

OFFICIAL PROGRAM

# ICE Barcelona

## AAPG | SEG

International Conference  
& Exhibition **2016**  
3-6 April • Barcelona, Spain

Centre de Convencions Internacional de Barcelona



Presented by:



**AAPG**  
Advancing the World of  
Petroleum Geosciences™



Society of Exploration Geophysicists  
*The international society of applied geophysics*

Supported by:



# Letter from the General Chair

It is my pleasure to welcome you to 2016 AAPG|SEG ICE 2016 in Barcelona, Spain. This event marks the second collaborative International Conference and Exhibition organized by AAPG and SEG.

AAPG and SEG have truly responded to their members, sponsors, and exhibitors to organize joint events. In this challenging environment, we must focus our efforts to serve our joint communities now more than ever.

We hope you will enjoy a very strong and diversified technical program that was carefully reviewed and selected by the technical committee, led by Malcolm Francis, with more focus on integrated topics, regional studies, and case histories. There will be 66 oral sessions and 25 poster sessions that will contain over 280 oral and poster presentations throughout the week.

I hope you are able to attend the Opening Ceremony of the 2016 ICE Barcelona Conference which will be attended by distinguished guests from the region, as well as the presidents of the societies. This event precedes the Icebreaker which gives you the opportunity to network and engage with your colleagues, partners, and customers and to plan your time on the exhibition floor.

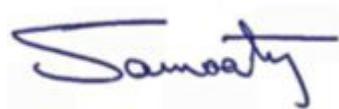
Fiona Macaulay organized the Plenary Session taking place Monday morning. The session will focus on the theme of the conference, "Collaboration in a Changing World." A very high profile list of panelists has been assembled for the lively panel discussion. The executives will share their view on business in this changing world.

The exhibition floor will feature the latest technologies and new products that you won't want to miss. You will see many exhibitors you know and also a few that might be new to you.

We thank the leadership of Repsol and the AGGEP for the support we received from their teams to produce this event along with the support of Total. The Organizing Committee, Technical Program Committee and SEG staff have all put in long hours to make this the best technical program and conference program. I hope you enjoy your week of education, networking and visiting the exhibitors on the floor.

Thanks for joining us in Barcelona!

Sincerely,



**Samir Abdelmoaty**

General Chair

ICE 2016 Organizing Committee

# Table of Contents

02	Letter from the General Chair	15	SEPM Short Course
04	Schedule of Events	16	Technical Program at a Glance
05	Sponsors and Media Partners	18–34	Technical Program - Oral Sessions
05	Organizing Committee	36–43	Technical Program - Poster Sessions
06	Orientation Tour	44	Field Trip
08–09	Event Highlights	46–49	Directory Listing
10	General Event Information	50	Exhibition Floor Map
11	Networking Opportunities	51	Exhibitor Products and Services
12–13	Women in Geosciences Forum		
14	Young Professionals and Students		



# ICE Barcelona Schedule of Events

## SATURDAY 2 APRIL

07:30–17:00	Registration
08:00–17:00	Pre-Conference Short Course Day 1 of 2-SEPM (Sequence Stratigraphy)

## SUNDAY 3 APRIL

07:30–20:00	Registration
08:00–17:00	Pre-Conference Short Course Day 2 of 2-SEPM (Sequence Stratigraphy)
09:00–12:00	City Orientation Tour
16:00–17:00	Young Professionals/Early Career Meet & Greet
17:00–18:00	Opening Ceremony
18:00–20:00	Exhibition and Icebreaker Reception

## MONDAY 4 APRIL

07:30–17:00	Registration
07:15–08:30	Speaker and Poster Presenter Breakfast
09:00–10:00	Plenary Session
10:00–18:30	Exhibition Open
10:20–11:00	Refreshment Break
10:55–12:20	Technical Sessions
13:55–17:20	Technical Sessions
14:00–17:20	Poster Sessions
15:20–16:00	Refreshment Break
17:30–18:30	End-of-Day Reception
17:30–19:00	Career-Planning Workshop (Mastering Public Speaking)
19:00–20:00	Student Reception

## TUESDAY 5 APRIL

07:30–17:00	Registration
08:55–12:20	Technical Sessions
10:00–18:30	Exhibition Open
10:20–11:00	Refreshment Break
11:00–12:20	Poster Sessions
12:15–13:30	Featured Speaker Luncheon
13:55–17:20	Technical Sessions
14:00–17:20	Poster Sessions
15:20–16:00	Refreshment Break
17:30–18:30	End-of-Day Reception
18:00–21:00	Women in Geosciences Forum

## WEDNESDAY 6 APRIL

07:30–14:30	Registration
08:55–12:20	Technical Sessions
10:00–14:30	Exhibition Open
10:20–11:00	Refreshment Break
11:00–12:20	Poster Sessions
12:00–13:30	Exhibitor-Sponsored Luncheon
13:55–17:20	Technical Sessions

## Onsite Registration Hours

### ENTRANCE HALLS 3 AND 4

Saturday, 2 April	07:30–17:00
Sunday, 3 April	07:30–20:00
Monday, 4 April	07:30–17:00
Tuesday, 5 April	07:30–17:00
Wednesday, 6 April	07:30–14:30

## Exhibit Hours

<b>SUNDAY, 3 APRIL</b>	18:00–20:00	Exhibition and Icebreaker Reception
<b>MONDAY, 4 APRIL</b>	10:00–18:30	Exhibition
	10:20–11:00	Refreshment Break
	15:20–16:00	Refreshment Break
	17:30–18:30	End-of-Day Reception
<b>TUESDAY, 5 APRIL</b>	10:00–18:30	Exhibition
	10:20–11:00	Refreshment Break
	15:20–16:00	Refreshment Break
	17:30–18:30	End-of-Day Reception
<b>WEDNESDAY, 6 APRIL</b>	10:00–14:30	Exhibition
	10:20–11:00	Refreshment Break
	12:00–13:30	Exhibitor-Sponsored Luncheon

# Sponsors

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## GOLD SPONSOR:



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Student Attendance and Travel/Accommodation Attendance  
Technical Sessions



Directional Signage

## MEDIA PARTNERS:



# Organizing Committee



General Chair  
**Samir Abdelmoaty**  
Beach Country Petroleum  
Manager, Egypt



Technical Program Co-Chair  
**Malcolm Francis**  
Schlumberger  
Exploration Services Manager



Technical Program Co-Chair  
**Fiona MacAulay**  
Rock Hopper Exploration  
Chief Operating Officer

# Orientation Tour

**DATE:** Sunday, 3 April  
**TIME:** 09:00–12:00  
**FEE:** Included in Guest Registration  
All others US \$80 + 21% VAT  
**INCLUDES:** Transportation and tour guide

*Prepare to be amazed and fall in love with the city of Barcelona!*

The Barcelona Orientation Tour will provide you with an overview of this vibrant and exciting city and all it has to offer. Highlights of the tour include the Montjuic (the Olympic Ring), Sagrada Familia (Church of the Holy Family), with additional points of interest including the Port, Placa de Catalunya, and Passeig de Gracia (with modernist houses and Block of Discord). Get a taste of the many sights to plan your week of enjoying the city of Barcelona. This tour will depart from the AC Barcelona Forum Hotel.



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# Event Highlights

## OPENING CEREMONY

**Date:** Sunday, 3 April  
**Time:** 17:00–18:00  
**Location:** 117, CCIB  
**Fee:** Included in registration

Join us as we kick off the 2016 ICE Barcelona event with the Opening Ceremony. Highlighting the beautiful city of Barcelona with local entertainment and talent, the ceremony will feature welcoming remarks from Dr. John Bradford, President of the Society of Exploration Geophysicists, Mr. John Hogg, President of the American Association of Petroleum Geologists, Mr. Jorge Navarro Comet, President of the Asociación de Geólogos y Geofísicos Españoles del Petróleo, and Mr. Samir Abdelmoaty, General Chair of ICE 2016.

## PLENARY SESSION

**Date:** Monday, 4 April  
**Time:** 9:00–10:00  
**Location:** 117, CCIB  
**Fee:** Included in registration

Collaboration in a Changing World will be the focus of the 2016 ICE Barcelona Plenary Session. A distinguished panel of speakers has been assembled, and a lively conversation is expected. Panelists will share their diverse views on the industry and how we need to collaborate and change to survive in this challenging environment.

## Distinguished Panel of Speakers



**Jonathan Craig**  
**ENI**

Since joining the oil industry in 1980, Jonathan Craig has worked on a wide variety of international exploration and development projects, initially as an exploration geologist for Shell, then as Chief Geologist for LASMO and, since 2000, successively as the Head of Prospect Validation, Head of Geology, Head of Strategic

Exploration Projects and Global Strategy Advisor for Eni.

He serves on numerous Oil & Gas Industry Advisory Boards, both in the U.K. and the U.S. and is the President of the European Region of the American Association of Petroleum Geologists. He also holds Honorary Professorships at University College London, the University of Durham and the University of Jammu in India.

Jonathan is currently Senior Vice President, Exploration Strategies and Professional Areas for Eni Upstream & Technical Services based in Milan, Italy where he has responsibility for Eni's global exploration strategy, for exploration excellence and for Eni's geoscience staff.



**Phil Andrews**  
**Getenergy Ltd.**

Phil Andrews is an entrepreneur whose career has been built on supporting the development of education and training in oil resource dependent economies. He is part of the team who founded Getenergy Ltd. in 2003 and has since grown the business into a number of exciting new ventures. Phil negotiated the sale of a majority stake

of the Getenergy Events business to Clarion and their Private Equity partners in 2015 securing a 300% return for his original investors. He has subsequently launched 'Field-Ready,' another Getenergy company which is piloting a new approach to unlocking the commercial potential in colleges, technical universities and polytechnics across Africa.

Phil is a respected advisor to governments, international and national oil and gas companies and the co-author of three best-selling 'Getenergy Guides' published by Elsevier.

## FEATURED SPEAKER LUNCHEON

**Date:** Tuesday, 5 April  
**Time:** 12:15–13:30  
**Location:** 211, CCIB  
**Fee:** US \$70 + 21% VAT

Join your colleagues for a themed luncheon and discussion on how companies need to change, adjust, and collaborate to weather the current industry conditions. The Featured Speaker will be Sherif Abadir of Schlumberger. Sherif started as a Schlumberger field engineer and worked in Egypt, Oman, UAE, Tunisia and Algeria. Regionally he was Operations Manager for Dowell Schlumberger in the Gulf Of Mexico, Louisiana, USA. He also led the Schlumberger Operations in Qatar, Algeria and Libya. He then became the Vice President of Europe/Africa for IPM (Integrated Project Management). Prior to his current job, he was the Marketing Vice President for IPM in charge of Business Development and Commercial Risk (from 2011 to 2015). Currently he is the Vice President of Marketing and Technology for Schlumberger Integrated Services focused on Strategic Planning and Integration Thought Leadership.



**Dr. Sherif Sousa**  
Ministry of Petroleum, Egypt

Dr. Sherif Sousa obtained a Fellowship Degree on Strategic Studies in National Security from Naser Higher Military Academy, Egypt in 2002, Ph.D. in Reservoir Geophysics, from Ain Shams University, Egypt in 1990, M.Sc. in Applied Geophysics, Ain Shams University, 1986 and B.Sc., in

Geophysics, University of Tanta, Egypt in 1979.

Sherif is currently the First Undersecretary for Gas Affair, Petroleum Ministry since July 2013. He was the chairman of Egyptian Natural Gas Holding Company (EGAS), 2012–2013, Chairman & Managing Director, Badr Petroleum Company, (Shell Oil Joint Venture), 2011–2012, General Petroleum Company (GPC), 2010–2011, Rashid Petroleum Company & Burullus Gas Company, (B.G Joint Venture Company), 2006–2010 and 2003–2004, Chairman, Egyptian Mineral Resources Authority, 2004–2006. Sherif also worked as Vice Chairman for Agreements and Exploration, EGAS, 2000–2003 and led the Algeria team of EGPC and EDISON in 2000 and several other companies like GSI, EGPC and EXLOG.



**Nathan Meehan**  
Baker Hughes

Dr. D. Nathan Meehan has 40 years of global experience in reservoir engineering, reserve estimation, hydraulic fracturing and horizontal well expertise. He serves as Senior Executive Advisor to Baker Hughes. Previously he was President of CMG Petroleum Consulting, Vice President of Engineering for Occidental Oil & Gas and General Manager E&P Services for Union Pacific Resources. Meehan is 2016 President of the Society of Petroleum Engineers (SPE). Dr. Meehan earned his BSc in Physics from the Georgia Institute of Technology, his MSc in Petroleum Engineering from the University of Oklahoma, and his PhD in Petroleum Engineering from Stanford University. Dr. Meehan previously served as Chairman of the Board of the CMG Reservoir Simulation Foundation and as a Director of the Computer Modelling Group, Ltd., Vanyoganeft Oil Company,

Pinnacle Technologies, Inc., the Society of Petroleum Engineers and JOA Oil & Gas BV. He is an SPE Distinguished Member and the recipient of the Lester C. Uren Award for Distinguished Achievement in Petroleum Engineering, the Degolyer Distinguished Service Medal and the SPE Public Service Award. He serves on the Board of the Georgia Institute of Technology's Strategic Energy Institute and the petroleum engineering advisory boards of the University of Texas, Penn State University and the University of Houston. He is an appointed member of the Interstate Oil & Gas Compact Commission and widely published author. Dr. Meehan is a licensed professional engineer in four states.



**Rebecca Wiles**  
BP

Rebecca Wiles was appointed Vice President of Unconventional Exploration for BP in 2015. She is accountable for BP's global unconventional exploration resource strategy and its implementation. She leads unconventional access, exploration and appraisal activity across a diverse portfolio and is a member of BP's

Exploration Function Leadership Team.

Rebecca graduated with a BSc. in Geochemistry. She joined BP in 1987 and has worked in a variety of technical and leadership roles predominantly in Exploration and Appraisal. In her previous role she led Resource Appraisal for BP and also managed BP's business in Norway 2009–13.

# General Event Information

## Electronic Capturing

Photography and video recording of any kind is strictly prohibited in the oral and poster sessions, luncheons, and throughout the exhibition.

## No-Smoking Policy

Smoking is prohibited inside the Convention Center.

## Spanish Value Added Tax

Spanish tax law requires AAPG|SEG to collect a 21 percent sales tax on all attendee registration fees, except for Spanish tax registered entities. Registrants will receive an official VAT receipt within weeks following their registration. If you do not receive your receipt in due time, please contact TaxPort at [cedric@taxport-international.com](mailto:cedric@taxport-international.com).

## Conference Registration Refunds

AAPG|SEG does not provide refunds requested after 23 February (midnight EST).

## Transportation Options

Barcelona has many options when it comes to transportation: Metro, taxis and buses. The Metro in Barcelona is clean, punctual, and air-conditioned, and it will take you to most of the major sights and attractions in the city. Taxis are an affordable alternative to public transportation. Official Barcelona taxis are yellow and black with a green light on top to indicate it is available. Buses are another clean and efficient alternative for getting around the city. You can find the schedule by visiting any tourist information center or looking online.

## City Tours

Get to know Barcelona by booking a trip on the Hop-On Hop-Off double-decker bus by Barcelona Bus Turistic. This is one of the most comfortable ways to visit the city with free Wi-Fi, audio commentary in 11 languages, and a small travel guide provided on the tour. The buses stop at most of the main attractions, and you can get on and off at the 45 stops as you like based upon your interests. You may buy one-day (24.30€ per person) or two-day tickets (34.50€ per person). The buses begin at 09:00 daily. The last starting time for both routes is 20:00. For additional information and to purchase your tickets, visit [www.barcelonasmartmoving.com](http://www.barcelonasmartmoving.com).

## Name Badges and Tickets

Registrants must wear his/her official AAPG|SEG ICE 2016 name badge for admission. Information on your badge will appear as it is completed on your registration form. To ensure accuracy, please print clearly. To retrieve your badge onsite, please visit the registration desk.

Badges are nontransferable and are subject to a nonrefundable reprint fee. Badge swapping or badge sharing is strictly prohibited.

## Policy on Children

Childcare will not be provided at the 2016 AAPG|SEG International Conference and Exhibition. Children under the age of 16 will not be allowed in the Exhibition Hall during setup or tear down. Children 13 years or older will be allowed to attend the exhibition during regular exhibition hours, however, they must be registered for the event. Children under the age of 13 will not be allowed into any activities unless they are young enough to be confined to a stroller, backpack, or front carrier.

## Book Mart

Visit the ICE Book Mart to browse the latest publications from SEG and AAPG. From the latest releases to perennial classics, the titles on display will include the new go-to reference on engineering seismology by Öz Yilmaz and the newest release in the petrography series by Dana and Peter Scholle. Receive an attendee discount code, printed on a bookmark, valid on purchases 3–30 April. Order online from [seg.org/bookmart](http://seg.org/bookmart) and [store.aapg.org](http://store.aapg.org), save 15%, and have the books shipped to your preferred location.

# Networking Opportunities

## EXHIBITION AND ICEBREAKER RECEPTION

**DATE:** Sunday, 3 April  
**TIME:** 18:00–20:00  
**LOCATION:** Exhibition Area 3&4, CCIB  
**FEE:** Included in registration

Come celebrate the opening of ICE Barcelona by attending the Icebreaker Reception. Enjoy hors d'oeuvres and beverages while visiting our exhibitors displaying the latest technologies and services offered.

## REFRESHMENT BREAKS

**DATE:** Monday, 4 April–Wednesday, 6 April  
**TIME:** 10:20–11:00 (Monday, Tuesday, & Wednesday)  
15:20–16:00 (Monday & Tuesday)  
**LOCATION:** Exhibition Area 3&4, CCIB  
**FEE:** Included in registration

Take a break from the Technical Sessions and visit the exhibitors while enjoying complimentary refreshments. This is a great opportunity to see more of the Exhibition Hall.

## END-OF-DAY RECEPTIONS

**DATE:** Monday, 4 April–Tuesday, 5 April  
**TIME:** 17:30–18:30  
**LOCATION:** Exhibition Area 3&4, CCIB  
**FEE:** Included in registration

Network and visit with exhibitors and colleagues on the exhibit floor. This is a great time to discuss the day's technical program with your peers. This is a fun and festive atmosphere to end your day with some beverages and light snacks before heading out to explore Barcelona.

## EXHIBITOR-SPONSORED LUNCHEON

**DATE:** Wednesday, 6 April  
**TIME:** 12:00–13:30  
**LOCATION:** Exhibition Area 3&4, CCIB  
**Fee:** Included in registration

This luncheon offers the opportunity for attendees to have lunch on the exhibit floor and visit the exhibitors. It is complimentary to registered delegates. ICE is well-known in the industry for bringing together service providers who deliver innovative products and technologies that support the oil and gas industry. Don't miss this opportunity to have lunch with the exhibitors.



# Women in Geosciences Forum

In association with the SEG Women's Networking Committee and the AAPG PROWESS Committee.

<b>DATE:</b>	<b>Tuesday, 5 April</b>
<b>TIME:</b>	<b>18:00–21:00</b>
<b>LOCATION:</b>	<b>212, CCIB</b>
<b>FEE:</b>	<b>US \$50 + 21% VAT</b>
<b>INCLUDES:</b>	<b>Cocktails and hors d' oeuvres</b>
<b>LIMIT:</b>	<b>100 people</b>

Join us for this engaging panel discussion followed by a Q&A session. Get connected with professionals in support of women in the geosciences. Are you just starting your career in geoscience? Have you been in the industry for a few years? This event is for you! Network and gather career tips from geoscientists working in major oil companies, service companies, research facilities, small independent companies, and self-employed specialists. This is a great opportunity to network with colleagues that share your interest of women in the geosciences.

## THE ROCKY ROAD TO SUCCESS: WOMEN BEYOND GEOSCIENCES

A panel for ICE organized by SEG and AAPG

The road to success is not an easy one, and for women in geosciences, it can be one with great obstacles. As an increasing number of women join the geo-related sectors of the oil and gas industry, seismology, mining, non-conventional energy, volcanology, civil engineering, environmental sciences, and academia, they not only face the usual hurdles of being a minority in male-dominated environments, but also deal with remote locations and work-related facilities that are not always upgraded.

In Geosciences, work requires laboratory and field exposure – from geophysical survey supervision, oil rigs surveillance, and rock and fluid sampling in the oil fields to offshore platform coring and rock sampling in mountain outcrops or mines – where women face the typical hurdles that being a minority conveys. Not always do laboratories and field facilities properly accommodate the growing component of the female workforce. As an example, simple field-related facilities such as separate bathrooms or prayer rooms for women workers are not available in oil fields gathering centers and refineries of several countries of the Middle East, where professional women have been an integral part of the workforce of their National Oil Companies for more than 35 years. The workplace is slowly fixing these issues, and only when gaps and hurdles are fully acknowledged.

Although there is a growing trend of women choosing to study careers related to geosciences, especially in regions like the Arabian Gulf and Latin America – where women students are a clear majority of up to 60% – the reality is that women are still a minority in the geosciences-related workforce, with disparities most evident at managerial levels. This factor shapes a difficult work environment, where the contributions of talented young and experienced female workers are minimized by established workflows that do not enable diversity of thought and practice in decision-making processes and research, scientific or engineering enhancement. This translates immediately in the lack of women in leadership roles in geosciences. As one relevant example of this matter, the mining industry, that heavily employs geoscience professionals, has the lowest number of women on company boards of any industry of any sector, worldwide.

Modern organizations recognize the need for a more diverse workforce, and when they are willing to foster a work environment where diversity is an enriching factor, their top questions remain how to attract, retain and promote women at all levels of the workplace.

Our Panel will address how top-notch women geoscientists in the oil industry, academia and other sectors have overcome these obstacles, by sharing their stories of tenacity, resilience and even courage to succeed in the professional ladders of their respective workplaces. An open session of questions and answers at the end will allow the audience to directly interact with the panelists, enhancing the session.

# Distinguished Panel of Speakers

## **Consuelo Garcia Mojonero G&G Manager, Repsol**

Consuelo Garcia Mojonero earned a B.S. in Geophysics from the Universidad Complutense de Madrid and joined Repsol E&P in 1993. Her main responsibilities before 2010 have been seismic interpretation, well tie, mapping, attribute analysis (including AVO and Inversion), depth conversion, prospectivity analysis, risking and reserves assessment for Repsol in strategic areas around the world. From 2010, she has been the G&G Services manager, leading short- and long-term projects for Exploration, New Ventures (including Middle East), Business Units (Spain, Algeria and Brazil) and Business Development (USA and Canada projects). From 2015, she has been the Basin Studies manager, with the same former tasks and helping the Geology and Geophysics Divisions with senior and new professionals recruitment, internal training, and mentoring.



## **Núria Fatjó de Martin Geophysicist, CEPSA**

Núria Fatjó is an exploration geophysicist with the New Ventures Team at CEPSA E&P. Núria has broad experience in new opportunities, acquisitions, and exploration in several regions: Peru, Colombia, East Africa, Egypt and Thailand. From 2013 to 2015, she participated in the creation of the EAGE Women in Geoscience and Engineering Special Interest Community (WGESIC) as Social Media Co-chair. She holds a Master Degree in Geophysics from the IFP School (Institut Français du Pétrole) of Paris and a Master Degree in Geological Engineering from the University of Barcelona (UB) and Polytechnic University of Catalonia (UPC). While at UB-UPC, she focused her main research on the 3D reconstruction of the Ainsa Basin from subsurface and outcrop information within the Geomodels Group. Núria holds additional industry experience in France and Spain, where she did an internship as a geophysicist at Total and Repsol, respectively.



## **Ameera Al-Mustafa Senior Consultant Geophysicist**

Born and raised in the Eastern Province of Saudi Arabia, Ameera joined Saudi Aramco in 1981. Obtaining a Bachelor's Degree in Physics from King Abdulaziz University was the first step in her journey of a successful and fulfilling career. Upon graduation, she assumed the role of not only a geophysicist in the Seismic Data Processing department but also of a mother. A leader in the office and a leader at home, Ameera raised and inspired two kids: Heba and Mohammed who are now on their own journey of excellence as a pediatrician and a soon to-be chemical engineer. Meeting the nonstop and increasing challenges led her to accumulate and utilize all the experience acquired throughout the years in the ultimate quest of discovering hydrocarbons with the Eastern Area Exploration Department. She met this challenge and today she can proudly say that she discovered As Sayd field in Northern Saudi Arabia. Now, Ameera continues to lead the efforts in the Summan Area to discover hydrocarbon resources for future generations.



## **Maria Angela Capello Executive Advisor, Kuwait Oil Company**

Maria is an experienced consultant for the oil and gas industry, expert in field development and monitoring strategies, instrumental in launching innovative implementations in Latin America, USA and the Middle East. She currently works as an executive advisor in Kuwait Oil Company (KOC), for the Greater Burgan Asset, in the planning and strategic initiatives of the Directorate. She formerly worked for Halliburton and PDVSA. A physicist from the Simon Bolivar University (Venezuela), with a MS in Geophysics from the Colorado School of Mines (USA), Maria volunteers extensively for professional societies, and was Vice-President of SEG in 2005. She has received the SEG Life Membership Award and the SPE Distinguished Member and Regional Service Awards due to her exceptionally meritorious service and notable career in the oil industry.



## **María Luisa Arbolea Geology Department, Universitat Autònoma de Barcelona**

María Luisa Arbolea is professor of Geodynamics at the Geology Department of the Universitat Autònoma de Barcelona (Spain). She was born in Asturias where coal mining had an important role in the economy of the region. To study geology might seem commonplace, but when she started college in 1969, she was the only woman among 28 students. She developed her career in academia and obtained a professorship in 1999 to become the first woman to gain a Professorship in Geodynamics in Spain. The move to Barcelona coincided with the birth of her daughter. Reconciling child care with full-time work at the university was not easy, and neither was organizing fieldwork or getting to direct a research project.



*Women in Geosciences*

# Young Professionals and Students

## Emerging and early-career professionals with less than eight years in the industry

### YOUNG PROFESSIONALS MEET & GREET

- DATE:** Sunday, 3 April  
**TIME:** 16:00–17:00  
**LOCATION:** VIP Area, CCIB  
**FEE:** Complimentary. Please select event during registration to attend.

The Young Professionals Meet & Greet event includes time for open networking over light refreshments and a chat with an SEG guest speaker about topics of relevance to industry trends. This event serves as the platform for SEG's emerging professionals (those with less than eight years in the industry) to learn from one another while forming lasting business connections and expanding their network.

### CAREER-PLANNING WORKSHOP

- TOPIC:** Mastering Public Speaking  
**DATE:** Monday, 4 April  
**TIME:** 17:30–19:00  
**LOCATION:** 134, CCIB  
**FEE:** US \$10 + 21% VAT

Talking in a team meeting, presenting in front of an audience or convincing others to help you with work: all these are forms of everyday public speaking. For a lot of people, however, speaking in public is scarier than skydiving, confronting a wild animal or even dying! If that seems familiar, SEG's wildly successful "mastering public speaking" is your answer! Come join us for a fast-paced, cutting edge, interactive session where you'll learn and practice the 10 best-kept secrets of successful, engaging public speaking. Learn how to get your message across, get positive results, overcome your nervousness and perform exceptionally well! Workshop space limited to 25 only.

### STUDENT RECEPTION

- DATE:** Monday, 4 April  
**TIME:** 19:00–20:00  
**LOCATION:** 211, CCIB  
**FEE:** Complimentary. Please select event during registration to attend.

Is your introduction ready to roll? There is no better place to deliver that elevator pitch than at the Student Reception. Whether it's to expand your knowledge of the industry, to present your ideas to future employers or to network with peers, you can find it all at the Student Reception! There will be no formal programming for this event in order to maximize networking time. This event is limited to students, faculty advisors, and company sponsors. Hosted bar and complimentary light refreshments will be served.

# Short Course

## PRE-CONFERENCE SHORT COURSE:

SOCIETY FOR SEDIMENTARY GEOLOGY (SEPM)

## ADVANCED SEQUENCE STRATIGRAPHIC APPLICATIONS FOR EXPLORATION

<b>DATE:</b>	Saturday-Sunday, 2-3 April
<b>TIME:</b>	08:00–17:00
<b>LOCATION:</b>	127/128, CCIB
<b>INSTRUCTOR:</b>	Vitor Abreu
<b>FEE:</b>	\$650
<b>INCLUDES:</b>	Course materials & refreshments
<b>LIMIT:</b>	25 people

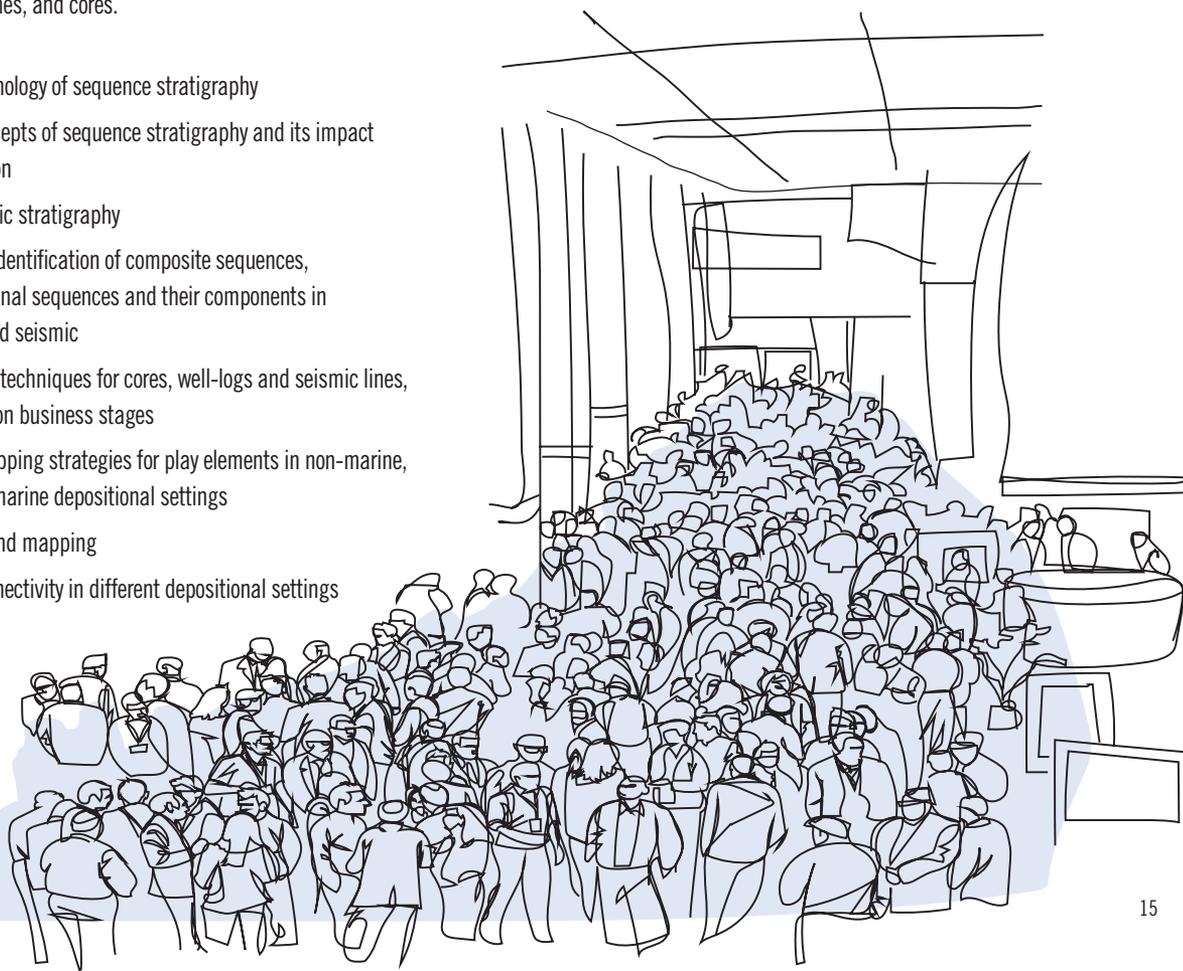
**WHO SHOULD ATTEND:** Geologists and geophysicists with basic understanding of sequence stratigraphy that want to apply the method in exploration and production.

### SUMMARY:

Sequence stratigraphy is a methodology for petroleum geoscientists to interpret the geologic record, through integration of cores, well logs, and seismic lines (2D and 3D). This course is designed to provide geoscientists with more advanced methods in sequence stratigraphy to recognize, interpret, and map the key play elements of the petroleum system (reservoir, seal, and source rock). The course will cover problems of predicting play element presence, distribution, and quality from business scales ranging from exploration to production. At exploration scale, the course will focus on the recognition criteria for play element distribution and stratigraphic trapping styles. Participants will use the sequence stratigraphic method to identify critical play elements through integration of core, well logs, and seismic lines in depositional settings ranging from shelf to deep water. At development and production stages, the emphasis is on mapping strategies at the reservoir scale. Participants will learn methods for recognition and mapping of connectivity pathways, baffles, and barriers through the integration of production data with well logs, high resolution seismic lines, and cores.

### COURSE OUTLINE:

- Refresh concepts and terminology of sequence stratigraphy
- Explore more advanced concepts of sequence stratigraphy and its impact on exploration and production
- Advanced methods in seismic stratigraphy
- Recognition criteria for the identification of composite sequences, sequence sets and depositional sequences and their components in outcrops, cores, well logs and seismic
- Interpretation and mapping techniques for cores, well-logs and seismic lines, from exploration to production business stages
- Recognition criteria and mapping strategies for play elements in non-marine, shallow-marine, and deep-marine depositional settings
- Play fairway identification and mapping
- Reservoir geometry and connectivity in different depositional settings



# Technical Program at a Glance

SESSION TITLE (subject to change)	TYPE	DAY	TIME	LOCATION	SESSION TITLE (subject to change)	TYPE	DAY	TIME	LOCATION
Analogues and Structural Models	ORAL	Monday	AM	Room 111	Depositional Systems and Reservoir Characterization	POSTER	Tuesday	PM	Exhibition Hall
Carbonate and Evaporite Reservoirs 1	ORAL	Monday	AM	Room 129/130	Miscellaneous Applied Near Surface Methods	POSTER	Tuesday	PM	Exhibition Hall
Geochemistry and Lithofacies	ORAL	Monday	AM	Room 118/119	Regional Tectonics and Basin Evolution	POSTER	Tuesday	PM	Exhibition Hall
Geohazards	ORAL	Monday	AM	Room 122/123	Reservoir Characterization 1	POSTER	Tuesday	PM	Exhibition Hall
Reservoir Characterization 1	ORAL	Monday	AM	Room 113	Reservoir Characterization 2	POSTER	Tuesday	PM	Exhibition Hall
Seismic Acquisition and Processing	ORAL	Monday	AM	Room 120/121	Seismic Interpretation	POSTER	Tuesday	PM	Exhibition Hall
Carbonate and Evaporite Reservoirs 2	ORAL	Monday	PM	Room 129/130	EM Exploration: CSEM	ORAL	Wednesday	AM	Room 129/130
Carbonate and Evaporite Reservoirs 3	ORAL	Monday	PM	Room 129/130	EM Exploration: MT and Joint Methods	ORAL	Wednesday	AM	Room 129/130
Depositional History	ORAL	Monday	PM	Room 118/119	Exploration Geochemistry	ORAL	Wednesday	AM	Room 122/123
Full Waveform Inversion and Anisotropy	ORAL	Monday	PM	Room 120/121	Fracture Reservoirs and Seismic Characterization	ORAL	Wednesday	AM	Room 118/119
Hydrocarbon Plays and Potential	ORAL	Monday	PM	Room 122/123	Geochemistry Analysis in Unconventional Reservoirs	ORAL	Wednesday	AM	Room 122/123
Hydrocarbon Traps	ORAL	Monday	PM	Room 122/123	Micro Seismic	ORAL	Wednesday	AM	Room 118/119
Regional Tectonics and Basin Evolution 1	ORAL	Monday	PM	Room 111	Petroleum Systems Case Studies	ORAL	Wednesday	AM	Room 113
Regional Tectonics and Basin Evolution 2	ORAL	Monday	PM	Room 111	Petroleum Systems Elements	ORAL	Wednesday	AM	Room 113
Reservoir Characterization 2	ORAL	Monday	PM	Room 113	Salt Tectonics	ORAL	Wednesday	AM	Room 111
Reservoir Characterization 3	ORAL	Monday	PM	Room 113	Sedimentology 1	ORAL	Wednesday	AM	Room 111
Seismic Data Processing and Imaging	ORAL	Monday	PM	Room 120/121	Seismic Modeling 1	ORAL	Wednesday	AM	Room 120/121
Tectonic and Depositional Modeling	ORAL	Monday	PM	Room 118/119	Seismic Modeling 2	ORAL	Wednesday	AM	Room 120/121
Anisotropy and Full Waveform Inversion	POSTER	Monday	PM	Exhibition Hall	Geohazards	POSTER	Wednesday	AM	Exhibition Hall
Asia Petroleum Systems	POSTER	Monday	PM	Exhibition Hall	Hydrology and Hydrogeophysics	POSTER	Wednesday	AM	Exhibition Hall
Basin Modeling and Analysis	POSTER	Monday	PM	Exhibition Hall	Miscellaneous	POSTER	Wednesday	AM	Exhibition Hall
Fracture Reservoirs and Seismic Characterization	POSTER	Monday	PM	Exhibition Hall	Sedimentology	POSTER	Wednesday	AM	Exhibition Hall
Non Clastic Reservoir	POSTER	Monday	PM	Exhibition Hall	AVO Inversion and Interpretation	ORAL	Wednesday	PM	Room 120/121
Processing and Inversion	POSTER	Monday	PM	Exhibition Hall	Carbon Sequestration and Monitoring	ORAL	Wednesday	PM	Room 129/130
Seismic Acquisition and Processing	POSTER	Monday	PM	Exhibition Hall	Gravity and Magnetics	ORAL	Wednesday	PM	Room 122/123
Unconventional Resources	POSTER	Monday	PM	Exhibition Hall	HPC Geophysical Exploration	ORAL	Wednesday	PM	Room 118/119
Applications of Seismic Attributes	ORAL	Tuesday	AM	Room 120/121	Innovation	ORAL	Wednesday	PM	Room 122/123
Basin Modeling and Analysis 1	ORAL	Tuesday	AM	Room 111	Inversion	ORAL	Wednesday	PM	Room 118/119
Basin Modeling and Analysis 2	ORAL	Tuesday	AM	Room 111	Petroleum Systems Integrated with Structure Geology	ORAL	Wednesday	PM	Room 113
History of Petroleum Geosciences 1	ORAL	Tuesday	AM	Room 122/123	Petroleum Systems Models	ORAL	Wednesday	PM	Room 113
Seismic Interpretation Case Studies	ORAL	Tuesday	AM	120/121	Sedimentology 2	ORAL	Wednesday	PM	Room 111
Mediterranean Tectonics/Structures & Basin Evolution	ORAL	Tuesday	AM	Room 122/123	Seismic Velocity Estimation and Time Lapse	ORAL	Wednesday	PM	Room 120/121
Petrophysics 1	ORAL	Tuesday	AM	Room 129/130	Stratigraphy and Biostratigraphy	ORAL	Wednesday	PM	Room 111
Petrophysics 2	ORAL	Tuesday	AM	Room 129/130	Usage of Geochemistry to Calibrate the Geological Model	ORAL	Wednesday	PM	Room 122/123
Reservoir Characterization 4	ORAL	Tuesday	AM	Room 113					
Reservoir Characterization 5	ORAL	Tuesday	AM	Room 113					
Rock Physics	ORAL	Tuesday	AM	Room 118/119					
Shale Reservoirs-Analog Field Studies	ORAL	Tuesday	AM	Room 118/119					
Geochemistry Characterization of Source Rock	POSTER	Tuesday	AM	Exhibition Hall					
Sequence Stratigraphy and Sedimentology	POSTER	Tuesday	AM	Exhibition Hall					
Stratigraphy, Biostratigraphy, and Applied Paleontology	POSTER	Tuesday	AM	Exhibition Hall					
Basin Modeling and Analysis 3	ORAL	Tuesday	PM	Room 111					
Basin Modeling and Analysis 4	ORAL	Tuesday	PM	Room 111					
History of Petroleum Geosciences 2	ORAL	Tuesday	PM	Room 122/123					
Innovative Interpretation Approaches	ORAL	Tuesday	PM	Room 120/121					
Non Clastic Reservoir	ORAL	Tuesday	PM	Room 129/130					
Overpressure and Pore Pressure Prediction	ORAL	Tuesday	PM	Room 122/123					
Petrophysics 3	ORAL	Tuesday	PM	Room 129/130					
Reservoir Characterization 6	ORAL	Tuesday	PM	Room 113					
Reservoir in a Stratigraphic Context	ORAL	Tuesday	PM	Room 113					
Seismic Inversion Methods and Case Studies	ORAL	Tuesday	PM	Room 120/121					
Tight Oil and Gas	ORAL	Tuesday	PM	Room 118/119					
Unconventional Resources Petrophysics	ORAL	Tuesday	PM	Room 118/119					
Applied GPR Method	POSTER	Tuesday	PM	Exhibition Hall					
AVO and Seismic Inversion	POSTER	Tuesday	PM	Exhibition Hall					



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# Technical Program

## Oral Sessions

### Monday Mid-Morning Oral Sessions

#### Analogues and Structural Models

*Session Chair(s): Ahmed Abdel Aal and Ramadan Ghalayini*

*Room: 111*

- 1100 ..... **Withdrawn**
- 1120 ..... **Structural link between cover units and an oblique strike-slip basement fault; insights from modeling of the shah structure, UAE**  
Hemin Koyi, and Daniel Morad, Uppsala University; Manhal Sirat, Abu Dhabi Company for Onshore Petroleum Operations (INT. AUD.: 4)  
Speaker: Hemin Koyi
- 1140 ..... **Prediction of fracture networks in structural traps: Insights from outcrop characterisation of four-way closing anticlines in reservoir analogues**  
Richard Jones, Geospatial Research Ltd; Sotirios Kokkalas, The Petroleum Institute, Abu Dhabi; Jonathan Long, and Susie Daniels, Geospatial Research Ltd. (INT. AUD.: 4)  
Speaker: Richard Jones
- 1200 ..... **Geometry and kinematics of thrust belts above a viscous detachment: Implications to hydrocarbon exploration from new modelling experiments**  
Carlos Ruela Nogueira, Instituto Dom Luiz, University of Lisbon; Fernando Ornelas Marques, Faculty of Sciences, University of Lisbon (INT. AUD.: NA)  
Speaker: Carlos Ruela Nogueira

#### Carbonate and Evaporite Reservoirs 1

*Session Chair(s): Fiona Macaulay*

*Rooms: 129/130*

- 1100 ..... **Withdrawn**
- 1120 ..... **Withdrawn**
- 1140 ..... **The palaeo-bathymetry of base Aptian salt deposition and the composition of underlying basement on the northern Angolan rifted margin**  
Leanne Cowie, Nick Kusznir, and Ricardo Angelo, University of Liverpool; Gianreto Manatschal, Universite de Strasbourg; Brian Horn, ION (INT. AUD.: 3)  
Speaker: Nick Kusznir
- 1200 ..... **Opportunities and challenges of the deep Kimmeridgian — Tithonian age evaporates in the light of unconventional reservoir appraisal: Kuwait case study**  
Vijaya Kumar Kidambi, Kuwait Oil Company; Chinmaya Pattnaik, Srinivasa Rao Narhari, and Qasem Dashti, Kuwait Oil Company (INT. AUD.: NA)  
Speaker: Vijaya Kumar Kidambi

#### Geochemistry and Lithofacies

*Session Chair(s): Ahmed El-Barkooky*

*Rooms: 118/119*

- 1100 ..... **Depositional model, sequence stratigraphy, diagenesis and geochemistry of the Sefid-Kuh formation (late Scythian) in Aghdarband tectonic window, NE of Iran**  
Mohsen Liaghat, and Mohammad Hossein Adabi, Shahid Beheshti University (INT. AUD.: NA)  
Speaker: Mohammad Hossein Adabi
- 1120 ..... **Lithofacies attributes and depositional system of the late carboniferous-early Permian Haushi group, Oman interior basin, sultanate of Oman**  
Iftikhar Ahmed Abbasi, Sultan Qaboos University, Oman; Faisal Al Abri, Daleel LLC (INT. AUD.: 3)  
Speaker: Iftikhar Ahmed Abbasi
- 1140 ..... **Hierarchical organization of strata within a high-frequency Milankovitch-scale fluvial sequence, cretaceous Ferron Notom delta, south central Utah, USA**  
Oyebode Famubode, ConocoPhillips; Janok Bhattacharya, McMaster University (INT. AUD.: 3)  
Speaker: Oyebode Famubode
- 1200 ..... **Characteristics of tidal-littoral sedimentary system and distribution of favorable reservoir of Silurian in northern Tarim basin**  
Ge Chen, PetroChina Hangzhou Research Institute of Geology (INT. AUD.: 5)  
Speaker: Ge Chen

#### Geohazards

*Session Chair(s): Marian Popescu*

*Rooms: 122/123*

- 1100 ..... **Withdrawn**
- 1120 ..... **Seismic monitoring of the drilling of an exploratory well off the east coast of the Canary Islands**  
Antonio Villasenor, Arantza Ugalde, Beatriz Gaité, Mario Ruiz, and Jorge Balsa, ICTJA-CSIC; César R. Ranero, and Valentí Sallarès, ICM-CSIC; Mimoun Harnafi, Institut Scientifique, Université Mohamed V (INT. AUD.: 1)  
Speaker: Antonio Villasenor
- 1140 ..... **Withdrawn**
- 1200 ..... **Foundation settlement determination: a simplified approach**  
Olusegun Adewoyin, Covenant University (INT. AUD.: NA)  
Speaker: Olusegun Adewoyin

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## Reservoir Characterization 1

*Session Chair(s): Laurie Whitesell*

*Room: 113*

- 1100..... **Facies modeling described by probabilistic patterns using Multi-point statistics an application to the k-field, Libya**  
Valeria Sisinni, Neil McDougall, Marcos Victoria Guarnido, and Yrma Valle, Repsol; Vanessa Villarreal Estaba, Schlumberger (INT. AUD.: 4)  
Speaker: Valeria Sisinni
- 1120..... **Integration of geology and geophysical data in reservoir characterisation – a case study of the k field**  
Zaizakrani Md Salleh, and Kwong Poh, Talisman Malaysia Limited (INT. AUD.: 5)  
Speaker: Zaizakrani Md Salleh
- 1140..... **Tight oil from transition zones in mature reservoirs**  
Byron Solarte, Linn Energy; Roger Slatt, University of Oklahoma (INT. AUD.: 3)  
Speaker: Byron Solarte
- 1200..... **Subsurface mapping of thin-sand reservoirs using seismic texture and narrow-band spectral analysis attributes over “x” oil field, offshore Niger delta**  
Sunday Olotu, Ibukun Olorunniwo, Adekunle Adepelumi, Olatunbosun Alao, Samuel Ojo, and Moses Olorunniwo, Obafemi Awolowo University; Bankole Ako, Federal University of Technology Akure (INT. AUD.: 4)  
Speaker: Sunday Olotu

## Seismic Acquisition and Processing

*Session Chair(s): Rujie Zhang and Keyvan Najafzadeh*

*Rooms: 120/121*

- 1100..... **Analysis of geotechnical parameters from geophysical information**  
Olusegun Adewoyin, Covenant University, Ota, Ogun State, Nigeria; E Joshua, University of Ibadan; M Akinyemi, Covenant University (INT. AUD.: NA)  
Speaker: Olusegun Adewoyin
- 1120..... **Ground roll noise attenuation using the analytical mode decomposition**  
Ahmed Zegadi, IAP/SOATRACH; Khalil-Kheir Eddine Zegadi, and Leila Naili Douaouda, PED/SOATRACH (INT. AUD.: 3)  
Speaker: Khalil-Kheir Eddine Zegadi
- 1140..... **Wavelet transform application in seismic discontinuity detection**  
Abdolah Kiani, Keyvan Najafzadeh, and Yahya Moradi Chaleshtori, Dana Geophysics Company (INT. AUD.: 6)  
Speaker: Abdolah Kiani
- 1200..... **Application of data reconstruction techniques based on compressive sensing in onshore acquisition**  
Jinglei Yang, Weibo Li, Mingli Jie, Jianpeng Yu, and Minjie Yu, BGP,CNPC (INT. AUD.: NA)  
Speaker: Jinglei Yang

## Monday Afternoon Oral Sessions

### Carbonate and Evaporite Reservoirs 2

*Session Chair(s): Mohamed Darwish*

*Rooms: 129/130*

- 1400..... **Main controlling factors and spatial distribution model of hydrocarbon accumulation in buried-hill weathering crust and bedded karstification carbonate reservoirs, Halahatang block, Tarim basin**  
Lisha Yang, Hongbin Wang, and Dong Sun, Research Institute Of Petroleum Exploration & Development-Northwest (NWGI), Petro (INT. AUD.: NA)  
Speaker: Lisha Yang
- 1420..... **Depositional setting and facies geometry of Lacustrine Coquina reservoirs: Examples from the west African margin**  
Hassan Hassan, Nicola Adams, and Ian Billing (INT. AUD.: 3)  
Speaker: Hassan Hassan
- 1440..... **Lessons learned from modeling a mature carbonate field. Rock typing and facies distribution of the Miocene Syn-rift oil bearing carbonate reservoirs, analogue for calibration for 3D static model building Zeit Bay field, Gulf of Suez, Egypt**  
Basem Tawfik, Mohamed Darwish, and Farouk Sayed, EREX; Khaled Hawa, SUCO; Mohamed Fares, Suco (INT. AUD.: 4)  
Speaker: Basem Tawfik
- 1500..... **Stylolite networks as a primary control on the geometry of massive diagenetic alterations in carbonates**  
Enrique Gomez-Rivas, University of Aberdeen; Juan Diego Martín-Martín, University of Barcelona; Paul Bons, University of Tübingen; Daniel Koehn, University of Glasgow (INT. AUD.: 3)  
Speaker: Enrique Gomez-Rivas

### Depositional History

*Session Chair(s): Mohamed Ebraheem*

*Rooms: 118/119*

- 1400..... **Withdrawn**
- 1420..... **Factors controlling the geomorphological evolution and depositional processes of a modern lacustrine turbidite channel-levee complex: The modern Rhone delta in lake Geneva**  
Juan Pablo Corella, Spanish National Research Council; Katrina Kremer, ETH; Jean Gerard, and Manuel González-Quijano, Repsol Exploración S.A; Stéphanie Giradclos, University of Geneva (INT. AUD.: 3)  
Speaker: Juan Pablo Corella
- 1440..... **Sequence stratigraphy and microfacies analysis of Tarbur formation in Brojen area, SW Iran**  
Mehrnoush Rafiei, University of Tehran (INT. AUD.: NA)  
Speaker: Mehrnoush Rafiei
- 1500..... **Evolution and economic implications for upper cretaceous sandstones: a new example from the inboard Gulf of Mexico**  
Tim Rynott, Ridge Resources LLC (INT. AUD.: 3)  
Speaker: Tim Rynott

# Technical Program

## Oral Sessions

### Hydrocarbon Plays and Potential

*Session Chair(s): Laurie Whitesell*

*Rooms: 122/123*

- 1400 ..... **New eyes on ultra-deep waters offshore Egypt**  
Simon Baer, PGS (INT. AUD.: 3)  
Speaker: Simon Baer
- 1420 ..... **Petroleum systems and exploration play fairways in the western Greece and southern Crete offshore**  
Veronique Carayon, Lucien Montadert, and Jonathan Allard, Beicip-Franlab; Oystein Lie, PGS; Sofia Stamataki, National Technical University of Athens; Spyridon Bellas, Hellenic Republic Ministry of Environment, Energy & Climate Change (INT. AUD.: 5)  
Speaker: Veronique Carayon
- 1440 ..... **Possible hydrocarbon plays in the south Adriatic basin and analogues with Ionian and Apulian geological provinces**  
Marin Matesic, Lilit Cota, and Josip Bubnic, INA Oil Company (INT. AUD.: 4)  
Speaker: Marin Matesic
- 1500 ..... **Post-Variscan thermal histories in Morocco: Implications for Mesozoic source-to-sink systems**  
Remi Charton, and Giovanni Bertotti, TU Delft (INT. AUD.: 2)  
Speaker: Remi Charton

### Regional Tectonics and Basin Evolution 1

*Session Chair(s): Ahmed Abdel Aal and Ramadan Ghalayini*

*Room: 111*

- 1400 ..... **Tectono-sedimentary evolution of the Porto basin (NW offshore Portugal): Implications for hydrocarbon exploration**  
João Casacão, University of Lisbon; Nuno Pimentel, Instituto D. Luiz, University of Lisbon; Rui Pena Dos Reis, Centro de Geociências, University of Coimbra ; Pedro Barreto, PARTEX Oil & Gas (INT. AUD.: NA)  
Speaker: João Casacão
- 1420 ..... **The Mesozoic structure of the central part of the south-Iberian passive margin and its influence in the Cenozoic contractional deformation: Comparison between the eastern Prebetic zone (Betic cordillera) and the Columbrets basin (southwest Valencia trough)**  
Frederic Oriol Escosa, Eduard Roca, Mireia Butillé, Maria Roma, and Oriol Ferrer, Geomodels Research Institute (INT. AUD.: 5)  
Speaker: Frederic Oriol Escosa
- 1440 ..... **The Morocco-Canaries Atlantic margin – a classic rifted margin or a more complex failed-breakup basin?**  
Alan Roberts, and Andrew Alvey, Badley Geoscience Ltd; John Fisher, and Dave Burnett, Genel Energy; Nick Kuszniir, University of Liverpool (INT. AUD.: 2)  
Speaker: Alan Roberts
- 1500 ..... **The tectonic evolution of two buried hill structures and their reservoir potential in Liaodong Bay**  
Chen Zhang, China University of Petroleum, Beijing (INT. AUD.: NA)  
Speaker: Chen Zhang

### Reservoir Characterization 2

*Session Chair(s): Manuel Gonzalez*

*Room: 113*

- 1400 ..... **Natural fractures Paragenetic stages of Najmah and Sargelu formations**  
Aimen Amer, Schlumberger; Hanan Salem, Meshal Al-Wadi, and Abdulaziz Ali, Kuwait Oil Company (INT. AUD.: NA)  
Speaker: Aimen Amer
- 1420 ..... **Geometrical characterization of fracture systems in rock mass by means of terrestrial laser scanner**  
David Garcia-Selles, University of Barcelona; Pablo Martinez Granado, Universitat de Barcelona; Oscar Gratacós, and Josep Anton Muñoz, Universitat De Barcelona (INT. AUD.: 4)  
Speaker: David Garcia-Selles
- 1440 ..... **Integration of geomechanics, stress field and reservoir production to predict dynamic fractures behavior for tight sandstone reservoir**  
Hui Gang, Research Institute of Petroleum Exploration and Development, PetroChina (INT. AUD.: 5)  
Speaker: Hui Gang
- 1500 ..... **High resolution diffraction imaging of small scale fractures in shale and carbonate reservoirs**  
Alexander Popovici, Ioan Sturzu, and Tijmen Jan Moser, Z-Terra Inc. (INT. AUD.: 3)  
Speaker: Alexander Popovici

### Seismic Data Processing and Imaging

*Session Chair(s): Maged Fahim*

*Rooms: 120/121*

- 1400 ..... **Exploration revival from multi-vintage diverse source dataset - Bay of Biscay**  
Howard Nicholls, Spectrum; Lauren Penn, and Neil Hodgson, Spectrum Geo; Roger Oldfield; Mike Saunders, and Milos Cvetkovic, Spectrum Geo Inc (INT. AUD.: 2)  
Speaker: Neil Hodgson
- 1420 ..... **Withdrawn**
- 1440 ..... **Quality enhancement of 3D seismic data using anisotropic diffusion method**  
Yahya Moradi Chaleshtori, Abdollah Kiani, and Keyvan Najafzadeh, Dana Geophysics Company (INT. AUD.: 6)  
Speaker: Yahya Moradi Chaleshtori
- 1500 ..... **A new analytical model for stencil-based seismic algorithms implementations on GPU**  
Dorfell Parra, William Salamanca, and Ana Ramirez, Universidad Industrial de Santander (INT. AUD.: 2)  
Speaker: Dorfell Parra

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## Monday Mid-Afternoon Oral Sessions

### Carbonate and Evaporite Reservoirs 3

*Session Chair(s): Mohamed Darwish*

*Rooms: 129/130*

- 1600 ..... **San Luis and Churuguara carbonates (onshore Venezuela): Analogs of the offshore Perla field?**  
Eduard Albert-Villanueva, Universitat de Barcelona; Mateu Esteban, Repsol Exploración S.A.; Lenin González, Universidad Central de Venezuela; Ramon Salas, Telm Bover-Arnal, and Carles Ferràndez-Cañadell, Universitat de Barcelona; José Fernández Carmona, Szalai Grup S.L. (INT. AUD.: 1)  
Speaker: Mateu Esteban
- 1620 ..... **Stratigraphic trap potential and reservoir distribution of the upper Shu'aiba reservoir based on newly acquired data in the underexplored eastern Rub' al-Khali basin, Saudi Arabia**  
Kenri Pomar, Saudi Aramco (INT. AUD.: 2)  
Speaker: Kenri Pomar
- 1640 ..... **Withdrawn**
- 1700 ..... **The seal capacity of direct cap rocks: Insights from rock mechanical properties**  
Fei Ning, Jinbiao Yun, Zhongpei Zhang, and Jianjiao Li, Exploration & Production Research Institute, SINOPEC (INT. AUD.: 3)  
Speaker: Fei Ning

### Full Waveform Inversion and Anisotropy

*Session Chair(s): Alexander Popovici*

*Rooms: 120/121*

- 1600 ..... **Analytic formulae for wave normal of P-waves in Ti and orthorhombic media**  
Qi Hao, and Alexey Stovas, Norwegian University of Science and Technology (INT. AUD.: 3)  
Speaker: Qi Hao
- 1620 ..... **3D elastic inversion in presence of smooth topography: Application to real data**  
Jean Kormann, Juan-Esteban Rodríguez, Josep De La Puente, Mauricio Hanzich, Jose Cela, and Miguel Ferrer, BSC-CNS; David Martí, Ignacio Marzan, and Ramon Carbonell, ICTJA (INT. AUD.: 2)  
Speaker: Jean Kormann
- 1640 ..... **Strategies to include geological knowledge in full waveform inversion**  
Siddharth Sharma, Dries Gisolf, Stefan Luthi and Runhai Feng, Delft University of Technology (INT. AUD.: NA)  
Speaker: Siddharth Sharma
- 1700 ..... **Withdrawn**

### Hydrocarbon Traps

*Session Chair(s): Elhamy Tarabees*

*Rooms: 122/123*

- 1600 ..... **Structural characteristics and giant gas field in ultra-deep layer of salt-bearing basin, Kuqa Foreland basin, NW China**  
Yong Li, and Yuan Neng, Tarim Oil Field Company CNPC (INT. AUD.: 5)  
Speaker: Yuan Neng
- 1620 ..... **Withdrawn**
- 1640 ..... **Natural fractures characterization and horizontal drilling of an oil-prone Devonian carbonate - birth of a new major play in eastern Canada**  
Jean-Sebastien Marcil, Junex (INT. AUD.: 4)  
Speaker: Jean-Sebastien Marcil
- 1700 ..... **Enhancing seismic data resolution by integrating seismic spectral blueing and reconvolution of thin bed reflectivity techniques: a new approach to resolve thin beds pay zones**  
Amir Babasafari, Hesam Kazemeini, and Farzaneh Bayati, Tehran Energy Consultants (INT. AUD.: 4)  
Speaker: Hesam Kazemeini

### Regional Tectonics and Basin Evolution 2

*Session Chair(s): Ahmed Abdel Aal and Ramadan Ghalayini*

*Room: 111*

- 1600 ..... **Withdrawn**
- 1620 ..... **Withdrawn**
- 1640 ..... **Tectono-stratigraphic evolution of the centaur 3D survey, Exmouth plateau, north west shelf, Australia**  
Sasha Gumprecht, Royal Holloway, Univ. of London (INT. AUD.: 1)  
Speaker: Sasha Gumprecht
- 1700 ..... **New model of the tectono-sedimentary evolution of the lower Paleozoic basin developed above the east European Craton in Poland and its bearing on the petroleum system**  
Piotr Krzywiec, and Mateusz Kufra, Polish Academy of Sciences; Kaja Pietsch, Jan Golonka, Michal Stefaniuk, and Tomasz Mackowski, AGH University of Science and Technology (INT. AUD.: 3)  
Speaker: Piotr Krzywiec

# Technical Program

## Oral Sessions

### Reservoir Characterization 3

*Session Chair(s): Sven Larsson and Manuel Gonzalez*

*Room: 113*

- 1600 ..... **Handling complex stratigraphic relationships using volume based modeling and stair-step grids.**  
Rosa Aguilar Sanchez-Dehesa, and Marcos Victoria Guarnido, Repsol; Carlos Nuñez Lema, and Vanessa Villarreal Estaba, Schlumberger (INT. AUD.: 4)  
Speaker: Rosa Aguilar Sanchez-Dehesa
- 1620 ..... **Quantitative simulation of sandstone porosity evolution accounting for compaction and unloading**  
Tingan Li, China University of Petroleum-Beijing (INT. AUD.: NA)  
Speaker: Tingan Li
- 1640 ..... **Withdrawn**
- 1700 ..... **Withdrawn**

### Tectonic and Depositional Modeling

*Session Chair(s): Gang Hui and Samuel Rivas Dorado*

*Rooms: 118/119*

- 1600 ..... **Tectonic and climatic controls on facies distribution in the Jurassic Walloon coal measures, Surat basin, Australia**  
Carmine Wainman, and Peter McCabe, University of Adelaide (INT. AUD.: 4)  
Speaker: Carmine Wainman
- 1620 ..... **Intrabasinal and extrabasinal turbidites: Origin and distinctive characteristics**  
Carlos Zavala, and Mariano Arcuri, GCS Argentina - UNS; Mariano Di Meglio, and Agustin Zorzano, GCS Argentina (INT. AUD.: 3)  
Speaker: Carlos Zavala
- 1640 ..... **Withdrawn**
- 1700 ..... **Withdrawn**

### Tuesday Morning Oral Sessions

#### Applications of Seismic Attributes

*Session Chair(s): Omosanya Kamal and Refaat Zaki*

*Rooms: 120/121*

- 0900 ..... **Application of seismic attributes in delineation of channel features in Rence field of Niger delta, Nigeria**  
Ifeanyi Chinwuko, Federal University Gusau, Zamfara State, Nigeria; Emmanuel Anakwuba, and Harold Okeke, Nnamdi Azikiwe University, Awka, Anambra State, Nigeria; Clement Onyekwelu, Sunlink Petroleum Limited, Nigeria (INT. AUD.: 5)  
Speaker: Ifeanyi Chinwuko
- 0920 ..... **New insights on the Cenozoic carbonates of northwest Australia from a high-definition seismic attribute workflow**  
Mohammad Almaghlouth, and Rebecca Bell, Imperial College; Peter Szafian, GeoTeric (INT. AUD.: NA)  
Speaker: Mohammad Almaghlouth
- 0940 ..... **Adapting and tuning edge detection seismic attribute calculations based on post-stack seismic characteristics**  
Ahmed Adnan Aqrabi, Schlumberger; David Barka, University of Stavanger (INT. AUD.: 3)  
Speaker: Ahmed Adnan Aqrabi
- 1000 ..... **3D seismic attribute expressions of deep offshore Niger delta**  
Uzonna Anyiam, Priyank Jaiswal, Jack Pashin, and Mohamed Abdelsalam, Oklahoma State University; Alexander Opara, Federal University of Technology Owerri; Ebuka Uzuegbu, Schlumberger (INT. AUD.: 5)  
Speaker: Uzonna Anyiam

#### Basin Modeling and Analysis 1

*Session Chair(s): Laurie Whitesell*

*Room: 111*

- 0900 ..... **Tectonic-sedimentary evolution and its significances for petroleum exploration in the west slope of Kaikang trough, Muglad basin**  
Bintao Chen, RIPED-NWGI, PetroChina (INT. AUD.: 3)  
Speaker: Bintao Chen
- 0920 ..... **Depocenters with potential preservation of pre-carboniferous rocks in NORTE basin (Uruguay)**  
Josefina Marmisolle; Gerardo Veroslavsky, Facultad de Ciencias, UDELAR; and Héctor De Santa Ana, ANCAP (INT. AUD.: 1)  
Speaker: Josefina Marmisolle
- 0940 ..... **3D petroleum systems modeling and fluid flow analysis in the great south basin (GSB), New Zealand**  
Piyaphong Chenrai, and Mads Huuse, The University of Manchester (INT. AUD.: 3)  
Speaker: Piyaphong Chenrai
- 1000 ..... **Basin modelling at the Songkhla basin (Gulf of Thailand) or: How many source rocks do I have?**  
Samuel Rivas Dorado, CEPSA E.P. S.A. (INT. AUD.: NA)  
Speaker: Samuel Rivas Dorado

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## Mediterranean Tectonics/Structures and Basin Evolution

*Session Chair(s): Ramadan Ghalayini and Ahmed Abdel Aal*

*Rooms: 122/123*

- 0900 ..... **Predicting reservoir intervals by looking at fault data: An exploration tool in frontier basins**  
Ramadan Ghalayini, UPMC-IFPEN; Jean-Marc Daniel, and Fadi Nader, IFPEN; Catherine Homberg, UPMC (INT. AUD.: 3)  
Speaker: Ramadan Ghalayini
- 0920 ..... **Seamount control during gravity-driven extension involving multi-layered evaporites**  
Oriol Ferrer, Eduard Roca, Oscar Gratacós, and Josep Anton Muñoz, University of Barcelona (INT. AUD.: 1)  
Speaker: Oriol Ferrer
- 0940 ..... **Withdrawn**
- 1000 ..... **Tectonic evolution of the prolific Levant basin and emerging pre-Pliocene giant gas and condensate plays, offshore Egypt**  
Ahmed Abdel Aal, Eleanor Rowley, and Hossam Salah, Dana Gas (INT. AUD.: 3)  
Speaker: Ahmed Abdel Aal

## Petrophysics 1

*Session Chair(s): Tarek Elkewidy and Mohamed Ebraheem*

*Rooms: 129/130*

- 0900 ..... **Absolute and relative permeabilities from well logs in tight reservoirs**  
Tarek Elkewidy, The American University in Cairo (INT. AUD.: 3)  
Speaker: Tarek Elkewidy
- 0920 ..... **A new reservoir classification based on pore types improves characterization – Part B**  
Jonathan Soto O., Texas A&M University; David Soto O., and Rodolfo Soto B., Digoil (INT. AUD.: 3)  
Speaker: David Soto O.
- 0940 ..... **A universal equation to calculate shale volume for shaly-sands and carbonate reservoirs** David Soto O., Digoil; Rodolfo Soto B., Oliver Pasquel, and Duarry Arteaga, SGF Global; Jonathan Soto O., Texas A&M University (INT. AUD.: 4)  
Speaker: Rodolfo Soto B.
- 1000 ..... **A new model to identify the pore types for oil based mud profile in complex carbonate reservoirs: Jurassic formation, Bellota field, Mexico**  
Rodolfo Soto B., and David Soto O., Digoil; Duarry Arteaga, and Oliver Pasquel, SGF Global (INT. AUD.: 4)  
Speaker: Rodolfo Soto B.

## Reservoir Characterization 4

*Session Chair(s): Brian O'Connell*

*Room: 113*

- 0900 ..... **Integrated reservoir modeling of the Deltaic reservoir in Wuliwan area, Ordos basin, north China**  
Renpeng Li, China University of Petroleum Beijing (INT. AUD.: 3)  
Speaker: Renpeng Li
- 0920 ..... **Modelling of an outcropping heavy oil carbonate field, using dense well calibration, field work and lab measurements: The Oligo-Miocene reservoir of the Maiella mountain — central Apennines, Italy**  
Lorenzo Lippardini, University "Sapienza" of Rome; Roberta Ruggieri, Marco Brandano, and Fabio Trippetta, "Sapienza" University of Rome (INT. AUD.: 3)  
Speaker: Lorenzo Lippardini
- 0940 ..... **Investigation of geometrical descriptors for the 3D pore shape classification in reservoir rocks**  
Mayka Schmitt, and Celso Peres Fernandes, Federal University of Santa Catarina; Matthias Halisch, and Cornelia Müller, Leibniz Institute for Applied Geophysics (LIAG) (INT. AUD.: 4)  
Speaker: Mayka Schmitt
- 1000 ..... **High-resolution 3D stochastic mapping of the lithofacies within the multi-reservoirs upper Bentiu member; implication of a rifted stratigraphic settings**  
Mohammed Jabir, Ali Sahin, Osman Abdullatif, Mohammad Makkawi, Gabor Korvin, and Sanlinn Kaka, King Fahd University of Petroleum and Minerals (INT. AUD.: 5)  
Speaker: Mohammed Jabir

## Shale Reservoirs-Analog Field Studies

*Session Chair(s): Gervasio Barzola and Heather LaReau*

*Rooms: 118/119*

- 0900 ..... **Scale-dependent performance drivers in the Wolfcamp shale of the Midland basin, west Texas**  
Donny Loughry, Paul Clarke, and Gervasio Barzola, Pioneer Natural Resources (INT. AUD.: 3)  
Speaker: Donny Loughry
- 0920 ..... **Assessing well performance in a prolific liquids-rich shale play - an Eagle Ford Shale case study, Texas, U.S.A.**  
Doug Portis, Paul Clarke, Gervasio Barzola, and Hector Bello, Pioneer Natural Resources (INT. AUD.: NA)  
Speaker: Paul Clarke
- 0940 ..... **Multi-source data integration: Eagle Ford Shale sweet spot mapping (Part 1)**  
Beau Tinnin, Hector Bello, and Matthew McChesney, Pioneer Natural Resources (INT. AUD.: 2)  
Speaker: Beau Tinnin
- 1000 ..... **Multi-source data integration: Eagle Ford Shale sweet spot mapping (Part 2)**  
Beau Tinnin, Hector Bello, and Matthew McChesney, Pioneer Natural Resources (INT. AUD.: NA)  
Speaker: Hector Bello

# Technical Program

## Oral Sessions

### Tuesday Mid-Morning Oral Sessions

#### Basin Modeling and Analysis 2

*Session Chair(s): Laurie Whitesell*

*Room: 111*

- 1100 ..... **Withdrawn**
- 1120 ..... **Play fairplay analysis in Apure-Barinas basin**  
Nubia Santiago, Landann Escorcía, Rosalín Oliveros, Bellizzi Louise, Zorifrank Hernández, Jose Lara, Jose Marcano, Kaolu Parra, Yasmin Peña, and Yanitza Rivas, PDVSA; Melissa Hernández, Independiente (INT. AUD.: 3)  
Speaker: Landann Escorcía
- 1140 ..... **Explaining production - a review of unexpected production during the initial appraisal of a organic rich shale play by integrating geology and petrophysics with production, Woodford shale, USA**  
James Lindsay, and Eli Menendez, Payrock Energy LLC (INT. AUD.: 1)  
Speaker: James Lindsay
- 1200 ..... **Basin modeling of parts of the Niger delta: Thermal maturity evaluation and prediction of petroleum generation.**  
Fortune Nwokocho, and Michael Oti, University of Port Harcourt, Nigeria (INT. AUD.: 4)  
Speaker: Fortune Nwokocho

#### History of Petroleum Geosciences 1

*Session Chair(s): Piotr Krzywiec and Robbie Gries*

*Rooms: 122/123*

- 1100 ..... **It's just a question of finding enough barrels — a brief history of the oil barrel**  
Jonathan Craig, Eni Upstream & Technical Services (INT. AUD.: 1)  
Speaker: Jonathan Craig
- 1120 ..... **Modeling a concept and the concept of modeling**  
Hemin Koyi, Department of Earth Sciences (INT. AUD.: NA)  
Speaker: Hemin Koyi
- 1140 ..... **Petroleum geologists and the history of the principle of Uniformitarianism**  
Andrew Hopkins, Inline Associates Ltd. (INT. AUD.: 3)  
Speaker: Andrew Hopkins
- 1200 ..... **The earliest women geologists in geophysics**  
Robbie Gries, Priority Oil & Gas LLC (INT. AUD.: 1)  
Speaker: Robbie Gries

#### Petrophysics 2

*Session Chair(s): To Be Determined*

*Rooms: 129/130*

- 1100 ..... **Application of stepwise regression for selecting optimal log measurements for hydraulic fracturing** Mehdi E. Far, John Quirein, and Natasa Mekic, Halliburton (INT. AUD.: 5)  
Speaker: Mehdi E. Far
- 1120 ..... **Investigation of the compaction trends in the shales of the south Caspian basin**  
Farid Gurbanov, Azerbaijan State Oil Academy; Elshan Rzayev, BP; Rauf Aliyarov, SOCAR Shah Deniz Ltd; Rizvan Ramazanov, Baker Hughes Solutions (INT. AUD.: 4)  
Speaker: Farid Gurbanov
- 1140 ..... **Withdrawn**
- 1200 ..... **Rock physics and AVO mapping of lithofacies and pore fluid probabilities: Niger delta**  
Ibukun Olorunniwo, Sunday Olotu, Moses Olorunniwo, and Adekunle Adepelumi, Obafemi Awolowo University (INT. AUD.: 4)  
Speaker: Sunday Olotu

#### Reservoir Characterization 5

*Session Chair(s): Jorge Reveron*

*Room: 113*

- 1100 ..... **Lithology prediction based on the full-waveform inversion results**  
Runhai Feng, Stefan M. Luthi, Dries Gisolf, and Siddharth Sharma, Delft University of Technology (INT. AUD.: 2)  
Speaker: Runhai Feng
- 1120 ..... **Use of mechanistic model to assess the sweep efficiency along horizontal wells**  
Ruaa Jaafar, Petroleum Institute; Jorge Gomes, Petroleum Institute Abu Dhabi (INT. AUD.: 3)  
Speaker: Ruaa Jaafar
- 1140 ..... **Multiscale simulation of absolute permeability using 3D X-ray micro-tomography images**  
Soufiane Jouini, Ali Al Sumaiti, Abdul Ravoof Shaik, Khurshed Rahimov, and Mohamed Hossni Elsayed Hashem, Petroleum Institute (INT. AUD.: 5)  
Speaker: Soufiane Jouini
- 1200 ..... **Qualitative seismic fracture study of the reservoir using combination of seismic attributes and geological setting of the study area**  
Keyvan Najafzadeh, Yahya Moradi Chaleshtori, and Abdoloh Kiani, Dana Geophysics Company (INT. AUD.: 6)  
Speaker: Keyvan Najafzadeh

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## Rock Physics

*Session Chair(s): Donny Loughry and Gang Yu*

*Rooms: 118/119*

- 1100 ..... **High TOC shale core samples complex resistivity measurement and its applications** Gang Yu, BGP; Wenbao Hu, Yangtze University; Zhanxiang He, BGP Inc. (INT. AUD.: 2)  
Speaker: Gang Yu
- 1120 ..... **Rock physics study for shale gas formation characterization in China**  
Gang Yu, BGP; Yusheng Zhang, BGP Inc. (INT. AUD.: 2)  
Speaker: Gang Yu
- 1140 ..... **A molecular dynamics simulation approach in estimating organic-rich shale permeability**  
Rui Kou, and Yucel Akkutlu, Texas A&M University (INT. AUD.: NA)  
Speaker: Yucel Akkutlu
- 1200 ..... **Withdrawn**

## Seismic Interpretation Case Studies

*Session Chair(s): Refaat Zaki and Uzonna Anyiam*

*Rooms: 120/121*

- 1100 ..... **Seismic interpretation and characterisation of igneous rocks in Jan Mayen microcontinent, Norwegian-Greenland sea**  
Kamaldeen Omosanya, Ståle Johansen, and Dicky Harishidayat, Norwegian University of Science and Technology (INT. AUD.: 3)  
Speaker: Kamaldeen Omosanya
- 1120 ..... **Seismic stratigraphic analysis and hydrocarbon potential of the late Miocene submarine canyons in the southwestern margin of the Ulleung basin, East Sea**  
Moohee Kang, and Minwoo Lee, Korea Institute of Geoscience and Mineral Resources; Myong-Ho Park, Korea National Oil Corporation (INT. AUD.: 3)  
Speaker: Moohee Kang
- 1140 ..... **Qualitative and quantitative use of partial stacks in seismic interpretation: Case studies from west Africa**  
Abdul Karim Mansaray, Promod Kumar Painuly, and Manuel Gonzalez-Fernandez, Repsol (INT. AUD.: NA)  
Speaker: Abdul Karim Mansaray
- 1200 ..... **Defining the 3D unconformity architecture and the seismic characterization of a complex reservoir from a simultaneous-stochastic inversion: Case study in the Ilanos basin, Colombia**  
Antonio Velasquez, Ecopetrol; Horacio Acevedo, Formerly at Talisman Energy; Roxana Varga, CGG Veritas (INT. AUD.: 3)  
Speaker: Antonio Velasquez

## Tuesday Afternoon Oral Sessions

### Basin Modeling and Analysis 3

*Session Chair(s): Dietmar Schumacher*

*Room: 111*

- 1400 ..... **New constraints on the sedimentary and tectonic evolution of the San Pedro basin (southern Dominican Republic offshore margin), new opportunities for the hydrocarbon exploration?**  
Jose Miguel Gorosabel, Andrés Carbó Gorosabel, José Luis Granja Bruña, Álvaro Rodríguez Zurrutero, and Alfonso Muñoz Martín, Universidad Complutense de Madrid; Laura Gómez De La Peña, Institute of Marine Sciences-CSIC; Antonio Pazos, Real Observatorio de la Armada (INT. AUD.: NA)  
Speaker: Jose Miguel Gorosabel
- 1420 ..... **Structural restoration of the Rovuma basin to analyse the tectonic history and the implications for the petroleum systems**  
Eva Hollebeek, and Olivia Osicki, Schlumberger; Duplo Kornpohl, Schlumberger (INT. AUD.: 4)  
Speaker: Eva Hollebeek
- 1440 ..... **Paleogeographic reconstruction of the Cyrenaican Miocene carbonate Evaporite sequences of the Ar-Rajmah group, al-Jabal al-Khdar uplift and Soluq trough, NE Libya**  
Khaled Amrouni, and Michael Pope, Texas A&M University; Ahmed El-Hawat, Khalid Mustafa, Ahmed Al-Alwani, Mohamed El-Jahmi, Aimen Amer, Adel Obeidi, Hassan El-Bargathi, and Salah El-Ekhfifi, Garyounis University; Essa Elbileikia, Missouri University of Science and Technology (INT. AUD.: 1)  
Speaker: Aimen Amer
- 1500 ..... **Withdrawn**

### History of Petroleum Geosciences 2

*Session Chair(s): Piotr Krzywiec and Robbie Gries*

*Rooms: 122/123*

- 1400 ..... **Early oil explorers in Italy across the '800 and '900: The north Maiella-Tocco Casauria oil province case histories (Abruzzo - Italy)**  
Lorenzo Lipparini, University "Sapienza" of Rome; Francesco Gerali, The University of Western Australia; Jacopo Palladini, researcher (INT. AUD.: 1)  
Speaker: Lorenzo Lipparini
- 1420 ..... **Simon Papp, a prominent Hungarian petroleum geologist: How to run exploration projects from a prison cell**  
Istvan Berczi, MOL; Gabor Tari, OMV AG (INT. AUD.: 1)  
Speaker: Istvan Berczi
- 1440 ..... **Hydrocarbon exploration in the Fylde, Lancashire from 1980 to 2016, changing techniques and public response**  
Michael Roberts, retired (INT. AUD.: 1)  
Speaker: Michael Roberts
- 1500 ..... **Withdrawn**

# Technical Program

## Oral Sessions

### Innovative Interpretation Approaches

*Session Chair(s): Ahmed Adnan Aqrawi and Mohammad Almaghlouth*  
*Rooms: 120/121*

- 1400 ..... **Withdrawn**
- 1420 ..... **Observations on tectonic evolution and prospectivity of Madagascar offshore basins based on interpretation of new seismic data**  
Roel Dirx, Ben Sayers, Erika Tibocho, Felicia Winter, and Paul Chandler, TGS; Bonaventure Rasoanaivo, and Lalanirina Ranoroarisoa, OMNIS; Xu Wenshuai, and Xing Hongkai, BGP Multi Client (INT. AUD.: NA)  
Speaker: Roel Dirx
- 1440 ..... **Withdrawn**
- 1500 ..... **Maximizing the value of deep long-offset seismic reflection data**  
Nick Kusznir, and Leanne Cowie, Badley Geodynamics; Brian Horn, and Paul Bellingham, ION; Alan Roberts, Badley Geoscience (INT. AUD.: 3)  
Speaker: Nick Kusznir

### Petrophysics 3

*Session Chair(s): To Be Determined*  
*Rooms: 129/130*

- 1400 ..... **Withdrawn**
- 1420 ..... **Withdrawn**
- 1440 ..... **Determination of wettability from magnetic resonance relaxation and diffusion measurements on fresh-state cores**  
Chanh Cao Minh, Steve Crary, Andrea Valori, and Nate Bachman, Schlumberger; Philip Singer, Rice University; Gabor Hursan, Shouxiang Ma, Ali Belowi, and Ghazi Kraishan, Saudi Aramco (INT. AUD.: 3)  
Speaker: Chanh Cao Minh
- 1500 ..... **Determination of effective water saturation in low resistivity low contrast fresh water shaly sands integrating Sp log with resistivity and other conventional logs and core data — a case study.**  
Pradeep Kumar, Shalini Hooda, and B.S. Bisht, GEOPIC, ONGC, Dehradun (INT. AUD.: 4)  
Speaker: Pradeep Kumar

### Reservoir Characterization 6

*Session Chair(s): Carlos Cobos*  
*Rooms: 113*

- 1400 ..... **Withdrawn**
- 1420 ..... **Monitoring and characterization based upon geophysical onset times**  
Don Vasco, Lawrence Berkeley National Laboratory (INT. AUD.: 3)  
Speaker: Don Vasco
- 1440 ..... **Identification of petroleum productive low temperature hydrothermal dolomite reservoirs: Difficulties and challenges identifying and finding**  
Steven Tedesco, Running Foxes Petroleum Inc. (INT. AUD.: 3)  
Speaker: Steven Tedesco
- 1500 ..... **Seismic reservoir characterization and discrimination over 'aib-EX' oil field, Niger delta**  
Sunday Olotu, Ibukun Olorunniwo, Olatunbosun Alao, and Adekunle Adepelumi, Obafemi Awolowo University (INT. AUD.: 4)  
Speaker: Sunday Olotu

### Tight Oil and Gas

*Session Chair(s): Heather LeReau and Anton Padin*  
*Rooms: 118/119*

- 1400 ..... **Shale gas accumulation conditions of the Mesozoic formations in Kuqa depression, Tarim basin**  
Xu Song, Xiuxiang Lu, and Yunqi Shen, China University of Petroleum (INT. AUD.: NA)  
Speaker: Xu Song
- 1420 ..... **Multiphase structural diagenetic controls on the spatial distribution of reservoir properties: a case study in an upper carboniferous tight gas sandstone reservoir analog**  
Patrick Wuestefeld, Ulrike Hilse, and Christoph Hilgers, RWTH Aachen University; Bastian Koehler, Wintershall Holding GmbH Germany (INT. AUD.: NA)  
Speaker: Patrick Wuestefeld
- 1440 ..... **Tight oil accumulation of Yanchang formation in Ansai area, Ordos basin, North China**  
Tingan Li, China University of Petroleum-Beijing (INT. AUD.: 5)  
Speaker: Tingan Li
- 1500 ..... **Factors affecting productivity in the Cardium tight light oil play, Alberta, Canada**  
Per Kent Pedersen, University of Calgary; Holly Nicholas, Raymond Van, and Julianne Fic, University of Calgary; Adam Fraser, ConocoPhillips Canada (INT. AUD.: 5)  
Speaker: Per Kent Pedersen

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## Tuesday Mid-Afternoon Oral Sessions

### Basin Modeling and Analysis 4

*Session Chair(s): Fiona Macaulay*

*Room: 111*

- 1600 ..... **Five kilometers of Paleozoic sediments beneath the pre-salt of Santos basin**  
Pedro Zalan, ZAG Consulting in Petroleum Exploration (INT. AUD.: 2)  
Speaker: Pedro Zalan
- 1620 ..... **Withdrawn**
- 1640 ..... **Withdrawn**
- 1700 ..... **A source rock evaluation of the Rovuma basin, Mozambique**  
David Johnstone, ERCL (INT. AUD.: NA)  
Speaker: David Johnstone

### Non Clastic Reservoir

*Session Chair(s): Zoltan Unger*

*Rooms: 129/130*

- 1600 ..... **Withdrawn**
- 1620 ..... **Structural control on occurrence and distribution of late Jurassic Gotnia Evaporite sequences in north Kuwait area**  
Venkateswara Rao Maddipudi, Abdulaziz Ali, Meshal Al-Wadi, and Sanjeev S Thakur, Kuwait Oil Company (INT. AUD.: 3)  
Speaker: Venkateswara Rao Maddipudi
- 1640 ..... **The Miocene Rhodalgal Amposta limestone in the Tarraco reservoir (offshore eastern Spain)**  
Telm Bover-Arnal, Universitat de Barcelona; Mateu Esteban, Repsol Exploración S.A.; Julio Aguirre, Universidad de Granada; Carles Ferràndez-Cañadell, Josep Giner, and Ramon Salas, Universitat de Barcelona (INT. AUD.: 1)  
Speaker: Telm Bover-Arnal
- 1700 ..... **Influence of mobile salt on the distribution and preservation of Fulmar reservoir sands in the UK central north sea**  
Mikhail Skaryatin, Gubkin Russian State University of Oil and Gas; Matthew Brown, E.ON E&P UK; Oliver Duffy, Imperial College London (INT. AUD.: NA)  
Speaker: Mikhail Skaryatin

### Overpressure and Pore Pressure Prediction

*Session Chair(s): Alexander Popovici and Gordon Stove*

*Rooms: 122/123*

- 1600 ..... **Validation of a 3D geomechanical model in wildcat exploration: a case study**  
Oscar Fernandez, and Toby Harrold, Repsol (INT. AUD.: 3)  
Speaker: Oscar Fernandez
- 1620 ..... **Withdrawn**
- 1640 ..... **Understanding the pressure regimes along the west Africa margin and their implications for prospectivity**  
Steve O'Connor, Ikon Science (INT. AUD.: 3)  
Speaker: Steve O'Connor
- 1700 ..... **Shale pressure reversals, identification and implications from pore pressure models of the SMK field, onshore, western Niger delta**  
Emmanuel Olopade, Pan Ocean Oil Company; Ajayi Ehinola, and Moyosoluwa Ogunsakin, University of Ibadan (INT. AUD.: 3)  
Speaker: Moyosoluwa Ogunsakin

### Reservoir in a Stratigraphic Context

*Session Chair(s): Sven Larsson and Consuelo Garcia Mojonero*

*Room: 113*

- 1600 ..... **Sequence stratigraphic understanding of total organic carbon contents and preservation potential in the offshore fine-grained successions of the Ordovician Sino-Korean carbonate platform, mid-eastern Korea**  
Ukhwan Byun, Konju National University; Yi Kyun Kwon, Kongju National University (INT. AUD.: 3)  
Speaker: Ukhwan Byun
- 1620 ..... **Reservoir optimisation inspection and the gains in the "OGBO" field of the Niger delta basin, Nigeria**  
Julius Onwuka, University of Nigeria; Prof. Mosto Onuoha, Chukwudike Okeugo, and Chidozie Dim, University of Nigeria (INT. AUD.: 3)  
Speaker: Julius Onwuka
- 1640 ..... **Tectonic-sedimentary evolution of shallow marine oil-bearing Miocene syn-rift carbonate sequences, Zeit Bay field, southern Gulf of Suez, Egypt**  
Mohamed Darwish, Basem Tawfik, and Raed Badr, EREX; Aly Gadallah, Saber Moustafa, Khaled Hawa, and Wegdan Saleh, Suco (INT. AUD.: 4)  
Speaker: Mohamed Darwish
- 1700 ..... **Sedimentology and architecture of early post-rift submarine lobe deposits; the Los Molles formation, Neuquén basin, Argentina**  
Aurélia Privat, School of Earth and Environment, University of Leeds; David Hodgson, and Jeffrey Peakall, University of Leeds; Christopher A-L Jackson, Imperial College; Ernesto Schwarz, Centro de Investigaciones Geológicas (CIG) de La Plata (INT. AUD.: 4)  
Speaker: Aurélia Privat

# Technical Program

## Oral Sessions

### Seismic Inversion Methods and Case Studies

*Session Chair(s): Maged Fahim*

*Rooms: 120/121*

- 1600 ..... **Withdrawn**
- 1620 ..... **Withdrawn**
- 1640 ..... **3D prestack waveform inversion-a real data example**  
Josiane Pafeng Tchuindjang, Subhashis Mallick, and Hema Sharma, University of Wyoming (INT. AUD.: NA)  
Speaker: Josiane Pafeng Tchuindjang
- 1700 ..... **Seismic inversion using analogs for reservoir characterization and uncertainty assessment in early stages of exploration**  
Ângela Pereira, Ruben Nunes, Leonardo Azevedo, and Amilcar Soares, Instituto Superior Técnico; Luis Guerreiro, Partex Oil And Gas (INT. AUD.: NA)  
Speaker: Ângela Pereira

### Unconventional Resources Petrophysics

*Session Chair(s): Alena Grechishnikova and Paul Clarke*

*Rooms: 118/119*

- 1600 ..... **Unconventional reservoirs, integrated petrophysical approach for sweet spot identification and fracking stage selection**  
Saad Alshehri, Aramco Services Company; Abdelghayoum Ahmed, and Mohammed Boudjatit, Saudi Aramco (INT. AUD.: 5)  
Speaker: Saad Alshehri
- 1620 ..... **On generating a geological model for hydrogen gas in the southern Taoudeni Megabasin (Bourakebougou area, Mali)**  
Denis Briere, Chapman Petroleum Engineering Ltd.; Tomas Jerzykiewicz, Geoclastica Consulting Inc. (INT. AUD.: 3)  
Speaker: Tomas Jerzykiewicz
- 1640 ..... **Fast and robust measurement of the key organic-rich shale petrophysical characteristics**  
Kashy Aminian, West Virginia University (INT. AUD.: 2)  
Speaker: Kashy Aminian
- 1700 ..... **Withdrawn**

### Wednesday Morning Oral Sessions

#### EM Exploration: CSEM

*Session Chair(s): Pål Gabrielsen and Juanjo Ledo*

*Rooms: 129/130*

- 0900 ..... **Efficient frontier exploration using towed streamer EM and broadband dual sensor seismic data**  
Allan McKay, Petroleum GeoServices; Anwar Bhuiyan, and Tashi Tshering, PGS Geophysical AS (INT. AUD.: 3)  
Speaker: Allan McKay
- 0920 ..... **Steel casing effect on land CSEM monitoring**  
Vladimir Puzyrev, Barcelona Supercomputing Center; Eloi Vilamajo, Pilar Queralt, Juanjo Ledo, and Alex Marcuello, University of Barcelona (INT. AUD.: 3)  
Speaker: Vladimir Puzyrev
- 0940 ..... **3D CSEM exploration performance in the Barents Sea**  
Pål Gabrielsen, and Stein Fanavoll, EMGS ASA (INT. AUD.: 3)  
Speaker: Pål Gabrielsen
- 1000 ..... **Edge-based parallel framework for the simulation of 3D CSEM surveys**  
Octavio Castillo Reyes, Josep De La Puente, Vladimir Puzyrev, and Jose Cela, Barcelona Supercomputing Center (INT. AUD.: 1)  
Speaker: Octavio Castillo Reyes

#### Fracture Reservoirs and Seismic Characterization

*Session Chair(s): Hector Bello and Nadia Testamanti*

*Rooms: 118/119*

- 0900 ..... **Defining “sweet spots” of the upper Jurassic unconventional hydrocarbon system in central part of the mid-Polish trough using seismic inversion, seismic attribute analysis and seismic stratigraphic modelling**  
Lukasz Slonka, and Piotr Krzywiec, Institute of Geological Sciences, Polish Academy of Sciences; Marta Mulinska, and Tomasz Rosowski, Strzelecki Energia Sp. z o.o.; Michal Malinowski, and Marta Cyz, Institute of Geophysics, Polish Academy of Sciences; Paulina Krakowska, AGH University of Science and Technology (INT. AUD.: 4)  
Speaker: Lukasz Slonka
- 0920 ..... **Prestack seismic data inversion for shale gas reservoir characterization in China**  
Gang Yu, BGP; Yusheng Zhang, BGP Inc. (INT. AUD.: 2)  
Speaker: Gang Yu
- 0940 ..... **Discrete fracture network model developed from a high resolution LIDAR outcrop survey of a naturally fractured unconventional Niobrara reservoir**  
Alena Grechishnikova, and Thomas Davis, Colorado School of Mines (INT. AUD.: 3)  
Speaker: Alena Grechishnikova
- 1000 ..... **Best practices for mitigating subsurface challenges of natural fracture characterization and fracture modeling of deep unconventional reservoirs**  
Chinmaya Pattnaik, Vijaya Kumar Kidambi, Neama Hussain Abdullah Al-Ajmi, Qasem Dashti, Bashar Al-Qadeeri, and Srinivasa Rao Narhari, Kuwait Oil Company (INT. AUD.: NA)  
Speaker: Chinmaya Pattnaik

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## Geochemistry Analysis in Unconventional Reservoirs

*Session Chair(s): Gihan El Bakry Omara and Beau Tinnin*

*Rooms: 122/123*

- 0900 ..... **Utilizing geochemical analysis in unconventional reservoirs to allocate produced oils to stratigraphic zone**  
Heather Lareau, Noble Energy Inc; Jeremy Dahl, Stanford University; Adam Clark, Bob Parney, and Scott Friedman, Noble Energy Inc. (INT. AUD.: 2)  
Speaker: Heather Lareau
- 0920 ..... **Tertiary oil-prone coals and carbonaceous shales identified as the potential source rock of the Caracara Sur oil field in the llanos basin, Colombia**  
Maria Flor Garcia-Mayoral, Alexis Medina, and Maria Rosario Rodriguez Pardo, CEPESA; Jorg O.W. Grimmer; Jorge Navarro, cepesa (INT. AUD.: 5)  
Speaker: Maria Flor Garcia-Mayoral
- 0940 ..... **Constraining the timing of dry gas formation: Insights from re-Os and apatite fission track geochronology from south Guizhou (China)**  
Xiang Ge, Chuanbo Shen, Hongguo Ji, Zhaoqian Liu, and Lianfu Mei, China University of Geoscience (Wuhan); Dafei Deng, Institute of China National Offshore Oil Company Ltd; David Selby, Durham University (INT. AUD.: NA)  
Speaker: Xiang Ge
- 1000 ..... **Withdrawn**

## Petroleum Systems Elements

*Session Chair(s): Gihan El Bakry Omara*

*Room: 113*

- 0900 ..... **Petroleum system: From conventional to unconventional**  
Jingzhou Zhao, and Qing Cao, Xi'an Shiyou University; Yubin Bai, Jun Li, Chuang Er, and Weitao Wu, Xi'an Shiyou University (INT. AUD.: NA)  
Speaker: Jingzhou Zhao
- 0920 ..... **A new approach on salt and methane generation**  
Zoltan Unger, Univ. of West Hungary, Nat. Sci. Fac.; David Leclair, Oil & Gas Development Ltd. (INT. AUD.: 4)  
Speaker: Zoltan Unger
- 0940 ..... **Forward analysis of the sources and relative contributions of marine oil and gas in the Tarim basin**  
Qianwen Li, Qiongqi Pang, and Junqing Chen, China University of Petroleum, Beijing (INT. AUD.: NA)  
Speaker: Qianwen Li
- 1000 ..... **Withdrawn**

## Salt Tectonics

*Session Chair(s): Ahmed Abdel Aal and Ramadan Ghalayini*

*Room: 111*

- 0900 ..... **Experimental approach to megaflap development during passive salt diapirism: Controlling factors and kinematics**  
Oriol Ferrer, Nuria Carrera, Eduard Roca, and Josep Anton Muñoz, University of Barcelona; Mark G. Rowan, Rowan Consulting Inc.; Katherine A. Giles, The University of Texas at El Paso (INT. AUD.: 4)  
Speaker: Oriol Ferrer
- 0920 ..... **Salt tectonics of the southeastern Norwegian Barents Sea**  
Mark Rowan, Rowan Consulting, Inc.; Tore Skar, and Laila Pedersen, Suncor Energy Norge AS (INT. AUD.: 3)  
Speaker: Mark Rowan
- 0940 ..... **Salt tectonics and salt-sediment interaction around the Bakio Diapir, Basque-Cantabrian basin, Pyrenees**  
Eduard Roca, Mireia Butillé, Oriol J. Ferrer, Pau Arbués, Marco De Matteis, and Josep Anton Muñoz, University of Barcelona; Mark Rowan, Rowan Consulting Inc.; Katherine Giles, University of Texas at El Paso (INT. AUD.: NA)  
Speaker: Eduard Roca
- 1000 ..... **Withdrawn**

## Seismic Modeling 1

*Session Chair(s): Laurie Whitesell*

*Rooms: 120/121*

- 0900 ..... **Accurate 3D bathymetry representation in low-dispersion finite differences**  
Miguel Ferrer, and Josep De La Puente, Barcelona Supercomputing Center; Santiago Fernández Prieto, Repsol S.A. (INT. AUD.: 2)  
Speaker: Miguel Ferrer
- 0920 ..... **Exploiting a priori model reduction methods to accelerate seismic simulations**  
David Modesto, and Josep De La Puente, Barcelona Supercomputing Center (INT. AUD.: 4)  
Speaker: David Modesto
- 0940 ..... **Impact of a tightly folded anisotropic layer on imaging in Papua New Guinea - a modeling study**  
Greg Cameron, and Rob Vestrum, Thrust Belt Imaging; Daniel Gillam, InterOil Corporation (INT. AUD.: 3)  
Speaker: Greg Cameron
- 1000 ..... **Withdrawn**

# Technical Program

## Oral Sessions

### Wednesday Mid-Morning Oral Sessions

#### EM Exploration: MT and Joint Methods

*Session Chair(s): Allan McKay and Vladimir Puzyrev*

*Rooms: 129/130*

- 1100 ..... **Fuzzy-logic clustering of 3D magnetotelluric and seismic velocity models: Tenerife Island (Spain)**  
Juanjo Ledo, Pilar Queralt, and Alex Marcuello, Universitat de Barcelona; Araceli Garcia-Yeguas, Universidad de Cadiz; Perla Piña-Varas, University of Western Australia; Ianire Prudencio, Alejandro Díaz, and Jesus Ibañez, Instituto Andaluz de Geofísica (INT. AUD.: 2)  
Speaker: Juanjo Ledo
- 1120 ..... **Drilling risk assessment through joint EM and seismic data integrated interpretation**  
Zhanxiang He, and Gang Yu, BGP (INT. AUD.: 3)  
Speaker: Gang Yu
- 1140 ..... **The novel high-performance 3D magnetotelluric inverse solver based on an integral equation approach**  
Mikhail Kruglyakov, Lomonosov MSU; Alexei Geraskin, and Alexei Kuvshinov, ETH Zurich (INT. AUD.: 4)  
Speaker: Mikhail Kruglyakov
- 1200 ..... **Mixed precision iterative solver for the solution of large systems of linear equations in electromagnetic exploration**  
Samuel Rodriguez, Mauricio Hanzich, and Vladimir Puzyrev, Barcelona Supercomputing Center; Santiago Fernández, Repsol Technology Center (INT. AUD.: 2)  
Speaker: Samuel Rodriguez

#### Exploration Geochemistry

*Session Chair(s): Gihan El Bakry Omara*

*Rooms: 122/123*

- 1100 ..... **East Shetland platform petroleum geochemistry and prospectivity**  
Arka Dyuti Sarkar, University of Manchester (INT. AUD.: 3)  
Speaker: Arka Dyuti Sarkar
- 1120 ..... **Real-time detection of drill bit metamorphism for accurate interpretation of hydrocarbon shows**  
Mariel Reitsma, and Chris Harlow, HRH Geology (INT. AUD.: 2)  
Speaker: Mariel Reitsma
- 1140 ..... **Gas storage in model kerogen pores with surface heterogeneities**  
Dahiyana Cristancho, and Yucel Akkutlu, Texas A&M University; Louise Criscenti, and Yifeng Wang, Sandia National Laboratories (INT. AUD.: 3)  
Speaker: Yucel Akkutlu
- 1200 ..... **Surface geochemical exploration after 85 years: What has been accomplished and what more must be done**  
Dietmar Schumacher, Schumacher and Associates LLC (INT. AUD.: 2)  
Speaker: Dietmar Schumacher

#### Micro Seismic

*Session Chair(s): Adefela Aromolaran and Arjen Rolf*

*Rooms: 118/119*

- 1100 ..... **Withdrawn**
- 1120 ..... **Locating events using borehole microseismic monitoring by inclusion of particle motion analysis: a case study from Indonesia**  
Rexha Ry, and Andri Nugraha, Institut Teknologi Bandung (INT. AUD.: 3)  
Speaker: Rexha Ry
- 1140 ..... **Withdrawn**
- 1200 ..... **Withdrawn**

#### Petroleum Systems Case Studies

*Session Chair(s): Gihan El Bakry Omara*

*Room: 113*

- 1100 ..... **The recovery of TOC and its application in source rocks at high mature – over mature stage in deep petroliferous basin**  
Xiongqi Pang, Qianwen Li, Sumei Li, and Maowen Li, China University of Petroleum (INT. AUD.: NA)  
Speaker: Xiongqi Pang
- 1120 ..... **Re-evaluation of the petroleum potential of the Diyarbakir basin (SE Turkey): a perspective from the Ordovician icemarginal areas of the northern Arabian plate**  
Izzet Hosgor, Gökay Yildiz, Bayram Saridas, Ahmet Aytünür, and Bayram Kara, Çalik Enerji (INT. AUD.: NA)  
Speaker: Izzet Hosgor
- 1140 ..... **Hydrocarbon-source correlation and timing under post-mature conditions using re-0s geochronology: The Neoproterozoic Dengying formation of the Sichuan basin, southwestern China**  
Chunhua Shi, Jian Cao, and Wenxuan Hu, Nanjing University; David Selby, Durham University; Xiucheng Tan, and Hong Liu, Southwest Petroleum University (INT. AUD.: 2)  
Speaker: Xiang Ge
- 1200 ..... **The atypical igneous-sedimentary petroleum systems of the Parnaíba basin: Seismic, well-logs and analogues**  
Frederico Miranda, Paulo Roberto Cunha, João Caldeira, Fernando Aragão, and Diogo Michelon, PGNSA (INT. AUD.: 3)  
Speaker: Frederico Miranda

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## Sedimentology 1

**Session Chair(s): Julius Onwuka**

**Room: 111**

- 1100 ..... **A critical look at the criticality of sediment-propelled turbidity currents**  
Bill Arnott, and Mike Tilston, University of Ottawa (INT. AUD.: 3)  
Speaker: Bill Arnott
- 1120 ..... **Stratigraphic architecture and evolution of a barrier seagrass bank in the mid-late Holocene, Shark Bay, Australia**  
Giada Bufarale, and Lindsay Collins, Curtin University (INT. AUD.: 3)  
Speaker: Giada Bufarale
- 1140 ..... **Comparative analysis of ancient mouth bars and subaqueous terminal distributary channels in three deltas: The Permian Mackellar formation of Antarctica, the cretaceous Schrader bluff formation of arctic Alaska, and the cretaceous Loyd formation of Colorado**  
Peter Flaig, and Timothy Prather, University of Texas at Austin; Dolores Van Der Kolk, University of Texas at Austin; Stephen Hasiotis, The University of Kansas (INT. AUD.: 4)  
Speaker: Peter Flaig
- 1200 ..... **Capturing flow transformation processes across an uneven seabed in coarse-grained sediment gravity flow deposits**  
Aurélia Privat, David Hodgson, and Jeffrey Peakall, University of Leeds; Christopher A-L Jackson, Imperial College; Ernesto Schwarz, Centro de Investigaciones Geológicas (CIG) (UNLP-CONICET) (INT. AUD.: 5)  
Speaker: Aurélia Privat

## Seismic Modeling 2

**Session Chair(s): Alexander Popovici and Josep De La Puente**

**Rooms: 120/121**

- 1100 ..... **A comparative study of different time integration schemes applied to finite difference elastic wave simulations**  
Otilio Rojas, Universidad Central de Venezuela; Josep De La Puente, and Jose Cela, Barcelona Supercomputing Center; Santiago Fernández, Repsol (INT. AUD.: 4)  
Speaker: Otilio Rojas
- 1120 ..... **Local radial basis functions for Helmholtz equation in seismic inversion**  
Hebert Montegranario, Antioquia University (INT. AUD.: 2)  
Speaker: Hebert Montegranario
- 1140 ..... **An RBF-FD scheme on hexagonal grids to solve the Helmholtz equation with high wavenumber**  
Mauricio Londono, Universidad de Antioquia (INT. AUD.: 2)  
Speaker: Mauricio Londono
- 1200 ..... **A new finite difference mimetic scheme for acoustic reflection modeling**  
B Otero, and R. Rodriguez, Universitat Politecnica de Catalunya-Tech; Juan Guevara-Jordan, Universidad Central De Venezuela; F Solano-Feo, and O. Rojas, Universidad Central de Venezuela (INT. AUD.: 2)  
Speaker: Otilio Rojas

## Wednesday Afternoon Oral Sessions

### AVO Inversion and Interpretation

**Session Chair(s): Maged Fahim**

**Rooms: 120/121**

- 1400 ..... **Withdrawn**
- 1420 ..... **Azimuthal frequency-dependent AVO inversion and its application in deep carbonate reservoirs in Tahe oilfield of China**  
Xu Kai, Sinopec Geophysical Research Institute; Xiao Pengfei, Sinopec Geophysical Research Institute (INT. AUD.: 5)  
Speaker: Xu Kai
- 1440 ..... **Withdrawn**
- 1500 ..... **Withdrawn**

### Gravity and Magnetics

**Session Chair(s): Laurie Whitesell**

**Rooms: 122/123**

- 1400 ..... **Withdrawn**
- 1420 ..... **Structure of Baan Pong basin, Hang Dong District, Chiang Mai Province, based on joint gravity interpretation and geologic field observations**  
Niti Mankhemthong, Chiang Mai University (INT. AUD.: 3)  
Speaker: Niti Mankhemthong
- 1440 ..... **Estimation of curie isotherm and heat flow of eastern Chad basin, Nigeria from spectral analysis of aeromagnetic data**  
Emmanuel Anakwuba, and Harold Okeke, Nnamdi Azikiwe University, Awka, Anambra State, Nigeria; Ifeanyi Chinwuko, Federal University Gusau, Zamfara State, Nigeria; Clement Onyekwelu, Sunlink Petroleum Limited, Nigeria (INT. AUD.: 5)  
Speaker: Emmanuel Anakwuba
- 1500 ..... **Utilizing aeromagnetics and micromagnetics to define petroleum reservoirs in the Denver, Forest City and Cherokee basins**  
Steven Tedesco, Running Foxes Petroleum Inc. (INT. AUD.: 3)  
Speaker: Steven Tedesco

# Technical Program

## Oral Sessions

### Inversion

*Session Chair(s): Samir Abdelmoaty*

*Rooms: 118/119*

- 1400 ..... **Cross-gradient joint inversion coupled with Euler deconvolution of gravity and magnetic anomalies**  
Emilia Fregoso, University of Guadalajara; Luis A. Gallardo, and Juan Garcia-Abdeslem, CICESE (INT. AUD.: 2)  
Speaker: Emilia Fregoso
- 1420 ..... **Withdrawn**
- 1440 ..... **AVA seismic inversion as a tool for prospect evaluation**  
Lukumon Adeoti, Oluwakemi Adesanya, and Kayode Oyedele, University of Lagos; Ayorinde Adekanle, and Peter Afinotan, Chevron Nigeria Limited (INT. AUD.: 5)  
Speaker: Oluwakemi Adesanya
- 1500 ..... **Withdrawn**

### Petroleum Systems Integrated with Structure Geology

*Session Chair(s): Gihan El Bakry Omara and Carlos Ruela Nogueira*

*Room: 113*

- 1400 ..... **Assessment of trap formation and hydrocarbon charge timing in the deepwater fold-and-thrust belt, offshore Sabah, NW Borneo**  
Laurence Jayawardane, and Alastair Fraser, Imperial College London; Martin Neumaier, Adeline Parent, and Laurent Maerten, Schlumberger (INT. AUD.: 3)  
Speaker: Laurence Jayawardane
- 1420 ..... **Fault seal analysis through geologic time using an integrated petroleum systems approach**  
Jan Derks, Schlumberger; Cassandra Warren, and Carlo Caso, Schlumberger (INT. AUD.: 4)  
Speaker: Cassandra Warren
- 1440 ..... **Re-Os geochronometer constraint on timing of petroleum generation and migration and associated tectonism of the northern Longmen Shan thrust, China**  
Chuanbo Shen, China University of Geosciences (INT. AUD.: NA)  
Speaker: Chuanbo Shen
- 1500 ..... **Jurassic petroleum systems of the United Kingdom – Ireland and Canadian conjugate margins of the Atlantic Ocean**  
Iain Scotchman, and Anthony Doré, Statoil (UK) Ltd (INT. AUD.: 5)  
Speaker: Iain Scotchman

### Sedimentology 2

*Session Chair(s): Arka Dynti Sarkar*

*Room: 111*

- 1400 ..... **Marginal marine mudstones in the Pattani basin, Gulf of Thailand: Implications for stratigraphic development, reservoir characterization and correlation potential**  
Joseph Lambiase, Jittikan Narapan, and Patcharaporn Cham-pasa, Chulalongkorn University (INT. AUD.: 3)  
Speaker: Joseph Lambiase
- 1420 ..... **Withdrawn**
- 1440 ..... **Sedimentary facies, sequence stratigraphy of mixed carbonate-siliciclastic sediments (early middle Miocene dam formation, eastern Saudi Arabia)**  
Syed Haroon Ali, and Osman Abdullatif, Earth Sciences Department, KFUPM, Dhahran, Saudi Arabia; Lameed Olabode Babalola, Center for Integrated Petroleum Research, KFUPM, Dhahran, Saudi Arabia (INT. AUD.: 4)  
Speaker: Osman Abdullatif
- 1500 ..... **Mass-transport complexes as deformation markers; insights from the Magdalena fan, offshore Colombia**  
Andrea Ortiz Karpf, David Hodgson, and William McCaffrey, University of Leeds; Christopher Jackson, Imperial College, London (INT. AUD.: 4)  
Speaker: Andrea Ortiz Karpf

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## Usage of Geochemistry to Calibrate the Geological Model

*Session Chair(s): Gihan El Bakry Omara*

*Rooms: 122/123*

- 1400 ..... **The effect of sodium carbonate on organic evolution and hydrocarbon generation in alkaline salt lake**  
Wen Qi, Research Institute of Petroleum Exploration and Development-Northwest, PetroChina; Jianguo Pan, Northwest Geological Inst.; Yanqing Xia, Lanzhou Centre for Oil and Gas Resources, Institute of Geology and Geophysics, C (INT. AUD.: NA)  
Speaker: Wen Qi
- 1420 ..... **Palaeogeographic and palaeoclimatic evolution of the north Atlantic: The role of earth systems modelling in the predictive mapping of source rock environments**  
Jim Harris, Alexandra Ashley, Fiona Healey, Simon Otto, Sean Pyman, Watson John, Windmill Richard, and Mike Goodrich, CGG Services UK; Jon Hill, and Alexandros Avdis, Imperial College (INT. AUD.: 3)  
Speaker: Jim Harris
- 1440 ..... **Inorganic geochemical characterisation of the cretaceous marine and continental sediments in the Keana area of the middle-Benue trough, north-central Nigeria: Its implication in tectonic setting, provenance and depositional environment**  
Nnaemeka Onyeagba, and Edafetano Ashano, University of Jos (INT. AUD.: 3)  
Speaker: Nnaemeka Onyeagba
- 1500 ..... **Withdrawn**

## Wednesday Mid-Afternoon Oral Sessions

### Carbon Sequestration and Monitoring

*Session Chair(s): Vladimir Puzyrev and Ahmed El-Barkooky*

*Rooms: 129/130*

- 1600 ..... **Pore geometry controls on residual saturation trapping of CO<sub>2</sub>: Applications for commercial scale carbon sequestration**  
John Kaldi, CO2CRC (INT. AUD.: 3)  
Speaker: John Kaldi
- 1620 ..... **Mimetic finite differences and interpolation methods to simulate subsurface mass transport of injected CO<sub>2</sub>**  
Eduardo Sanchez, and Jose Castillo, San Diego State University (INT. AUD.: 3)  
Speaker: Eduardo Sanchez
- 1640 ..... **Simulation of fluid pressure and fracturing in CO<sub>2</sub> sequestration**  
Jonathan Matthews, Christopher Paolini, and Jose Castillo, San Diego State University (INT. AUD.: 3)  
Speaker: Jose Castillo
- 1700 ..... **Subflow – an open-source, object-oriented application for modeling geologic storage of CO<sub>2</sub>**  
Johnny Corbino, and Jose Castillo, San Diego State University; Christopher Paolini (INT. AUD.: 3)  
Speaker: Jose Castillo

### HPC Geophysical Exploration

*Session Chair(s): Josep De La Puente and Mauricio Hanzich*

*Rooms: 118/119*

- 1600 ..... **Roofline-model-driven optimizations for elastic wave propagation on modern processors**  
Albert Farrés, Mauricio Hanzich, Miguel Ferrer, and Josep De La Puente, Barcelona Supercomputing Center (INT. AUD.: 3)  
Speaker: Albert Farrés
- 1620 ..... **Full-waveform inversion on heterogeneous massively parallel computers**  
Alexey Gokhberg, Saule Simute, and Andreas Fichtner, ETH Zurich (INT. AUD.: 4)  
Speaker: Alexey Gokhberg
- 1640 ..... **Towards an efficient and reliable HPC software platform for 3D geophysical inversion**  
Juan-Esteban Rodriguez, Mauricio Hanzich, Jean Kormann, Natalia Gutiérrez, and Jose Cela, BSC-CNS; Josep De La Puente, and Vladimir Puzyrev, Barcelona Supercomputing Center (INT. AUD.: 2)  
Speaker: Juan-Esteban Rodriguez
- 1700 ..... **Withdrawn**

# Technical Program

## Oral Sessions

### Innovation

*Session Chair(s): Alexander Popovici*

*Rooms: 122/123*

- 1600 ..... **Enhancing the signal-to-noise ratio of sonic waveforms by Interferometric stacking**  
Ali Aldawood, and Ibrahim Hoteit, King Abdullah University of Science and Technology; Abdulrahman Alshuhail, Delft University of Technology; Abdullatif Al-Shuhail, King Fahd Univ of Petr & Min (INT. AUD.: 3)  
Speaker: Ali Aldawood
- 1620 ..... **Absolute and relative permeabilities from well logs in tight reservoirs**  
Tarek Elkewidy, The American University in Cairo (INT. AUD.: 6)  
Speaker: Tarek Elkewidy
- 1640 ..... **Low cost 3D mapping using a commercial drone/UAV: Application in structural geology**  
Riccardo Rocca, Repsol Exploration S.A. (INT. AUD.: 2)  
Speaker: Riccardo Rocca
- 1700 ..... **Optimization strategies for implementing elastic wave propagators in Intel Xeon phi coprocessors**  
Albert Farrés, Mauricio Hanzich, and Diego Caballero, Barcelona Supercomputing Center; Santiago Fernández, Repsol; Alejandro Durán, Intel Corporation Iberia (INT. AUD.: 3)  
Speaker: Albert Farrés

### Seismic Velocity Estimation and Time Lapse

*Session Chair(s): Ifeanyi Augustine Chinwuko*

*Rooms: 120/121*

- 1600 ..... **Lithostatic-load effects in geologically constrained model building for foothills anisotropic seismic imaging**  
Rob Vestrum, and Greg Cameron, Thrust Belt Imaging; Zoë Vestrum, University of Calgary (INT. AUD.: 1)  
Speaker: Rob Vestrum
- 1620 ..... **Withdrawn**
- 1640 ..... **Time-lapse gravity and gravity gradient monitoring of SAGD reservoirs**  
E Judith Elliott, Queen's University (INT. AUD.: NA)  
Speaker: E Judith Elliott
- 1700 ..... **Diabase sill intrusions in the Parnaiba basin: Imaging challenges, velocity modeling and seismic interpretation**  
Diogo Michelon, Roberto Ribeiro, João Caldeira, Paulo Roberto Cunha, and Frederico Miranda, PGNSA (INT. AUD.: 5)  
Speaker: Diogo Michelon

### Stratigraphy and Biostratigraphy

*Session Chair(s): Laurie Whitesell*

*Rooms: 111*

- 1600 ..... **Withdrawn**
- 1620 ..... **Withdrawn**
- 1640 ..... **Sequence-stratigraphy and depositional model of an Aptian non-rimmed carbonate platform (Maestrat basin, e Spain)**  
Enric Pascual-Cebrian, GeoScience Limited; Telm Bover-Arnal, and Ramon Salas, Universitat de Barcelona; Peter W. Skelton, The Open University; Eulàlia Gili, Universitat Autònoma de Barcelona (INT. AUD.: 4)  
Speaker: Enric Pascual-Cebrian
- 1700 ..... **Stratigraphy interpretation of north Atlantic conjugate margins**  
Ana Bento, Robertson, part of CGG GeoConsulting (INT. AUD.: 3)  
Speaker: Ana Bento



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# Technical Program

## Poster Sessions

### Monday Afternoon Poster Sessions

#### Basin Modeling and Analysis

*Session Chair(s): Fiona Macaulay*

##### Exhibition Hall

- 1400 ..... **Salt tectonics and fluid flow on Morocco offshore: Insights from seismic interpretation and discrete-element modelling**  
Leonardo Muniz Pichel, Mads Huuse, and Emma Finch, University of Manchester (INT. AUD.: NA)  
Poster Station: 4A  
Speaker: Leonardo Muniz Pichel
- 1420 ..... **Oil-gas shows from destruction hydrocarbon reservoirs in the petroliferous basins of China and their geological significance**  
Weibing Shen, and Xiongqi Pang, China University of Petroleum (INT. AUD.: 2)  
Poster Station: 4B  
Speaker: Weibing Shen
- 1440 ..... **Integrated stratigraphic and petroleum system modeling study of the southern upper Rhine Graben**  
Stéphane Roussé, Pierre-Yves Filleaudeau, and Guillaume Cruz Mermey, Beicip Franlab; Alexandre Letteron, IFPen; Marc Schaming, IPGS (INT. AUD.: NA)  
Poster Station: 4C  
Speaker: Pierre-Yves Filleaudeau
- 1500 ..... **Mediterranean heat-flow prediction using gravity inversion**  
Andrew Alvey, and Alan Roberts, Badley Geoscience Ltd; Nick Kuszniir, University of Liverpool (INT. AUD.: 2)  
Poster Station: 4D  
Speaker: Andrew Alvey

#### Processing and Inversion

*Session Chair(s): Gihan El Bakry Omara*

##### Exhibition Hall

- 1400 ..... **Withdrawn**
- 1420 ..... **Seal rock characterization of the Barinas Apure basin, Venezuela**  
Rosalin Oliveros, Landann Escorcía, and Nubia Santiago, PDVSA (INT. AUD.: 3)  
Poster Station: 8B  
Speaker: Rosalin Oliveros
- 1440 ..... **Understanding of reservoirs and cap rock architecture: a key enabler of late water breakthrough for production success in vertical well in tight fractured unconventional reservoirs, north Kuwait gas fields**  
Mihira Acharya, Girija Joshi, Abdul Al Mershed, Asmaa Al-Hammadi, Bashar Al-Qadeeri, and Qasem Dashti, Kuwait Oil Company; Sandeep Chakravorty, Schlumberger Oilfield Eastern Limited (INT. AUD.: 4)  
Poster Station: 8C  
Speaker: Mihira Acharya
- 1500 ..... **Withdrawn**

#### Seismic Acquisition and Processing

*Session Chair(s): Rujie Zhang and Don Visco*

##### Exhibition Hall

- 1400 ..... **Withdrawn**
- 1420 ..... **Moved to Basin Modeling and Analysis**
- 1440 ..... **Improved subsurface imaging through reverse time migration: A synthetic case study**  
Pradeep Mahadasu, Indian Institute of Technology Bombay (INT. AUD.: 4)  
Poster Station: 1C  
Speaker: Pradeep Mahadasu
- 1500 ..... **Multi azimuth survey design for a complex carbonate reservoir in offshore Spain**  
German Ocampo, Guillermo Marro, Pedro Muñoz, Carlos Gordillo, and Pablo Ortola, Repsol; Miguel Polanco, Jaguar Exploration; Mauricio Hanzich, and Juan-Esteban Rodríguez, BSC; Josep De La Puente, Barcelona Supercomputing Center (INT. AUD.: 5)  
Poster Station: 1D  
Speaker: German Ocampo

#### Unconventional Resources

*Session Chair(s): Dolores Van Der Kolk and Beau Tinnin*

##### Exhibition Hall

- 1400 ..... **Hydrocarbon generation and expulsion characteristics of lower-middle Permian Lucaogou formation in Jimusar sag, eastern margin, Junggar basin, northwest China: Implications for tight oil accumulation potential**  
Tao Hu, and Xiongqi Pang, China University of Petroleum-Beijing (INT. AUD.: NA)  
Poster Station: 11A  
Speaker: Tao Hu
- 1420 ..... **Prediction and quantitative characterization of porosity for shale gas reservoir**  
Zhuang Xu, and Wanzhong Shi, China University of Geosciences (INT. AUD.: 5)  
Poster Station: 11B  
Speaker: Zhuang Xu
- 1440 ..... **The structural characteristics of nanopores in the marine shale of lower Paleozoic in Southeastern Sichuan basin, China**  
Nyujia Peng, and Sheng He, China University of Geosciences (Wuhan) (INT. AUD.: NA)  
Poster Station: 11C  
Speaker: Nyujia Peng
- 1500 ..... **Membrane morphology of organic-rich Eagle Ford Shale and its implications for rock surface-fluid interaction**  
Anton Padin, Sebastian Ramiro, Azra Tutuncu, and Steve Sonnenberg, Colorado School of Mines (INT. AUD.: 2)  
Poster Station: 11D  
Speaker: Anton Padin

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## Monday Mid-Afternoon Poster Sessions

### Anisotropy and Full Waveform Inversion

*Session Chair(s): Laurie Whitesell*

*Exhibition Hall*

- 1600 ..... **Using second-order adjoint state methods in GPUS to quantify resolution on full waveform inversions**  
Sergio Abreo, Ana Ramirez, and Oscar Mauricio Reyes Torres, Universidad Industrial de Santander (INT. AUD.: 4)  
Poster Station: 7A  
Speaker: Sergio Abreo
- 1620 ..... **Hessian matrix estimation from a sub-sampled set of columns**  
Juan Sebastián López Guerra, Ana Ramirez, and Sergio Abreo, Universidad Industrial de Santander (INT. AUD.: NA)  
Poster Station: 7B  
Speaker: Juan Sebastián López Guerra
- 1640 ..... **Withdrawn**
- 1700 ..... **P-wave slowness surface approximation for tilted orthorhombic media**  
Qi Hao, and Alexey Stovas, Norwegian University of Science and Technology (INT. AUD.: 3)  
Poster Station: 7D  
Speaker: Qi Hao

### Asia Petroleum Systems

*Session Chair(s): Gihan El Bakry Omara*

*Exhibition Hall*

- 1600 ..... **Predicting potential carbonate reservoirs exploration targets based on key factors controlling hydrocarbon accumulation — a case study from the lower Ordovician Yingshan formation in Tazhong area, NW China**  
Weibing Shen, and Xiongqi Pang, China University of Petroleum (INT. AUD.: 4)  
Poster Station: 2A  
Speaker: Weibing Shen
- 1620 ..... **Ages and depositional environments of Barents Sea petroleum**  
Benedikt Lerch, and Dag Karlsen, University of Oslo; Reinert Seland, Noreco (INT. AUD.: NA)  
Poster Station: 2B  
Speaker: Benedikt Lerch
- 1640 ..... **Development and calibration of new natural gas d13c and d2h reference standards**  
Robert Dias, and Geoff Ellis, USGS; Dennis Coleman, ISOTECH Inc (INT. AUD.: 5)  
Poster Station: 2C  
Speaker: Robert Dias

### Fracture Reservoirs and Seismic Characterization

*Session Chair(s): Romina Portas and Donny Loughry*

*Exhibition Hall*

- 1600 ..... **Preliminary study on the pore characterization of different marine shale reservoirs using low pressure adsorption method: a case study of the lower Cambrian and upper Ordovician-lower Silurian, Yangtze area, China**  
Sile Wei, Sheng He, and Ping Li, China University of Geosciences (Wuhan) (INT. AUD.: 4)  
Poster Station: 10A  
Speaker: Sile Wei
- 1620 ..... **A new type of tight oil formed by the participation of mantle-magmatic hydrothermal fluid**  
Yiqun Liu, Northwest University (INT. AUD.: NA) Poster Station: 10B  
Speaker: Yiqun Liu
- 1640 ..... **NMR T2 cut-off determination for shales**  
Nadia Testamanti, Reza Rezaee, and Ali Saeedi, Curtin University (INT. AUD.: 3)  
Poster Station: 10C  
Speaker: Nadia Testamanti
- 1700 ..... **Understanding of natural fractures in the Woodford shale to improve hydrocarbon production**  
Romina Portas, ConocoPhillips; Roger Slatt, University of Oklahoma (INT. AUD.: 3)  
Poster Station: 10D  
Speaker: Romina Portas

# Technical Program

## Poster Sessions

### Non Clastic Reservoir

*Session Chair(s): Bryon Solarte*

#### *Exhibition Hall*

- 1600 ..... **Anatomy of a latest Chattian carbonate ramp with larger foraminifera and coralline algae (Prebetic domain; SE Spain)**  
Telm Bover-Arnal and Carles Ferràndez-Cañadell, Universitat de Barcelona; Julio Aguirre, Universidad de Granada; Eduard Albert-Villanueva, Universitat de Barcelona; Mateu Esteban, Repsol Exploración S.A.; José Fernández Carmona, Szalai Grup S.L.; Ramon Salas, Universitat de Barcelona (INT. AUD.: 1)  
Poster Station: 5A  
Speaker: Telm Bover-Arnal
- 1620 ..... **Predicting thin dolomitized gas reservoirs by integrating outcrop, core, wireline log and 3D seismic data in Permian-Triassic Sichuan basin, China**  
Hongliu Zeng, and Xavier Janson, Bureau of Economic Geology; Anjiang Shen, PetroChina Hangzhou Research Institute of Geology, China; Zhanfeng Qiao, and Jianfeng Zheng, PetroChina Hangzhou Research Institute of Geology, China; Bob Loucks, University of Texas at Austin (INT. AUD.: 3)  
Poster Station: 5B  
Speaker: Hongliu Zeng
- 1640 ..... **Withdrawn**
- 1700 ..... **Reservoir properties and 3D geological modeling of carbonates deposits: Coquina outcrop analogue study in Morro do Chaves formation, Sergipe- Alagoas basin**  
Antônio Jorge Garcia, Gustavo Garcia, Márcio Vinicius Dantas, Samuel Alécio Figueiredo, Karen Ariadne Santos, Thaylane Marina Melo, and Larissa Rocha, PROGEOLOGIA/UFS (INT. AUD.: 3)  
Poster Station: 5D  
Speaker: Gustavo Garcia

### Tuesday Mid-Morning Poster Sessions

#### Geochemistry Characterization of Source Rock

*Session Chair(s): Gihan El Bakry Omara*

#### *Exhibition Hall*

- 1100 ..... **Origin of natural gas in the Polish outer Carpathians**  
Maciej Kotarba, AGH University of Science and Technology (INT. AUD.: 4)  
Poster Station: 1A  
Speaker: Maciej Kotarba
- 1120 ..... **Withdrawn**
- 1140 ..... **From geophysics to petroleum systems within geological frame of Romania**  
Elena-Rodica Stoica-Negulescu, Oil & Gas University of Ploiesti (INT. AUD.: 4)  
Poster Station: 1C  
Speaker: Elena-Rodica Stoica-Negulescu
- 1200 ..... **Geochemistry characters of effective source rocks in block D of Irrawaddy basin, Myanmar**  
Zhang Huimin, and Zhang Zhihuan, College of Geosciences, China University of Petroleum, Beijing; Luo Mengjiao, College of Geosciences, China University of Petroleum, Beijing (INT. AUD.: 3)  
Poster Station: 1D  
Speaker: Zhang Huimin

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## Sequence Stratigraphy and Sedimentology

*Session Chair(s): Elhamy Tarabees*

*Exhibition Hall*

- 1100 ..... **Prodelta hyperpycnites: Facies, processes and reservoir significance. Examples from the lower cretaceous of Russia**  
Carlos Zavala, Mariano Arcuri, Mariano Di Meglio, and Agustin Zorzano, GCS Argentina; Victor Hugo Goitia Antezana, and Luis Roberto Arnez Espinosa, EUROTEK-YUGRA (INT. AUD.: 3)  
Poster Station: 4A  
Speaker: Carlos Zavala
- 1120 ..... **Sedimentological reappraisal of mass-flow sandstones, Fulmar formation play, UK central North Sea**  
Ikenna Okwara, and Gary Hampson, Imperial College London (INT. AUD.: 3)  
Poster Station: 4B  
Speaker: Ikenna Okwara
- 1140 ..... **Litho 2: Enabling the power of mobile devices and cloud computing for creating comprehensive sedimentary logs from outcrop, core and mud logging**  
Javier Iparraguirre, Universidad Tecnológica Nacional; Carlos Zavala, GCS Argentina; Mariano Arcuri, Mariano Di Meglio, and Agustin Zorzano, GCS Argentina (INT. AUD.: 1)  
Poster Station: 4C  
Speaker: Javier Iparraguirre
- 1200 ..... **Withdrawn**

## Stratigraphy, Biostratigraphy, and Applied Paleontology

*Session Chair(s): Giada Bufarale*

*Exhibition Hall*

- 1100 ..... **Withdrawn**
- 1120 ..... **Chattian larger foraminifera from the Benitaxell range (Prebetic domain, se Spain). Discussion on the characterization of shallow Benthic zone 23**  
Carles Ferràndez-Cañadell, and Telm Bover-Arnal, Universitat de Barcelona (INT. AUD.: 4)  
Poster Station: 11B  
Speaker: Telm Bover-Arnal
- 1140 ..... **Strontium-isotope stratigraphy and ammonoid biostratigraphy of the late Barremian-early Albian succession from the Maestrat basin (e Iberia)**  
Telm Bover-Arnal, Universitat de Barcelona; Josep Anton Moreno-Bedmar, Universidad Nacional Autónoma de México; Gianluca Frija, Universität Potsdam; Enric Pascual-Cebrian, GeoScience Limited Ramon Salas, Universitat de Barcelona (INT. AUD.: 1)  
Poster Station: 11C  
Speaker: Telm Bover-Arnal
- 1200 ..... **Withdrawn**

## Tuesday Afternoon Poster Sessions

### Applied GPR Method

*Session Chair(s): John Lane Jr. and Laurie Whitesell*

*Exhibition Hall*

- 1400 ..... **Application of the geophysical and geotechnical methods to determine the geotechnical characteristics of a reclaimed land**  
Olusegun Adewoyin, Covenant University, Ota (INT. AUD.: NA)  
Poster Station: 5A  
Speaker: Olusegun Adewoyin
- 1420 ..... **Detection of scouring area in Chamran Square (center of Tehran) by GPR method**  
Usef Aladin, Bahram Yousefi, and Mohammad Reza Memarian, Tehran Engineering & Technical Consulting Organization (INT. AUD.: 6)  
Poster Station: 5B  
Speaker: Mohammad Reza Memarian
- 1440 ..... **GPR noise reduction based on BPD and BPD-EMD**  
Roya Ostoori, University Of Advanced Technology; Ali Goudarzi, Tehran University; Behrooz Oskooi, Institute Of Geophysics (INT. AUD.: 3)  
Poster Station: 5C  
Speaker: Roya Ostoori
- 1500 ..... **The results of the investigation of the archaeological sites with help of geophysics while the SEG field camp 2015 in pursuit of the scythians**  
Georgiy Loginov, Novosibisk State University (INT. AUD.: 1)  
Poster Station: 5D  
Speaker: Georgiy Loginov

### Depositional Systems and Reservoir Characterization

*Session Chair(s): Hebert Montegranario*

*Exhibition Hall*

- 1400 ..... **Fate of the cretaceous rudist buildups in the Arabian basin and its impact on their reservoir characteristics**  
Fadhil Sadooni, Qatar University (INT. AUD.: 5)  
Poster Station: 2A  
Speaker: Fadhil Sadooni
- 1420 ..... **New high-resolution geodynamic and landscape evolution models for Africa from the Permian to the present day**  
Henry Wareham, Getech Group PLC; Laura Hagan, GETECH; Laura Duthie, Amanda Galsworthy, Tom Wiggins, James Martin, Abigail Redmile, Richard Howe, Kate Benny, David Sagi, and Dorothea Eue, Getech Group PLC; Peter Phillips, University of Leeds (INT. AUD.: 4)  
Poster Station: 2B  
Speaker: Paul Carey
- 1440 ..... **Withdrawn**
- 1500 ..... **New interpretation of the depositional systems of the San Pedro basin based on new seismic data (southern Dominican Republic offshore margin)**  
Jose Miguel Gorosabel, Andrés Carbó Gorosabel, José Luis Granja Bruña, Álvaro Rodríguez Zurrutero, and Alfonso Muñoz Martín, Universidad Complutense de Madrid; Laura Gómez De La Peña, Institute of Marine Sciences-CSIC; Antonio Pazos, Real Observatorio de la Armada (INT. AUD.: NA)  
Poster Station: 2D  
Speaker: Jose Miguel Gorosabel

# Technical Program

## Poster Sessions

### Regional Tectonics and Basin Evolution

*Session Chair(s): Ahmed Abdel Aal and Ramadan Ghalayini*

#### Exhibition Hall

- 1400 ..... **The external eastern prebetics: Paper of basement faults in an inverted salt-bearing passive margin**  
Frederic Oriol Escosa, and Eduard Roca, Geomodels Research Institute (INT. AUD.: 5)  
Poster Station: 7A  
Speaker: Frederic Oriol Escosa
- 1420 ..... **Geometry of a fold-and-thrust belt generated by multiple décollements (Kuqa basin, NW China): Insights from analogue and numerical models**  
Oriol Pla, Ana Carmona, Esther Izquierdo, Eduard Roca, Josep Anton Muñoz, Oriol Ferrer, and Stuart Hardy, Universitat de Barcelona; Huiwen Xie, Yuan Neng, and Shaoying Huang, Tarim Oilfield Company, CNPC; Mark Rowan, Mark G. Rowan Consulting, Inc. (INT. AUD.: NA)  
Poster Station: 7B  
Speaker: Oriol Pla
- 1440 ..... **Withdrawn**
- 1500 ..... **Faults and hydrocarbons distribution in the Dongying sag, East China, evidence from structural interpretation and multifractal geometry**  
Pengfei Wang, Unconventional Gas Research Institute of China University of Petroleum (Beijing)  
(INT. AUD.: 4)  
Poster Station: 7D  
Speaker: Pengfei Wang

### Reservoir Characterization 2

*Session Chair(s): Jorge Reveron*

#### Exhibition Hall

- 1400 ..... **Water encroachment surveillance and development strategy for production of oil from lower Burgan reservoir: North Kuwait**  
Ali Khan, Kuwait Oil Company (INT. AUD.: 4)  
Poster Station: 9A  
Speaker: Ali Khan
- 1420 ..... **Withdrawn**
- 1440 ..... **Withdrawn**
- 1500 ..... **Organic rich facies in the Lewis shale as an oil and gas source rock, greater Green River basin, Wyoming. United States.**  
Carolina Mayorga, The University of Oklahoma; Roger Slatt, University of Oklahoma; David Pyles, University of Colorado (INT. AUD.: 3)  
Poster Station: 9D  
Speaker: Carolina Mayorga

### Tuesday Mid-Afternoon Poster Sessions

#### AVO and Seismic Inversion

*Session Chair(s): Carlos Cobos*

#### Exhibition Hall

- 1600 ..... **Integrating geological attributes with a multiple linear regression of geophysical well logs to estimate the permeability of carbonate reservoirs in Campos basin - Southeastern Brazil**  
Paula Almeida, and Abel Carrasquilla, uenf (INT. AUD.: 5)  
Poster Station: 8A  
Speaker: Abel Carrasquilla
- 1620 ..... **Assessing GPR and multi-electrode earth resistivity methods for high resolution modeling of stromatolites as petroleum reservoir analogues. The case of Chapada Diamantina (Brazil).**  
Albert Casas, University of Barcelona (INT. AUD.: 3)  
Poster Station: 8B  
Speaker: Albert Casas
- 1640 ..... **A study of PS wave AVO**  
Young-Fo Chang, National Chung Cheng Univ; Jai-Wei Liu, National Chung Cheng University  
(INT. AUD.: 3)  
Poster Station: 8C  
Speaker: Young-Fo Chang
- 1700 ..... **Withdrawn**

#### Miscellaneous Applied Near Surface Methods

*Session Chair(s): John Lane Jr. and Laurie Whitesell*

#### Exhibition Hall

- 1600 ..... **Integrated interpretation of potential field and reflection seismic data from the Orsa area of the Siljan impact crater, central Sweden**  
Harbe Muhammad, Christopher Juhlin, and Alireza Malehmir, Uppsala University (INT. AUD.: NA)  
Poster Station: 6A  
Speaker: Harbe Muhammad
- 1620 ..... **Occam's inversion of vertical electrical sounding data to identify hot groundwater in geothermal prospect area in Bumiaji area, Malang, Indonesia**  
Mariyanto Mariyanto, and Has Priahadana, Institute of Technology Bandung (INT. AUD.: 4)  
Poster Station: 6B  
Speaker: Mariyanto Mariyanto
- 1640 ..... **Withdrawn**
- 1700 ..... **Magnetic and radiometric signature in soils above hydrocarbon accumulations**  
Henry Martinez Gomez, Universidad de Los Andes; Jose Jaramillo, Gmas Lab (INT. AUD.: 1)  
Poster Station: 6D  
Speaker: Henry Martinez Gomez

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## Reservoir Characterization 1

Session Chair(s): *Brian O'Connell*

Exhibition Hall

- 1600 ..... **Quantification of net-to-gross and oil impregnation in bioturbated heterolithic clastic reservoirs using core photographs**  
Javier Iparraguirre, Universidad Tecnológica Nacional, Facultad Regional Bahía Blanca; Mariano Arcuri, Carlos Zavala, Mariano Di Meglio, and Agustin Zorzano, GCS Argentina; Victor Hugo Goitia Antezana, and Luis Roberto Arnez Espinosa, EUROTEK-YUGRA (INT. AUD.: 3)  
Poster Station: 10A  
Speaker: Javier Iparraguirre
- 1620 ..... **Rock type analysis and reservoir characterization of 1000 wells using computational classification techniques**  
Mariano Arcuri, Carlos Zavala, Mariano Di Meglio, and Agustin Zorzano, GCS Argentina; Javier Iparraguirre, Universidad Tecnológica Nacional; Emilia Buciak, Juan Mariano Herrera, and Leandro Venara, Pluspetrol (INT. AUD.: 3)  
Poster Station: 10B  
Speaker: Mariano Arcuri
- 1640 ..... **Reservoir characterisation by integration of outcrop analog with in situ stress profiling of a fractured carbonate reservoir**  
Jon Gutmanis, GeoScience Limited (INT. AUD.: 3)  
Poster Station: 10C  
Speaker: Jon Gutmanis
- 1700 ..... **Lateral distribution of petrophysical properties on clastic Mangahewa formation, Maui field, New Zealand**  
AKM Haque, Aminul Islam, and Mohamed Shalaby, Universiti Brunei Darussalam (INT. AUD.: 5)  
Poster Station: 10D  
Speaker: Akm Haque

## Seismic Interpretation

Session Chair(s): *Ahmed Adnan Aqrabi and Refaat Mohamed Zaki*

Exhibition Hall

- 1600 ..... **Petroleum exploration opportunities in the joint development zone (JDZ) revealed by quantitative seismic interpretation**  
Muhammad Tamannai, Sam Hosseinzadeh, and Matthew Tyrrell, PGS (INT. AUD.: 3)  
Poster Station: 3A  
Speaker: Muhammad Tamannai
- 1620 ..... **Using 2-D seismic data to determine the role of bedrock structures in the location and nature of the oil traps in onshore oil field, northern Nile delta**  
Elhamy Tarabees, Damanhour University; Salah Shebl, EPRI, Egypt (INT. AUD.: 3)  
Poster Station: 3B  
Speaker: Elhamy Tarabees
- 1640 ..... **3D seismic characterisation and petroleum significance of shallow faults on the Shijituo uplift, Bohai Bay basin, China**  
Zhongheng Sun, and Huayao Zou, China University of Petroleum; Fang Hao, State Key Laboratory of Geological Processes and Mineral Resources (INT. AUD.: 4)  
Poster Station: 3C  
Speaker: Zhongheng Sun
- 1700 ..... **Controls on the stratigraphic architecture of fluvial sandstone reservoirs, Gulf of Thailand**  
Mirza Ahmad, Abdus Salam School of Sciences, Nusrat Jehan College; Joseph Lambiase, Chulalongkorn (INT. AUD.: 6)  
Poster Station: 3D  
Speaker: Mirza Ahmad

# Technical Program

## Poster Sessions

### Wednesday Mid-Morning Poster Sessions

#### Geohazards

*Session Chair(s): Marian Popescu*

#### Exhibition Hall

- 1100 ..... **Seismic geomechanics of mud volcanoes**  
Rashad Gulmammadov, University of Manchester (INT. AUD.: 3)  
Poster Station: 11A  
Speaker: Rashad Gulmammadov
- 1120 ..... **CO<sub>2</sub> storage site at a volcanic sill structure in a sedimentary basin in the Korean continental shelf, Yellow Sea**  
Moo-Hee Kang, Gee-Soo Kong, and Kyong-O Kim, Korea Institute of Geosciences and Mineral Resources; Jin-Ho Kim, Korea Institute of Geoscience and Mineral Resources (INT. AUD.: 2)  
Poster Station: 11B  
Speaker: Jin-Ho Kim
- 1140 ..... **Application of the dc resistivity method to landslide study case study: RATE?TI church area**  
Rasvan Stochici, and Constantin Diacopolos, Institute of Geodynamics (INT. AUD.: NA)  
Poster Station: 11C  
Speaker: Rasvan Stochici
- 1200 ..... **Magnetotelluric surveys in inaccessible geodynamic active places from the curvature of the oriental Carpathians**  
Rasvan Stochici, and Marian Popescu, Institute of Geodynamics (INT. AUD.: 6)  
Poster Station: 11D  
Speaker: Marian Popescu

#### Hydrology and Hydrogeophysics

*Session Chair(s): Laurie Whitesell*

#### Exhibition Hall

- 1100 ..... **Two dimension resistivity imaging/tomography for hydrogeological study in Bazian basin - west Sulaimani City, Kurdistan region-Iraq**  
Ezzadin Baban, and Bakhtiar Aziz, University of Sulaimani (INT. AUD.: 5)  
Poster Station: 8A  
Speaker: Bakhtiar Aziz
- 1120 ..... **Geoelectric sounding and hydrochemical investigations for groundwater potentiality in the area west of the river Nile, Assiut, Egypt**  
Mohamed Ebraheem, Assiut University (INT. AUD.: 5)  
Poster Station: 8B  
Speaker: Mohamed Ebraheem
- 1140 ..... **Comparison of resolution capacity of different electrode arrays in delineating fractured zones using electrical resistivity modelling**  
Lukumon Adeoti, Seun Afolabi, and Kehinde Ishola, University of Lagos; Bolaji Adegbola, Lagos State University (INT. AUD.: 5)  
Poster Station: 8C  
Speaker: Lukumon Adeoti
- 1200 ..... **Assessment of the sustainability of a borehole for a small town water supply scheme in Mim-Kyemfre in the Kwahu Afram plains north district-Ghana**  
Evans Kofi, University of Ghana, Legon (INT. AUD.: 5)  
Poster Station: 8D  
Speaker: Evans Kofi

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## Miscellaneous

**Session Chair(s): Samir Abdelmoaty**

**Exhibition Hall**

- 1100 ..... **Global stochastic inversion for under-sampled reservoirs**  
Astrid Fernandez, Ruben Nunes, and Amilcar Soares, Instituto Superior Tecnico; Dario Cersosimo, and Miles Leggett, Galp Energia; Leonardo Azevedo, Instituto Superior Tecnico (INT. AUD.: 3)  
Poster Station: 1A  
Speaker: Astrid Fernandez
- 1120 ..... **Cable noise analysis and suppression in DAS-VSP data**  
Zhidong Cai, Yanhua Wang, Congwei Liu, and Qinghong Zhang, BGP; Xiaoyin Xu, China University of Geosciences (Beijing) (INT. AUD.: 3)  
Poster Station: 1B  
Speaker: Zhidong Cai
- 1140 ..... **Hybrid domain parallel algorithm for 3D Kirchhoff prestack depth migration**  
Changhai Zhao, BGP, CNPC; Jianlei Zhang, BGP; Guoan Luo, University of Utah; Quanshun Cui, and Chengxiang Wang, BGP.CNPC (INT. AUD.: 5)  
Poster Station: 1C  
Speaker: Changhai Zhao
- 1200 ..... **Mapping of basement relief and volcanic intrusions of Parecis basin in Brazil based on 3D magnetotelluric imaging and potential field data**  
Emanuele La Terra, Leonardo Vital, Isabella Santos, and Leonardo Miquelutti, National Observatory; Sergio Fontes, Observatorio Nacional (INT. AUD.: NA)  
Poster Station: 1D  
Speaker: Emanuele La Terra

## Sedimentology

**Session Chair(s): To Be Determined**

**Exhibition Hall**

- 1100 ..... **Provenance analysis and petroleum geological significance of shallow-sea gravity flow sandstones from Huangliu formation in Yinggehai basin, South China Sea**  
Yintao Huang, and Guangqing Yao, China University of Geosciences (INT. AUD.: NA)  
Poster Station: 4A  
Speaker: Yintao Huang
- 1120 ..... **Reservoir architecture of a low net-to-gross fluvial succession based on integration of channel-body geometry and paleosol characterization**  
Oscar J. Arevalo, Nigel P. Mountney, and Luca Colombera, Fluvial & Eolian Research Group, School of Earth and Environment, University of Leeds, UK. (INT. AUD.: 4)  
Poster Station: 4B  
Speaker: Oscar J. Arevalo
- 1140 ..... **Stratigraphic evolution of a paleopolar topset-clinoform system: Upper cretaceous Schrader Bluff-Prince Creek formations, arctic Alaska, U.S.A.**  
Dolores van der Kolk, and Peter Flaig, The University of Texas at Austin; Stephen Hasiotis, the University of Kansas (INT. AUD.: 3)  
Poster Station: 4C  
Speaker: Dolores van der Kolk
- 1200 ..... **Late Holocene record of sedimentologic and paleoceanographic events in western Guaymas basin, Gulf of California**  
Mary McGann, John Barron, and Brian Edwards, USGS; Juan Carlos Herguera, CICESE; Charles Paull, Roberto Gwiazda, Krystle Anderson, and Eve Lundsten, MBARI (INT. AUD.: 4)  
Poster Station: 4D  
Speaker: Juan Carlos Herguera

# Field Trip

## FIELD TRIP: Thrust Belt Structure and Foreland Basin Evolution in the Southern Pyrenees, Aragon, Spain

**LEADERS:** Antonio Teixell, Universitat Autònoma de Barcelona, Spain and Antonio Barnolas, Independent Consultant, Madrid, Spain

**DATE:** Thursday-Sunday, 7–10 April 2016, following AAPG|SEG ICE meeting in Barcelona

**LOCATION:** Begins and ends in Barcelona, Spain; Lodging during the trip (three nights) in Jaca, Spain

**TUITION:** \$2,100 USD (increases to \$2,300 on 21 February 2016) + 21% VAT; includes guidebook and course materials, internal and roundtrip transportation from Barcelona, lodging, and all meals. No refunds for cancellations after 19 February 2016.

**LIMIT:** 22 people

**CONTENT:** 2.75 CEU

### WHO SHOULD ATTEND?

Exploration and development geologists and geophysicists interested in fold and thrust structures and tectonics-sedimentation interactions in compressional belts and foreland basins.

### OBJECTIVES

In this field trip, participants will examine:

- Thrust structures and fault-related folds formed in diverse habitats, from deep basinal settings to the earth's surface
- Patterns of growth strata in areas with syn-sedimentary folding
- The basic principles of the architecture and kinematics of foreland basins, including deep-water turbidite systems and proximal alluvial fans

### CONTENT

The Spanish Pyrenees provide world-class models for thrust tectonics and syn-orogenic sedimentation. During the field seminar, we will examine illustrative outcrops of thrusts, fault-related folds, stratal architectures, and facies of depositional systems affected by growing structures, which are good analogues for hydrocarbon reservoirs. The seminar will cover a transect of the southern Pyrenees in Spain, where thrust-fold geometries are well-exposed and suitable for conceptual discussion. Syn-orogenic sediments range from deep-water turbidites to shallow marine and terrestrial molasse. Turbidites include debris sheets ("megaturbidites") that have produced gas. Molasse sediments are perturbed by growth anticlines and exhibit intraformational unconformities related to observable thrust faults.

The first day comprises the travel from Barcelona to Jaca and a general presentation to the trip after the arrival, including the geology of the Pyrenees and an introduction to the concepts to be studied. On the next day, the fieldwork is initiated in the scenic Aragüés valley, studying thrust-fold geometries and deformed syn-orogenic turbidites. The classic turbidite and breccia deposits of the Hecho group of the Jaca basin, which produce gas, will be analyzed. The third day will be devoted to recognizing the relationships between deep-water turbidites and shallow-water carbonates of the basin margin, and to examine the evolution from the turbidites to the deltaic and alluvial systems of the final molassic infill of the basin. In the afternoon, we will study growth strata and related unconformities at the internationally known example of the Pico del Aguila anticline. The last day involves a reconnaissance of the south Pyrenean mountain front at Riglos (Gallego gorge), analyzing interactions between growing thrust structures and proximal alluvial fan conglomerates, and concludes with the return to Barcelona in the evening.

The field trip takes place in beautiful mountain scenery, which is a plus to the geology. During the days of the trip, lodging will be in a comfortable hotel in the tourist/historic town of Jaca, a famous center for winter and summer leisure activities. Accompanying guests may enjoy visits to the 11<sup>th</sup> century Romanesque cathedral and the 16<sup>th</sup> century fortress. Fieldwork involves some walking in mountain terrain, always along safe and well-marked trails. In addition to warm clothes and a raincoat, we recommend hiking boots, sun protection cream, and a hat.



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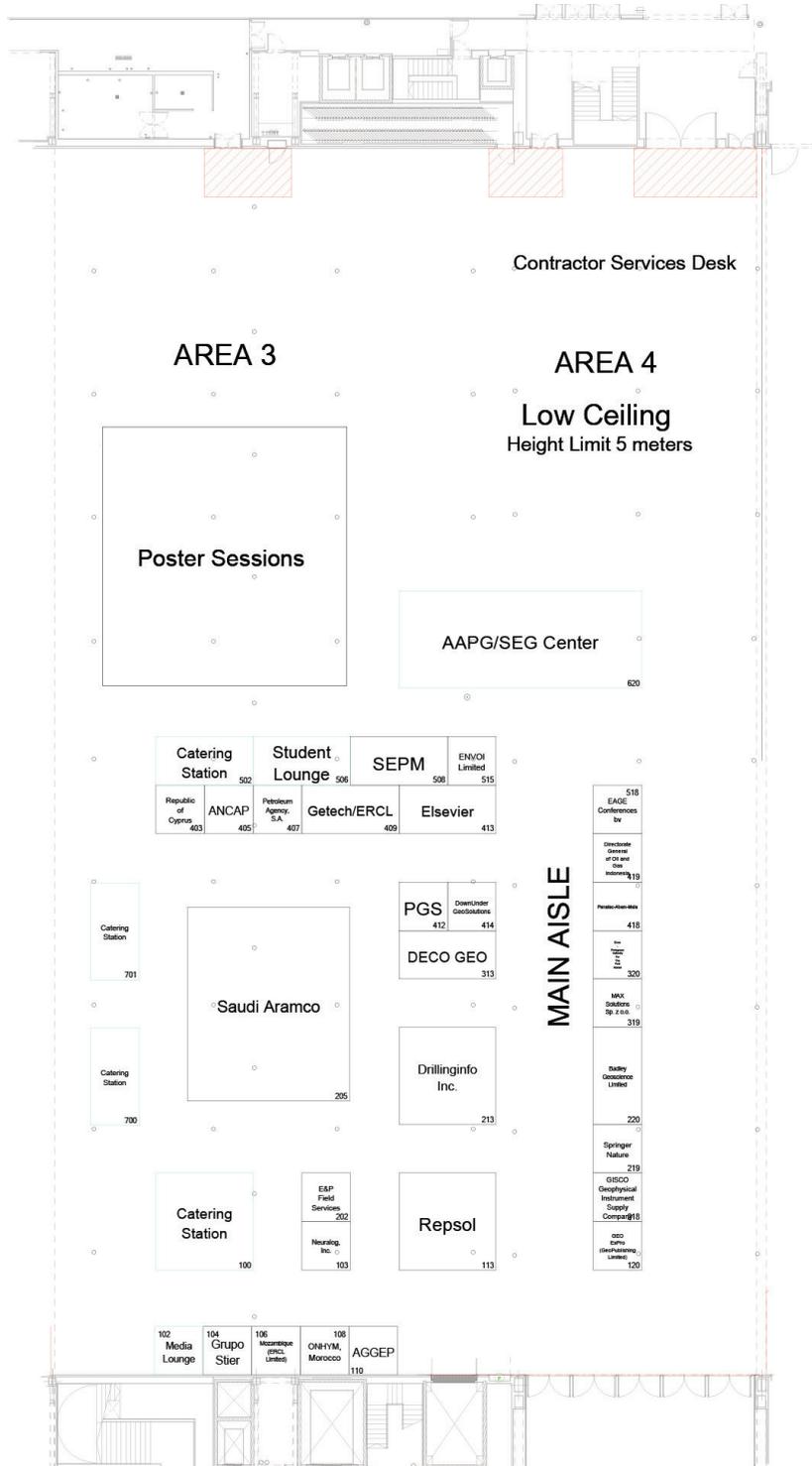
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