pre-Conference Short Course #3 (Day Two): Integrating Core, WellLog, and Outcrop Data into Predictive High-Resolution Sequence Stratigraphic Models
- 08:00–16:00 Pre-Conference Short Course #6: Argentina Oil and Gas Petroleum System
- 08:30–16:00 Pre-Conference Short Course #5 (Day Two): Advanced Sequence Stratigraphic Applications for Exploration
- 09:00–19:00 Registration
- 13:30–16:00 National Regulatory Agency Forum
- 16:00–17:00 Young Professionals Meet and Greet
- 17:00–18:00 Opening Ceremony
- 18:00–20:00 Exhibition and Icebreaker Reception

## Wednesday, 28 August

- 07:30–17:30 Registration
- 08:30–10:00 Plenary Session: Latin America Oil and Gas Forum
- 09:00–12:00 Poster Sessions
- 09:00–18:30 Exhibition
- 10:15–11:15 Refreshment Break
- 10:30–12:30 Plenary Session: International Oil Company (IOC) Perspective
- 12:30–13:45 Topical Luncheon: The Energy Transition Triad
- 13:55–15:20 Panel: Special Country Session – Argentina
- 14:00–17:00 Poster Sessions
- 15:30–16:30 Refreshment Break
- 16:05–17:30 Panel: Special Country Session – Brazil
- 17:30–18:30 End-of-Day Reception
- 18:30–19:30 Student and Young Professional Reception

## Thursday, 29 August

- 07:30–17:30 Registration
- 08:25–10:10 Panel: Special Country Session – Guyana-Suriname-Trinidad & Tobago
- 08:25–10:15 Oral Sessions
- 09:00–12:00 Poster Sessions
- 09:00–18:30 Exhibition
- 10:15–11:15 Refreshment Break
- 10:50–12:15 Special Session: History of Petroleum Geology
- 10:55–12:15 Panel: Special Country Session – Colombia
- 12:30–13:45 Topical Luncheon: Vaca Muerta Development from an Argentine Perspective
- 13:55–15:20 Panel: Special Country Session – Mexico
- 13:55–17:20 Oral Sessions
- 14:00–17:00 Poster Sessions
- 15:30–16:30 Refreshment Break
- 15:55–17:40 Panel: Special Country Session – Peru
- 17:30–18:30 End-of-Day Reception
- 18:30–20:00 Student-Young Professional Roundtable: Career Challenges and Opportunities for Geoscientists in an Unconventional 21st Century

## Friday, 30 August

- 07:30–12:30 Registration
- 08:25–10:10 Panel: Special Country Session – Bolivia
- 08:25–10:15 Oral Sessions
- 08:25–12:15 Super Basins of Latin America Forum
- 09:00–12:00 Poster Sessions
- 09:00–13:00 Exhibition
- 10:15–11:15 Refreshment Break
- 13:55–15:40 Oral Sessions



# [ HIGHLIGHTS ]

- ▶ Tuesday Highlights
- ▶ Wednesday Highlights
- ▶ Thursday Highlights
- ▶ Friday Highlight
- ▶ Topical Luncheons
- ▶ Special Country Sessions
- ▶ Field Trips
- ▶ Short Courses







**TUESDAY HIGHLIGHTS**

**National Regulatory Agency Forum**

**Date:** Tuesday, 27 August  
**Time:** 13:30–16:00  
**Location:** Hilton Buenos Aries  
**Co-Chairs:** Victor Vega and Elvira Gomez

Latin America holds large potential of undiscovered unconventional and deep-water hydrocarbon resources, which represents the future and a solid economic development and energy independence. Attendees of this forum will learn from regional regulatory leaders as they discuss the latest information and challenges on the regulatory framework that will enable the exploration and development of these resources in a sustainable but efficient way. This forum will provide an opportunity for regulators to discuss openly and share challenges associated with the development of conventional and unconventional onshore resources and offshore fields. Lessons learned in Argentina, Brazil, Colombia, Mexico, and Peru will be key to enable the development in several Latin America countries for both onshore and offshore activities.

**Speakers Include:**

- **Gustavo Lopetegui**, Secretary of Energy, Argentina
- **Luis Miguel Morelli**, President, National Hydrocarbon Agency (ANH), Colombia
- **Seferino Yesquen**, President of Directorate, Perupetro, Peru
- **Alma America Porres**, President Commissioner, National Hydrocarbon Commission (CNH), Mexico (invited)

**Opening Ceremony**

**Date:** Tuesday, 27 August  
**Time:** 17:00–18:00  
**Location:** Hilton Buenos Aries  
**Fee:** Included with registration

Prepare yourself for an unforgettable introduction to the world of Argentinian culture.

The Opening Ceremony, celebrating historical and beautiful Buenos Aires, Argentina, will be an inspiring, informative and entertaining event. It will offer insights into the current state of exploration and petroleum geology as well as a creative celebration of traditional regional music and dance.

Our opening ceremony will be coordinated by **Carlos Colo**, General Chair and will include remarks from: **Daniel Gonzalez** – CEO YPF, **Gustavo Lopetegui** – Secretary of Energy, **Mike Party** – AAPG President.

The program will end with a traditional performance – a dazzling, unforgettable blend of artistry and powerful rhythms. It’s the perfect way to begin your Buenos Aires ICE experience. The ceremony begins at 17:00 – arrive early for the sights and sounds that are sure to be the talk of the day.

**WEDNESDAY HIGHLIGHTS**

**Plenary Session: Latin America Oil and Gas Forum**

**Date:** Wednesday, 28 August  
**Time:** 08:30–10:00  
**Location:** Hilton Buenos Aries  
**Fee:** Included with registration  
**Co-Chairs:** Mike Party and Daniel Gonzalez

This forum will feature the top-level officers of Latin America Oil and Gas Companies discussing the challenges and opportunities within their own countries and in the international arena. The last decade has seen a significant transformation of some of the Latin NOCs from national-only companies to international corporations that are aggressively taking advantage of opportunities in the region and in other areas of the world. Top leaders from YPF, Ecopetrol, YPFB, and Pemex will bring to the forum their recent experiences and plans for the future. Attendees will have the unique opportunity to hear these leaders speak about their strategies, successes, and challenges as they guide their corporations into the 21st century.

The following executives will discuss their views in this panel:

- **Daniel Gonzalez**, YPF
- **Juan M Rojas**, Ecopetrol
- **Javier Esquivel**, YPFB
- **Denisse Abudinen Butto**, ENAP (invited)

**Plenary Session: International Oil Company (IOC) Perspective**

**Date:** Wednesday, 28 August  
**Time:** 10:30–12:30  
**Location:** Hilton Buenos Aries  
**Fee:** Included with registration  
**Co-Chairs:** Carlos Colo and Victor Vega

This plenary will discuss what drives global energy trends from an IOC’s perspective—it also presents an opportunity to gain perspective, learn from colleagues, and build the relationships that will enable us to meet the energy challenges of the future.

The market and economic developments of the past 24 months have created unexpected volatility and new industry challenges. It is necessary to understand the linkage between population growth, economic progress, and the amount and type of energy used around the world. Growing populations continue to advance economically over time and seek better living standards, which leads to increased energy use. Regardless of where resources are located around the world, technology will remain a key to unlocking them in the most efficient, effective, and environmentally safe manner. It is the people that will find solutions to meet this demand. To bring these resources to the market will continue to require significant ongoing investment that effectively and efficiently manages the risks inherent in our industry. Our common industry goal is to deliver reliable, affordable energy to the consumer. That is a simple proposition, but of course, it is far more complex to make it a reality, particularly in a volatile environment. It is what has brought success to our industry in the past—a commitment to continued technological advancement and strong, sustainable partnerships.

Speakers will address different aspects of the drive for global energy trends including markets, energy demand, technology, people, environment, and partnerships.

**Speakers:**

- **Erik Oswald**, ExxonMobil
- **Paul Clark**, Chevron
- **Marc Gerrits**, Shell
- **Tim Dodson**, Equinor
- **Kevin McLachlan**, Total

**THURSDAY HIGHLIGHT**

**History of Petroleum Geology**

**Date:** Thursday, 29 August  
**Time:** 10:50–12:15  
**Location:** Hilton Buenos Aries  
**Fee:** Included with registration  
**Chair:** Elvira Gomez

Fully embracing the region’s energy future requires an understanding of the past.

The History of Petroleum Geology session embraces the past and tells the exploration story. The session features interesting talks and provides valuable insight to those working in industry today.

History of Petroleum Geology at ICE Buenos Aires includes presentations from Argentina, Mexico, Peru and Colombia.

**Jorge Hechem** kicks off the session with A Century of Exploration in the Neuquen Basin, a talk explaining how today’s tight and shale gas hotspot is nothing new to Argentine explorers.

In a History of the E&P Industry in Mexico, **Alfredo Guzman** describes the historical evolution of the Mexican energy sector and shares opportunities for the development in the country’s offshore and unconventional resource sectors.



**Pedro Alarcon's** presentation, Peru Oil and Gas Industry Perspective and Exploration Potential, reviews the history of Peru's oil and gas industry and highlights investment opportunities in the country's offshore and onshore basins.

In a Short Tale of Colombia Offshore Exploration, **Victor Ramirez** describes the Colombia Caribbean energy sector's evolution, from the early exploratory efforts and the development of the Chuchupa Ballena field in the 1970s to recent discoveries and future potential in the offshore Caribbean.

## FRIDAY HIGHLIGHT

### Super Basins of Latin America Forum

**Date:** Friday, 30 August  
**Time:** 08:25–12:15  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration  
**Co-Chairs:** Charles A. Sternbach and Chandler T. Wilhelm

The Super Basins Forum will be a new focus for high impact energy related forums for AAPG. AAPG is pleased to introduce this Forum at ICE Buenos Aires with 4 notable presentations relevant to the conference theme of "Shaping the Future in a Changing Energy Landscape." This focus is a new initiative for AAPG's second century of existence. The vision is that this forum will become a recurring theme at AAPG international conferences. Follow-up papers will be preserved online and in AAPG publications.

These presentations will also show how geoscience matters and how rocks tell the story. We want to frame the world's most petroliferous basins with an understanding of the boundary and layer conditions. This includes the richness, distribution, maturity, and position in the stratigraphic column of the source rocks. It also includes an appreciation of the reservoirs, seals, and structural configuration.

Super basins are shifting attention away from frontier exploration toward established mature basins as a key source for tomorrow's oil and gas supplies. Super basins are established producers with at least 5 billion BOE produced and 5 billion BOE remaining recoverable, two or more petroleum systems or source rocks, stacked reservoirs, existing infrastructure/oil field services, and access to markets (IHS Markit). Horizontal drilling and multi-staged horizontal fracturing are driving the onshore super basin renaissance. The Permian Basin in Texas, Gulf of Mexico, and Middle East basins are prototype oil- and gas-prone super basins. And Africa has many of its own super basins!

We are seeing an energy renaissance using new technology. Basins formerly thought of as "mature" basins have new surprises using the Total Petroleum Systems approach. Peak oil is a concept defined by a population of energy accumulations known, detectable, and producible at a particular time and place. When there are "multiple" peaks to a basin historical hydrocarbon production graph, it means that we were not fully grasping the true potential of basins with new technology. We will focus on the technology transfer and best practice sharing of new technologies that can be applied in various basins.

#### Topics the speakers will address include:

- What makes your super basin special and unique and what can we learn from it?
  - What are the critical geoscience elements that contribute to success?
  - What is the exploration/production history, and what are the major plays with remaining potential—conventional, unconventional, and field growth?
  - What are the key innovations in your super basin, such as adoption of horizontal drilling, hydraulic stimulation, completing and drilling techniques, and seismic imaging, that helped unlock the potential and what is needed to grow it further?
  - How do "above ground" issues like politics, access, mineral ownership, and geography influence realizing the full resource potential of your super basin?
  - Will the basin be a regional or global disrupter?
- **Introduction: Exploration Creativity in the Golden Age of Super Basins and What AAPG is Doing About Them:** C. A. Sternbach, President Star Creek Energy, and AAPG Past President
- **Latin America's Super Basins—Are Any of Them Poised to Re-Awaken?** Robert Fryklund, Chief Strategist, IHS Energy
- **Argentina, Vaca Muerta, and Other Plays in the Neuquen Super Basin:** Carlos Macellari, Director of Exploration & Development, Tecpetrol

- **Brazil: An Update on the Campos and Santos Super Basins, and Recent Discoveries:** Rogerio Soares Cunha, Exploration Manager, Pre-Salt Production Sharing Contracts, Petrobras
- **Colombia: Onshore and Offshore Basins Driven by the La Luna Petroleum System:** Jorge Calvache, Exploration Vice President, Ecopetrol
- **Mexico Super Basins, Including the Tampico Misantla Super Basin—A Lookalike to the Permian Basin of the USA?** Alfredo Guzman, Mexico Petroleum Company

## TOPICAL LUNCHEONS

### The Energy Transition Triad

**Date:** Wednesday, 28 August  
**Time:** 12:30–13:45  
**Location:** Hilton Buenos Aires  
**Fee:** US \$65  
**Speakers:** **Scott W. Tinker**, Director, Bureau of Economic Geology, State Geologist of Texas; Professor, Edwin Allday Endowed Chair in Subsurface Geology, Jackson School of Geosciences, The University of Texas at Austin



The energy transition is often narrowly described as the switch from carbon-based fuels to non-carbon fuels. But there is more to the energy transition than just carbon. One third of the people in the world today live in various states of energy, and associated economic poverty. And the production of all energy at scale—fossil, nuclear, and renewables—has environmental impacts. The successful energy transition will happen when all humans are lifted from poverty; when environmental impacts to land, water, local air, and atmosphere are reduced; and when greenhouse gas emissions peak and roll over. This energy transition triad will require a non-partisan understanding of the science, technology, and economics of energy poverty, atmospheric greenhouse-gas reduction, large-scale land use and mining, energy density, resource extraction and development, regulation and policy, and more. To oversimplify is to underestimate. Rather than creating the false dichotomies of "good and bad," "clean and dirty," "believer and denier," it is vital that the energy dialog seek compromise and convergence on workable solutions, which will vary by country and region.

### Vaca Muerta Development from an Argentine Perspective

**Date:** Thursday, 29 August  
**Time:** 12:30–13:45  
**Location:** Hilton Buenos Aires  
**Fee:** US \$65  
**Co-Chairs:** Pablo Bizotto and Staale Gjervik  
**Speakers:**

- **Pablo Bizotto**, Executive Vice President-Upstream, YPF
- **Horacio Marin**, Director of Exploration & Production, Tecpetrol
- **Juan Garoby**, Operations Manager, Vista Oil and Gas (invited)
- **Dany Massacese**, Vice President-Upstream, Pan American Energy (invited)

The development of Vaca Muerta is reshaping the energy balance of Argentina, with several projects already into full scale development mode. In this panel session we will learn about the challenges and opportunities that local operators are facing in the exploration and development of these resources, and the lessons learned that can be shared with other countries of the Region.

**SPECIAL COUNTRY SESSIONS**

Regional integration is one of the key objectives of ICE 2019. The Special Country Sessions are intended to provide participants with a synopsis on what is currently happening in the oil industry in Argentina, Bolivia, Brazil, Colombia, Mexico, Perú, and Trinidad and Tobago/Suriname/Guyana. Presenters will outline the key trends, challenges, and emerging plays in each of these countries, which combined represent a significant crude production of more than 5.7 million barrels of oil per day. Discussions will not only revolve around the geological potential of the key countries but also the overall political and economic outlooks that will impact business decisions and exploration strategies. This panel will have the participation of key industry players from each invited country.



**Argentina**

**Date:** Wednesday, 28 August  
**Time:** 13:55–15:20  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration  
**Co-Chairs:** Carlos Colo and Ernesto Lopez Anadón

- **Gustavo Lopetegui**, Secretary of Energy
- **Pablo Bizzotto**, YPF
- **Ernesto López Anadon**, Argentine Institute of Oil and Gas (IAPG)
- **Sean Rooney**, Shell Argentina



**Mexico**

**Date:** Thursday, 29 August  
**Time:** 13:55–15:20  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration  
**Co-Chairs:** Faustino Monroy and Pablo Tejera Cuesta

- **Alma America Porres**, National Hydrocarbons Commission (CNH) (invited)
- **Merlin Cochran**, Mexican Association of Hydrocarbons (Amexhi)
- **Pablo Tejera Cuesta**, Shell Mexico



**Brazil**

**Date:** Wednesday, 28 August  
**Time:** 16:05–17:30  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration  
**Co-Chairs:** Sylvania M. Couto Anjos and Joris Grimbergen

- **Sylvia Couto Anjos**, ABGP
- **Jose Firmo**, Brazilian Petroleum Institute (IBP) (invited)
- **Elaine Petersohn**, National Petroleum Agency (ANP)
- **Jose Milton Cronemberger Mendes**, Enauta (invited)



**Peru**

**Date:** Thursday, 29 August  
**Time:** 15:55–17:40  
**Location:** Included with registration  
**Fee:** Included with registration  
**Co-Chairs:** Pedro Alarcon and Federico Seminario

- **Seferino Yesquén**, Chairman of the Board, Perupetro
- **Adrian Vila**, Country Manager, Pluspetrol (invited)
- **Alejandro Chalco**, Exploration Manager, Cepsa Peru (invited)
- **Jannine Delgado Silva**, President, National Society of Mining, Petroleum and Energy (SNMPE) (invited)



**Guyana-Suriname-Trinidad & Tobago**

**Date:** Thursday, 29 August  
**Time:** 08:25–10:10  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration  
**Co-Chairs:** Xavier Moonan and Clyde Griffith

- **Mark Bynoe**, Department of Energy, Ministry of the Presidency, Guyana (invited)
- **Rudolf Elias**, Staatsolie, Suriname (invited)
- **Azizah Baksh-Backredee**, Ministry of Energy and Energy Industries, Trinidad & Tobago (invited)



**Bolivia**

**Date:** Friday, 30 August  
**Time:** 08:25–10:10  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration  
**Co-Chairs:** Javier Esquivel and Ana Maria Goncalves

- **Luis Alberto Sanchez**, Minister of Hydrocarbons
- **Oscar Barriga**, YPFB Corporation
- **Tomas Zapata**, Repsol
- **Claudia Cronenbold Harnes**, Bolivian Hydrocarbon Chamber of Commerce



**Colombia**

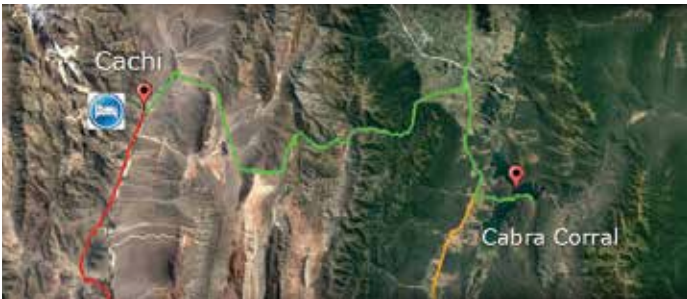
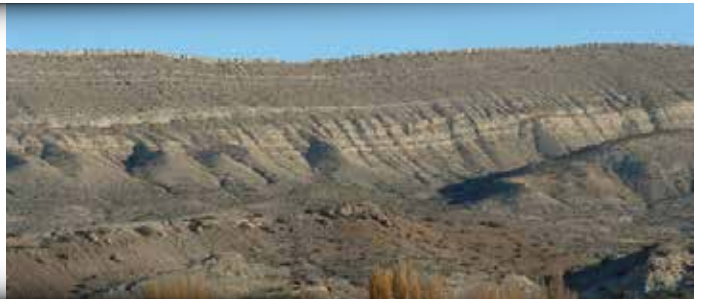
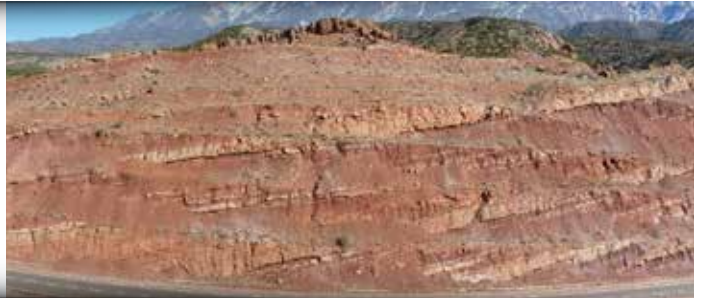
**Date:** Thursday, 29 August  
**Time:** 10:55–12:15  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration  
**Co-Chairs:** Victor Vega and Jorge Calvache

- **Luis Morelli**, ANH Colombia
- **Franciso Lloreda**, ACP
- **Jorge Calvache**, Ecopetrol
- **Richard Herbert**, Frontier Energy



# FIELD TRIPS

Explore, see, and feel the geological composition of Argentina and its surrounding regions by participating in one of the many ICE Field Trips.



FIELD TRIP 1  
FIELD TRIP 2  
FIELD TRIP 3  
FIELD TRIP 4

# SHORT COURSES

Build your knowledge and skills effectively and efficiently with ICE Short Courses. With several to choose from there's something for everyone.



See page 13-14 for details.

Visit [ICEevent.org](http://ICEevent.org) for detailed information.

Pre-Conference	Title	Leader(s)	Date(s)/Time(s)	Fees
1	Cuyo Basin, Mendoza Province, Argentina and It's Petroleum Systems (AAGGP)	Daniel Boggetti (PyT Consultora, Argentina), Alan Stark (Independent Consultant, Argentina), and Laura Carolina Gonzalez (Exploration Geologist, YPF Argentina)	Saturday, 24 August 09:00– Monday, 26 August 16:00	Professionals/Students US \$1,200
2	Petroleum Systems of Neuquen Basin, Neuquen Province, Argentina (AAGGP)	Carlos Arregui and Osvaldo Carbone (Universidad Nacional del Comahue and Independent Consultant, Argentina), and Alberto Gutierrez (Independent Consultant, Argentina)	Saturday, 24 August, 09:00– Monday, 26 August 18:00	Professionals/Students US \$1,200
3	Andean Compressive Deformation Affecting a Brazilian Pre-Salt Stratigraphic Analogue. Exploring the Cretaceous-Paleogene Boundary, Salta Province, Argentina (AAGGP)	Andres Boll (Independent Consultant, Argentina), Juan Hernandez, and Roberto Hernandez (XR-GEOMAP, LA. TE. Andes, Argentina)	Saturday, 24 August 10:00– Sunday, 25 August 18:00	Professionals/Students US \$1,200
4	Sedimentary Basins of the Buenos Aires Province, Argentina, and Its Hydrocarbons Exploration Potential (AAGGP)	Daniel Poire (CIG, UNLP-CONICET, Argentina), Victor Ploszkiewicz, and Sergio Rodriguez (Independent Consultant, Argentina)	Saturday, 24 August 10:00– Monday, 26 August 22:00	Professionals/Students US \$1,200

**Important notes regarding field trips:**

- Before purchasing non-refundable airline tickets, confirm that the trip will take place as trips may be canceled if undersubscribed.
- Please register well before **15 July 2019**. Field trip cancelation due to low enrollment will be considered at this time. No refunds will be allowed on field trips after this date.
- Field trips are limited in size and are reserved on a first-come, first-served basis and must be accompanied by full payment.
- If you do not plan on attending the conference, a US \$30 enrollment fee will be added to the field trip fee. This fee may be applied toward registration if you decide to attend the conference at a later date.
- A wait list is automatically created if a field trip sells out. The ICE Show Management will notify you if space becomes available.
- We will continue to take registrations for field trips not canceled until they are either sold out or closed.
- It is important that you note your gender when registering for hotel room assignments.
- Prior to the field trip you will receive an itinerary with details of meeting points, transportation with the trip phone numbers and email addresses of hotels and trip leaders, etc.
- Proper clothing and supplies are needed for the outdoors (hat, windbreaker, sturdy footwear and backpack).
- Depending on location, temperatures can range from 40 to 70 degrees Fahrenheit with or without rain. Participants are advised to check local weather forecasts for latest updates.
- Insect repellent and sun protection (sunscreen and hats) are recommended.
- AAPG, the sponsoring organizations, nor field trip leaders and their employers maintain insurance covering illness or injury for individuals.

# SHORT COURSES AT A GLANCE

Visit [ICEevent.org](http://ICEevent.org) for detailed information.

	Title	Instructor(s)	Date(s)/Time(s)	Fees	Location
1	Introduction to Unconventional Shale Plays: Learnings From Vaca Muerta Formation (AAGGP)	Iván Lanusse, Federico González Tomassini, Juan Pablo Palacio (YPF, Argentina) Hernán Reijenstein (Chevron, Argentina) Manuel Fantin (Total France)	Monday, 26 August– Tuesday, 27 August 08:00–16:00	Professionals Member US \$720 Professionals Nonmember US \$790 Students US \$100	YPF's Core Deposit, Avellaneda, Buenos Aires Province (close to Buenos Aires City)
2	Natural Fractures Core Workshop (AAGGP)	René Manceda (Y-TEC, Argentina), Ramiro López, and Damian Hryb (YPF, Argentina)	Monday, 26 August– Tuesday, 27 August 08:00–16:00	Professionals Member US \$720 Professionals Nonmember US \$790 Students US \$100	Day 1, Theory at YPF Tower, Puerto Madero, City of Buenos Aires. Day 2, practice at YPF Tecnología (Y-TEC) Berisso, Buenos Aires Province. Day 2, transportation departs from and return to Hilton Hotel, Puerto Madero)
3	Integrating Core, Well-Log, and Outcrop Data into Predictive High-Resolution Sequence Stratigraphic Models (AAGGP)	Oscar López Gamundi (P1 Consultants, USA), Ernesto Schwarz, and Gonzalo D. Veiga (CIG, UNLP-CONICET, Argentina)	Monday, 26 August– Tuesday, 27 August 08:00–16:00	Professionals Member US \$495 Professionals Nonmember US \$545 Students US \$75	YPF Tower, 17th floor, Puerto Madero, City of Buenos Aires
4	Tight Gas Exploration (AAGGP)	Larry Meckel (Meckel Exploration Training)	Monday, 26 August– Tuesday, 27 August 08:00–16:00	Professionals Member US \$720 Professionals Nonmember US \$790 Students US \$100	YPF Tower, 17th floor, Puerto Madero, City of Buenos Aires
5	Advanced Sequence Stratigraphic Applications for Exploration (SEPM)	Vitor Abreu (Consultant, USA) and Howard Harper (SEPM, USA)	Monday, 26 August 08:30–17:00 – Tuesday, 27 August 08:30–16:00	Professional US \$650 Students US \$75 (limited number)	Hilton Buenos Aires, Argentina
6	Argentina Oil and Gas Petroleum System (AAGGP)	Héctor J. Villar (Geolab Sur, Argentina) and Carlos E. Cruz (CG/Petroleum, Argentina)	Tuesday, 27 August 08:00–16:00	Professionals Member US \$250 Professionals Non-Member US \$300 Students US \$75	YPF Tower, 17th floor, Puerto Madero, City of Buenos Aires

## Important notes regarding short courses:

- Short courses are limited in size and are reserved on a first-come, first-served basis and must be accompanied by a full payment.
- If you do not plan on attending the conference, a US \$30 enrollment fee will be added to the short course fee. This fee may be applied toward registration if you decide to attend the conference at a later date.
- A wait list is automatically created if a short course sells out. The ICE Show Management will notify you if space becomes available.
- Before purchasing non-refundable airline tickets, confirm that the course will take place, as courses may be cancelled if undersubscribed.
- Please register well before the deadline of **15 July 2019**. Short course cancellations due to low enrollment will be considered at this time. No refunds will be allowed on short courses after this date.
- We will continue to take registrations for short courses not cancelled until they are either sold out or closed.
- Participants will be advised via email of the specific location approximately two weeks prior to the course.



# [ NETWORKING AND EVENTS ]

- ▶ Networking Opportunities
- ▶ Student and Young Professional Activities
- ▶ Exhibition and Sponsorship
- ▶ International Pavilion
- ▶ Buenos Aires Things to Do







### Icebreaker Reception

**Date:** Tuesday, 27 August  
**Time:** 18:00–20:00  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration

Kick off your experience at ICE and come network with colleagues while getting a first look at new technologies and services offered by the industry's global exhibitors.

### Refreshment Breaks

**Dates:** Wednesday, 28 August–Friday, 30 August  
**Times:** 10:15–11:15 (Wednesday, Thursday, and Friday)  
 15:30–16:30 (Wednesday and Thursday)  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration

Attendees are invited to break from technical sessions to enjoy downtime and complimentary refreshments as well as an opportunity to learn from the exhibitors about new trends and product offerings. Coffee and tea breaks will be served in the Exhibit Hall each morning, as well as Wednesday and Thursday afternoon.

### End-of-Day Receptions

**Dates:** Wednesday, 28 August and Thursday, 29 August  
**Time:** 17:30–18:30  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration

Discuss new knowledge from the day's technical program with industry delegates or pay a social visit to an exhibitor for a giveaway item or sales meeting. This occasion offers a festive atmosphere to share in light snacks and local beverages while wrapping up your day and gathering industry colleagues or friends for a night out in Buenos Aires.

## STUDENT AND YOUNG PROFESSIONAL ACTIVITIES

### Young Professionals Meet and Greet

**Date:** Tuesday, 27 August  
**Time:** 16:00–17:00  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration

This event, brought to you by the AAPG Young Professionals Committee, serves to bridge the gap between the students, young professionals and experienced professionals. Sponsored by Shell, the meet and greet pairs students and recent graduates with young and experienced professionals to gain an insider's perspective into the petroleum industry and share direction on the meeting itself (what to expect, technical sessions and other recommendations.) Mentors and paired protégés will attend the Opening Ceremony together. **To participate in the Meet and Greet please indicate during the registration process.**

### Young Professionals and Student Reception

**Date:** Wednesday, 28 August  
**Times:** 18:30–19:30  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration

All registered students, young professionals, and faculty are invited to attend the Student and Young Professionals Reception for food, fun and networking. Meet AAPG leaders and officers as well as executives from the long-time sponsor, ExxonMobil. In addition to these industry connections, you can also meet up with fellow peers in a fun and relaxing environment.

### Student and Young Professional Roundtable: Career Challenges and Opportunities for Geoscientists in an Unconventional 21st Century

**Date:** Thursday, 29 August  
**Time:** 18:30–20:00  
**Location:** Hilton Buenos Aires  
**Fee:** Included with registration

The hydrocarbon industry's new paradigms, developing technologies, and moving targets require geoscientists to be trained continuously and efficiently and to work in diverse environments. The growth of the unconventional resources sector provides new opportunities in geology, geomechanics and geosteering. This ICE panel discussion features perspectives of young geoscientists representing both operators and service companies as well as human resources professionals working in the energy sector. Young professionals, recent graduates, and students preparing to enter the industry in coming years will benefit from this interactive session.

### Judging

Have you ever thought about volunteering as a technical presentation judge at ICE? Judges perform the crucial role of determining the winners of the Gabriel Dengo Memorial Award (for best oral presentation at ICE) and the Ziad Beydoun Memorial Award (for best poster presentation at ICE), as well as the Carlos Walter M. Campos and Ozan Sungurlu Memorial Awards for best student presentations. Whether it's your 50th ICE or your first, participating as a judge is a great way to get involved. Just sign up during online conference registration and indicate which poster and/or oral presentations best fit your schedule and interests. All attendees, including students, YPs, Associates, and Members are encouraged to sign up. Worried you're not a subject matter expert? Don't be! Critical listening and thoughtful evaluation are the only required skills. Plus, you can network while you learn! Still unsure about being a judge?

Email Jan Simpson ([jsimpson@aapg.org](mailto:jsimpson@aapg.org)) with questions. See you in Buenos Aires!

### Conference Volunteers Needed

Calling all students! Sign up to be a volunteer at ICE and benefit by earning cash and enjoying valuable interactions at the conference! Volunteers are essential to the success of the conference. As a volunteer, you might assist judges with finding and returning their scorecards, help at the Opening Ceremony, assist oral session chairs or poster presenters in their sessions, or support AAPG staff in the registration area or exhibit hall. Volunteers will receive \$25 for each shift (typically 4–5 hours) to help offset the cost of attending the conference. You will have an opportunity to sign up as a volunteer when you register online; those interested will be contacted approximately one month before the conference to confirm availability and role preferences. To be eligible for the cash stipend, volunteers must be either students or recent (2018-2019) graduates.





# AAPG

Advancing the World of Petroleum Geosciences

## Be Part of Something Special Join AAPG Today



### You will receive:

- AAPG Explorer Magazine
- AAPG Bulletin Journal
- Discounts on Events
- Opportunities to Network with Peers
- Certification Opportunities to Advance Your Career
- Career Services
- And so much more...

Become part of the world's premier professional association for explorationists, with about 30,000 members from 125 countries. From students to young professionals, career geoscientists and academicians, there's never been a better time to join AAPG.

**AAPG.org**



# EXHIBITION AND SPONSORSHIP

## Gain Exposure to a Truly Global Audience of E&P Professionals

### Exhibit Opportunities

Your name and brand should be instantly recognizable in the minds of your target audience. Showcase your company's products and services to more than 2,100 ICE attendees from more than 70 countries. Your company deserves access to the unparalleled geosciences business environment that ICE offers.

- Develop new sales leads
- Launch or demonstrate new technologies and products
- Increase brand awareness
- Build strategic business relationships
- Meet face-to-face with decision-makers

Known for its world-class technical program, ICE delivers a great audience, appealing to those who are passionate about discovering the newest innovations for exploration and production.

### Stand Prices

Floor Space Only (Minimum 24 sqm) . . . . US \$535/m<sup>2</sup>

Basic Package . . . . . US \$565/m<sup>2</sup>

*White panels with aluminum frames, aluminum fascia board with white panels, electrical main connection 1kW including consumption and wall socket, company name, grounding/earthing stand, carpet (Show Management color choice)*

Basic Package + Furnishings. . . . . US \$595/m<sup>2</sup>

*White panels with aluminum frames, aluminum fascia board with white panels, electrical main connection 1kW including consumption and wall socket, company name, grounding/earthing stand, carpet (Show Management color choice), PLUS furniture package to include 1 table, 2 chairs, and 1 waste bin*

*Companies submitting contracts will be assigned space on a first-come, first-served basis.*

### Exhibition Hours

Tuesday, 27 August . . . . . 18:00–20:00 (Icebreaker)  
Wednesday, 28 August . . . . . 09:00–18:30  
Thursday, 29 August . . . . . 09:00–18:30  
Friday, 30 August . . . . . 09:00–13:00

## Align Your Company With the Most Important Global Geosciences Event

### Sponsorship Opportunities

Use ICE to position your brand before the best and the brightest minds in geosciences. Your sponsorship commitment is essential to the success of ICE covering the continuing breakthroughs, innovations, and discoveries being made into our growing exploration industry.

- Gain competitive advantage over other brands
- Drive traffic to your booth
- Increase visibility with international exposure to more than 80 countries
- Support the next generation of geoscientists
- Invest into growing the exploration industry
- Enhance the total conference experience

Visit [ICEEvent.org](http://ICEEvent.org) to view the full list of sponsor items and sponsorship levels.

## Contact Us Today to Book Your Exhibit Space and Secure Your Sponsorships:

### Mike Taylor

Exhibition Sales Manager  
+1 918 630 5672  
[mtaylor@aapg.org](mailto:mtaylor@aapg.org)

### Tracy Thompson

Exhibition Sales Representative  
+1 918 560 9414  
[tthompson@aapg.org](mailto:tthompson@aapg.org)

### Emily Smith Llinás

AAPG Latin America & Caribbean Region Manager  
+1 281 886 8525 (USA)  
5 +71 551 1182 (Colombia)  
[ellinas@aapg.org](mailto:ellinas@aapg.org)



## AAPG INTERNATIONAL PAVILION

[www.internationalpavilion.com](http://www.internationalpavilion.com)

### Come Explore ... A World of Opportunity!

The mission of the AAPG International Pavilion (IP) is to help provide a world-class showcase for NOCs, Governments, and Ministries promoting exploration and investment opportunities. The IP focuses on providing a platform for bringing together countries with oil and gas resources and companies looking to explore and produce them.

The IP enables attendees and explorers to review global opportunities, learn about the latest discoveries and bid round offerings, and to network directly with representatives from the countries who know the opportunities in detail.

In addition to the traditional exhibition of countries, the IP will be hosting an IP THEATRE. The wealth of information available from the country presentations in the IP THEATRE will include detailed review of the following:

- Licensing Rounds
- Exploration Opportunities
- Open Acreage and Current Activity
- New Data Availability

The IP THEATRE will provide a unique and exclusive environment for heads of new ventures, upstream, and exploration professionals at every major IOC to review the very latest information on global exploration opportunities. Attendees can expect to come away with heightened insight into current and future global activity. Plan now to drop by the IP, located in the exhibition hall at ICE 2019.

#### Gina Godfrey

International Pavilion Manager

+1 303 618 6595

[gina@aapginternationalpavilion.com](mailto:gina@aapginternationalpavilion.com)

<http://www.internationalpavilion.com/>





# BUENOS AIRES THINGS TO DO

## About Buenos Aires

The birthplace of the tango is, like the dance itself, captivating, seductive, and bustling with excited energy. Atmospheric old neighborhoods are rife with romantic restaurants and thumping nightlife, and Buenos Aires' European heritage is evident in its architecture, boulevards, and parks. First-time visitors tend to associate Buenos Aires with tango, steak, and wine—that trifecta of local passions—but the Argentine capital's French buildings, Italian food, and Spanish nightlife also tell the story of a city with one foot in Latin America and the other in Europe. Tree-lined avenues, a thriving nightlife, and great food and wine make the Argentinian capital one of the most exciting cities in South America.

## Things to Do

1. Tour the Recoleta Cemetery
2. Visit Tigre and explore the Delta
3. Dance Tango at a Milonga
4. Visit the Museo Nacional de Bellas Artes'
5. Shop at the San Telmo Market
6. Watch a Polo Match or Horse Racing in Palermo
7. Take in a Show at Teatro Colón
8. Wander Puerto Madero
9. Check out the Museum of Latin American Art
10. Stroll Corrientes Avenue
11. Relax in the Botanical Gardens
12. Explore the Feria de Recoleta and Plaza Francia
13. Meander through the Colorful La Boca Neighborhood
14. Head underground and see the El Zanjón de Granados
15. Eat Steak, Drink Malbec!





## Immerse Your Taste Buds with Argentine Cuisine

Discover succulent dishes that spotlight homegrown ingredients from across the country and enjoy craft cocktails and artisanal breweries from the endless restaurant and bar options. Whichever you choose, Buenos Aires has you covered! Here is just a taste of what you can experience.

### Eats

#### El Pobre Luis

Fútbol jerseys line the walls at El Pobre Luis, a bustling Chinatown parrilla. Locals pack the house to order salchicha parrilleras and Uruguayan pamplonas, either beef, chicken, or pork stuffed with cheese, ham, and roasted red peppers, rolled up, and cooked on the parrilla. Head to the bar for the best seat in the house, which overlooks head parrillero Beto Niz on the grill. The crispy sweetbreads, also referred to as the caviar of the parrilla, are a must-order.

#### Mishiguene

This isn't your Bubbe's Friday night shabbat dinner. The upscale Jewish eatery recreates Ashkenazi, Sephardic, Israeli, and Middle Eastern dishes using fresh ingredients and modern techniques in a way that both intrigues and invokes nostalgia. The bone-in pastrami will leave you utterly verklempt.

#### Casa Cavia

It's ideal for a boozy weekday lunch or afternoon merienda (tea time) to soak up the pictureperfect garden. The restaurant looks as if it were taken directly from a Vogue photoshoot and shares a space with a cultural center, publisher, bar, and florist shop.

#### Ceviche at La Mar Cebicheria

Buenos Aires isn't known for its seafood; generally, what's available is usually mistreated, unfresh, and overall of poor quality. Luckily, Peruvian powerhouse La Mar came to school Argentines in the art of ceviche making. One step across the threshold to a massive sunny terrace, and you'll instantly be in the mood for some ceviche and pisco. It's open for lunch and dinner.

#### Perón Perón Resto Bar

Not many political-themed restaurants serve good food, but Perón Perón — named after the beloved president Juan Perón and first lady Eva Duarte (you know, Madonna in Evita) — is the exception. Loyal followers come to sing the national anthem around a Peronist shrine while downing deep-fried empanadas, polenta with osso buco, and grilled pacú river fish. Just please, whatever you do, don't start singing "Don't Cry For Me Argentina." It's not a thing here.

#### Other great dining options:

- Argentine-Style Pizza at El Güerrin
- Don Julio
- Choripán at Nuestra Parrilla
- Elena
- Café Rivas

### Drinks

#### BierLife

The setting is an old San Telmo house that opens to an inner patio, which in turn leads to various other rooms and spaces. There are mismatched wooden tables, chairs, and stools tucked away in every corner of the place. There's nothing fancy about BierLife but the atmosphere is warm and friendly.

#### Gran Bar Danzon

This place opened back in 1998 and has consistently catered to a sophisticated looking crowd—think the professional crowd conducting business, 40-something jetsetters, local couples on a first date, and tourists who found their way here thanks to the recommendations of the concierge at the Alvear Palace Hotel.

#### Milion

This isn't just any bar in any old building. The setting is a stunning Belle Epoque mansion that offers rooms for drinking and lounging. Downstairs is the dining room that spills out onto a open air courtyard with ivy covered walls, leafy trees, and sparkling lights overhead. Up some marble steps and a grand staircase is the first of many high-ceiling rooms with restored oak floors, plush sofas on one end, and a long bar at the other. This place hits all the right notes.

#### Florería Atlántico

If you score a table, this is a place where you might make a night of it. If not, a seat at the bar is good for a couple of drinks before you hit another place. Either way, you'll have a good time whether you're on a date or with a couple of friends.

#### El Boliche de Roberto

What this small Almagro neighborhood bar lacks in fancy decor, it more than makes up for in authenticity. The rickety tables and chairs are mismatched; high up on the walls, old wine bottles line the shelves and below hang framed photos and keepsakes. In the corner of the room there's a local musician singing a tango and the crowd hangs on his every word.

#### Other great places to grab a drink:

- Bar 878
- Boticario
- Verne Cocktail Club
- Vico Wine Bar
- Aldonza Bar



# TECHNICAL PROGRAM

- ▶ Theme Chairs
- ▶ Oral Sessions at a Glance
- ▶ Poster Sessions at a Glance
- ▶ Technical Program Tuesday
- ▶ Technical Program Wednesday
- ▶ Technical Program Thursday
- ▶ Technical Program Friday









# THEME CHAIRS



## Theme 1: Basins and Petroleum Systems

Sebastian Galeazzi, *Total*  
Laszlo Benkovics, *Repsol*



## Theme 2: Unconventional Resources

Javier Sanagua, *YPF*  
Fernando Sánchez Ferrer, *Shell*



## Theme 3: Structural Geology, Tectonics, and Geomechanics

Trey Meckel, *Pluspetrol*  
Jaime Martínez, *Ecopetrol*



## Theme 4: Stratigraphy and Sedimentology

Dale Leckie, *University of Calgary*  
Jan Pluis, *Chevron*



## Theme 5: Geophysics

Luis Vernengo, *PanAmerican*  
Nidia Alvarez Crogh, *Statoil*



## Theme 6: Deep-Water Exploration and Production

Ulises Hernandez, *Pemex*  
Sylvia Sanjos, *Petrobras*



## Theme 7: Mature Fields

Marcelo Gonzalez, *Tecpetrol*  
German Gomez, *Baker-Hughes GE*



## Theme 8: Energy and Environment

Guillermo García y Morales, *Array Technologies*  
Jorge Fasano, *Y-TEC*



## Special Sessions

Elvira Gómez, *CNOOC International*



# Join us in Mexico City 23 September 2020

Plan now to attend **Energy Opportunities 2020**, an executive level conference highlighting activity and investment opportunities in the Latin America and Caribbean region's traditional and alternative energy sectors.

**Engage with decision makers** from the government, energy, legal, finance, technology, consulting, and services sectors for two powerful days designed to provide both the information and the connections you need to meet your business objectives.

Attend plenaries featuring **world-renowned speakers**, prospect forums featuring investment opportunities, and focused workshops covering the latest advances in finance, technology, and science.

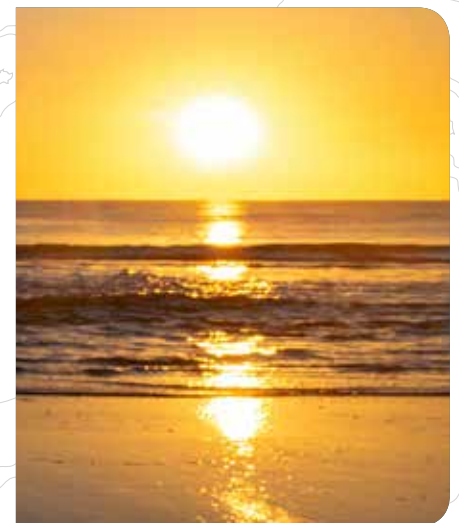
Meet with current and future partners at the business-to-business session and **explore new opportunities** at the exhibition and networking sessions.

For more information and sponsorship options, please visit: [EnergyOpportunities.info](https://EnergyOpportunities.info)



**Subject to change. For the most up-to-date Technical Program visit [ICEevent.org](http://ICEevent.org).**

Tuesday PM	National Regulatory Agency Forum	Wednesday AM	Plenary Session - Latin America Oil and Gas Forum	Wednesday AM	Plenary Session - 29 International Oil Company (IOC) Perspective	
Wednesday PM	01A Petroleum Systems and Modeling	02A Vaca Muerta Play: An Integrated View	03B Structural Geology and Tectonics of Western South America	04A Latin American and Other Basins – Clastics Sedimentology and Stratigraphy	06A Deep-Water Exploration and Production: Atlantic Basins and Frontier Plays	Argentina Country Session Brazil Country Session
Thursday AM	01B Emerging Basin and New Play in Mature Basin	02B Rock and Fluid Characterization of Unconventional Reservoirs	04B Latin American Basins – Clastics Sedimentology and Stratigraphy I	06B Deep-Water Exploration and Production: Tectonics, Sedimentation, and Presalt	08A Energy Projects and the Environment: Challenges and Proposals for a Better Future	Special Session Guyana-Suriname-Trinidad & Tobago Colombia Country Session
Thursday PM	02C Application of New Technologies and Data Analytics in Unconventional Resources	03A Structural Geology and Tectonics of the Atlantic Margin	04C Latin American Basins and Other Global Analogs – Carbonates and Evaporites	05A Geophysics	07A Mature Fields I	Mexico Country Session Peru Country Session
Friday AM	01C Sub-Andean Basin Petroleum Systems	07B Mature Fields II	Not in Use	Not in Use	Super Basins	Bolivia Country Session Not in Use
Friday PM	01D Geochemistry	02D Unconventional Frontier Plays	04D Geological and Sequence Stratigraphic Modeling	05B Geophysics II	06C Deep-Water Exploration and Production: Reservoir Characterization and Modeling	Not in Use





# POSTER SESSIONS AT A GLANCE

**Subject to change. For the most up-to-date Technical Program visit [ICEEvent.org](http://ICEEvent.org).**

Wednesday AM	02F Rock and Fluid Characterization of Unconventional Reservoirs	04E Latin American and other Basins – Clastic Sedimentology and Stratigraphy I	06E Deep Water Exploration and Production	04H Stratigraphy and Sedimentary
Wednesday PM	01E Sub-Andean Basins and Emerging Basins and Plays	03C Geomechanics – Global Case Studies and Theory	07C Mature Fields	06G Deep-Water Exploration and Mature Basins
Thursday AM	01G Emerging Plays and Geochemistry	02G Unconventional Plays	06F Deep Water Exploration and Petroleum Systems Modeling	07D Mature Fields
Thursday PM	03D Structural Geology and Tectonics – International Case Studies	04F Latin American and Other Basins – Clastic Sedimentology and Stratigraphy II	06D Deep-Water Exploration and Production: Southwestern Atlantic Basins	08B Holistic View of Energy Projects: Community, Environment, and Business
Friday AM	01F Petroleum System and Modeling	02E Vaca Muerta Play: An Integrated View	05C Geophysics	04G Latin American Basins and Other Global Analogs – Carbonates and Evaporites



**TUESDAY AFTERNOON SPECIAL SESSIONS**

**National Regulatory Agency Forum**

*Co-Chairs: Gustavo Lopetegui and Victor Vega*

13:30–16:00

See summary page: 10

Speakers Include:

- **Gustavo Lopetegui**, Secretary of Energy, Argentina
- **Luis Miguel Morelli**, President, National Hydrocarbon Agency (ANH), Colombia
- **Seferino Yesquen**, President of Directorate, Perupetro, Peru
- **Alma America Porres**, President Commissioner, National Hydrocarbon Commission (CNH), Mexico (invited)

**WEDNESDAY MORNING SESSIONS**

**Plenary Session - Latin America Oil and Gas Forum**

*Co-Chairs: Daniel Gonzalez and J. Michael Party*

08:30–10:00

See summary page: 10

Speakers Include:

- **Daniel González**, YPF
- **Juan Manuel Rojas**, Ecopetrol
- **Javier Esquivel**, YPFB Corporation
- **Denisse Abudinen Butto**, ENAP (invited)

**Plenary Session - International Oil Company (IOC) Perspective**

*Co-Chairs: Carlos Colo and Victor Vega*

10:30–12:30

See summary page: 10

Speakers Include:

- **Erik Oswald**, ExxonMobil
- **Paul Clark**, Chevron
- **Marc Gerrits**, Shell
- **Tim Dodson**, Equinor
- **Kevin McLachlan**, Total

**WEDNESDAY MORNING POSTER SESSIONS**

**02F Rock and Fluid Characterization of Unconventional Reservoirs**

*Chair: A. Ortiz*

- **High-Resolution Compositional, Geomechanical, and Permeability Profiling Along a 230m Continuous Core of the Montney Formation (Alberta, Canada): An Integrated Core and Log Analysis Approach:** D. Becerra, C. Clarkson, A. Ghanizadeh
- **Integrated Fracture Characterization Workflow with Borehole Images and Resistivity Logs:** B. Gong, H. Wang
- **Fractured Tectonic Zones in Granitic and Volcanic Basement Rocks and Relationship with Critically Stressed Fractures and Production, Neuquén**

**Basin, Argentina:** J. M. Paris, M. F. Barrionuevo, J. Grisolia, G. Crespo, C. Palacios

- **Pore Structure and Fractal Characteristics of a Lacustrine Low-Maturity Shale in the Bohai Bay Basin:** M. Guan, X. Liu, Z. Jin,
- **Control of Oil Charges and Mineral Compositions on the Sandstone Wettability of the Tight Oil Reservoir in the Chang-6 Unit of Upper Triassic Yanchang Formation, Ordos Basin, China:** Z. Wang, Y. Lei, L. Zhang, M. Cheng, Z. Cai, X. Wang
- **Anticlinal Aguada Bandera Formation: An Under-Explored Unconventional Shale Play Within Southern Argentinean Patagonia:** V. Lazzaril, M. F. Rincon, M. Fasola, M. E. Pascariello
- **Effect of Reservoir Heterogeneity by Depositional Environment and Its Application to the Sagd Process:** H. Shin, C-H. Jun, J. Lee
- **Desorption Characteristics of Adsorbed Gas of Shale in the Longmaxi Formation in Southwest Sichuan Basin:** C. Changhong, C. Qian, C. Hongbin
- **Methods for Sweet Spot Identification and Characterization in the Vaca Muerta Formation Using Elastic Properties and Geostatistics:** L. Giraldo, L. Ochoa, L. A. Vernengo, R. Romero, W. Gonzalez

**04E Latin American and Other Basins—Clastic Sedimentology and Stratigraphy I**

*Co-Chairs: L. F. Neves and A. Osman*

- **UAV-Based Photogrammetry for Facies Architecture and Fluvial Sequence Stratigraphic Definition of the Burro Canyon Formation, Piceance Basin, Colorado:** J. Tellez, M. J. Pranter, R. Cole
- **Stratigraphic- to Lamina-Scale Heterogeneity in a Fluvial-Estuarine Reservoir Analog: Valanginian Mulichinco Formation, Neuquén Basin, Argentina:** M. S. Olivo, D. A. Kietzmann, N. D. Waldmann, J. Espinola, N. Taha
- **Integrated Petrographic and Petrophysical Study for Optimum Reservoir Discrimination, Flow Unit Estimation, and Permeability Prediction of Hawara Siliciclastic Reservoir in Central Gulf of Suez, Egypt:** A. A. R. Kassem, M. A. Hady
- **New Insights in the Characterization of the Springhill Formation Play in the Austral Basin, Tierra del Fuego, Argentina:** D. Anchetá, J. P. Lovecchio, G. M. Covellone, M. Naipauer, M. R. Atencio, G. Azpiroz, V. Meissinger
- **Petrophysical Properties of a Carboniferous Reservoir Analog in the Itaráre Group, Paraná Basin, Southern Brazil:** L. Neves, C. Guedes, F. Vesely
- **High-Resolution Automated Petrographic Study of Tight Gas Las Lajas Formation, Neuquén Basin:** A. De Haller, A. Moscariello\*, J. Massaferro
- **Linking the Orinoco Shelf-Margin Deposits to the Deep-Water, an Example From the Miocene, Cruse Formation, Trinidad:** A. Osman, R. J. Steel, M. Jackman, R. Ramsook
- **Frequency Decomposition to Reveal and Validate Geological Concepts for Further Development—Examples From the Cerro Piedra Area, Western San Jorge Basin, Argentina:** T. Santana, M. Elizondo, H. M. Garcia
- **Incised Valley and Submarine Canyons in the Lajas Formation: Advances in the Knowledge of Exploratory Play:** F. J. Pagan, K. Mykietiuik, F. Fernandez Bell Fano, R. Guerello
- **Coupling of Formation Fluids Evolution and Secondary Pores Growth in the Deep-Buried Shahejie Tight-Sand Reservoir: A Case Study of Baxian Depression, Bohai Bay Basin:** K. Zhang

\*Denotes presenter other than first author

## 04H Stratigraphy and Sedimentology

*Co-Chairs: J. Pluis and D. Leckie*

- **Guada Pichana Este Case Study:** S. J. Estrada, M. Raverta, J. Torres, M. DeSanda Coloma, S. Galeazzi
- **Detection of Strike Slip Faults Through Integration of Geological and Geophysical Data: Case Studies from Saudi Arabia:** D. H. Shahzad, S. Simon, L. Anren, W. Weihua, L. F. LaFreniere
- **Cenozoic Turbidite Systems of Onshore Angola: Facies Analysis and Paleo-Environmental Interpretation of the Massambala Heavy Oil Accumulation:** M. Pereira, E. Tudisca, M. Ragazzi, A. F. Viera
- **Towards Improved Stratigraphy of Proterozoic Basins: Telling the Time from Single Glauconite Grains and Shales Using In-Situ Laser Rb/Sr Dating:** J. Farkas, E. Cassidy, M. L. Blades\*, A. S. Collins, S. Gilbert, A. A. Redaa, R. Charkrabarti, G. Cox, S. Loehr, T. Zack
- **New Depositional Model for the Lower Carboniferous Bobrik Formation, Volga-Yural Basin, Russia:** C. Zavala, M. Arcuri, L. Blanco Valiente, S. Vygovdkiy, M. Di Meglio, A. Zorzano
- **Sand Characterization and Provenance of the Guyanese Rivers—Implications for Offshore Sediment Development:** R. Taylor, S. Nadeau, E. Carillo, G. Nestor, P. B. O'Sullivan, C. J. Davies
- **Petrographic, Mineralogical, and Geochemical Characterization of Organic-Rich, Fine-Grained Deposits in the Pilmatue Member of the Neuquén Basin: Implications for the Exploration and Development of Unconventional Reservoirs:** M. N. Ramirez, L. A. Spalletti, M. F. Isla
- **The Terrigenous Depositional Response During the Relative High Sea Level Period, Example From Ancient Delta System in East Kalimantan, Indonesia:** E. Septama
- **Mixed Carbonate-Clastic Reservoir Variability in the Albian Maaddud Formation, North Kuwait, with Implications for Conventional and Unconventional Development Strategies:** A. Al-Enezi, N. Cross, S. K. Singh, S. Behbehani

## 06E Deep-Water Tectonics and Sedimentation: From South America and the Gulf of Mexico to Southeast Asia

*Chair: J. M. Paris*

- **Influence of Bottom-Currents on Turbidite Systems: Insights from an Integrated Characterization of The Corinth Rift, Greece:** S. Rohais, R. Rubi, J-C. Lecomte, D. Sakellariou, J. Schmitz, S. Bourquin, I. C. Moretti
- **Paleocene to Early Eocene Deep-Water Wilcox Depositional Characteristics, Gulf of Mexico: Influence of Cretaceous Sea-Floor Topography, Warm Climate and High Sediment Supply:** J. Wegner, G. Regan
- **Facies Characterization of Deep-Water Tidalites – A Necessary Tool for Exploration – Case Study From Cauvery and Krishna – Godavari Basins, India:** A. Mondal, S. Chakrabarty
- **Depositional Setting of Deep-Water Sediments of the Wilcox Formation, Perdido Fold Belt, Gulf of Mexico, Mexico:** E. M. Hernández Diazgirón, D. R. Lowe\*
- **Sediment-Routing Distance as a Main Control of the Reservoir Quality: A Comparison of Aerially Extensive Bengal Versus Aerially Localized Rovuma Fans:** D. Shao, F. Lyu, H. Wang, X. Xu, H. Ma, L. Ding, G. Cao
- **Lighting up a Deep-Water Slope Channel System Geomorphology Using Sorts of 3-D Seismic Attributes in the Trujillo Basin, Offshore of Peru:** V. Cabello Rios

- **Characteristics of Deep-Water Sedimentary Architecture Elements in the Rakhine Basin, Offshore Myanmar:** X. Wang, C. Mao, H. Ma, H. Sun, L. Ding, Y. Liu, C. Yan

## WEDNESDAY AFTERNOON ORAL SESSIONS

### 01A Petroleum Systems and Modeling

*Co-Chairs: I. Brisson and R. D. Veiga*

- **The Cretaceous Petroleum System of the Norwegian Sea—An Integrated Study:** A. Wenke, S. A. Clark, M. Doerner, A. G. Dore, P. Embry, B. Eriksen, J. O. Hansen, T. Hersum, R. Kyrkjebø, E. R. Lundin, H. C. H. Lysgaard, U. Mann, B. Rafaelsen, Z. A. Tasarova, E. Stavrou
- **Use of Machine Learning Techniques for Effective Petroleum System Risk Assessment and Fast Model Update:** M. Ducros
- **Petroleum System Evolution in a Fold-Thrust Belt Triangular Zone: A Case-Study from the Eastern Swiss Alps:** S. Omodeo Salé, C. Teodoro, O. Eruteya, A. Moscardello
- **Thickness Matters: Influence of Dolerite Sills on the Thermal Maturity of Surrounding Rocks in a Coal Bed Methane Play in Botswana:** M. E. Bulguroglu, A. V. Milkov\*
- **3-D Petroleum System Modeling in Contractual and Salt Tectonic Dominated Areas, Deep-Water Southern Gulf of Mexico:** S. Villarroel, E. Galvan, L. Mulisheva, J. Hernandez, R. A. Ysaccis, F. Snyder, M. Mikhaltsev, K. Lyons, M. El-Toukhy, S. Centanni, C. Rodriguez
- **Dealing with Poor Quality Data and Uncertainty in Petroleum System Modeling: An Example from the Fold-and-Thrust Belt of Bolivian Sub-Andean Ranges:** I. Cambon, M. Pereira, J. M. Reynaldi, R. Guerrero
- **Applying Reservoir Modeling Workflow to Test the Impact of Detailed Lithological Models on Petroleum Systems Risk Assessment: A Case Study in the Potiguar Basin, Brazilian Equatorial Margin:** J. G. F. Silva, G. Garcia, L. Menezes, L. Caldas, D. Albuquerque
- **New Generation of Uncertainty Analysis in Basin Modeling:** P. Hacquard, M. Ducros, R. Traby, V. Gervais-Couplet, N. Maurand\*
- **Thermal Modeling of the Ischigualasto Basin (Triassic of La Rioja, Argentina): Burial, Structuring, and Magmatism Controlling the Timing of Petroleum Generation:** M. Ezpeleta, G. Collo, F. Sanchez Nassif, C. Wunderlin, M. Parra

### 02A Vaca Muerta Play: An Integrated View

*Co-Chairs: F. Sanchez Ferrer and H. Reijenstein*

- **Neuquén Basin Configuration at Vaca Muerta Time:** R. F. Dominguez, H. Leanza, M. Fantin\*, D. Marchal, E. O. Cristallini
- **Sequence Stratigraphy and 3-D Distribution of Organic-Rich Units in the Vaca Muerta Formation:** R. F. Dominguez, O. Catuneanu, H. M. Reijenstein, R. Notta, H. W. Posamentier
- **Organic Geochemical Patterns of Vaca Muerta Shale, Neuquén Basin, Argentina:** I. E. Brisson, M. E. Fasola, H. J. Villar
- **Seismic Geomorphology and Depositional Elements of the Vaca Muerta Cliniform:** H. M. Reijenstein, H. W. Posamentier, A. Bande, F. Lozano, F. Dominguez, O. Catuneanu
- **Structural Geology of the Vaca Muerta Formation Shale Play—Neuquén Basin:** D. Marchal, R. E. Manceda, F. Dominguez, F. J. Sattler

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- **Natural Fractures in the Vaca Muerta Formation: From Core and Outcrop Observations to Subsurface Models:** E. Ukar, R. G. Lopez, D. E. Hryb, J. F. W. Gale, R. E. Manceda, A. Fall, I. E. Brisson, E. Hernandez Bilbao, R. J. Weger, D. Marchal, A. Zanella, P. R. Cobbold
- **Lithofacies Distribution within the Vaca Muerta Formation in a Sequence Stratigraphic Context Based on Subsurface and Outcrops Data:** F. González Tomassini, D. Kietzmann, T. Smith
- **Reservoir Properties of the Vaca Muerta Formation:** A. C. Ortiz, L. Crousse, C. Bernhardt, M. D. Vallejo, L. Mosse
- **Fortin De Piedra Block: First "Factory Mode" Development for Shale Gas in the Vaca Muerta Formation:** P. Biscayart, M. Brolli, J. d'Hiriart, D. García Acebal, A. Giachino, S. Olmos\*, N. Requena, R. Varela

### 03B Structural Geology and Tectonics of Western South America

*Co-Chairs: A. Disalvo and S. J. Jolley*

- **Structural Styles and Associated Fields in the Andean Foothills:** J. F. Iñigo, A. Disalvo, D. Apreada, M. Iribarne, R. Piethe
- **Backarc Basins and Rift Basins—Examples from the Mesozoic Northern South America and a Comparison with Similar Settings:** A. Mora, I. C. Higuera, J. P. Arias-Martinez, V. Caballero, V. Valencia
- **Adding Hydrocarbon Reserves in the Uncertainty of a Structurally Complex Area—Llanos Foothills, Colombia:** R. Linares
- **Bolivian Fold and Thrust Belt: Control of Thickness/Rheology Variations on Structural Style:** G. Astorga, F. Alegria, S. J. Jolley, P. Griffiths, R. Moeys, P. Janssen
- **Tectonic Style and Structure Interactions in the Sub-Andean Fold-and-Thrust Belt, Southern Bolivia:** M. Bonora, T. R. Zapata, O. de Mena, J. R. Limachi Mamani, D. Peña Sierra, J. R. Carballo Garcia, V. H. Goitia Antezana, G. Zamora Valcarce
- **Deep Exploration Play in Complex Thrust Belts: The Boyuy X2 Well, Southern Sub-Andean Belt in Bolivia:** T. R. Zapata, J. R. Carballo Garcia, M. Bonora, O. de Mena, D. Peña Sierra, J. R. Limachi Mamani, V. H. Goitia Antezana, G. Zamora Valcarce
- **A Structural Approach for the Southern Sub-Andean, Bolivia:** S. F. M. Garcia, F. R. Ferroni, J. C. Oller, G. Beccar, D. E. Mendoza Ticona
- **Local Long-Lived Basin-Margin Deformation and Multiple Petroleum System Occurrence in the Neuquén Basin, Argentina:** P. Giampaoli, G. Potas, A. Quintana, R. L. Corbera, A. Galarza, I. Brisson

- **Constraints on Intraplate Mountain Building Stages in Central Patagonia Determined From the Analysis of 2-D and 3-D Seismic and Borehole Data: San Bernardo Fold-and-Thrust Belt:** F. Pagan, G. Gianni, A. Echaurren, C. Navarrete, A. Folgueras, O. Catuneanu, A. Encinas

### 04A Latin American and Other Basins—Clastics, Sedimentology, and Stratigraphy

*Co-Chairs: Y. Ruiz and D.A. Leckie*

- **Inherent Biases in Sediment Routing to Deep-Water: Concepts and Examples:** M. Blum, M. Sweet
- **Depositional Patterns in the Lacustrine Cuyana Basin, Argentina:** Y. Ruiz, O. Catuneanu
- **Cacheuta Formation: An Example of a Lacustrine Source Rock with Potential as an Unconventional Shale Reservoir:** S. P. Barredo, L. P. Stinco
- **Sedimentological Model of Los Molles Formation (Cuyo Group, Middle Jurassic) at Arroyo Carreri, Neuquén Basin:** T. Lopez Cajaraville, D. A. Kietzmann
- **Regional Scale Stratigraphic Trapping Controls for the M1 Sandstone, Oriente Basin, Ecuador:** D. Good, J. Lin\*, R. Orozco, Y. Sun, Q. Hu
- **Stratigraphic Architecture of Incised Valleys and Uncised Channel Systems in the Carbonera Formation (C6-C1 Members: Upper Oligocene—Lower Miocene), Llanos Basin, Colombia:** H. R. Caycedo, G. O. Catuneanu
- **Reservoir Architecture of Climatic-Driven Sedimentary Cycles Within a Fluvial Fan Sequence and Its Implication for 3-D Modeling:** P. Barros Arroyo, R. Lehu\*, A. Arguello Scotti
- **Paleoenvironmental Interpretation of the Lajas Formation (Middle Jurassic, Neuquén Basin, Argentina) in the Subsurface: A Fluvio-Dominated Delta:** M. G. Arregui, A. O. Montagna, E. Rodriguez, N. Canale, J. J. Ponce, E. Santiago, R. Coppo, M. Buhler
- **Insights on Trinidad and Tobago Sediment Provenance Through Integration of Detrital Zircon Age Data and Plate Tectonic Modeling:** J. D. Esquito, C. Heine

### 06A Deep-Water Exploration and Production: Atlantic Basins and Frontier Plays

*Co-Chairs: E. Pliego-Vidal and M. A. Reis*

- **Defining New Exploration Play Potential in Offshore West Africa From Gabon to Angola, Using Mega-Regional 2-D Seismic Data:** L. D. Fullarton, E. Pettinotti, S. Patruno, K. McDermott, P. Bellingham, B. W. Horn
- **Lusitanian Salt Tectonics Revisited: Discovery of a Major Oilfield:** I. Davison, P. Barreto
- **Foz Do Amazonas and Pará-Maranhã Ready to Replicate Guyana Success:** E. J. Newman, P. V. Zalan
- **The Offshore Caribbean: A New DHI-Driven Exploration Frontier:** A. J. Velasquez, R. Zavala, E. Casaña, O. Moreno, M. Pulido, J. C. Llinas, H. Niño, J. Londono, P. Sen
- **A Deep-Water Aptian Turbidite System in Punta Del Este Basin, A New Play Offshore Uruguay:** B. Conti, S. Ferro, J. Tomasini, P. Gristo
- **Deep-Water Oil Exploration in Comoros Blocks 38, 39, and 40: Prospects for Billion-Barrel Discoveries:** S. Marshall, C. Cohen\*, G. Lovitz
- **Offshore Northern Argentina—A New Frontier:** S. DeVito, E. J. Newman, K. Rodriguez, N. Hodgson

- **Geological Provinces and Petroleum Systems of the Southern Caribbean Offshore Colombian Basin:** J. Londono, E. Lopez, L. M. Duarte, F. Gonzalez, J. C. Ilinas
- **Integrated Seismic Reservoir Characterization of Turbidite Systems: The Example of the Tano Basin (West Africa):** F. Cruciani, R. Vannuccini, A. Avanzini, M. Fervari, C. Barbieri

### Country Session: Argentina

*Co-Chairs:* C. Colo and E. Lopez Anadon

13:55–15:20

#### Speakers Include:

- **Gustavo Lopetegui**, Secretary of Energy (invited)
- **Pablo Bizzotto**, YPF
- **Ernesto López Anadon**, Argentine Institute of Oil and Gas (IAPG)
- **Sean Rooney**, Shell Argentina

### Country Session: Brazil

*Co-Chairs:* S. Couto Anjos and J. Grimbergen

16:05–17:30

#### Speakers Include:

- **Sylvia Couto Anjos**, ABGP
- **Jose Firmo**, Brazilian Petroleum Institute (IBP) (invited)
- **Elaine Petersohn**, National Petroleum Agency (ANP), Brazil
- **Jose Milton Cronemberger Mendes**, Enauta (invited)

## WEDNESDAY AFTERNOON POSTER SESSIONS

### 01E Sub-Andean Basins

*Co-Chairs:* R. Callegari and R. Boll

- **Controls on the Miocene to Recent Infill of the Lower Guajira Basin of Northern Colombia:** A. J. Romero Quete, J. A. Mora, V. R. Velez
- **Tectonic Geography and Evolution of the Palaeoproterozoic to Mesoproterozoic McArthur–Yanliao Gulf: The Setting for a Giant Proterozoic Petroleum System:** M. L. Blades, B. Yang, D. Subarkah, E. Cassidy, C. Cruz, A. S. Collins, J. Payne, J. Farkas, S. Glorie, T. Munson
- **Is the Colombian Caribbean Margin an Underexplored Analog to the Proven Hydrocarbon Province of the Northern Borneo Margin (Malaysia-Brunei):** E. Rossello, M. Wannier
- **Oil Discovery in Ordovician Prerift Sequences Las Breñas Formation, Lomas de Olmedo Sub-Basin, Northwestern Argentina:** M. E. Agüera, H. J. Belotti, P. Cavalleri, C. Naidés, J. S. Porras
- **A Three-Dimensional Insight Into the Lower Magdalena Valley Forearc Basin of Northwest Colombia: Implications for Thermal History and Petroleum Systems:** A. Mora, R. Ondrak, R. Gonzalez, E. Kinoshita, G. Veloza, O. Oncken, V. Velez, M. De Freitas
- **Insights on the Late Cenozoic Evolution of the Río Grande Foreland Basin in South Mendoza Province, Argentina:** R. Feal, M. Ghiglione, R. V. Ondrak, M. Strecker, F. Tapia Silva
- **Tucano Sul Basin: The New Dawn of a Gas Province in Northeast Brazil:** G. Castilho, L. Priori, F. Fontes

### 03C Geomechanics—Global Case Studies and Theory

*Co-Chairs:* R. H. Peterson and V. Merchan

- **Understanding Brittleness: Why Mineralogy Brittleness Differs from Geomechanics Brittleness:** J. M. Paris, N. Alarcon, C. Rabe
- **Experimental Investigation of the Rock Elastic Properties Anisotropy and Influences on Evaluating Shale Fracability for Hydraulic Fracturing Optimization:** M. Salah, M. Ibrahim, M. Ibrahim
- **Analysis of Structural Seismic Attributes and Geomechanical Modeling for Fracture Interpretation:** U. Rodriguez, R. H. Peterson, D. A. Paton, E. Mortimer, E. Mortimer
- **Application of Geomechanics for Drilling Risk Analysis in Unconventional Reservoirs:** R. Escobar, V. Merchan
- **Completion and Wellbore Geomechanics in High Stress Settings—A Case Study From the Vaca Muerta Shale:** R. Ehlich, M. Pellicer, P. M. Duncan, O. Teran\*, C. Remington
- **Geomechanical Characterization of a Tight Gas Reservoir in the Neuquén Basin, Neuquén Province, Argentina:** E. Diaz, B. Espindola
- **Understanding Fault Block Compartmentalization Using 1-D and 3-D Geomechanics Analysis: Heidrun Field, Norway:** V. V. Riquete, R. C. Mota, A. Bazoni
- **Geomechanics and Fault Seal Analysis of Gundih Field CCS Pilot Project, Indonesia:** B. Sapiie, H. Danio, O. A. Mudasar
- **In-Situ Stress State of the Upper Paleozoic Coal-Bearing Strata in the Southern Qinshui Basin, China: Implications for Unconventional Natural Gas Exploration and Production:** J. Shi, L. Zeng

### 06G Deep-Water Exploration and Mature Fields

*Chair:* U. Hernández

- **Pyroclastic Deposits in a Non-Marine Hydrothermal Environment: Emplacement Mechanisms, Diagenesis, and Implication for Hydrocarbon Generation and Accumulation:** A. Di Capua, F. Barilaro
- **Deep-Water Northern Argentina—A New Frontier:** S. DeVito
- **Deep-Water Plays Offshore Southeastern Grand Banks Area, with a Particular Focus on the Carson Basin, Offshore Newfoundland, Canada:** R. Masotti, D. A. Little, G. N. Hudson, R. E. Dale
- **Seismic Interpretation and 3-D Structural Modeling of Coquinoid Horizons—Analog to Brazilian Pre-Salt, Aptian Section of Sergipe-Alagoas Basin:** M. F. D. S. Félix, J. A. O. Santos, S. A. S. T. Figueiredo, A. J. V. Garcia
- **Unlocking Reservoir Gas Potential: R&D Strategy for Geosteering in Coiled Tubing Drilling:** A. F. Marsala, A. Al Yousef, S. M. Komies
- **Pre-Tertiary Paleogeography of Aru Trough:** Y. R. Sinulingga, A. Gunawan, S. Damayanti, B. Sapiie, A. Rudyawan

\*Denotes presenter other than first author



### 07C Mature Fields

*Chair: G. Gomez*

- **The Pore Throat Structure and Petroleum Significance of a Tight Sandstone Reservoir in the Upper Triassic Yanchang Formation of Ordos Basin, China:** G. Xiao
- **Using Machine Learning Techniques for Mapping Dolomitic Facies in a Triple Porosity Calcareous Reservoir: Campeche Sound, Gulf of Mexico:** A. Cervantes-Velazquez, J. J. Tellez, K. La Marca
- **Bold Geologic Thinking and Replication of New Seismic Processing Techniques Unlocks New Prospectivity, Onshore Brunei:** A. Ibrahim, J. Scott, A. Klinton
- **Reservoir Characterization and Modeling of Karst Network in Bassein Pay of Neelam Field Mumbai Offshore Basin, India:** T. K. Mathuria, H. Srivastava, K. Vasudevan, S. Ravindran
- **Geological History of Pashkinsky Atoll—Exploration of Undiscovered Hydrocarbon Potential on the Mature Field:** I. Vorontsov, V. Maslyanitsky
- **Re-Design the Waterflood Model in Rantau Field, Indonesia Using 3-D Mechanical Earth Model: Integrated Study of Geomechanics Coupling with Reservoir Simulation:** G. S. Titaley, A. Utami, A. B. Prasetyo, A. W. Bachtiar, L. Sihotang, J. M. Pinem, M. Mulyawan, I. S. Ronoatmojo, A. Nurani
- **Characterization of Rayoso Formation for Underground Natural Gas Storage in Cupen, Neuquén Basin:** M. I. Suarez, R. P. Ferreyro Elizondo, G. V. Buchanan, A. E. Pose, M. V. David
- **Petrophysical Model and Sequence Analysis of an Eastern Field, Orinoco Belt (Venezuela):** K. Gonzalez, A. Machado
- **A Systematic Approach for Facies Identification Based on Rock Textures from Borehole Image Log and Core—Case Studies From Saudi Arabia:** D. H. Shahzad, S. Stewart, C. Neil, W. Weihua
- **An Approach to Inter Branch Distance Optimization in Heavy Oil Multi-Branch Horizontal Wells:** D. Moglia, Em. M. Pieroni, P. E. Lacentre, E. A. Peralta, A. R. Buchini

## THURSDAY MORNING ORAL SESSIONS

### 01B Emerging Basin and New Play in Mature Basin

*Co-Chairs: N. D. Bolatti and A. Melli*

- **Sweet-Spot Targeting Through Dynamic Modeling in a Basin Centered Gas Context—Application to Lajas Play, Neuquén Basin:** A. Auxenfans
- **A Revised Interpretation of Argentina's Offshore Austral and Malvinas Basins and Petroleum Play Analysis:** K. R. Reuber, B. W. Horn, D. Allinson
- **Unlocking New Hydrocarbon Opportunities in the Lower Cretaceous Section of the Guiana Basin:** C. P. Griffith
- **Biostratigraphy and Paleoenvironmental Evolution of the Colorado Basin, South Atlantic Ocean:** J. P. Perez Panera, D. I. Ronchi, G. N. Angelozzi, J. P. Lovecchio, L. Calvo Marcilese, L. Hiriart, L. Tortora, N. Calaramo, D. Cuciniello, G. Ottone
- **Methodology Used in the Exploration of a Frontier Area Located in the Northeast of the Rio Negro Province, Argentina:** M. Rodriguez Raising, M. Mendez, J. M. Martinez Lampe

- **Assessing the Hydrocarbon Exploration Potential of the Jurassic Cuyo Goup, Southwest Neuquén Basin, Through Outcrop Analog Studies:** J. F. Iñigo, R. Gutierrez, R. J. Steel, C. Olariu
- **Pre-Salt Plays in West Iberia:** R. P. Reis, N. Pimentel, R. Fainstein
- **Opening New Plays in the Austral Basin: Frontier Scale, De-Risked Exploration:** J. Bessa, P. Malmberg, B. Dewhirst
- **Reservoir Characterization of Chachil Formation, Neuquén Basin, Data Integration from Rocks to Models:** D. E. Velo, H. De Simone

### 02B Rock and Fluid Characterization of Unconventional Reservoirs

*Co-Chairs: E. Morettini and L. Smith*

- **Shale Porosity and Organic Content from Delaware Wells:** J. Walls, G. Davalos, B. Driskill, M. Durand
- **Petrophysical Techniques for Unconventional Analysis, Targeting the Wolfcamp Formation in the Permian Basin:** R. E. Moreland
- **Semi-Quantitative SEM Analysis of the Vaca Muerta Formation, Neuquén Basin, Argentina:** L. B. Smith, F. Gonzalez Tomassini, M. J. Rodriguez, C. Bernhardt
- **Composition Effects on Pore Structure of Transitional Shale:** Q. Zhang, P. Liang, X. Li
- **Poral System Characterization by Generating Synthetic Capillary Pressure Curves from Nuclear Magnetic Resonance:** E. Pedró, L. Tórtora, G. Vila, P. Bedini
- **Particularity of Fractal Dimension of Porous Shale and Its Significance for Shale Reservoir Research:** X. Wei, J. Zhang, W. Dang, X. Tang
- **Investigation of Clay Content as Being a Cause for Suppression of Pyrolysis Tmax Maturity Data in the Wolfcamp B:** N. Svihlik, A. Maende, M. Riley
- **Geochemical Characterization of an In-Situ Combustion Process on a Heavy Oil Reservoir From Liaohe Basin, Northeast China:** Y. Liu, H. Huang, H. Cheng, W. Cheng
- **Isotope Stratigraphy and Geochemistry Data From the Upper Jurassic—Lower Cretaceous Vaca Muerta-Quintuco Mixed Depositional System (Neuquén Basin):** G. Godino, E. Morettini\*

### 04B Latin American Basins – Clastics, Sedimentology, and Stratigraphy

*Co-Chairs: C. Olariu and E. Schwarz*

- **Sequence Stratigraphy of the Magallanes-Austral Basin:** F. Raggio, V. Abreu\*, M. Ghiglione
- **Devonian Quantitative Mineralogy and Kerogen Analysis in a High-Temperature High-Pressure Well in Bolivia: Rig Site Innovation and Lessons Learned:** J. M. Gonzalez Munoz, T. R. Zapata, C. Sensano, K. Perez, T. H. Marky, G. Villacorta, J. C. Calvo
- **Mixed Alluvial-Eolian Signatures in Overbank Deposits of a Miocene Fluvial-Fan System (Central Argentinian Foreland):** D. Ventra, A. Moscariello, G. Veiga
- **Paleo-Environmental Models, Sequence Stratigraphic Analysis, and Remaining Prospectivity of the Intra-Malmic to Inter-Senonian Interval (Neuquén Basin, Argentina):** J. F. Iñigo, R. Vargas, M. E. E. Novara, M. Pereira, I. Cambon, P. Pazos, E. Schwarz
- **Environmental, Facies, and Diagenetic Variation in a Deltaic Tight Sand: Formation—Lajas, Neuquén Basin, Argentina:** E. Rodriguez, M. Mariana, M. Arregui, A. O. Montagna,

- **Large-Scale Depositional and Palaeogeographic Reconstruction of the Pilmatué Member (Neuquén Basin): Understanding from the Source to the Sink:** E. Schwarz, G. D. Veiga, C. Echevarria, L. A. Spalletti
- **Stratigraphic Analysis, Characteristic, and Distribution of the Tight Reservoirs in the Lajas and Punta Rosada Formations in the Southeastern Sector of Neuquén Basin, Patagonia, Argentina:** S. A. Grosso, V. M. Marteau, N. Chirinos, F. G. Bianchi, F. A. Nissero
- **Paleogeographic Reconstruction and Characteristic Trends of a Basin Floor Fan in Los Molles Formation, Neuquén Basin, Argentina:** G. Giacomone, R. J. Steel, C. Olariu, M. Shin
- **Reservoir Development at the Margins of Continental Sedimentary Basins: The Role of Alluvial and Fluvial Fans for Geo-Energy Exploration and Development:** A. Moscardello

## 06B Deep-Water Exploration and Production: Tectonics, Sedimentation, and Pre-Salt

*Co-Chairs: S. Rohais and S. de Melo Garcia*

- **Evaluation of Deep Play Potential Offshore Ghana Using New Long-Offset Seismic Reflection Data:** N. Hurst, K. McDermott, P. Bellingham, B. Horn
- **Salt Mechanics and Timing of Pre-Salt Faulting Highlighted by Seismic Imaging—Santos Basin, Brazil:** H. D. Lebit, J. Tilton, S. Arasanipalai, P. Ollagnon, B. Virlovet
- **Pre-Salt Super Play Leading Brazil Into the World's Top 5 Oil Suppliers:** E. Petersohn, V. Sartori
- **Cretaceous Hybrid Turbidite Contourite Systems Unveiled Offshore Northern Argentina:** K. Rodriguez, N. Hodgson, E. Newman
- **Tectonostratigraphic Evolution of the Southwestern South Atlantic During the Cretaceous:** P. R. Kress, R. L. Gerster, N. D. Bolatti, G. Flores, S. Arismendi, J. P. Lovecchio
- **Axial Channel-Levee Complex and Transverse Slope Canyon Deposits in the Miocene of the Austral-Magallanes Basin in Tierra del Fuego: Implications for the Source of Sand-Prone Deposits in the Malvinas Basin:** E. Olivero, P. J. Torres Carbonell, M. R. Atencio, G. M. Covellone, J. P. Lovecchio
- **Huge Mass Transport Complexes in the Argentina Basin, Offshore South America: Morphology and Seismic Facies:** S. Arismendi, G. Flores, P. Kress, R. Gerster, N. Bolatti
- **Synrift and Sag Plays in the Southern South Atlantic: Key Elements and Uncertainties:** O. R. Lopez-Gamundi, H. de Santa Ana, B. Conti, E. Morales
- **Regional Multi 3-D Volume Sculpting Attributes That Tell the Geological Story of Deep-Water Mexico:** Z. Ahmadi, V. Brito, C. Luysterburg, E. Manning

## 08A Energy Projects and the Environment: Challenges and Proposals for a Better Future

*Co-Chairs: G. Garcia y Morales and J. Fasano*

- **Comparing Carbon Intensity of Unconventional and Latin American Oil Plays:** D. Meehan, N. Jenvey
- **Energy, Resource Efficiency, and Sustainability: A Road Map for the Oil and Gas Industry:** E. Morettini, J. P. Freijo, D. F. Maqui, J. Mahdjoubian Diaz Cano
- **Utilizing Existing Deep Wellbores as Heat Exchanger Wells:** M. Gati, A. Martonne Szekszardi, I. Sulyok

- **The Potential of Medicago Sativa for Microbial-Enhanced Phytoremediation of Diesel Fuel Contaminated Sites:** M. O. Eze, S. C. George, G. Hose
- **Geohazards Identification and Operational Assurance – Molusco-1 Well Offshore Colombia (Guajira Basin):** F. E. Malagon Rojas, H. Niño, C. Rubio

### Country Session: Guyana, Suriname, Trinidad & Tobago

*Co-Chairs: X. Moonan and C. Griffith*

08:25–10:10

#### Speakers Include:

- **Mark Bynoe**, Department of Energy, Ministry of the Presidency, Guyana (invited)
- **Rudolf Elias**, Staatsolie, Suriname (invited)
- **Azizah Baksh-Backredee**, Ministry of Energy and Energy Industries, Trinidad & Tobago (invited)

### History of Petroleum Geology

*Chair: E. Gomez*

10:50–12:15

#### Speakers Include:

- **A Century of Exploration in the Neuquén Basin, Argentina:** Jorge Hechem
- **History of E&P Industry in Mexico:** Alfredo Guzman
- **Historical Overview—Peru Oil and Gas Industry Perspective and Exploration Potential:** Pedro Alarcon
- **A Short Tale of Colombia Offshore Exploration—History in the Making:** Victor Ramirez

### Country Session: Colombia

*Co-Chairs: V. Vega and J. Calvache*

10:55–12:15

#### Speakers Include:

- **Luis Miguel Morelli**, ANH Colombia
- **Jorge Calvache**, Ecopetrol
- **Richard Herbert**, Frontera Energy
- **Francisco Lloreda**, Colombian Petroleum Association (ACP)



**THURSDAY MORNING POSTER SESSIONS**

**01G Emerging Plays and Geochemistry**

*Co-Chairs: V. Abreu and C. Borbolla*

- **Integrated Study of Physico-Chemical and Geochemical Parameters of Petroleum from the Cexis Oilfield in the Recôncavo Basin, Brazil:** C. Caetano, H. Penteado, R. Rodrigues, H. A. F. Chaves
- **An Integrated Methodology for Source Rock Characterization at Different Thermal Maturity Levels to Better Estimate In-Situ Liquid Hydrocarbons:** M-F. Romero-Sarmiento, S. Rohais
- **New Advances in Organic Geochemistry of the Pimenteiras Formation and its Contribution to the Non-Conventional Petroleum System of the Paleozoic Parnaíba Basin:** L. P. Martins, M. Brito, H. A. Portela, R. Rodrigues, S. Bergamaschi
- **Characterization of the Cenomanian-Turonian Source Rock of the Espírito Santo Basin: Integrating Geochemical and Log Data:** M. A. Reis, A. F. M. Freire, H. Penteado, R. Santos, L. M. D. Araujo
- **Multi Geochemical Parameters Identification of Dolomite Genesis and Key Factors of Reservoir in Lower Ordovician of Gucheng Area, Tarim Basin, Northwest China:** Z. You, S. Anjiang, Z. Xingping, B. Xiaojia, W. Xiandong, S. Guanming, Z. Mao
- **In-Situ U-pb Dating by LA-MC-ICPMS: A Useful Tool for the Study of Diagenesis-Porosity Evolution History in Ancient Marine Carbonate Reservoirs:** A. Shen, A. Hu, T. Cheng, F. Liang, J. Zhao, Y. Feng
- **Geochemical Features and Genetic Mechanisms of Deep-Water Source Rocks in the Senegal Basin in West Africa:** Y. Wu
- **Chasing the Source Rock in the Malvinas Basin, Argentina:** J. McGlew, M. Hiner, S. Amiribesheli

**02E Unconventional Plays**

*Chair: R. Belkenoff*

- **Diagenetic Processes Affecting Source Rock Properties in Various Maturity Ranges—Case Study of the Vaca Muerta Formation, Neuquén Basin, Argentina:** R. Philippine, G. Houareau, L. Alain, J-M. Kluska, E. Hernandez Bilbao, C. Aubourg, F. Gelin
- **Exploration Project Evaluation in the Vaca Muerta Formation, Neuquén Basin, Argentina:** J. F. Iñigo, A. Disalvo, F. Herrero, M. Alarcon, D. Solis
- **Biogeochemical Dynamics of an Unconventional Mesoproterozoic Petroleum System:** G. M. Cox, J. Farkas, M. L. Blades, A. S. Collins\*, A. V. Shannon, D. Subarkah, U. Kirscher, D. I. Close, E. Baruch-Jurado, J. Warburton
- **Petroleum Resource Classification System, Link to Opportunity Realization and Hydrocarbon Maturation Plans for Resource Booking in Unconventional Plays:** Y. E. Gonzalez, E. Krujjs, H. Mandler, P. Zannitto, D. Worms
- **Paleogeography and Geochemical Indicators to Assess Unconventional Shale Potential in Los Molles Formation Neuquén Basin, Argentina:** S. Utgé, L. Loss, R. F. Dominguez, J. Bouhier, M. Fasola, I. Lanusse Noguera, R. Guerello
- **Challenges in Accelerated Delineation and Development of One of the Structurally Most Complex Fields of North Kuwait—A Case Study:** V. K. Kidambi, N. S. Rao, C. Pattnaik, N. Al-Ajmi, M. Al-Dousiri, A. M. Al-Anzi

- **Controlling Factors for Shale Gas Performance in the Weiyuan Block, Sichuan Basin:** Q. Zhang, F. Liang, W. Guo, P. Liang, Z. Pang
- **Lessons Learned From Appraisal and Early Development of Unconventional Reservoirs in a Deep and Complex Setting: A Kuwait Case Study:** R. Narhari, V. K. Kidambi, C. Pattnaik, N. Al-Ajmi, M. Al-Dousiri, A. M. Al-Anzi
- **Critical Condition of Tight Oil Charging and Determination of the Lower Limits of Petrophysical Properties for Effective Tight Reservoirs: A Case Study From the Fengcheng Formation in the Fengcheng Area, Junggar Basin:** D. Zheng, X. Pang
- **Assessment of Shale Gas Potential of Lower Permian Marine-Continental Transitional Shales in the Southern North China Basin:** P. Li, J. Zhang, X. Tang, Z. Huo, Z. Huo, Z. Li

**06F Deep-Water Exploration and Petroleum System Modeling**

*Co-Chairs: U. Hernández and S. Anjos*

- **Is It Trap? Is It Seal? A Move Towards Consistent Risking of Stratigraphic Traps:** M. A. Sykes, J. S. Davis, C. J. Vandewater, S. J. Plitzuweit, S. L. Jackson
- **Channelized Gravity Current Deposits in a Post-Rift Basin: Insights from a Late Cretaceous Sequence in the Songliao Basin, Northeastern China:** Y. Feng
- **Key Controlling Factors for Biogenic-Gas Accumulation in the Deep Water of the Rakhine Basin Offshore Myanmar:** X. Wang, D. Shao, Y. Liu, C. Yan, G. Zuo, C. Mao, X. Xu, L. Ding

**07D Mature Fields**

*Co-Chairs: G. Gomez and M. Gonzalez*

- **Use of Horizontal Wells in the Development of the Chachauen Sur Field, Neuquén Basin, Argentina:** J. Fabiano, L. Martínez Gasso\*, A. Infante
- **A New Methodology to Estimate Reservoir Pressure and Mobility by Using Intelligent Wireline Formation Testers with Optimized Test Sequences Improving Success in Identifying Reservoir Properties:** M. Galarza, A. Pablo
- **New Model of Water Channeling Identification in an Unconsolidated Sandstone Reservoir:** G. Wenhuan
- **A Case of Numerical Simulation to Analyze a New Technology Applied to Fractured Horizontal Wells Near Gas-Water Contact: Loma La Lata Field, Neuquén Basin, Argentina:** M. Gamboa

## THURSDAY AFTERNOON ORAL SESSIONS

### 02C Application of New Technologies and Data Analytics in Unconventional Resources

*Co-Chairs: D. Hryb and G. Chao*

- **Time Lapse Seismic Integrated with Surface Microseismic for SrV Characterization in the Vaca Muerta Formation (Neuquén, Argentina):** G. Chao, J. L. Fachal, F. Achilli, D. Rojas Arce, M. Sainz-Trapaga, A. Lafram
- **Diffraction Imaging for Geological Discontinuities Detection: Case Study of Fortin de Piedra Block, Neuquén Basin, Argentina:** N. Requena, A. Horn, A. Juranovic\*, I. Sturzu
- **Integrating New Technologies in Studying Complex Carbonate Rocks at the Unconformity Surface—Dammam Formation, Kuwait:** F. H. Abdullah, M. Dernaika, O. AlJalad, A. Amer, L. Akber, M. Alkandari
- **Porosity Determination, Pore Size Distribution, and Mineralogy Phase Analysis in the Vaca Muerta Formation: Samples by SEM Techniques:** I. Jausoroa, F. Medina, M. Florida Addato\*, B. Epele, M. Cipollone, N. Santillán, A. Caneiro, M. J. Rodríguez, F. González Tomassini
- **Embedding Business Intelligence, Machine Learning, and GIS Methodologies in Reservoir Characterization: Case Study—Permian Basin:** C. Rodriguez, T. Funke, V. Idimadakala
- **Enhancing Sedimentological Characterization by Integrating Quantitative Data from Core Slab Digital Image—An Example from the Vaca Muerta Formation, Argentina:** D. E. Hryb, F. Gonzalez Tomassini
- **Reservoir Insights Enabled by Machine Learning Technology:** B. de Ribet, G. Gonzalez
- **Automated Directional Drilling to Improve Hydrocarbon Production:** B. Chmela, R. Johns
- **Amalgamation of Diverse Data Types and Sources to Facilitate Data Analytics of Engineering Interpretation and Historical Data:** C. Velasquez, I. Olea, R. Roundtree

### 03A Structural Geology and Tectonics of the Atlantic Margin

*Co-Chairs: D. M. Hodgson, N. Hurst, and T. Meckel*

- **Transforming the Transform: Insights Into the Development of the Equatorial Atlantic Transform Margin From Long-Offset Reflection Seismic Data in Ghana and Brazil:** K. McDermott, N. Hurst, P. Bellingham, B. Horn
- **Varying Rifting and Structural Styles on the Southernmost Atlantic Margins:** P. J. Webb, J. Malan, A. Quallington
- **Crustal Architecture and Tectonic Evolution of the Southern South Atlantic Conjugate Margins:** H. M. Bjørnseth, C. Stadtler, M. E. Tischler, S. Hinsken
- **A World Apart—Crossing Fracture Zones Offshore Gabon: A Magmatic Budget Story:** K. McDermott, E. Pettinotti, L. Fullarton, S. Patruno, P. Bellingham, B. W. Horn
- **Rifting Evolution of the Malvinas Basin, Offshore Argentina: New Constrains from Zircon U-Pb Geochronology, Seismic Characterization, and a Regional Perspective:** J. P. Lovecchio, M. Naipauer, L. E. Cayo, S. Rohais, D. L. Giunta, G. Flores, R. Gerster, N. D. Bolatti, P. Joseph, V. A. Ramos
- **The Structural Framework of the Western Falkland Plateau Basin:** R. M. Stanca, D. A. Paton, D. M. Hodgson, D. J. McCarthy, E. J. Mortimer

- **Mesozoic Breakup of Southwest Gondwana and Basin Formation Along the Argentinean Atlantic Margin:** J. P. Lovecchio, S. Rohais, V. A. Ramos, P. Joseph, N. D. Bolatti
- **Volcanic History of the Southern South Atlantic and Some Remarks on Seaward Dipping Reflector Formation:** I. Davison
- **Pletmos Basin Evolution Through the Jurassic, Cretaceous, and Cenozoic:** A. Davids

### 04C Latin American Basins and Other Global Analogs—Carbonates and Evaporites

*Co-Chairs: M. Pereira and E. Carrillo*

- **Tectono-Sedimentary Evolution of a Giant Salt Basin (Permian) in the Northern Peruvian Fold-and-Thrust Belt:** E. Carrillo, G. Martín, A. Rivera, L. Sarmiento, P. Baby, Y. Calderon, R. Barragan, F. Ortí
- **Sedimentological Characterization of Submarine Canyons and Channel Complexes in Los Molles Formation, Neuquén Basin, Argentina:** M. Pereira
- **Mesogenetic Dissolution Could Significantly Improve Carbonate Reservoir Quality: Evidence from Experimental Simulation:** X. He, A. Shen
- **Reefs and Rivers: Sequence Stratigraphy of Reciprocal Carbonate/Siliciclastic Successions:** E. Kosa, B. P. Lutz
- **Pre-Stack Multi-Attribute and Palaeogeomorphology Fusion Analysis Method of Carbonate Reservoir Prediction in, Santos Basin:** G. Zuo
- **Diagenetic Silicification of the Pre-Salt Reservoirs, Kwanza Basin, Offshore Angola: Insight from Silicon Isotopes:** J-P. Girard
- **Lower Cambrian Pre-Salt Microbialite-Mound: Lithofacies, Architecture, and Related Reservoir:** Z. Qiao, S. Zhang, A. Shen, J. Zheng,
- **Petrophysical Heterogeneity and Reservoir Quality Analysis of Carbonate Facies (Coquinas) from a Brazilian Pre-Salt Analog at the Sergipe-Alagoas Basin:** M. F. D. S. Félix, P. H. C. E. Pires, A. R. S. Oliveira, S. A. S. T. Figueiredo, A. J. V. Garcia, J. A. O. Santos
- **Vuggy Porosity Characterization in Carbonate Reservoirs Using Borehole Images and Core Data:** B. Gong, N. F. Hurley, E. Toumelin

### 05A Geophysics

*Chair: E. Vågnes*

- **Technical Progression in Tackling the Papua New Guinea Foldbelt: A Fit for Purpose Toolkit, A Learning Curve, and the Persistence that Led to Success in One of the Most Challenging Surface and Geological Settings:** P. A. Restrepo-Pace, M. Szczepaniak, K. Bradey, S. Chandra
- **Orthorhombic PSDM for a Valuable Focused Image of the Vaca Muerta Formation Using a Conventional Land Seismic Acquisition:** S. Sosa, M. Volonte
- **Seismic Pre-Stack Igneous Reservoir Characterization: Guanaco Field Study Case, Neuquén Basin, Argentina:** H. De Simone, M. E. Sigismondi, M. F. Barrionuevo
- **Regional-Scale 3-D Thermal Models of the Norwegian Continental Shelf:** Y. P. Maystrenko
- **Advanced Structural Interpretation: Multidimensional Analysis and Interpretation for the Delineation of Complex Geologic Structures:** L. A. Vernengo, E. Trincherro, I. Rovira



- **Highlighting Reservoirs Through Color-Blended Frequency Imaging Using Constrained Least Squares Spectral Analysis (CLSSA)—A Case Study From Penobscot Bay, Offshore Nova Scotia:** A. Pant, C. Puryear, D. Ghosal
- **Integrated 3-D Seismic Volume Workflow for Analysis of the Vaca Muerta Formation in the Neuquén Basin, Argentina:** M. Friday, E. L. Haire, J. Gross, B. W. Horn
- **Application of Calibrated Rock Physics Models for Time-Lapse Seismic Reservoir Monitoring (Case Study: AJ Field, Offshore Niger Delta Basin):** O. R. John, A. A. Adeniji, A. Osinaike
- **Use of Machine Learning to Estimate Sonic Data for Seismic Wellties:** T. Ketmalee, R. Lemaire

### 07A Mature Fields

*Co-Chairs: M. Gonzalez and G. Gomez*

- **Recent Advancements in Mechanical Earth Modeling at Farnsworth Unit Texas:** R. S. Balch, R. Will, M. McMillan
- **High Resolution Reservoir Characterization and Modeling for Surfactant and Polymer Injection in an Eolian System (Avilé Member, Puesto Hernandez, Neuquén Basin):** A. Arguello Scotti, L. Martino, D. D. V. Georgiades, M. M. Thomann, P. Barros Arroyo, G. Veiga
- **Extra-Deep Azimuthal Resistivity Reduces Geological Uncertainty and Enhances Reservoir Navigation in a Highly Complex Carbonate Reservoir in Polvo Field, Offshore Brazil:** R. Cremonini, A. Vianna, J. Gripp, J. Xavier, L. Escarcena, A. Monlevade, L. Nakajima, N. Amorim, T. Santos, S. Hall, P. Blaskovski
- **Assessment of Production Potential in a Tight Carbonate Reservoir—Tuba Reservoir Sabiriyah Field North Kuwait Kuwait:** S. Essia
- **Incremental Recovery Factor of at Least 9% Can be Achieved Designing Optimum Inter-Well Distance Patterns on a 3-D Model for Polymer Flooding in Multilayer Fluvial Reservoirs:** F. T. Schein, J. E. Juri, M. Pacchy, A. M. Ruiz Martinez, M. Thill, P. Guillen, V. Serrano
- **Oil Potential in a Downdip Structural Belt on Block 17, Oriente Basin, Ecuador:** D. Good, R. Orozco\*, J. Lin, Y. Sun, Q. Hu
- **Mineralogical Model: The Basis for the Estimation of Accurate Petrophysical Properties in a Complex Environment: Case of Bajo Barreal Formation, Golfo San Jorge Basin, Argentina:** R. Zambrano, A. D'odorico, P. Saldungaray, G. Pedersen, A. Arguello Scotti, D. Astesiano
- **Refracturing as an Effective Mature Play Re-Development Strategy:** A. Sharma
- **Advance Facies Rock Typing Approach for 3-D Geocellular Static Modeling for Polymer Flooding in the Tambaredjo Oil Field, Suriname:** J. Jowintinie, R. Rakesh

### Country Session: Mexico

*Co-Chairs: F. Monroy and P. Tejera*  
13:55–15:20

#### Speakers Include:

- **Alma América Porres**, National Hydrocarbons Commission (CNH), Mexico (invited)
- **Pablo Tejera Cuesta**, General Manager, Development, Shell Mexico
- **Merlin Cochran**, Mexican Association of Hydrocarbons (Amexhi) (invited)

### Country Session: Peru

*Co-Chairs: P. Alarcon and F. Seminario*  
15:55–17:40

#### Speakers Include:

- **Seferino Yesquén**, Chairman of the Board, Perupetro
- **Adrian Vila**, Country Manager, Pluspetrol (invited)
- **Alejandro Chalco**, Exploration Manager, Cepsa Peru (invited)
- **Jannine Delgado Silva**, President, National Society of Mining, Petroleum and Energy (SNMPE) (invited)

## THURSDAY AFTERNOON POSTER SESSIONS

### 03D Structural Geology and Tectonics—International Case Studies

*Co-Chairs: P. Giampaoli and E. Rossello*

- **Fault Network System Controls on Fluid Flow: Taking Linnan Sag as an Example:** D. Wang, Z. Wu
- **Effect of Paleozoic Collision and Mesozoic Rifting on Crustal Structure in the Western Gulf of Mexico:** P. Lin, J. Liang, X. Huang, J. Ma
- **Influence of Basement Fault Geometry and Orientation in Extensional Architecture: A Study Case at Manantiales Behr Oilfield at North Flank, Golfo San Jorge Basin:** G. A. Guerra, P. Giampaoli, R. G. Lopez, J. Allard, G. F. Marinho,
- **Evolution and Crustal Architecture of Pelotas Basin, Uruguay and Brazil:** S. Gamez Galicia, D. A. Paton, E. Mortimer
- **Plate Interactions, Escape, and Surface Strain in Northwestern South America:** S. A. Lopez, E. A. Rossello, H. Mora,
- **Karst Concentration in Fracture Corridors Along an Anticline Hinge Zone—Implications for Fractured and Karstified Carbonate Reservoirs:** F. L. Bagni, F. H. Bezerra, F. Balsamo, R. P. Maia, J. Araújo,
- **Structural Controls on the Evolution of Los Monos Anticline (Sub-Andean Zone, Bolivia): Evidences from Surface and Sub-Surface Data, and Kinematic Modeling:** S. Burga, O. Vidal Royo, O. Ferrer
- **Natural Fracture Network and Evolution of the Covunco Anticline, Neuquén Basin, Argentina:** E. Ventisky, D. L. Yagupsky, J. Likerman, D. Kietzmann

### 04F Latin American and Other Basins: Clastic Sedimentology and Stratigraphy II

*Co-Chairs: M. Cardoso Junior and J. Pluis*

- **Re-Exploratory Study of an Area in the Tahe Oilfield, Western China: From the Geological Characterization of Fractured Karst Carbonates to Prediction of More Prolific Sweet-Spots:** J. N. Mendez, X. Zhang, Q. Jin
- **Orthogonal Experimental Design for Sensitivity Analysis in Stratigraphic Forward Modeling:** Y. Zhang, W. Xu, L. Fang, Z. Jing, J. Liu, J. Zou
- **Digital Outcrop Model of the Ciénaga De Oro Formation (Arenal-Section), Colombia: High-Resolution Sedimentology and Ichnology: Implications for the Modeling of a Petroleum Reservoir:** G. A. Mendoza Rodríguez, F. M. Niño Rodríguez, P. D. Gómez, G. M. Rincón,
- **3-D Stratigraphic Modeling of Glacial Deposits on a Neopaleozoic Paleovalley, Paraná Basin, Southern Brazil:** M. Cardoso Jr, A. S. Silveira, P. S. G. Paim, F. A. Trentin

- **3-D Stratigraphic Forward Modeling of an Ancient Transgressive Barrier System:** F. A. Trentin, E. L. C. Lavina, A. S. Silveira, V. Engelke, S. R. X. Lopes, A. A. D. O. Lopes
- **Deep Learning Applied to Accelerate Core Description: Examples from Unconventional and Conventional Plays:** O. Falivene, N. Auchter, N. J. Purcell, L. Kleipool, J. Pickering, M. Claps, J. G. Solum, D. L. Kirschner, A. Cilona, R. Pires de Lima, F. Menapace, I. S. Espejo
- **Anomalous High Permeability Clastic Reservoirs: New Insight into the Understanding of the Austral Basin (Argentina) Reservoirs Quality:** A. Ong, A. Mazerand\*, J. M. Kluska
- **Svalbard's Konusdalen Outcrop Faulting Characterization in a Virtual Reality Environment:** R. K. Horota, P. Rossa, A. Marques Jr., E. M. de Souza, M. R. Veronez, L. Gonzaga Jr., C. L. Cazarin
- **Criteria for Recognition of Shelf-Slope Clinofolds Using Outcrop Data—Jurassic Lajas and Los Molles Formations, Southern Neuquén Basin, Argentina:** C. Olariu, R. J. Steel, N. K. Vann, E. P. Tudor, M. Shin, R. R. Winter, Y. Gan, E. Jung, F. Almeida, G. Giacomone, D. Minisini, W. Brinkworth, M. L. Loss, J. Inigo, R. Gutierrez

### 06D Deep-Water Exploration and Production: Southwestern Atlantic Basins

*Chair: G. Zamora*

- **Thermotectonic History of the Maastrichtian Reservoir in the Campos Basin:** A. R. Jelinek, C. Oliveira
- **Exploration of Deep-Water Plays Offshore Ireland with Insight from Analogs Along the Atlantic Margin:** K. Hernon, C. Morgan
- **Extraordinary Remaining Potential in the Pre-Salt of Santos Basin:** E. J. Newman, P. V. Zalan
- **Multi-Scale Approach for the Characterization of Heterogeneous Lacustrine Pre-Salt Reservoirs: Case Study of the Yacoraite Formation, Maastrichtian-Danian, Northwest Argentina:** S. Rohais, M. Adelinet, E. Bemmer, J.-C. Lecomte, M. Gasparini, M. F. Schiuma, I. E. Brisson, R. J. Calegari, M. L. Rodriguez Schelotto
- **Log Features for the Characterization of Igneous Rocks in the Pre-Salt Area of Santos Basin, Southeast Brazil:** F. V. C. S. R. S. Oliveira, R. T. M. Gomes, K. M. S. Silva
- **Mass Balance of Sediments in the Northwest Corner of South America:** E. Lopez
- **Cretaceous Contourites in the Offshore of Argentina: Seismic Stratigraphic Characterization and Exploration Impact:** G. Flores, S. Arismendi, R. Gerster, J. P. Lovecchio, P. R. Kress, N. D. Bolatti
- **3-D Seismic Interpretation and Internal Structural Architecture of the Maricá Mass-Transport Complex, Northern Santos Basin, Brazil:** B. H. D. M. Merse, B. Trzaskos

### 08B Holistic View of Energy Projects: Community, Environment, and Business

*Co-Chairs: C. Garcia Londoño and G. Garcia y Morales*

- **Reconstruction of the Thermal History of the Western Swiss Foreland Basin: A Multidisciplinary Approach to Prevent Risk in Geothermal Exploration:** S. Omodeo-Salé, V. Diego, D. H. Antoine, O. Eruteya, L. Guglielmetti, A. Thierry, C. Teodoro, A. Moscardello
- **Rebuilding Trust Between Communities and Oil and Gas Industry: Case of Relationship of ACGGP with Communities in Colombia:** C. Ortega Galvis, F. G. Rodriguez-Portillo, M. Giraldo
- **What is the Business Environment for Global Exploration in 2025—And What We Need to Do Now to Succeed:** R. Ameerli
- **E-Waste—Identifying Potential Hazards and its Mitigation Techniques:** K. Shankar, R. Agrawal
- **Model of the Use and Production of Water in the Gulf of San Jorge Basin:** R. J. J. Neder, V. R. Aguirre
- **Production of Geothermal Energy from Oil and Gas Wells:** E. A. E. A. El-Damhogy

### FRIDAY MORNING ORAL SESSIONS

#### 01C Sub-Andean Basin

*Co-Chairs: T. R. Zapata and J. Esquivel*

- **Structural Controls in the Sub-Andean Zone of Peru:** G. Zamora, M. Louterbach, P. R. Arriola
- **Devonian Petroleum System Update of the Southern Sub-Andean Fold-and-Thrust Belt:** D. Peña Sierra, T. R. Zapata, M. Bonora, O. de Mena, J. R. Limachi Mamani, V. H. Goitia Antezana
- **Confidence Based Exploration in Bolivian Thrustbelt Through Integration of G&G Workflow:** A. Arias, P. Janssen
- **Devonian Palynological Framework for the Southern Sub-Andean Fold-and-Thrust Belt, Bolivia, South America:** F. Alegria, P. Osterloff, J. Marshall
- **Play Mapping for Petroleum Systems Analysis: Examples From Conventional and Unconventional Plays of the Neuquén Basin, Argentina:** J. Wendebourg, P. A. Castellarini, H. Freije, M. Borgnia, M. C. Borbolla
- **Hydrocarbon Migration and Charge Models for the Eastern Cuyana Basin Fields, Argentina:** Y. Basile, Y. Ruiz
- **Outcrop Analog of an Igneous Petroleum System in a Fold-and-Thrust Belt Setting: The Cara Cura Range in the Northern Neuquén Basin, Argentina:** J. O. Palma, J. B. Spacapan, O. Galland, O. Rabbell, R. Ruiz, H. A. Leanza
- **Hydrocarbon Potential of the Bolivian Santa Cruz-Tarija Foreland Basin:** F. J. Schneider, J. Esquivel, S. Rousse, J.-L. Faure, R. D. Mayta Jimenez
- **The Late Cretaceous Neuquén Group Basin Between 35° and 37° South — Implications for Hydrocarbon Exploration:** P. Borghi, R. Gómez Omil, L. Fennell, M. Naipauer, A. Folguera



**07B Mature Fields**

*Co-Chairs: M. Gonzalez and G. Gomez*

- **Applying Machine Learning Methods to Study Compartmentalization in Complex Reservoirs Based on Static Pressure Information:** J. V. Contreras Sandia
- **Assessment of Igneous Intrusive Bodies as Naturally Fractured Reservoirs. Los Volcanes Field: Neuquén Basin, Argentina:** R. Barberis, I. Scalerandi, B. Villoslada
- **Origin and Exploitation of Residual Oil Zones (ROZ) in the Permian Basin of Texas:** I. J. Duncan, B. Ren, F. Male, V. Baques
- **Geologic Characterization and Monitoring Utilizing Multiple Data Sets for the Carbon, Capture, Storage, and Utilization Project at Farnsworth Unit, Texas:** P. Czoski, R. Balch, G. El-Kaseeh
- **Combining Reservoir Physics and Machine Learning for Efficient Modeling and Optimization of Large Scale Mature Waterfloods:** S. P. Figliuolo, L. Gonzalez Day, L. Di Benedetto, P. Pastor, F. Gutierrez, C. Calad, P. Sarma
- **Revisiting Mature Fields in \$50 Oil—Digging Deep in Geology with Advances in Technology and Digitalization:** S. V. C. Dronamraju
- **Quifa Southwest Field, Llanos Basin, Colombia. Case History of a Giant Mature Heavy Oil Field:** R. Herbert, M. A. Asuaje Tovar, L. O. Castillo Chacín, W. Parra Moreno
- **Systemic Approach to Develop Mature Fields:** M. Grinberg, H. Chin, A. Lien, M. Vicente, J. Arizola Puelles, J. Vallejos, L. Soto, J. Almeida, M. Moyano\*
- **Pilot Block Vacas Muertas South—New Injection Design at the Layer Level:** M. Vargas, R. Robles
- **An Approach to Inter-Branch Distance Optimization in Heavy Oil Multi-Branch Horizontal Wells:** D. Moglia, E. M. Pieroni, P. E. Lacentre, E. A. Peralta, A. R. Buchini

**00A Super Basins of Latin America**

*Co-Chairs: C. A. Sternbach and C. Wilhelm*

- **Introduction: Exploration Creativity in the Golden Age of Super Basins, and What AAPG Is Doing About Them:** C. A. Sternbach
- **Latin America’s Super Basins – Are Any of Them Poised to Re-Awaken?:** R. E. Fryklund
- **Argentina, Vaca Muerta, and Other Plays in the Neuquén Super Basin:** C. E. Macellari
- **Brazil: An Update on the Campos and Santos Super Basins, and Recent Discoveries:** R. Cunha
- **Colombia: Onshore and Offshore Basins Driven by the La Luna Petroleum System:** J. A. Calvache
- **Mexico Super Basins, Including the Tampico Misantla Super Basin – A Lookalike to the Permian Basin of the USA?:** A. E. Guzman

**Country Session: Bolivia**

*Co-Chairs: J. Esquivel and A. Goncalves*

08:25–10:10

**Speakers Include:**

- **Luis Alberto Sanchez**, Minister of Hydrocarbons and Energy, Bolivia
- **Oscar Barriga**, YPF Corporation
- **Tomas Zapata**, Repsol
- **Claudia Cronenbold Harnes**, Bolivian Hydrocarbons Chamber of Commerce

**FRIDAY MORNING POSTER SESSIONS**

**01F Petroleum System and Modeling**

*Co-Chairs: W. Hermoza and C. Sylwan*

- **Regional Seismostratigraphic Model of the Tertiary Sedimentary Fill of the Austral-Magellan Fuegian Basin and its Potential Reservoirs:** P. Barros Arroyo, J. Marino, M. L. Miller, P. Giampaoli, G. Angelozzi, D. Ronchi, L. Hiriart
- **Non-Invasive Temperature Estimation—A Luderitz Basin, Namibia, Case Study:** A. Sarkar, M. Huuse
- **A Re-Evaluation of the Paleozoic Prospectivity in the Forth Approaches Basin, United Kingdom North Sea – New Insights of the Petroleum System:** E. Tibocho, I. Deighton
- **Main Controlling Factors for Downward Migration Oil Accumulation in Volcanic Rocks of Shan Oilfield in the Junggar Basin, Northwest China:** M. Hou, M. Zha, X. Ding
- **New Life to Old Exploration Maps: Regional Tools for Student and Professional:** W. G. Dickson, G. Williams, C. M. Urien
- **Source Rock Evaluation Supported Play Fairways in the West Malvinas Basin:** K. Rodriguez, N. Hodgson, E. Newman
- **Petroleum System Modeling in Complex Structural Settings: Application to the Bolivian Southern Andean Foothills:** F. J. Schneider, A. Thebault, M. Callies, R. Giraud
- **Hydrocarbon Records Linked to Igneous Intrusions from the Colipilli Area, Central-Western Sector, Neuquén Basin, Argentina: A Possible Atypical Petroleum System:** M. A. Salvioli, M. F. Lajoie, H. G. de la Cal, N. N. Cesaretti, M. E. Lanfranchini
- **A New Prediction Model for Vitrinite Reflectance Incorporating Overpressure Suppression and its Application:** M. Hou, M. Zha, X. Ding

**02E Vaca Muerta Play: An Integrated View**

*Chair: E. Ukar*

- **Lessons from the Outcrop for the Subsurface, Vaca Muerta-Quintuco Formations, Argentina:** G. P. Eberli, R. J. Weger, L. Rodriguez Blanco, L. E. Rueda Sanchez, M. Tenaglia, M. K. Yükses, D. F. McNeill, M. Zeller
- **De-Risking a Thick and Stratigraphically Complex Unconventional Play: Vaca Muerta Case Study—Sierras Blancas and Cruz de Lorena Fields:** R. Notta, G. Gonzalez, H. Mandler, E. Kruijs
- **Geological, Geophysical, and Geomechanical Properties Selection to Identify the Best Strategy to Develop El Orejano Block:** C. Teran, L. De Marzio, P. Alvarez, F. Bernard, C. Ferlaza

- **New Opportunities for the Vaca Muerta Formation as a Shale Play in the Southern Neuquén Basin:** M. F. Rincon, F. N. Bergese, J. E. Bouhier, F. G. E. Späth, S. M. Utgé, R. F. Dominguez, R. R. Guerello
- **Determining Effective Fracture Networks in Lateral Vaca Muerta Wells Using a Novel Geochemistry-Based Workflow:** J. Hinojosa, O. Huvaz, S. Scholten, L. D. Stasiuk, R. L. Schelstrate, C. Vecere
- **Lateral Variability in a Basinal Setting of the Vaca Muerta Formation Setting:** R. J. Weger, L. Rodríguez Blanco, P. K. Swart, G. P. Eberli
- **Discontinuities Analysis Related to Fissility of the Fine-Grained Vaca Muerta Formation (Neuquén Basin, Argentina) Through Core Mapping:** L. I. Martín, D. Marchal, C. Naidés, S. Barredo
- **Unraveling Concretion Occurrence Within the Vaca Muerta Formation:** L. Rodríguez Blanco, D. F. McNeill, R. J. Weger, G. P. Eberli
- **Using Outcrop Observations to Improve Subsurface Interpretation, Vaca Muerta Formation, Argentina:** R. J. Weger, T. Santana, L. Alimonti, M. K. Yüsek, J. Marino, L. Rodríguez Blanco, G. P. Eberli

## 05C Geophysics

*Chair: E. Vågnes*

- **Application of Gravitational Curvature Analysis to Structural Domaining of Onshore Basins:** M. Zengerer
- **Automatic Seismic-to-Well Tie by Restricted Adjustment of Sonic Logs:** G. R. Gelpi, D. O. Pérez, D. R. Velis
- **Geologically Constrained Seismic Imaging in Andean Thrust Belts:** R. W. Vestrum
- **Petrophysical Fingerprint Technique Investigations Using Conventional and Synthetic Logs: A Case Study in Badri Field, Southern Gulf of Suez, Egypt:** A. Radwan
- **Modeling of Microseismic Events in Hydraulic Injection Scenarios:** M. F. Serrano Segovia, D. Velis, S. Lagos
- **Magnetic Susceptibility Variations in Lower Paleozoic Shales of the Baltic Basin (Northern Poland) – A Helpful Tool for Regional Correlations and Decoding of Paleoenvironment Changes:** D. K. Niezabitowska, J. Roszkowska-Remin, R. Szaniawski
- **4-D Resistivity and UAV Acquisition and Monitoring of the Piparo Mud Volcano, Trinidad, West Indies:** R. V. Gopaul, O. Blake, V. Rambaran, I. Ali, A. Osman, U. C. Iyare, R. Ramsook, X. R. Moonan
- **Identifying Geological Events Through Seismic Multiattribute Realistic Covisualizations:** L. A. Vernengo, E. Trincherro, I. Rovira
- **Potentialities of Multicomponent Seismic Techniques in the Characterization of Oil Reservoirs Underlying High Velocity Layers:** I. J. Aluka

## 04G Latin American Basins and Other Global Analogs– Carbonates and Evaporites

*Chair: J. Martínez Lampe*

- **Characteristics and Formation Mechanism of the Pre-Salt Dolomite Reservoirs of the Ordovician in the Ordos Basin China:** D. Wu, J. Zhou, X. Wu, Z. Yu, S. Wang, Z. Ding
- **Twin Platform Edges Model of the Ediacaran Dengying Formation and its Significance, Sichuan Basin China:** J. Zhou, J. Zhang, H. Deng, Y. Hao, W. Li
- **Overprint Between Meteoric Karstification Along with Microbial Mediation and Hydrothermal Alteration of the Mauddud Formation in Kuwait:** S. Behbehani, C. E. Hollis, M. Al-Wadi

- **Characterization of Cretaceous Carbonate Tidal Channel Deposits with Constraints from Paleogeography, Relative Sea Level Changes, and Seismic Sedimentology: Case Study of 3 Major Oil Fields in Southeast Iraq:** R. Han, B. Song, C. Tian, Y. Gao
- **Origin of the Middle Permian Qixia Formation Dolostone, Northwestern Sichuan Basin, China:** P. Li, H. Zou, F. Hao, X. Yu, G. Wang, J. Eiler
- **Characterization of a Microbial Carbonate Reservoir in Ediacaran Period in the Sichuan Basin, China:** J. Zhang
- **Microbial Biomineralization Processes of Stromatolitic Dolostone from the Ediacaran Period in the Sichuan Basin, Southeast China:** J. Zhang
- **Mitigation of the Challenges Imposed by Evaporites of Kimmeridgian – Tithonian Age: A Key Driver for Successful Development and Appraisal of Deep HPHT Carbonate Reservoirs in Northern Part of Kuwait:** V. K. Kidambi, S. R. Narhari, C. Pattnaik, N. Al-Ajmi, M. Al-Dousiri, A. M. Al-Anzi
- **The Lotena Formation Filling Incised Valleys—A New Geological Model Based on the Integration of Surface and Subsurface Information:** R. A. Claa, L. Alvarez\*, J. M. Martínez Lampe
- **Geometric and Architectural Patterns in Coquinas of Morro do Chaves Formation, Sergipe-Alagoas Basin, Northeast of Brazil:** S. A. Silva Tavares Figueiredo, J. A. Oliveira Santos, M. F. dos Santos Félix, A. J. V. Garcia

## FRIDAY AFTERNOON ORAL SESSIONS

### 01D Geochemistry

*Co-Chairs: H. J. Villar and J. Wendebourg*

- **Geochemical Assessment of Basins Along the Western South Atlantic Margin:** C. F. Schiefelbein, J. E. Zumberge, W. G. Dickson, C. M. Urien, M. Hiner
- **Determining Unconventional Shale Gas Maturity: A Carbonate Vein Tale:** F. H. Lu
- **Noble Gas Geochemistry: A New Method for Hydrocarbon Exploration:** Z. Wan, K. R. Arouri, L. Ellis, A. Shaikh
- **How to Interpret Geochemical Exploration Data Using the Vertical Migration Model:** G. K. Rice
- TBD

### 02D Unconventional Frontier Plays

*Chair: M. Cevallos and D. Jarvie*

- **Unlocking Shale Exploration in Peru: Opening a New Energy Frontier:** D. Timoteo, F. Palacios, A. Quispe Munoz
- **Unconventional Upper Jurassic Resource System, Tampico Misantla Basin, East Central Mexico:** D. M. Jarvie, A. E. Guzman
- **Palermo Aike Shale Potential, Austral Basin Onshore Argentina:** M. F. Cevallos, D. M. Jait, H. J. Villar, D. Villalba, F. Más Cattapan
- **Assessment of Unconventional Oil and Gas Resources of the Cuyo Basin Province, Argentina:** C. J. Schenk
- **Fairway Analysis of the Jurassic Tight Gas Play in the Northern Neuquén Basin, Argentina:** J. Fantin, M. Asensio, L. C. Gonzalez

\*Denotes presenter other than first author



**04D Geological and Sequence Stratigraphic Modeling**

*Co-Chairs: M. D. Sullivan and M. Barria*

- **Emergence of Facies Architecture During the Evolution of Shallow Marine Systems:** B. J. Willis, T. Sun, B. B. Ainsworth
- **Integrated Computational Stratigraphy Reservoir Characterization and Seismic Validation:** M. Amaru, T. Sun, F. Laugier, B. Willis, M. Sullivan, L. Goggin, B. Power
- **Impact of the Data Capture in Malal Del Medio Oeste Field Characterization, Neuquén Basin, Argentina:** M. F. Valverde, M. A. López Ordines, M. M. Barria\*
- **Sequence Stratigraphic Surfaces and Their Relationship with Oil Reservoirs: The Latest Cretaceous–Paleogene Succession of the Llanos Foreland Basin, Colombia:** C. T. S. Juan, O. Catuneanu, A. Mora, V. M. Caballero, M. J. Reyes Correa
- **Enhanced Geological Modeling Techniques in the Mesa Verde Oilfield, Cuyana Basin-Argentina:** G. A. Gomez, V. E. Ferreyra\*, D. Tetzlaff, A. Saccomano, S. Courtade

**05B Geophysics II**

*Chair: E. Vågnes*

- **High Resolution Imaging Using Narrow Azimuth Streamer Data from the Campeche Basin; Velocity Model Building with Tomography and FWI:** M. J. Albertson, D. K. Kosmitis, C. Calderon, I. Berranger
- **The Application of 3-D VSP and Surface Seismic Joint Exploration Technology in the Kalyca Block, Indonesia:** G. S. Titaley, F. F. Azmalni, . Dharma, S. Andaryani, T. B. Kurniawan, W. Hermawan, W. Shize, Y. Chen, Z. Cai, M. N. Samsoe
- **Application of Deep Learning Along Directional Image Gathers for High Definition Classification of Subsurface Features:** R. Levy, L. Itan, R. Dafni, Z. Koren
- **New Insight to Paleogene Geology of Barito Basin, South Borneo, Indonesia:** R. Ryacudu
- **Comparative Analysis of Three Denoising Methods for Microseismic Data: Radon Transform Denoising, Reduce-Rank Filtering, and Empirical Mode Decomposition:** G. I. Brunini, J. I. Sabbione, J. L. Gómez, D. R. Velis

**06C Deep-Water Exploration and Production: Reservoir Characterization and Modeling**

*Chair: T. Meckel*

- **How Well We Predict the Outcomes of Exploration Drilling:** A. V. Milkov
- **Quality Prediction of Cretaceous Turbidite Reservoirs from Water-Rock Interaction Simulations—Espírito Santo Basin, Eastern Brazil:** J. Strim, D. M. Oliveira, A. J. Park, L. F. De Ros
- **An Approach to Quantify Uncertainties on Gross-Rock Volume Based on the Velocity Models and Seismic Resolution Constraints:** C. Pereira, V. R. Pinto\*, M. Paes, A. Maul, T. B. Meneguim, M. González, G. González, R. S. Meyer, S. L. Furland
- **Reservoir Characterization and Modeling Strategies from Exploration Through Development and Production Life-Cycle:** N. T. Akpulat
- **Improving the Reliability of Reservoir Models Using Diverse Software Workflows:** P. E. Neri





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# [ REGISTER AND TRAVEL ]

- ▶ How to Get Around
- ▶ Where to Stay
- ▶ How to Register
- ▶ Code of Conduct









### Airport Information

There are three main airports with scheduled flights serving the Greater Buenos Aires metropolitan area:

#### Aeroparque Jorge Newbery (AEP)

Aeroparque Jorge Newbery is located in Buenos Aires city proper, with scheduled domestic flights and some regional flights within southern South America.

**Address:** Av. Costanera Rafael Obligado s/n, C1425 CABA, Argentina

**Phone:** +54 11 5480-6111

**Website:** <http://www.aa2000.com.ar/aeroparque>

#### Ministro Pistarini (Ezeiza) International Airport (EZE)

Ministro Pistarini International Airport also known as Ezeiza Airport, is located 22 km southwest of the city in the municipality of Ezeiza and serves mostly international routes and some domestic flights.

**Address:** AU Tte. Gral. Pablo Riccheri Km 33,5, B1802 Ezeiza, Buenos Aires, Argentina

**Phone:** +54 11 5480-6111

**Website:** <http://www.aa2000.com.ar/ezeiza>

#### El Palomar Airport (EPA)

El Palomar, is located 18km west of the city in the municipality of El Palomar and serves a limited number of scheduled domestic flights.

**Address:** El Palomar, Buenos Aires Province, Argentina

**Phone:** +54 11 5480-6111

**Website:** <http://www.aa2000.com.ar/elpalomar>



### Airport Transportation

- Taxis are readily available at all airports.
- Private transfers can be booked in advance or on arrival. Tienda León runs buses from Ezeiza airport to its base in Puerto Madero, in the center of Buenos Aires city.
- Several public bus lines stop at Jorge Newbery Airport. You'll need a SUBE card to use them – ask at Jorge Newbery Tourist Assistance Center)

### Public Transportation

Buenos Aires has a large, efficient public transport network, almost 40,000 licensed taxis, a hop-on, hop-off sightseeing bus, and a vast network of cycle lanes.

#### • Subte (Underground train network)

The Subte is often the quickest way to get around the city, especially when travelling to and from the downtown area. There are six lines (lineas) A, B, C, D, E and H, which connect the city's main avenues, train stations and coach stations.

Trains run every three to ten minutes depending on the line, from about 5:30 a.m. to 11:30 p.m. Monday to Friday, 6:00 a.m. to midnight on Saturdays, and 8:00 a.m. to 10:30 p.m. on Sundays. Unsurprisingly, trains can get very crowded at peak commuter times (8:00 a.m. - 9:30 a.m. and 5:00 p.m. - 7:00 p.m.). The Subte website has a detailed map of the network, and you can download a copy of the map as a PDF. Stations have free Wi-Fi access.

To travel by Subte (underground metro) in Buenos Aires, you'll need to get a rechargeable SUBE travel card and charge it with credit. SUBE cards are available at Subte stations, at eight Tourist Assistance Centers and at many "kioskos" (corner shops selling confectionary and tobacco) throughout the city. Cards can be charged with credit at all Subte stations, national lottery outlets, and at some kioskos with automated terminals.

#### • Bus

Known locally as 'colectivos' or 'bondis,' buses are a cheap and efficient way to get around the city. They run 24 hours a day, 365 days a year, and cover the whole city. Tell the bus driver where you are headed, and they will select the correct fare. The "Metrobus" is a bus rapid transit system using dedicated bus lanes to cut journey times on several of the city's main arteries. Several Metrobus stops have free Wi-Fi access.

#### • Taxis

Buenos Aires is awash with licensed black and yellow taxis and in busy areas you're unlikely to wait more than a couple of minutes for one. Often the most comfortable way to get from A to B, they can be flagged down directly off the street on the right-hand side – you can tell if one is available if the 'libre' (free) sign is lit up in the windscreen. Licensed taxis run on meters, and fares are exclusively in Argentine pesos (ARS \$). It's common to give a direction to the driver using the cross street. Private hire taxis called remises can be booked in advance through agencies, and you can also book regular taxis using the city government's mobile e-hailing app BA Taxi, available for Android and iPhone.

#### • Car Hire

Many major car hire companies operate in Buenos Aires, in the city centre and at both Ezeiza (Pistarini) and Aeroparque (Jorge Newbery) airports. To hire a car you need to be over 21 years of age, have owned a driver's license for at least 2 years and have the means to pay by credit card.

#### • By Foot

There's so much to see and enjoy in barrios like San Telmo, Palermo Viejo and Soho, Recoleta, Balvanera, and the microcentro (the central downtown area) that they are often best explored on foot. More and more central streets are being pedestrianized, with improved street lighting and more green spaces.

## Venue Information

### Hilton Buenos Aires

**Address:** Macacha Güemes 351, C1106 BKG, Buenos Aires, Argentina

**Phone:** +54 11 4891-0000

**Website:** <https://www3.hilton.com/en/hotels/argentina/hilton-buenos-aires-BUEH1HH/index.html>



## Visa Information

If you are not a citizen of Argentina and you plan to attend ICE 2019, please determine whether or not you need a visa to enter the country, and if you need one, that you obtain the correct visa type needed to enter the country.

Visitors of most nationalities can enter Argentina for up to 90 days without a visa. Citizens from MERCOSUR member countries need only their national ID to enter the country. Note that Argentina no longer charges reciprocity fees to U.S., Canada or Australian citizens.

To find out whether you need a visa and how to apply, we recommend that you check with the Argentine Embassy or Consulate in your home country. You also can visit the Republic of Argentina Ministry of Foreign Affairs website, ([Argentina.gob.ar](http://Argentina.gob.ar)).

### Obtaining a Visa

If you are required to obtain a visa for entry into Argentina, it is your responsibility to apply for a passport, visa, or any other required documents and to demonstrate to consular officials that you are properly classifiable as a visitor under Argentine law. ICE Show Management cannot assist you with the interview process, nor can anyone representing the sponsoring organization call an embassy or consular on your behalf to provide support for granting a visa. Should your application be denied, Show Management cannot intervene in the process nor change the decision of the governmental agency.

You may request a visa letter by selecting the box either online or on the printed registration form. Invitation letters will be sent to those that are registered and fully paid. ICE Show Management supplies this letter for visa purposes only.

All expenses involved with attending the conference are the responsibility of the attending party. If your visa application is denied and AAPG receives a copy of the denial by email or fax +1 918 560 2684 before 31 August 2019 your registration fee will be refunded, less a \$75 processing fee.

### Visa Processing Service

If you are required to obtain a visa to enter Argentina and you are coming to present a paper or attend a technical conference, immigration authorities require you to obtain a business visa.

To issue a business visa, the government of Argentina requires a notarized letter of invitation issued by a company with a special registry in Argentina. BaOnline, AAPG's representative in Argentina, is a registered company and can provide the notarized letter to applicants.

If requested, BaOnline will issue the invitation, take it to the notary in Argentina to have it stamped and send the it to the Argentine consulate in the applicant's home country. Because the process involves time, processing, and international postage, BaOnline charges US \$200 for the service. The fee is paid by the applicant.

To request the visa processing service, please contact Florencia Coletto ([fcoletto@uniline.com.ar](mailto:fcoletto@uniline.com.ar)).

### Tourist Visas

The Argentine Migration Office enforces the Electronic Travel Authorization (eTA) for citizens of countries that require a tourist visa in the Argentine Republic. The eTA form can be completed online with no letter required.

The eTA covers tourists who currently hold valid visas, B2 visas issued by the United States of America, or category C visas issued by one of the States of the European Union. Note that the eTA covers individuals entering Argentina for tourism, not for business purposes (which includes attending technical conferences.) For a list of countries covered by eTA, please visit (<http://www.migraciones.gov.ar/ave/index.htm>).



Please book your rooms at [ICEEvent.org](http://ICEEvent.org). AAPG has secured a room block at the Hilton Buenos Aires, the official hotel for the 2019 International Conference and Exhibition, to ensure safe and convenient accommodations for attendees. New hotel reservations must be booked with the Hilton by **10 August 2019**.

Hotel	Address & Phone	Single/Double	In-Room Dining	Parking	Guest Room Internet
Hilton Buenos Aires	Macacha Güemes 351, C1106 BKG, Buenos Aires, Argentina +54 11 4891-0000	Single US \$209 + 21% VAT Double US \$219 + 21% VAT	Yes	Complimentary	Complimentary

Set in the upscale Puerto Madero district, this modern hotel has a striking atrium and is only a 12-minute walk from the historic Plaza de Mayo square, and 3.1 km from the Museo de Arte Moderno de Buenos Aires.

Relaxed rooms have flat-screen TVs and Wi-Fi, plus minibridges and coffeemakers with some rooms providing city or river views.

The hotel offers a contemporary Argentinian restaurant, a chic wine bar, and a deli-style cafe. Other amenities include a rooftop pool, a fitness center, and a sauna.

- Check-In time: 15:00
- Check-Out time: 12:00
- Early and late checkout are available subject to availability and upon approval from the front desk.

Non-Argentine residents are exempt from the 21% VAT tax on hotel rooms. To be eligible for the exemption, guests must pay with a non-Argentine credit card or via wire transfer from a bank outside Argentina and present their passport and entry stamp during check-in.





# HOW TO REGISTER

	Registration Type	On or before 18 June Midnight EST	On or before 30 July Midnight EST	After 30 July Midnight EST
Full Four-Day Technical Program & Exhibition	Member*	US \$745	US \$845	US \$995
	Emeritus Member**	US \$375	US \$425	US \$500
	Join & Save	US \$745 + dues	US \$845 + dues	US \$995 + dues
	Nonmember	US \$870	US \$970	US \$1,120
	Student Member*	US \$50	US \$55	US \$65
	Student Nonmember	US \$65	US \$70	US \$85
	<b>Includes:</b> Access to the Opening Ceremony, The Global Executive Panel Session, all Special Sessions, the Icebreaker Reception, Oral and Poster Sessions, Refreshment Breaks, End-of-Day Receptions, and the Exhibition as well as access to the online digital abstract library.			
One-Day Technical Program & Exhibition (Select Day)	One-Day Member*	US \$350	US \$425	US \$525
	One-Day Nonmember	US \$485	US \$560	US \$660
	<b>Registration Day:</b> Wednesday, Thursday, or Friday			
<b>Includes:</b> Access to the Oral and Poster Sessions, Refreshment Breaks, End-of-Day Receptions, and Exhibition for the day you register as well as access to the online digital abstract library. You will need to purchase a one-day Tuesday Exhibition Pass in order to attend the Opening Ceremony and the Icebreaker Reception.				
One-Day Exhibition (Select Day)	One-Day Member*		US \$75	
	One-Day Nonmember		US \$75	
	<b>Registration Day:</b> Wednesday, Thursday, or Friday			
<b>Includes:</b> Access to the Refreshment Breaks, End-of-Day Receptions, and Exhibition for the day you register. You will need to purchase a one-day Tuesday Exhibition Pass in order to attend the Opening Ceremony and the Icebreaker Reception on Tuesday.				
Non-Conference Attendance	Short Course/Field Trip	US \$30 + cost of Short Course and/or Field trip		
	<b>Includes:</b> Access only to chosen Short Course or Field Trip for which you register. If you do not register for the conference and exhibition in addition to the Short Course or Field Trip, you will not receive access to any activities or events during the conference or exhibition.			

\*Member rates apply to members of the following societies:

\* AAGGP (Argentine Association of Geologists and Petroleum Geophysicists), AAPG (American Association of Petroleum Geologists), AASP (American Association of Stratigraphic Palynologists), AWG (Association for Women Geoscientists), CPC (Circum-Pacific Council for Energy & Minerals Resources, Inc.), CSPG (Canadian Society of Petroleum Geologists), GSA (Geological Society of America), IAMG (International Association for Mathematical Geosciences), NABG (National Association of Black Geoscientists), SEG (Society of Exploration Geophysicists), SEPM (Society for Sedimentary Geology), SIPES (Society of Independent Professional Earth Scientists), SPE (Society of Petroleum Engineers), SPWLA (Society of Petrophysicists and Well Log Analysts), TSOP (The Society for Organic Petrology).

\*\*Emeritus Members must be current members of one of the above associations with a minimum of 30 years and be 65 years old to qualify.

## Registration and Hotel Reservation Scam

Please note that ICE is the target of fraudulent websites pretending to offer registration and housing services for this year's event in Buenos Aires. All legitimate ICE communications and web pages carry the official ICE logo. The Pulse Network (TPN) is the only authorized registration company, and the Hilton Buenos Aires operates the only authentic ICE 2019 Housing. All ICE transactions can be securely handled through the official ICE website. If you have any questions or concerns, please contact us before purchasing registration or making a hotel reservation.

**On-Site**

On-Site Registration will be located on the Ground Floor (Foyer Sur) Hilton Buenos Aires.

**Registration Hours:**

Monday, 26 August .....	09:00–17:00
Tuesday, 27 August .....	09:00–19:00
Wednesday, 28 August .....	07:30–17:30
Thursday, 29 August .....	07:30–17:30
Friday, 30 August .....	07:30–12:30

**Online at ICEevent.org**

Online registration provides immediate knowledge of availability of events (short courses, field trips, luncheons etc.) as well if you are already registered for an event. If an event is not available, it will not appear on the screen or it will indicate “sold out.” Additional registration details and policies are also found on ICEevent.org.

**By Mail**

Mailing your registration will delay the process and events may sell out while your registration is in transit. To add an event after you have registered, please contact the ICE registration team. Submit only one copy of your registration form. Be cautious when submitting your registration or making changes to your current registration. Duplicate charges may occur if you send more than one copy of a registration form.

Download a registration form from the website at ICEevent.org and mail the form and payment to:

AAPG Customer Experience Center  
 1444 S. Boulder Ave.  
 Tulsa, OK 74119  
 United States

**By Telephone**

+1 781 688 8000  
 Monday–Friday, 08:00–17:00 (EST)

**Cancellations/Refunds**

- Cancellations can be made by following the instructions on your confirmation or contact the AAPG Registration Center/TPN by email (customerservice@tpni.com), telephone by **15 July**.
- Cancellations received on or before **15 July** will be fully refunded less a \$75 processing fee. Refunds will not be issued after **15 July** or for “no shows.” You may substitute one participant for another.
- Refunds for field trips and/or short courses can be made until **15 July**. No refunds for field trips and/or short courses can be made after this date.

**Payment**

Registrations cannot be processed unless full payment is received. Payment may be made by check, credit card or wire transfer. Cash payments are accepted onsite only.

**Check**

Make payable in US dollars to 2019 AAPG International Conference and Exhibition.

**Credit Cards**

American Express, Discover, Master Card and Visa are accepted.

**Wire Transfers**

Please email (customerservice@aapg.org) for information to pay by wire transfer. Please allow enough time for AAPG to receive notification of the Wire Transfer and ensure it is received on or before **26 August**. Please also ensure that your Wire Transfer references your name or registration confirmation number. If a wire transfer is not received by **26 August**, we cannot guarantee that it will be applied to your registration and you will be required to provide payment upon check in until your wire is received.

**Note:** Children under the age of 16 will not be allowed in the exhibition hall during setup or teardown. Children 13 and older will be allowed to attend the exhibition during regular exhibition hours if they are properly registered, wearing their badge and accompanied by an adult. During exhibition hours, children under the age of 13 will not be allowed into any activities with the exhibition hall unless they are young enough to be confined to a stroller, backpack or front pack.

## CODE OF CONDUCT

The American Association of Petroleum Geologists International Conference and Exhibition (ICE) is conducted for the benefit of its members and interested parties to advance the science of geology, promote technology, and facilitate networking and collaboration between professionals within the world’s geosciences community. AAPG values the participation of its members and guests and wants all ICE attendees to have an enjoyable and fulfilling experience. Accordingly, AAPG is dedicated to providing a harassment-free conference experience for everyone, regardless of gender, sexual orientation, disability, physical appearance, body size, race, or religion. We do not tolerate harassment of conference participants in any form. All attendees are expected to show respect and courtesy to other attendees throughout the conference and at all conference events, whether officially sponsored by AAPG or not.

If a participant engages in behavior that violates this code of conduct, AAPG reserves the right to take any action deemed appropriate, including warning the offender(s) or expelling the offender(s) from the conference with no refund.

AAPG’s complete ICE anti-harassment policy can be found at ICEevent.org.

If you have any questions or concerns please notify a badged AAPG Show Management staff member or call +1 800 898 2274.



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**AAPG ICE 2019**  
 International Conference & Exhibition

**AAPG**  
 27-30 August  
 Buenos Aires,  
 Argentina



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