WE AGREE.

Chevron proudly supports OTC Brazil.

Different perspectives bring different strengths. At Chevron, our diverse workforce and inclusive work environment help us find better options, make better decisions, and reach better solutions in everything we do. Whether it’s our employees or our partners, diversity and inclusion are at the core of who we are and how we do business.

Learn more at chevron.com
OTC Organizations

Sponsoring Organizations

American Association of Petroleum Geologists
American Institute of Chemical Engineers
American Institute of Mining, Metallurgical, and Petroleum Engineers
American Society of Civil Engineers
American Society of Mechanical Engineers
Institute of Electrical and Electronics Engineers, Oceanic Engineering Society
Marine Technology Society
Society of Exploration Geophysicists
Society for Mining, Metallurgy, and Exploration
Society of Petroleum Engineers
The Minerals, Metals & Materials Society
SNAME

Regional Sponsoring Organization

Brazilian Petroleum, Gas and Biofuels Institute

Endorsing Organizations

International Association of Drilling Contractors
Petroleum Equipment Suppliers Association

About the Offshore Technology Conference (OTC)
OTC is where energy professionals meet to exchange ideas and opinions to advance scientific and technical knowledge for offshore resources and environmental matters. Founded in 1969, OTC’s flagship conference is held annually at NRG Park in Houston. OTC has expanded technically and globally with the Arctic Technology Conference, OTC Brasil, and OTC Asia.

About the Brazilian Petroleum, Gas and Biofuels Institute (IBP)
Founded in 1957, IBP is a private, non-profit organization focused on promoting the development of Brazilian oil, gas and biofuels industry in a competitive, sustainable, ethical and socially responsible environment. Today, IBP gathers more than 200 companies’ members, and it is recognized as an important industry representative for its technical knowledge and for fostering the related to its biggest issues. Organizer of the main oil and gas events in Brazil, such as Rio Oil & Gas and OTC Brasil, IBP also develops technical courses and it is also responsible for standardization, certification of inspection services and technical publications. Learn more at www.ibp.org.br.
A global company in the Brazilian pre-salt

Galp is an integrated energy company, present in 11 countries. Operating in Brazil for 20 years, Galp was one of the pioneering companies on the development of some the most important projects in the pre-salt of the Santos Basin.

Currently, we are the third largest oil and gas producer in the country, with participations in 21 projects, and actively contributing for the development of some of the largest oil reserves in the world.

Petrogal Brasil S.A.
Joint Venture
Galp | Sinopec
Thank You to Our Sponsors

Master Sponsor

Platinum Sponsors

Gold Sponsors

Silver Sponsors

Bronze Sponsors

Official Partners

FPSO Arena Sponsor

Subsea Arena Sponsor

Support

Institutional Support
Conheça AIRIS, Artificial Intelligence RSB Integrated System, o supercomputador dedicado à pesquisa científica no Brasil.

Resultado da parceria entre a Repsol Sinopec Brasil e o SEIÚI CIMATEC, AIRIS representa um avanço no uso de ferramentas de machine learning e inteligência artificial, além de acelerar o uso de grandes bancos de dados para obter resultados mais eficazes.

É o investimento em pesquisa e tecnologia impulsionando a transformação digital do setor de energia.
Welcome Message :: Mensagem de Boas-Vindas

Renato Pinheiro
Program Committee Chair
Petrobras

Welcome to OTC Brasil 2019 where the brightest minds in offshore exploration and production are taking part in a tradition of technical excellence. Themed “Strengthening Deepwater for the Future,” OTC Brasil is the ideal venue to get up to date on the current progress and future challenges in the Brazilian offshore industry.

Modeled after the prestigious Offshore Technology Conference (OTC) Awards, we will honor the recipients of the Distinguished Achievement Awards. Join us to congratulate these recipients during the awards luncheon on Wednesday presented by Roberto Castello Branco, Petrobras CEO.

This year’s technical program includes 200+ papers, 41 technical sessions, 3 general plenary sessions, 16 panel sessions, 3 breakfasts and 3 topical luncheons.

For the first time at OTC Brasil, the exhibition will offer interactive sessions in the newly created Offshore Arena covering topics like FPSOs, subsea solutions, renewables, and digital transformation in the offshore sector.

OTC Brasil continues an OTC tradition of focusing on innovative technologies and practices that improve safety, production and efficiency. Pre-salt reservoirs, addressing challenges in drilling, completion, subsea systems and decommissioning are just a few of the topics to be discussed during the conference.

Please set aside time to visit the exhibition that showcases the latest technologies and equipment.

We would like to thank our sponsors and exhibitors for their participation. Without their generosity and support, this conference would not be possible.

Enjoy the conference and the vibrant city of Rio de Janeiro!

Bem-vindo à OTC Brasil 2019, onde as mentes mais brilhantes da exploração e produção offshore participam de um tradicional evento com reconhecida excelência técnica. Com o tema “Strengthening Deepwater for the Future”, a OTC Brasil é a plataforma perfeita para se atualizar sobre o cenário e os futuros desafios da indústria offshore brasileira.

A exemplo dos reconhecidos prêmios da Offshore Technology Conference (OTC), este ano serão entregues na OTC Brasil, o Distinguished Achievement Awards. Venha homenagear seus vencedores e participar conosco da cerimônia de premiação que acontecerá na quarta-feira, 30 de outubro, durante o almoço que terá como palestrante Roberto Castello Branco, Presidente da Petrobras.

Este ano o programa técnico apresentará mais de 200 trabalhos técnicos, 41 sessões técnicas, 3 sessões plenárias, 16 sessões-painéis, 3 cafes-da-manhã-palestra e 3 almoços- palestras. Os principais líderes mundiais da indústria offshore de petróleo e gás irão debater soluções e perspectivas para o mercado brasileiro.

Pela primeira vez na OTC Brasil, a exposição oferecerá sessões interativas na recém-criada Arena Offshore, abordando temas como FPSOs, soluções submarinas, renováveis e transformação digital no setor offshore.

A OTC Brasil mantém a tradição da OTC de dar foco em práticas tecnológicas inovadoras e no aperfeiçoamento da produção, eficiência e segurança. Serão debatidos durante a conferência, dentre outros assuntos, reservatórios do pré-sal, desafios da perfuração e completação, sistemas submarinos e desconcessamento.

 Reserve um pouco do seu tempo para visitar a exposição e conhecer as últimas tecnologias e equipamentos do setor.

Agradecemos aos nossos patrocinadores e expositores por sua participação. Sem a sua generosidade e apoio este evento não seria possível.

Aproveite a OTC Brasil e a cidade maravilhosa do Rio de Janeiro!
Impulsione a sua carreira.

Por sermos um líder global do setor de óleo e gás, nossos colaboradores atuam nos mais fascinantes e arrojados projetos na área de energia, promovendo inovação e gerando resultados concretos. O entusiasmo, a dedicação e a determinação desses profissionais são o segredo do sucesso da TechnipFMC. Nossa capacidade de oferecer oportunidades promissoras de carreira e de incentivar os colaboradores a vivenciar plenamente nossos valores centrais atrai naturalmente os melhores talentos.

Você quer nos ajudar a solucionar os grandes desafios energéticos mundiais?

Venha para a TechnipFMC.
TechnipFMC.com/careers

Para conferir tudo o que acontece na TechnipFMC, visite-nos no Instagram.
## Conference Information

### Schedule of Events

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<th>Event</th>
<th>Location</th>
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<tr>
<td><strong>Tuesday 29 October</strong></td>
<td></td>
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<tr>
<td>0730–0900</td>
<td><strong>Topical Breakfast: ANP—Twenty Years of Activity and the Vision of the Future and the Opportunities Risen From New Auctions</strong></td>
<td>Room B5</td>
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<tr>
<td>0800–1900</td>
<td>Registration</td>
<td>Ground Floor</td>
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<tr>
<td>0900–1020</td>
<td>Opening Ceremony: <strong>Bento Albuquerque</strong>, Minister of Mines and Energy</td>
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<tr>
<td>1030–1300</td>
<td>Technical Sessions</td>
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<td>1200–2000</td>
<td>Exhibition</td>
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<tr>
<td>1300–1430</td>
<td><strong>Topical Luncheon: Fatih Birol, International Energy Agency</strong></td>
<td>Room B5 / 2nd Floor</td>
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<tr>
<td>1300–1800</td>
<td>Offshore Arena: Subsea Arena—Next Steps Towards All Subsea Solutions</td>
<td>Exhibit Hall / Ground Floor</td>
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<td>Plenary Session</td>
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<tr>
<td><strong>Wednesday 30 October</strong></td>
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<tr>
<td>0730–0900</td>
<td><strong>Topical Breakfast: Successful Integration between Operators and Services providers Validates the Production Sharing model and Increases Pre-salt Global Competitiveness</strong></td>
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<td><strong>Distinguished Achievement Awards Luncheon, presented by Roberto Castello Branco, Petrobras CEO</strong></td>
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<tr>
<td>1300–1800</td>
<td>Offshore Arena: FPSO Arena—Roadmap to Successful FPSO Developments</td>
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<td><strong>Thursday 31 October</strong></td>
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<tr>
<td>0730–0900</td>
<td><strong>Topical Breakfast: The New Paradigm of Innovation</strong></td>
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<td>0800–1900</td>
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<td>0900–1700</td>
<td>Professional of the Future</td>
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**T** = Ticketed event, separate registration required. Registration for Topical Breakfasts is available daily at 0700 on the ground floor.
IBP. Boosting the future of the brazilian oil and gas industry.

The Brazilian Petroleum, Gas and Biofuels Institute (IBP) works comprehensively to create the conditions for the development of the oil, gas and biofuels whole value chain, pursuing a competitive, sustainable, ethical and socially responsible industry.

Welcome to the Home to our Industry.

ibp.org.br

From the 29 to 31 of October 2019, the Home to our Industry will host a booth at OTC Brasil 2019. Come visit us at booth #A18.
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**A MAIOR PRODUTORA INDEPENDENTE DE ÓLEO E GÁS DO BRASIL.**
COMMITTED TO SMART IDEAS
Leading in the deep offshore through successful innovation

#MakeThingsBetter
br.total.com

Total
Committed to Better Energy
General Information

OTC Brasil Headquarters
Room 11, 2nd Floor

Press Room
Room 10, 2nd Floor
Members of the working press are invited to use the facilities in the OTC Brasil Press Room.

Speaker Check-In Room
Room 11, Second Floor
All presenting authors and session chairmen should report to the Speaker Check-In Room 30 minutes prior to their Session. Audiovisual equipment is available for speakers to preview their presentations.

Luggage Check
A luggage check will be available free of charge in the registration area on the ground floor.

Lost and Found
Lost and Found is located in OTC Brasil Headquarters, Room 11, and is open during conference hours.

Food and Beverages
Food and beverages will be available for purchase on-site in:
• Cafeteria on the ground floor and 2nd floor
• Food Square outside, close to the entrance of the convention center
• SulAmérica Convention Center Restaurant outside, close to the entrance

Transportation and Parking
Parking at SulAmérica Convention Center
The cost of parking for visitors is R$ 40.00 per day. Exhibitors may purchase a 3-day ticket for a special price. Prices are subject to change by SulAmérica Convention Center without prior notice.

Airport Transportation
Please contact FollowUp Tours.

Taxi Cabs
Taxi drivers do not expect to be tipped, although the common practice is to tell the driver to ‘keep the change.’ The taxis pick up in front of SulAmérica Convention Center at Rua Beatriz Larragoiti Lucas, 121.

Exhibition Services
Exhibition services are available in the CAEX, located on the ground floor, for any questions or concerns regarding your exhibition booth.

City Tours Information
OTC Brasil, through its travel partner Follow Up Tours, is offering pre- and post-show tours of Brazil. They are also offering local tours during the show for guests and spouses. Follow Up will be operating a desk on site at the 2nd floor close to the escalators.

Proceedings
OTC Brasil 2019 digital proceedings are available as a valuable reference tool after the conference. Full conference attendees will receive a ticket for a complimentary digital proceedings with their badge and may pick up their proceedings in the ground floor exhibits area. Cost is USD 110 for members and USD 175 for nonmembers.

To purchase proceedings from previous OTCs, email books@otcnet.org or call +1.972.952.9494.

Badge Pickup Hours
When you arrive at SulAmérica Convention Center please proceed to the registration area in ground floor to pick up your badge. Plan to arrive early and be prepared to show your government-issued photo ID.

Tuesday, 29 October .......................... 0800–1900
Wednesday, 30 October ....................... 0800–1900
Thursday, 31 October .......................... 0800–1900

Doors open daily at 7:30am for topical breakfasts. Please note the topical breakfasts and luncheons attendance is not included in your general registration. Registration for the luncheons and breakfasts is also available on-site.
O pacote de soluções tubulares inteligentes escolhido pelas operadoras e EPCistas no Brasil.

Conheça mais sobre o Vallourec.smart
www.vallourec.com/br
Publication Bins
OTC Brasil publication bins are located on the ground and 2nd floors. Attendees are encouraged to pick up complimentary issues of the following publications:

**Brasil Energia**
Brasil Energia

**JPT**
Journal of Petroleum Technology

**Offshore Engineer**

**Petro & Química**

**Portos e navios**

**TN Petróleo**

Get your complimentary copy of the official OTC Brasil show daily, produced daily by Upstream.

Policies and Procedures

**Attendee Qualifications**
All delegates and exhibitors are required to wear their OTC Brasil name badge and badge holder at all times. Use of a badge by a person not named on the badge is grounds for confiscation. If you lose your conference badge, please return to Registration to obtain a replacement. No one under 18 years of age will be admitted to OTC Brasil.

**Alcohol Policy**
We recognize the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognize that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly. We strongly oppose the abuse and misuse of alcohol.

**Smoking Policy**
The SulAmérica Convention Center is a nonsmoking facility. Smoking is prohibited in all areas except in designated smoking areas.

**Delegates with Disabilities**
We take pride in ensuring that our meetings and events are accessible to all attendees with special needs. All meeting rooms are wheelchair accessible.

**Consent to Use of Photographic Images**
Attendance at or participation in OTC Brasil and other activities constitutes an agreement by the registrant to OTC’s use and distribution of the registrant’s image or voice in promoting future OTC events in any way OTC deems appropriate.

**Mobile/Cell Phone Policy**
As a courtesy to the speakers and your fellow attendees, please turn off all mobile phones during meetings and sessions.

**Photography Policy**
All OTC Brasil sessions are protected by international copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the exhibition area.

Members of the press are required to report to the Press Room to obtain permission for photography and videography.

**Safety**
One of the key components to the success of OTC Brasil is the safety of our delegates, exhibitors, and presenters.

When traveling, as in any major city, take certain precautions. Always keep your valuables such as jewelry, airline tickets, money, and any important documents, out of sight and safely stored in a hotel safety deposit box. In the event of a lost or stolen room key, notify hotel management as soon as possible. Travel in a group and plan your itinerary before leaving the hotel to ensure you arrive to your destination smoothly.

Due to the popularity of some session topics, it is possible for overcrowding to occur in a session or meeting room. Should this occur, we must comply with the Fire Commander’s policies regarding room capacity and limit admittance to a room that is at capacity. Please make plans to arrive early for sessions that you have a strong interest in attending.

In the event of an emergency at SulAmérica Convention Center, OTC Brasil staff and/or the convention center staff will provide conference delegates with any necessary information and instructions. An emergency procedures video is presented before each session with details for escape routes.

**Emergency Phone Numbers**
Police: 190
Fire Department: 193
SAMU (Medical Emergency): 192
DEAT (Tourist Police): +55 21 2332-2924
Offshore Arena 29-31 October, 1300–1800, Exhibit Floor, Ground Floor
For the first time the exhibition offers Parallel Events with interactive sessions in the newly created Offshore Arena where E&P leaders will unveil FPSOs, subsea solutions, and digital transformation in the offshore sector. Attendees can also experience ground-breaking technologies from BP, ExxonMobil, Royal Dutch Shell, Chevron, Shell, Tenaris, Total, and many others.

NEW THIS YEAR!

29 October
Subsea Arena–Next Steps Towards All Subsea Solutions
Sponsored by:

AkSolutions

1400 Panel Session
E&P Operators - Demands & Drives
MODERATOR
Eduardo Oazen, Petrobras

SPEAKERS
Andrew Kaczmarski, Shell Gustavo Freitas, Petrobras
Adriano Motta, Total Rodrigo Carvalhal, Equinor

1510 Panel Session
Equipment Suppliers - Christmas Trees, Boosting and Processing Solutions to reduce Lead time and enhance ramp-up + solutions to reduce CAPEX + Digital Transformation/Subsea 4.0 adding value and Business models to reduce Operator’s commercial risk
MODERATOR
Marcello Augustus

SPEAKERS
Leandro Arceu, Aker Carlos Tadeu, Onesubsea
Alan Labes, TechnipFMC Sidnei Cororatte, Baker Hughes

1640 Panel Session
Flexible Line Suppliers - Qualifications for harsh conditions regarding the present and future of pre-salt, Solutions to reduce the lead time and enhance Ramp-up, solutions to reduce CAPEX, Digital Transformation/Subsea 4.0 adding value and Business models to reduce Operator’s commercial risk
MODERATOR
Alessandro França, Petrobras

SPEAKERS
Bruno Pitella, NOV Rodrigo Farias, Baker Hughes
Daniela Riva, TechnipFMC

1745 Panel Session
Rigid Line Contractors - Solutions to reduce Lead time and enhance Ramp-up, solutions to reduce CAPEX, Digital Transformation/Subsea 4.0 adding value and Business models to reduce Operator’s commercial risk
MODERATOR
Fabio Braga, Petrobras

SPEAKERS
Otávio Sertiá, Saipem Paulo Veronesi, McDermott
Anderson Dolinski, TechnipFMC Paulo Cesar Martins, Subsea7

1850 Closing Remarks
ARENA CHAIRPERSON
Gustavo Adolfo Freitas, Petrobras

30 October
FPSO Arena: Roadmap to Successful FPSO Developments
Sponsored by:

Modec Life is On Schneider Siemens

Opening Remarks

SPEAKERS
Alberto Morandi, GustoMSC Carlos Mastrangelo, B-In Partners

1410 Panel Session
E&P Operators - Their strategy and ongoing FPSO Developments
SPEAKERS
Maysa Pimenta Goulart, Petrobras Roberto Goulart, Enauta
Andre Leite, Equinor Artur Nunes da Silva, Total

1530 Interview
E&P Operators - Local Content and Competitiveness
MODERATOR
Felipe Maciel, EPBR

SPEAKERS
Alberto Machado, ABIMAQ Luis Bispo, ANP

1600 Panel Session
Designers & Constructors - FPSO designers in Brazil and abroad, modules and shipyards in Brazil and abroad
MODERATOR
Carlos Mastrangelo

SPEAKERS
Mattias Elgstrom, KBR Joao Chachamovitz, Radix
Mauricio Almeida, Estaleirado Enseada Alain Wassink, Gusto
Industry Leader, KeppelFels Industry Leader, Technip

1710 Invited Speaker
SPEAKER
Luis Felipe Kessler, Schneider

1730 Invited Speaker
SPEAKERS
Claudio Makarovsky, Siemens Seichi Ide, Modec

18:10 Closing Remarks

SPEAKERS
Alberto Morandi, GustoMSC Carlos Mastrangelo, B-In Partners

18:15 Cocktail offered by MODEC
This year, the exhibitor list is not available on-site. We encourage you to download the free OTC Brasil 2019 mobile app for easy access to information about the exhibitors and more!
Special Events

**OTC Brasil Cocktail Reception**
Tuesday, 29 October    1900-2100, Casarão
Private event, available for guests only.

**Distinguished Achievement Awards Luncheon**
Wednesday, 30 October    1215–1345, Room B5
During this luncheon the award winners will be recognized, followed by a keynote presentation.

**MODERATOR**
Marcos Assayag, OTC Brasil Chairperson, Independent Oil and Gas Consultant

**KEYNOTE PRESENTER**
Roberto Castello Branco, CEO, Petrobras

OTC Brasil Distinguished Achievement Award for Individuals
Carlos Tadeu Fraga was awarded the Individual Award for his outstanding leadership and key roles in the advancement of deepwater oil and gas production projects in the areas of well construction, subsea and topsides.

OTC Brasil Distinguished Achievement Award for Companies, Organizations, and Institutions
Petrobras was presented with this Award in recognition of its groundbreaking Extended Well Test (EWT) Libra Project. The Libra EWT pushed the concept of the dynamical appraisal to a new dimension.

**Professional of the Future**
Thursday, 31 October    0900–1700, Room B1    |   Advance registration required
The Professional of the Future was created to broaden the horizons of young students interested in the oil and gas industry in Brazil. Focused on debating career challenges, opportunities and professional perspectives in the industry, each session gathers a CEO, a human resources leader, and a young professional to bring to the table career issues for youth talents, their previous experiences, and projections for the future. It also serves to promote and disseminate knowledge about the industry and contribute to the training of young people through engagement with the academic environment.

Theme: The Resumption of Oil and Gas, Opportunities for Young People

What will happen:
• 20 minutes presentations (similar to TED Talks) focused on personal stories about the career of CEOs in the oil and gas industry
• Presentation of a human resources leader to talk about career issues and lessons
• Less formal environment to promote participation

**SPEAKERS**
Alessandra Simões, Head Hunter, UpHill
Eduardo Chamusca, Country Director, SBM Offshore
Volmir Korzeniewski, Country Manager, Aker Solutions
Jaume Vergés, Head of Human Resources and Corporate Innovation, PetroRio

Sponsored by:

= Ticketed event, separate registration required
We see possibilities everywhere.

From renewable energy and cleaner-burning natural gas to advanced fuels and new low carbon businesses, BP is working to make energy cleaner and better.
Mais do que um prêmio, um reconhecimento de que estamos no caminho certo.

A Petrobras ganhou mais uma vez o prêmio Distinguished Achievement Award, na edição brasileira da OTC. E vamos seguir nos movendo, para ser ainda mais inovadores e eficientes.

Petrobras. Energia para transformar.

Saiba mais em petrobras.com.br/nossaenergia
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Petrobras. Energia para transformar.

Mais do que um prêmio, um reconhecimento de que estamos no caminho certo.

—

Saiba mais em petrobras.com.br/nossaenergia
Technical Program: Tuesday, 29 October 2019, 0730–1300

Please note: The technical program is only available in English. All technical sessions are located on the 2nd Floor. Papers are also available in the multi-society library OnePetro®

0730–0900, Room B5

SE01

**Topical Breakfast: ANP—Twenty Years of Activity and the Vision of the Future and the Opportunities Risen From New Auctions**

**MODERATOR**
João Carlos de Luca
De Luca Energy Consulting

**SPEAKER**
Decio Oddone
General Director, ANP

0900–1020, Room B8

Opening Ceremony

**MODERATOR**
Marcos Assayag, OTC Brasil General Chairperson, Independent Oil and Gas Consultant

**SPEAKERS**

Bento Albuquerque
Minister of Mines and Energy

Cindy Yeilding, OTC Board Chairperson, BP

Jose Firmo, President, Brazilian Petroleum, Gas and Biofuels Institute

Wilson Witzel, Governor of the State of Rio de Janeiro

1030–1300, Room B1

SE03

**Panel: Driving Innovation - Faster Concept to Application in the Offshore Industry**

**MODERATOR**
Orlando Ribeiro, Chief Technology Officer, Petrobras

**PANELISTS**

Orlando Ribeiro, Chief Technology Officer, Petrobras

Marie Noelle Semeria, Chief Technology Officer, Total SVP

Marco Brummelhuis, Libra General Manager, Shell

Marcelo Eskenazi, Diretor, Atech, an Embraer Company
Room B8

Lula Complex: 10 Years and 1 Million Barrels Per Day

SESSION CHAIRPERSON(S):
Antonio Capeleiro Pinto, Former Petrobras Executive Manager, Currently PPSA
Cristiano Pinto da Costa, Shell

1030  
Lula Complex: Development, Achievements and Future Perspectives
M.B. Rosa, Lula Complex Reservoir Manager, Petrobras

1045  
Geological Characterization and Modelling of a Unique Carbonate Reservoir
V. Artagão, Lula Development Plan Coordinator, Petrobras

1100  
Geophysical Characterization and Monitoring
N. Martinho Cruz, Geophysics Consultant, Petrobras

1115  
Reservoir Development Strategy - A Journey from Conception to Enhanced Oil Recovery
T.M. Miyakawa, Lula Complex Reservoir Engineer, Petrobras

Room B2

Atlanta Project - Heavy Oil and Ultra-Deepwater in Brazil

SESSION CHAIRPERSON(S):
Danilo Oliveira, Enauta
Christophe Vielliard, Schlumberger

1030 29721
Atlanta Field: Producing Heavy And Viscous Oil In Ultra-deepwater
M.D. Marsili, P. Rocha, I.d. Ferreira, Enauta Energia S.A.

1055 29757
Atlanta Field: Constructing Long Horizontal Wells in a Challenging Environment

1120 29828
Robust Artificial Lift Solution For Ultra Deepwater Heavy Oil Atlanta Field

1145 29686
Atlanta Field: Operational Safety and Integrity Management
J.R. Siqueira, C.A. Pedroso, F. Bastos, Enauta; H. Alves, 4Subsea AS; A. Henriques, S. Wardlaw, Expro

1210 29846
Atlanta Field Development - Present and Future
P.S. Rocha, R.O. Goulart, Enauta Energia; S. Kawathekar, Genesis Oil and Gas; R. Dotta, Technomar Engenharia LTDA

Room B3

Decommissioning Preparedness for Offshore Brazil

SESSION CHAIRPERSON(S):
Armando Rebello, Stress Subsea, Inc.

1030 29712
Decommissioning of Subsea Facilities in Brazil
A. Rebello, Stress Engineering Services, Inc.

1055 29704
An Analytical Method To Combine Environmental Attributes To Generate the Matrix of Importance of Environmental Impacts for the Decommissioning of Subsea Installations in Brazil
L.F. Oliveira, S.B. Schaffel, J. Domingues do Amaral Netto, DNV GL Group

1120 29891
Potential Environmental Impacts of Subsea System Installation and Decommissioning: A New Tool for Comparison of Locational and Technological Alternatives in the Oil and Gas Industry
P.R. Silva, T.A. Silva, E.R. Nicolosi, C.A. Miranda, Petrobras

1145 29834
Brazilian Regulatory Framework: From the Past to the Expectations About the Future
M. Bastos, J. Bastos, B-in Partners

= Ticketed event, separate registration required
**Room B4-1**

**Drilling Waste Disposal - What Lies Ahead?**

**SESSION CHAIRPERSON(S):**

Andre Martins, Petrobras  
Carlos Henrique Abreu Mendes, IBP

1030 29920  
**Subsurface Drilling Waste Injection: Challenges, Recent Advances and Cases Studies**  
S. Benelkadi, E. Bianco, P. Burton, M. Motta, Schlumberger

1055 29835  
**Modeled Environmental Risk of Offshore Drill Cuttings Discharges With Different Drilling Base Fluids**  
D. Lyon, Shell Oil Company; M. Smit, Shell International; B. Lee, Shell Global Solutions; B. Conley, Shell Chemical Company

1120 29746  
**Ecotoxicological Evaluation of Non Aqueous Drilling Fluids Using a Brazilian Native Versus an Exotic Amphipod**  
L.A. Kraus, LABTOX; S.L. Melo, Petrobras Cenpes; M.V. Reynier, LABTOX; L.D. Marinho, L.F. Veiga, Petrobras; B.C. Pereira, L.F. Araujo, D.d. Ximenes, Petrobras Cenpes

1145 29785  
**Corporate Strategy To Tackle Offshore Drilling Discharge Regulation**  
L.S. Marinho, C. Pamphili, S.D. Loureiro, T.L. De Oliveira, A.L. Martins, Petrobras

1210 29964  
**Microwave Drying of Reservoir Drilled Cuttings**  
I. Petri Junior, A.S. Mota, V.P. Barbosa, Universidade Federal de Uberlândia; A.L. Martins, C. Marques de So, Petrobras; M.S. Pereira, C. Aliche, Universidade Federal de Uberlandia

**Room B4-2**

**Advancements in Well Completion and Workover**

**SESSION CHAIRPERSON(S):**

Deepak M Gala, Shell E&P Laboratories  
David Renzi, Stress Engineering Services

1030 29705  
**Implementation of Dissolvable Metals To Isolate Inflow Control Devices and Deliver a Washpipe Free Deep Water Sandface Completion Solution**  
K.J. Johnson, V. Okengwu, B.C. Orluwosu, R. Nolen, J. Hanson, Halliburton; V. Chaloupka, A. ACHICH, Total

1055 29948  
**Application of a Transient Near-Wellbore / Reservoir Simulator for Complex Completions Design**  
R.P. Satti, J. Gilliat, D. Bale, P. Hillis, B. Myers, J. Harper, Baker Hughes, a GE company

1120 29914  
**Perforating The Largest Deepwater Wells In Brazil - Minimizing Shock Loads**  
C.E. Baumann, R.P. Scudino, M.E. Smart, Schlumberger; M. Tsuchie, E. Schnitzler, R. Savoldi Roman, Petrobras

1145 29842  
**New Strategies For Cost Reduction With Depth Correlation In Deepwater Wells**  
Y.S. Pereira, Petrobras - Petroleo Brasileiro SA; R.P. Borges, Schlumberger; E. Schnitzler, R.S. Roman, H.V. Paraski, A.C. Destri, J.A. Destri, D.S. Gozzi, Petrobras - Petroleo Brasileiro SA; C.E. Baumann, C. Merino, Schlumberger

1210 29839  
**Successful Offshore Coiled-Tubing, Permanent Well-abandonment Operation Uses Downhole Real-time Parameters To Set Inflatable Packers With Surgical Precision in a Cost-effective Manner**  
C. Guimaraes, E. Delgado, L.d. Galvao, A.C. Fratte, Halliburton; M. Gouveia, C.A. Borges, Petrobras
### Room 4

#### New Technologies for Reservoir, Production and Geophysics

**SESSION CHAIRPERSON(S):**
- Anna Paula Lougon, Schlumberger
- Aly Brandenburg, Shell

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<tr>
<td>1055</td>
<td>29904</td>
<td>Tuning a Fully Convolutional Network for Velocity Model Estimation</td>
<td>L.R. Campos, P. Nogueira, E.G. Nascimento, Senai CIMATEC</td>
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### Room 5

#### Advanced Materials and Emerging Oilfield Technologies

**SESSION CHAIRPERSON(S):**
- Thomas Shattuck, Deloitte Services LP
- John Wiltshire, University of Hawaii Manoa

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<tr>
<td>1055</td>
<td>29931</td>
<td>Nanoparticles Treatment for Reducing Surfactant Adsorption in Clay Containing Reservoirs</td>
<td>D.K. Agrawal, R. Suresh, Q. Darugar, V.N. Khabashesku, Baker Hughes, a GE company</td>
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<tr>
<td>1145</td>
<td>29756</td>
<td>Aramid Reinforced Thermoplastic Pipes (RTPS) for Transport of Hydrogen Gas</td>
<td>B. Cornelissen, H. Knoester, M. Breed, M. Schipper, Teijin Aramid</td>
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<tr>
<td>1210</td>
<td>29749</td>
<td>Determining Produced Fluid Properties for Accurate Production Profiling During a Drill Stem Test Using Thermal Imaging Technology</td>
<td>D. Lavery, D. Fyfe, Metrol; A.R. Hasan, Texas A&amp;M University</td>
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<tr>
<td>1235</td>
<td>29761</td>
<td>A Detailed Examination Of The Mechanics of Slip Crush When Landing Heavy Casing Strings</td>
<td>R.L. Thibodeaux Jr., Franks International</td>
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### Room 6

#### HSE Innovation - Improving Safety in the Offshore Industry

**SESSION CHAIRPERSON(S):**
- Jerry Carroll, IEEE/Oceanic Engineering Society
- Antonio Amorim, Faculdade De Tecnologia E Ciencias

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<tr>
<td>1030</td>
<td>29681</td>
<td>Proof of Value in Automating the Drill Floor</td>
<td>J.R. Angelle, Frank’s International</td>
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<td>1120</td>
<td>29928</td>
<td>Compact Hydrate Dissolution Plant: Combined Direct and Indirect Heating For Increased Efficiency</td>
<td>R. Margotto, G. Franklin, J.d. Cunha, Halliburton</td>
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<td>1145</td>
<td>29703</td>
<td>Granting Operating Permit Based Upon a Preemptive Risk Assessment</td>
<td>A. Manhaes, A. Garcia Neto, A.A. Zanetti, D. Tiago Muller, E.D. Radespiel, L. Marazza Garcia, Petrobras - Petroleo Brasileiro</td>
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<tr>
<td>1210</td>
<td>29838</td>
<td>Asa Branca Offshore Wind Farm Project - Main Technical Aspects</td>
<td>A. Wey, Eólica Brasil Ltd</td>
</tr>
<tr>
<td>1235</td>
<td>29865</td>
<td>Influence of Whipping on the Structural Response of the Flare Tower Foundations of a Typical Spread Moored FPSO</td>
<td>A. Benhamou, Bureau Veritas; J. Shimazaki, MODEC; F. Bontemps, Total</td>
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</table>
Technical Program: Tuesday, 29 October 2019, 1300–1830

1300–1430, Room B5

Topical Luncheon: Energy Transition and its Challenges in Today’s World

Sponsored by: [Image]

Moderator
Cindy Yeilding
OTC Board Chairperson, BP

Speaker
Fatih Birol
International Energy Agency

1430–1700, Room B8

Panel: FPSO Challenges: Innovation, Cost Reduction and Competitiveness in Design, Construction and Operation

MODERATOR
Rudimar Lorenzatto, Petrobras
Mariano Vela, Chevron

PANELISTS
Joao Henrique Rittershaussen, Executive Manager - Construction Services, Petrobras
Barton Cahir, Senior Vice President Global Project Delivery, ExxonMobil
Artur Nunes da Silva, Vice-President Deepwater and Subsea, Total
Soichi Ide, Vice President, Modec do Brasil
Eduardo Chamusca, Country Director, SBM Brazil

1430–1700, Room B1

Panel: Geophysical Advanced Technologies Applied to the Brazilian Pre-Salt Reservoirs

MODERATOR
Paulo Johann, Petrobras

PANELISTS
Adel Khalil, CGG
Luiz Loures, Equinor
Alejandro Alcudia-Leon, PGS
Christian Deplante, Total
Jorge Lopez, Shell Brasil Ltda
Paulo Johann, Petrobras

1430–1700, Room B2

Panel: R&D Levy Funds as a Game Changer in the Brazilian Offshore Industry

MODERATOR
Alfredo Renault, ANP

PANELISTS
Arthur Braga, President, Ouro Negro
Orlando Ribeiro, Chief Technology Officer, Petrobras
Kazuo Nishimoto, Head of Department of Naval Architecture and Ocean Engineering, Universidade de Sao Paulo
Telmo Ghiorzi, Oil and Gas, Petroleum Regulation and Economics Consultant
### Room B3

#### Flow Assurance: Challenges and New Technologies

**SESSION CHAIRPERSON(S):**
- João Carneiro, ISDB Flowtech
- Thomas Lindvig, Schlumberger

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<tr>
<td>1455</td>
<td>Non-Conventional Phase Behavior of Pre-Salt Reservoir Fluids</td>
<td>F. Mantel, University of Pau</td>
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<tr>
<td>1520</td>
<td>Operationalizing Flow Assurance Models Through Machine Learning</td>
<td>N. Zambare, Kongsberg Digital</td>
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<tr>
<td>1545</td>
<td>Taking Hydrates Management to the Digital Age</td>
<td>C. Vielliard, OneSubsea LLC</td>
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<td>1610</td>
<td>Recent Studies on Wax Deposition in Pipelines</td>
<td>L.F. Azevedo, Catholic University of Rio De Janeiro</td>
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<td>1635</td>
<td>Asphaltene Structural Changes Induced By Carbon Dioxide Injection</td>
<td>N. Golshahi, S. Afra, H. Samouei, H.A. Nasr-El-Din, Texas A&amp;M University</td>
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### Room B4-1

#### Libra EWT Project: How Technology and Strategy Overcome Challenges of a Complex Giant Offshore Field Development and its Legacy to the Industry

**SESSION CHAIRPERSON(S):**
- Paulo Rovina, Petrobras
- Marco Brummelhuis, Shell Brasil S.A.

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<tr>
<td>1430</td>
<td>Extend Well Test (EWT) Libra Project Overview and Technological Highlights</td>
<td>J. Lopes, Petroleo Brasileiro S.A.</td>
</tr>
<tr>
<td>1450</td>
<td>Libra Extended Well Test - an Innovative Approach to De-risk a Complex Field Development</td>
<td>F.P. Figueiredo, Petrobras</td>
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<tr>
<td>1510</td>
<td>Addressing Specificities on Flow Assurance Through EWT Data Evaluation to Overcome Challenges for Definitive Systems Design</td>
<td>L.M. Hayashi, Petrobras</td>
</tr>
<tr>
<td>1530</td>
<td>Intelligent Completion in Extended Well Test</td>
<td>L.C. Cruz, A.M. Oliveira Junior, Petroleo Brasileiro S.A.</td>
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<tr>
<td>1550</td>
<td>Libra Subsea Achievements and Future Challenges</td>
<td>C.J. Valenca, Petrobras - Petroleo Brasileiro</td>
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<tr>
<td>1610</td>
<td>Libra’s FPSO - Conceptual Design Challenges</td>
<td>M. Marques Fernandes, Petroleo Brasileiro S.A.</td>
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<td>1630</td>
<td>Libra@35 - Bringing the Project Break Even to US$ 35/bbl</td>
<td>M.d. Muniz Pinto, Petroleo Brasileiro S.A.</td>
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* = Ticketed event, separate registration required
### Room B4-2

**Advancements in Well Integrity Management**

**SESSION CHAIRPERSON(S):**
- Thomas Shattuck, Deloitte Services LP
- Joao Marcelo Baima Da Silva, Shell

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<td>Epoxy Resin Ends 45 Days Nonproductive Time in Deepwater Wells: Case History</td>
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<td>Case Study: Brazil Deepwater, Pre-Salt - Successful Intermediate Casing Shoe Squeeze Using Microcement</td>
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<td>1520</td>
<td>29795</td>
<td>MSE-Index: A New Concept of Energy Management To Control Salt Creep and Optimize Drilling Operations in Extensive Salt Intervals</td>
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### Room 4

**New Technologies for Wells and Marine Operations**

**SESSION CHAIRPERSON(S):**
- Anna Paula Lougon, Schlumberger
- Soraya Carvalho, NOV

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<td>29763</td>
<td>Digital Technologies Used In Constructability Design For Surface Installations</td>
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<td>Dry Sea State Monitoring For More Efficient Marine Operations</td>
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**Room B4-2**

**Advancements in Well Integrity Management**

**SESSION CHAIRPERSON(S):**
- Thomas Shattuck, Deloitte Services LP
- Joao Marcelo Baima Da Silva, Shell

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**New Technologies for Wells and Marine Operations**

**SESSION CHAIRPERSON(S):**
- Anna Paula Lougon, Schlumberger
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**Room B4-2**

**Advancements in Well Integrity Management**

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- Thomas Shattuck, Deloitte Services LP
- Joao Marcelo Baima Da Silva, Shell

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### Room 4

**New Technologies for Wells and Marine Operations**

**SESSION CHAIRPERSON(S):**
- Anna Paula Lougon, Schlumberger
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Room 5

Reservoir Characterization - Innovations in Modeling and Algorithms I

SESSION CHAIRPERSON(S):
Laryssa Oliveira, CGG Brasil

1430 29726
Unsupervised Deep Learning for Facies Pattern Recognition on Borehole Images
L. Lima, UFRJ/Schlumberger; N. Bize-Forest, Schlumberger; A. Esvukoff, R. Leinhardt, UFRJ

1455 29877
A Practical Model For Production Forecast of Fractured Vertical Well in Coalbed Methane Reservoirs: Dynamic-Drainage-Area Concept
Z. Sun, China University of Petroleum at Beijing, Texas A&M University; K. Wu, J. Shi, China University of Petroleum at Beijing; J. Fu, CNPC Engineering Technology R&D Company Ltd; C. Zhao, Tarim Oilfield Branch of China National Petroleum Corporation; Y. Zhou, C. Liu, Y. Jia, J. Fang, M. Lv, China University of Petroleum at Beijing

1520 29801
Efficient Selection of Reservoir Model Outputs Within an Emulation Based Iterative Uncertainty Analysis
C. J. Ferreira, Durham University/University of Campinas; I. Vernon, C. Caiado, Durham University; H. N. Formentin, Durham University/University of Campinas; G. Avansi, University of Campinas; M. Goldstein, Durham University; D. J. Schiazer, University of Campinas

Room 6

Innovative FLNG and Gas Monetization Design for Offshore Deepwater

SESSION CHAIRPERSON(S):
Hoss Shariat, KBR Energy Solution – Americas
Andrew Taylor, ExxonMobil Corporation

1430 29905
P-67: Review of Dry Transportation of FLNG’s/FSRU’s/FPSO’s

1455 29790
BLNG: The Future of FLNG?
E. A. Hernandez, T. Highfield, T. G. Forbes, D. McLachlan, io oil and gas consulting

1520 29852
Gas to Wire as an Alternative to Natural Gas Monetization of the Pre-Salt Province in Brazil
L. Mota de Lima, D. Santos Baleeiro, Ministry of Mines and Energy Brazil; B. Peixoto Cortez, Centro Universitario Estacio - Brasilina
**Plenary: Unlocking Natural Gas from Offshore Fields**

**Moderator:** João Carlos de Luca, De Luca Energy Consulting

**Panelists:**
- Anelise Lara, Executive Director of Refining and Natural Gas, Petrobras
- Felipe Arbelaez, Regional President Latin America, BP
- Lucas Tristao, Secretary for Economic Development, State of Rio de Janeiro
- Miguel Pereira, CEO, Petrogal Brasil
- Mariano Ferrari, CEO, Repsol Sinopec Brasil SA
- Olav Skalmeraas, Vice President for Marketing and Midstream, Equinor

**Room 8**

**ePoster Session I**

**Session Chairperson(s):** Mauro Nunes, Halliburton

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<tr>
<td>1430</td>
<td>Wettability Alteration in Carbonate Rocks by the Low Salinity Water Using a High-Speed Centrifuge</td>
<td>S.B. Almeida, A. Winter, L.O. Pires, O.V. Trevisan, University of Campinas</td>
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<td>1455</td>
<td>Recent Developments in Polymer Flooding for Carbonate Reservoirs Under Harsh Conditions</td>
<td>W. Diab, E.W. Al-Shalabi, Khalifa University of Science and Technology</td>
</tr>
<tr>
<td>1520</td>
<td>The Branched Steel Catenary Riser Interference Study</td>
<td>A.M. Ogbeifun, S. Oterkus, J. Race, University of Strathclyde; H. Naik, E. Decnop, D. Moorby, S. Bhowmik, McDermott</td>
</tr>
<tr>
<td>1545</td>
<td>Real-Time Simulation and Motion Planning For Riser-Based Deepwater Drilling and Equipment Positioning</td>
<td>A.A. Bizzi, E.F. Fortaleza, UnB – University of Brasilia; M. Yamamoto, NMRI - National Maritime Research Institute</td>
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</tbody>
</table>
Technical Program: Wednesday, 30 October 2019, 0930–1300

0730–0900, Room B5

**T Topical Breakfast: Successful Integration Between Operators and Services Providers Validates the Production Sharing Model and Increases Pre-salt Global Competitiveness**

**MODERATOR**
Heloisa Borges Esteves, ANP

**SPEAKER**
Adam Champagne, Country Manager, Halliburton

0930–1200, Room B8

**Panel: Mature Fields Revitalization: Opportunities in Brazil**

**MODERATOR**
Helois Borges Esteves, ANP

**PANELISTS**
Francisco Francilmar, Operations Director, PetroRio
Reynal Timothee, General Manager, Perenco Brazil
Marcelo Castilho, Development and Production Superintendent, ANP
Alexandre Calmon, Associate, Tauil and Chequer Advocados Associated to Mayer Brown
Lavinia Hollanda, Executive Director, Escopo Energia

0930–1200, Room B2

**Panel: Subsea Innovation, Cost Reduction and Standardization**

**MODERATOR**
Andre Cordeiro, Petrobras

**PANELISTS**
Carlos Tadeu Cunha, Project and Operations Director - Brazil, OneSubsea- A Schlumberger Company
Paulo Martins, Marketing and Business Dev VP, Subsea 7
Alan Buchi, Project Services and EPCI Projects Director, TechnipFMC
Volmir Korzeniewski, Country Manager, Aker Solutions Do Brasil
Lauro Puppim, Director of Subsea Business Development, Saipem do Brasil

0730–0900, Room B5

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T = Ticketed event, separate registration required
Room B3

Libra Ultra-Deepwater - Applied Technologies Changing the Game

SESSION CHAIRPERSON(S):
Ricardo Rosa, Petrobras
Sylvia dos Anjos, Petrobras

0930 29685
Libra: Applied Technologies Adding Value To a Giant Ultra Deep Water Pre-Salt Field - Santos Basin, Brazil
S. Anjos, F.M. Passarelli, Petrobras; O. Wambersie, Petrobras/Shell; K. Lewis, Consultant; P.S. Rovina, O. Coelho, M. Martins, O. Ribeiro, R.A. Fernandes, F.A. Borges, Petrobras

0940 29953
Libra Digital: An Integrated View
F.P. Silva, S. Anjos, A.C. Ferreira, Petrobras; O.E. Wambersie, Shell; D.G. Maura, L.F. Pinheiro, B.E. Santos, T.E. Oliveira, Petrobras

0950 29711
Human Factors and Resilience Engineering Program for Safety Culture Enhancement
J.C. Vaz, S.L. Tourma, L.C. Frota, Petrobras; E. Henriqson, PUCRS; P.C. de Almeida, L.V. Garotti, Petrobras; O.E. Wambersie, Shell

1000 29829
The Use of Drones and Deep Learning To Identify Igneous Rocks and Fractures
M.J. Resende Oliveira, V. Savastano, Petrobras; G. Matos, Future Smart Solutions Ltd.; R.d. Schmitt, UFRJ; S.d. Valette, UFRJ; M.N. de Araujo, Petrobras; L. Inocencio, UNISINOS

1010 29691
Fault Activity and its Influences On Distribution of Igneous Rocks in Libra Block, Santos Basin, Semi-Quantitative to Quantitative Assessment of Fault Activity Based on High-Resolution 3D Seismic Data
J. Zhao, CNPC; M.J. Resende Oliveira, Petrobras; J. Zhao, K. Ren, CNPC; L. Costa de Oliveira, I. De Oliveira Carma, C. Rancan, Petrobras; Q. Deng, CNOOC

Room B4-1

Total Cost Reduction in Field Development I

SESSION CHAIRPERSON(S):
Christophe Vielliard, Schlumberger
Leonardo Nascimento, NOV

0930 29840
Brazil Oil and Gas Sector Piece De Resistance: The Pre-Salt Play Developments
F.D. Jesus, P.G. Neves, M. Chambriard, FGV Energia

0955 29784
Increasing the Attractiveness of Phased Field Development: De-risk Reservoir Uncertainty with Efficient Field Development Solution
S. Basu, T. Bhaumik, KBR

1020 29815
Discovering Patterns within the Drilling Reports using Artificial Intelligence for Operation Monitoring

1020 29818
Using Wireline Logging and Thin Sections to Identify Igneous Contact Metamorphism and Hydrothermal Influence on Presalt Limestone Reservoirs in Libra Block, Santos Basin
K. Ren, CNPC; M.J. Resende Oliveira, Petrobras; J. Zhao, J. Zhao, CNPC; L. Costa de Oliveira, C.C. Rancan, I. De Oliveira Carma, Petrobras; Q. Deng, CNOOC

1030 29805
How Repeatable Will Libra Pre-Salt PRM (Permanent Reservoir Monitoring) Be? A Full Wave Elastic and Acoustic Study
C. Deplante, TOTAL E&P do Brazil; R. Sansonowski, D.C. Garcia, B.R. Meirelles, M.M. Muzette da Costa, R. de Melo Dias, Petrobras

1040 29906
Hybrid Composite Flexible Risers in Free Hanging Catenary Configuration and Flowlines for UDW Projects
W.C. Loureiro Jr., R.G. Sobreira, Petrobras; A. Buckley, Shell Brasil Petróleo Ltda (Libra/AT)

1050 29913
Innovative Gas Treatment Solutions for Offshore Systems

1100 29762
HISEP: A Game Changer To Boost the Oil Production of High GOR and High CO2 Content Reservoirs
F.M. Passarelli, D.A. Moura, A. Bidart, J. Silva, A.J. Vieira, L. Frutuoso, Petrobras
Room B4-2

Offshore Drilling - Maximizing Value and Reducing Costs

SESSION CHAIRPERSON(S):
Felipe Freitas, ROSEN USA, Inc.
Alberto Morandi, GustoMSC

0930 29849
Statistical Analysis of Split Switchboard Operation in Dynamic Positioning Drilling Units
M. Passos Ramalhete, Petrobras

1020 29783
Collaborative Bit and Reamer Design Solution for Performance Drilling in Salt and High Durability in Challenging Subsalt Interval in One Run, Deepwater Gulf Of Mexico

1045 29843
Setting a New Benchmark in ROP and Bit Durability in The Pre-salt Section (Carbonate Rocks) of the Deepwater Mero Field in Brazil
N. Silva, A. Boulton, Halliburton

1110 29933
A New Robust Drilling Rate Model
M.M. Al Rubaii, Saudi Aramco D&W; R.N. Gajbhiye, KFUPM; A.S. Alyami, R.A. Alouhali, Saudi Aramco

1135 29684
Restricted Diagram: Reliability Study of Drilling Ships With Dynamic Positioning System

Room 4

Drilling and Completion Fluids

SESSION CHAIRPERSON(S):
Paulo Ribeiro, Universidade Estadual De Campinas
Carlos Pedroso, Enauta

0930 29786
Influence of Hole Cleaning on the Liner Cement Job in Papa Terra Field

1020 29802
Low Impact Drilling Fluid for Deepwater Drilling Frontier
E. Kakadjian, A. Shi, J. Porter, P. Yadav, D. Clapper, W. Pessanha, Baker Hughes, a GE company

1045 29738
Customized High-Performance Water-Based Drilling Fluid Helps Improve Drilling Efficiency in Extended-Reach Wells on the Peregrino Field
D.M. Obando, F.C. Fornasier, A.J. Junior, Halliburton; R.H. Mattos, R. Andrade, Equinor

Room 5

Trends for Pre Salt Metallic Materials

SESSION CHAIRPERSON(S):
Pascoal Bordignon, Companhia Brasileira de Metalurgia e Mineração - CBMM
Murali Manohar, ArcelorMittal Global R&D

0930 Petrobras Metallic Materials Requirements for Pre-salt
I. Palmieri Baptista, Petrobras

0955 Control of Manganese in the Development of Improved Sour Service High Strength Linepipe Steels
M. Manohar, ArcelorMittal Global R&D; F. Barbaro, University of Wallangong, Australia

1020 Fracture and Fatigue Design Considerations for Pre-Salt
J.R. Gordon, Microalloying International Inc.

1045 Corrosion Perspectives for Deep Offshore Pre-Salt Developments
C. Mendez, ExxonMobil Upstream Research Company

1110 Niobium Technology Delivers Enhanced Weldability in Steels for Offshore Applications
P. Kirkwood, Micro-Met International Limited
Room 6

**Topside Innovative Processing and Design for Offshore Deepwater**

**SESSION CHAIRPERSON(S):**

**Hoss Shariat**, KBR Energy Solution – Americas  
**Mika Tienhaara**, Tienhaara Management

0930 29961  
**Increasing Fire Safety - Fire And Life Safety Ecosystem**  
A. Queiraz, National Fire Protection Association

0955 29791  
**1st Development of Advanced Purification of Produced Water Technology at Greater Sirikit Oil Field By Dissolved Gas Flotation Technique**  

1020 29822  
**Conceptual Design of a Large Water Treatment System for Offshore Smart Water Injection**  
B.F. Machado, O. Vale, B. Pivatto, L. Mota, C. Cavaliere, M. Souza, Petrobras

1045 29811  
**Optimizing the Separation Process in Floating Facilities: The Wash Tank Oil Processing Technology**  
D. Thierens, Sulzer Chemtech Ltd; P. Pedenaud, Total SA

1110 29848  
**A Case Study In Production Enhancement Through Installation Of Optimum Artificial Lift Technology**  
S. Ali, S. Kumar, Mari Petroleum Company Limited; S. Kalwar, Weatherford International Ltd.

1135 29810  
**New Compact Gas Dehydration Technology**  
B.K. Neumann, T. Seltveit, Minox Technology

Room 8

**ePoster Session II**

**SESSION CHAIRPERSON(S):**

**Cassandra Dewan**, DNV GL  
**Anny Beatriz Cabral Andrade**, Universidade Federal do Rio de Janeiro

0930 29887  
**Novel In-Field Technique To Monitor and Optimize Asphaltene Remediation and Inhibition Job With Direct Field-to-Laboratory Correlation**  
A.D. Punase, C.P. Mazzeo, R. Garan, E. Vita, R. Kristensen, J.J. Wylde, Clariant

0955 29882  
**Dielectric Logging: Principles, Applications, and Examples From the Brazilian Oilfields**  
R. Herlinger Jr, Petrobras S.A.

1020 30464  
**Digital Transformation Through Integrated Process and Power**  
B.M. Mancuso, A. Oguro, C.C. Lau, Schneider Electric
Technical Program: Wednesday, 30 October 2019, 1200–1830

1215–1345, Room B5
Distinguished Achievement Awards Luncheon
Speaker Roberto Castello Branco will present the Distinguished Achievement Awards, followed by a keynote presentation: Petrobras Investment Programs—The Next 5 Years.

MODERATOR
Marcos Assayag
OTC Brasil Chairperson, Independent Oil and Gas Consultant

SPEAKER
Roberto Castello Branco
CEO, Petrobras

1400–1630, Room B1
Panel: Offshore Renewables - Planning for the Future in Brazil

MODERATOR
Andre Bello Oliveira, Petrobras

PANELISTS
Mariana de Assis Especie, Energy Research Analyst, Division of Energy Economics and Environmental Studies, EPE
Gaynor Jones, Director, Business and Sustainable Development, Aquatera
Veronica Rezende Coelho Fernandes, SVP of Partner Operated Licenses and Area Development, Equinor
Mario Gonzalez, Professor, Universidade Federal do Rio Grande do Norte
Segen Farid Estefen, Professor of Ocean Structures and Subsea Engineering, Universidade Federal do Rio De Janeiro
Fabio Menezes Passarelli, Libra Project Technical Consultant, Petrobras
Glauco de Deus Ribeiro, Civil Engineer, Petrobras
Rafael Torres, Business Development Director - Brazil, SBM Offshore
Astrid Ønsum, Senior Vice Presidente Wind Power, Aker Solutions
Claudio Pirolo, Executive Director, DEME Group

1400–1630, Room B2
Panel: Floating and Subsea Technologies - Innovation Initiatives

MODERATORS:
Rajiv Aggarwal, Consultant
Daniel Carneiro, Wood

PANELISTS
Asmund Maeland, Subsea Segment, Group Vice President, ABB
John Macleod, Chief Technology Officer/ Senior VP, Aker Solutions
Ricardo Toneto De Melo, Subsea EPCI Department Manager, Petrobras
Marcelo Xavier, Vice-President for Brazil Region, Subsea 7
Hugues Corrigan, Director South America, Subsea and Export Systems, Wood
Rajiv Aggarwal, Independent Consultant; Daniel Carneiro, Wood

T = Ticketed event, separate registration required
Room B3

Innovation in Upstream Oil and Gas: How to Make it Work

SESSION CHAIRPERSON(S):
Mika Tienhaara, Tienhaara Management

This panel session will explore new technologies, innovations, and execution methodologies that are being developed to reduce offshore project costs and improve the value of operations. Panelists will include representatives who have been intimately involved with identifying, developing, commercializing, implementing and operating offshore projects in a cost-efficient manner using new innovations and technologies.

1400
Subsea Viable Technology: Water Treatment and Robust Electronic Components
M. Andreotti, Repsol Sinopec Brasil SA

1425
Technology Deployment: How to Get it Done
E. Nijveld, Deployment Matters

1450
Improve Your Operational Efficiency by use of Novel Tomographic Technology Sensors
P. Laakkonen, Rocsole Ltd

1515
Building the Digital-Twin Prediction Capability, a Hybrid Approach Using Physically Based and Statistical Models
V. Girardi Silva, ESSS

1540
Innovation in Offshore Water Injection - Worlds 1st All Membrane Injection Plant
D. Lee, Suez

1605
Transforming Energy - Energy Challenges, Trends and Digitalization
D. Scuzzarello, Siemens

Room B4-1

Subsea Field Development - New Methodologies and Technologies

SESSION CHAIRPERSON(S):
Andre Luiz Massa, Genesis Oil and Gas Consultants
Rick Wincheski, Shell International E&P Co.

1400
Subsea Arrangements Optimization for Gas Export Systems
C.A. Patusco, E.F. Simoes, Petrobras

1425
Methodology to a Feasibility Study To Implement an Oil/Water Subsea Separation
G. Cosme Vigano, Schlumberger

1450
Subsea Induction Heating Technology Solves Hydrate and Wax Issues in Subsea Flowlines
S.J. Anres, R. Hallot, T. Valdenaire, L. Macauley, Saipem

1515
Subsea X-mas Tree Standardization Benefits in Brazil Scenario
R.V. Beppler, A. Rabello Pereira, M.A. Roberto, Petrobras

1540
On the Shared-Actuation Control for the Operation of Manifolds in Subsea Production Systems

1605
A Novel Application of Production Acceptance Testing in The Development of Intelligent Well Completion Equipment Used in HPHT Applications
A. Balasubramanian, M. Christie, P. Shrivastava, Halliburton
Room B4-2

Mature Field - Increasing Field Life and Reducing Costs

SESSION CHAIRPERSON(S):
Christophe Vielliard, Schlumberger
Eduardo Carvalho, DNV GL

1400 29798
Improving Recovery Factor in Campos Basin
P. Ferreira Da Silva, C.C. Branca, D. Bampi, G.E. Silva, F. Nunes, M. Faerstein, F. Cordeira, Petrobras

1425 29709
Water-Out Performance and Pattern of Horizontal Well for a Thin Carbonate Reservoir With Bottom Water in the Middle East
L. Sun, Y. Li, H. Zhao, J. Yang, B. Li, Research Institute of Petroleum Exploration and Development, PetroChina

1450 29942
Application of Highly Inclined Well to Optimizing Well Pattern: Case Study of a Giant Carbonate Reservoir in the Middle East
L. Sun, L. Wei, H. Zhao, B. Li, Y. Li, Research Institute of Petroleum Exploration and Development, PetroChina

Room 4

Improving Carbonate Reservoirs Models and Solutions

SESSION CHAIRPERSON(S):
Paulo Couto, Universidade Federal do Rio de Janeiro
Tabitha Hensley, ExxonMobil

1400 29916
Prediction of Wettability Alteration Using the Artificial Neural Networks in The Salinity Control of Injection Water in Carbonate Reservoirs
L.F. Reginato, C.C. Carneiro, R.S. Gioria, M.S. Pinto, Universidade de São Paulo

1425 29722
Evaluation of Karst Porosity Morphological Properties Through Borehole Image Logs - Correlation With Dynamic Reservoir Properties From a Pretreated Oil Field
C.M. De Jesus, A.M. Compan, Petrobras; J.P. Coêlho, Tecgraf Institute - PUC-RIO; A.E. de Sá Silveira, M. Blauth, Petrobras

1450 29908
Multiscale Coupling Between Molecular Simulations and Reservoir Simulator: Geochemical Reactions for Low Salinity Water Injection in Carbonates
Room 5

Production Optimization: Equipment Design and Artificial Lift

SESSION CHAIRPERSON(S):
Luiz Carlos Marques, Petrobras
Geraldo Afonso Spinelli Ribeiro, Petrobras

1400 29699
Magnetic Drive System With Levitated Flow-Through Permanent Magnet Motors and Magnetic Bearings To Increase the Reliability and Retrievability of Electrical Submersible Pumps for Offshore Production
K. Chen, H. Artinian, Upwing Energy; D. Harris, Chevron; J. Xiao, Saudi Aramco

1425 29772
Ultra: Flow Assurance Coating Technology - Product Portfolio For Distinct Operating Scenarios
N. Cunha, Shawcor

1450 29775
Technical Economical and Risk Analysis Methodology for Defining the Optimum Positioning of The Electrical Submersible Pump System for Production of Heavy Oil in Deep Water
B.F. Cavalcante, PEC/COPPE/UFRJ; J.S. Baioco, Poli/UFRJ; B.P. Jacob, LAMCSO/PEC/COPPE/UFRJ; N.P. Urupukina, PEC/COPPE/UFRJ

1515 29889
Optimization Methodology of Artificial Lift Rates for Brazilian Offshore Field
M.D. Bezerra, G. Vigano, J.L. Giuriatto, Schlumberger

1540 29858
Wet Christmas Tree Interface for Depressurizing Underwater Flowlines

Room 6

Cost Effectiveness Decommissioning

SESSION CHAIRPERSON(S):
Mauro Destri, Consultant
Armando Rebello, Stress Subsea, Inc.

1400 29814
Comparative Analysis of Permanent P & A Requirements and Consequences in Terms of Leakage - A Case Study
K. Beltrán-Jiménez, Federal University of Rio de Janeiro (UFRJ); H. Lohne, E. Patrick Ford, H. Skadsem, Norwegian Research Centre (NORCE)/Drillwell; M. Lourenço de Souza, Federal University of Rio de Janeiro (UFRJ); O. Arild, Norwegian Research Centre (NORCE)/Drillwell

1425 29878
Abandoned Well Monitoring System With Wet Christmas Tree
P.E. Panta, Ouro Negro; R.C. Furtado, Petroreconcavo S/A; J.R. Moreira, Ouro Negro

1450 29894
Influence of Humidity, Moisture and Temperature on The Electric Properties of Self-Sensing Cement Pastes for Post-Abandonment Well Monitoring
P.A. Carisio, Universidade Federal do Rio de Janeiro; C.P. Carvalho, Petrobras; M.O. Cocchiarale, Universidade Federal do Rio de Janeiro; L. Ferreira, Petrobras; O.A. Mendoza Reales, E. Fairbairn, R.D. Toledo Filho, Universidade Federal do Rio de Janeiro

1515 29718
Leakage Through Micro-Annulus Geometries Incorporating Pressure-Driven Elastic Deformation
K. Beltrán-Jiménez, Federal University of Rio de Janeiro (UFRJ); H. Skadsem, D. Gardner, S. Kraseg, Norwegian Research Centre (NORCE)/Drillwell; M. Lourenco De Souza, Federal University of Rio de Janeiro (UFRJ)

1540 29748
Case Studies: Opportunities and Challenges in Brazilian Mature Fields’ Subsea Conceptual Design
G.R. Cabral, H.F. Silva, R.S. Bressan, Petrobras S.A.
1630–1800, Room B8


**MODERATOR**
Jorge Camargo, IBP

**PANELISTS**
Stephen Greenlee, Global Business Development President, ExxonMobil Upstream
Uwem Ukpong, Chief Global Operations Officer, Baker Hughes, a GE company
Arnaud Breuillac, E&P Director, Total
Margareth Ovrum, CEO, Equinor Brasil
Carlos Alberto de Oliveira, E&P Director, Petrobras

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**ePoster Session III**

**SESSION CHAIRPERSON(S):**
Pedro Campos Torres, Halliburton
Laura Lima, Schlumberger

1400 29959
**Improved Reamer Cutter Blocks Optimizes The Brazilian’s Pre-Salt Well Construction**
L.P. Da Silva, P. Mata, Petrobras; R. Oliveira, C. Almeida Junior, A. Matamoros, J. Florido, Schlumberger

1425 29923
**Parametric Assessment of the Buoy for Supporting Lines (BSL) Applied to Large FPSOs**
P. Asgari, A.C. Fernandes, J.S. Sales Junior, A.C. Thurler, LOC-COPPE-Universidade Federal do Rio de Janeiro; A.M. Vilela, WESTSHORE - WSB Consultoria e Afretamentos; J.B. Araujo, ATNAV Consultoria Naval

1450 29750
**A Study of Directional Drilling Using Rotary Steerable System in Soft Shallow Formation (Benin Sand) - Rio Del Rey Area, Offshore Cameroon**
O.M. Oredolapo, Baker Hughes Drilling Services; C.P. Onomo, Perenco
Technical Program: Thursday, 31 October 2019, 0730–1300

0730–0900, Room B5

T: Topical Breakfast: The New Paradigm of Innovation

MODERATOR
Wafik Beydoun, International Association of Oil and Gas Producers

SPEAKER
Nicolas Simone, Director of Digital Transformation and Innovation, Petrobras

0930–1200, Room B8

Panel: Deepwater Safety – Improving Effectiveness and Reducing Failures

MODERATOR
Wafik Beydoun, International Association of Oil and Gas Producers

PANELISTS
Mauricio Diniz, HSE Executive Manager, Petrobras
Milton Costa Filho, General Secretary, IBP
Raphael Moura, Superintendent Operational Safety and Environment, ANP
Debra Phillips, VP Global Industry Services, API
Mark Cockram, Team Lead, Deepwater Wells Process Safety, Shell

0930–1200, Room B8

Panel: Offshore Brazilian Engineering Industry: Lessons Learned and Challenges Ahead

MODERATOR
Claudio Makarovsky, Abespetro

PANELISTS
Mauricio Almeida, CEO, Enseada
Francisco Franclimar, Operations Director, PetroRio
Luiz Octavio Bandeira, Business Development Manager, Genesis
Guilherme Pinto, Technology Manager, SBM Offshore Do Brasil

0930–1200, Room B3

Panel: Natural Gas–Worldwide Best Practices and their Application to the Brazilian Case

MODERATOR
Melissa Mathias, ANP

PANELISTS
Marina Abélha Ferreira, Superintendent of Exploration, National Petroleum Agency of Brazil - ANP
Rodrigo Costa Lima e Silva, Executive Manager of Natural Gas, Petrobras
Flavio Ofugi Rodrigues, Head of Government and Regulatory Affairs, Shell
Maria Clara Costa, Reservoir Manager, Equinor
Room B4–1

Riser and Flowlines – Historical Review and Future Projections

SESSION CHAIRPERSON(S):
Ivan Cruz, Subsea 7
Rajiv Aggarwal, Consultant

0930  29678
Flexible Joint Stiffness Modelling Improving Ultra-Deep-Water Rigid Risers Fatigue Damage
G. Venero, V. Gomes, H. Corrignan, D. Carneiro, Wood

0955  29876
A Flexible Riser System For Ultra-deepwater
Y. Hou, J. Yuan, Z. Tan, Baker Hughes, a GE company

1020  29787
Deepwater Risers - Historical Review and Future Projections
P.J. Simpson, A.J. Lima, 2H Offshore

1045  29698
The Gimbal Joint Riser: Enabling Free-Hanging, Buoyancy Free, Rigid Risers
I.C. Cruz, A. Ramiro, D.N. Karunakaran, F. Nicoletti, G. Hepner, L. Lemos, M. Chiodo, J. Gouveia, Subsea 7

1110  29819
Thermoplastic Composite Pipes: A Reliable Cost-effective Solution For Pre-salt
T. Barbosa, R. Bastos, H. de Boer, R. Rojas, Airborne Oil and Gas

1135  29813
Non Linear Time Domain Drilling Riser VIV Modelling
S. Truche, A. Malassagne, R. Aljarahe, C. Saunier, M. Minguex, GENESIS Nîmes; A. Ulanov, P. Moe, TechnipFMC

Room B4–2

Novel technologies in Offshore Water Management

SESSION CHAIRPERSON(S):
Jorge Rodriguez, Repsol
Carlos Pedroso, Enauta

0930  29911
Electrocoagulation Treatment For Reverse Electrodialysis Wastewater From Petroleum Refinery
F.M. Gonçalves, D.H. Galdino Duarte Tocafundo, A.L. Alvarenga Santos, E.M. Nigri, S.D. Ferreira Rocha, Universidade Federal de Minas Gerais

0955  29946
F. Papat, C. Alexandre, M.M. Abdussalam, A. Chita, A. Pina, A. Chipaque, P. Glenat, Total E&P

1020  29947
Produced Water Treatment Polishing : A Step Change
P. Pedenaud, Total SA

1045  29751
Thermal-Numerical Simulation of the Gas Offshore Production Undersea Facilities at the Amistad Field
F.P. Gallia Cruz, A.L. Sola Naranjo, J.A. Rosero, J. Gonzalez Maya, Escuela Politecnica Nacional

1110  29720
F. Papat, C. Alexandre, M.M. Abdussalam, A. Chita, A. Pina, A. Chipaque, P. Glenat, Total E&P

1135  29949
Corrosion in Multiphase Slug Flow Loop in Deep-water Oil and Gas Exploitation
C.A. Silva, D.R. Filho, G.B. Nunes, IPT - Research Institute; G. Bassani, Repsol Sinoppec; N.L. Almeida, Z. Panassian, IPT - Research Institute

Room 4

Deepwater Operation - Challenges and Opportunities

SESSION CHAIRPERSON(S):
Felipe Freitas, ROSEN USA, Inc.
Anna Paula Lougon, Schlumberger

0930  29926
The Science of Capping a Subsea Blowout
M. Guinn, Oil Spill Response (USA) Inc.; M. Cargol, Trendsetter Engineering, Inc.

0955  29680
Challenges for the Development of New Bop Generation
Y.E. Beal, R.T. Claro, M.d. Araújo, SENAI CIMATEC; D. Colombo, Petrobras; S.M. Souza, SENAI CIMATEC

1020  29947
Delivering Step Change in Directional Well Design for Soft Formation in Deepwater Environment Using Rotary Steerable Directional-Jetting Technique
Room 5

Enhanced Oil Recovery - WAG, CO₂ Injection, Polymer Injection and Beyond

SESSION CHAIRPERSON(S):
Claudio Ziglio, Petrobras
Lirio Quintero, Baker Hughes

0930  29766
An Integrated WAG Characterization Study for an Offshore Oilfield
R.A. Vieira, M.A. Cardoso, J.D. Pizarro, Petrobras

0955  29924
Estimation of Three-Phase Oil Relative Permeability in WAG Experiments
S. Aghabozorgi, M. Sohrabi, Heriot-Watt University; J. Facanha, LASURF - PUC Rio

1020  29769
Effect of CO₂ Injection on the Interfacial Tension for a Brazilian Pre-Salt Field

Room 6

Solutions in Scale, Asphaltenes and H₂S

SESSION CHAIRPERSON(S):
Felipe Fleming, Petrobras
Geraldo Afonso Spinelli Ribeiro, Petrobras

0930  29812
Optimization Algorithm of Hydrogen Sulfide Scavenging Process in Oil Production Industry
F.C. Souza, F.L. Pessoa, T.F. Ferreira, E.E. Calixto, A. Bomfim, Universidade Federal do Rio de Janeiro

0955  29886
ScaleProTect - Scale Deposition Modeling in Pre-Salt Reservoir
R. Bouamra, G. Carneiro, P. Pereira Machado, Schlumberger; M. Da Silva JR, Petrobras; G. Franquix, H. Guan, T. Lindvig, Schlumberger

1020  29836
Towards a Deterministic Approach To Calcite Scaling in the Porous Media During CO₂ Sequestration and Immiscible CO₂ Flooding
S. Muhemed, H.T. Kumar, H.A. Nasr-El-Din, Texas A&M University

1045  29939
Study of the Effect of Low Salinity Water Injection on the Oil Recovery Factor in Fractured Carbonate Rocks Using Computed Tomography
C. Camargo Angarita, J.A. Vidal Vargas, E. Ruidiaz, A. Winter, E.T. Koraishi, O.V. Trevisan, University of Campinas; R.V. Almeida, G. Soares Bassani, Repsol Sinoppec Brasil

1110  29754
Artificial Intelligence-Based Screening of Enhanced Oil Recovery Materials for Reservoir-Specific Applications
R. Giro, S.P. Lima Filho, R.F. Neumann, M. Engel, M.B. Steiner, IBM Research

1135  29732
Recent Updates on Smart Water EOR in Limestone
S. Strand, T. Puntervold, University of Stavanger/The National IOR Centre of Norway

Alternate  29887
Novel In-Field Technique To Monitor and Optimize Asphaltene Remediation and Inhibition Job With Direct Field-to-Laboratory Correlation
A.D. Punase, C.P. Mazzeo, R. Garan, E. Vila, R. Kristensen, J.J. Wylde, Clariant
### Room 8

**Reservoir Characterization - Innovations in Modeling and Algorithms II**

**SESSION CHAIRPERSON(S):**
**Gerardo Acosta**, U Nacional Del Centro De La Provincia De Buenos Aires

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<td>0955</td>
<td>Application of the Convective-Dispersive Equation To Estimate Field Scale Dispersivity Based on a Field Scale Numerical Model and Tracer Production Data</td>
<td>J.D. Cavalcante Filho, J.D. Pizarro, Petrobras</td>
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<tr>
<td>1020</td>
<td>Mechanical Characterization of Grainstone and Dolomite Rock Samples From Quissama Formation, Campos Basin</td>
<td>P.V. Garcia, D.F. Rossi, F.H. Ferreira, E.S. Raggio Santos, A. Borba, Petrobras</td>
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<td>1045</td>
<td>Understanding Main Data Structure of Complex Well Logs: Example of Images, Nuclear Magnetic Resonance Distributions and Acoustics Waveforms</td>
<td>J.K. Oliveira, Schlumberger</td>
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Papers are also available at the multi-society library OnePetro® with contributions from 21 publishing partners and providing access to over 200,000 items.
## Technical Program: Thursday, 31 October 2019, 1200–1800

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<td>Jose Firmo, IBP</td>
<td>Eduardo Zacaron Gomes, Decommissioning Manager, Petrobras</td>
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<td>Melinda Truskowski, Principal, Global Oil and Gas Sector Leader, Ramboll</td>
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<td>Bernardo Brandao Gobbi, Wells Plug and Abandonment Coordinator, Petrobras</td>
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<td>B8</td>
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<td>Eduardo Zacaron, Petrobras</td>
<td>Eduardo Zacaron Gomes, Decommissioning Manager, Petrobras</td>
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<td>Bernardo Brandao Gobbi, Wells Plug and Abandonment Coordinator, Petrobras</td>
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<td>1400–1630</td>
<td>B2</td>
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<td>Eberaldo De Almeida, Petrobras</td>
<td>Jose Firmo, President, Brazilian Petroleum, Gas and Biofuels Institute</td>
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<td>Claudio Makarovsky, President, ABESPETRO</td>
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<td>Claudio Cesar de Araujo, Head of Supply Chain, Petrobras</td>
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<td>Jose de Sá, Partner, Bain &amp; Company</td>
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<td>1400–1630</td>
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<td>Rajiv Aggarwal, Consultant</td>
<td>Alberto Manuel Fernandes Dias, Global Digital Advisor, Enterprise Architecture - Oil and Gas, Microsoft Digital</td>
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<td>Leonildes de Melo Filho, R&amp;D Project Coordinator in Digitalization and Geosciences, Repsol Sinopec Brasil</td>
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<td>Marcelo Mattoso de Padua, Facilities Electrical and Automation Engineering Manager, Petrobras</td>
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<td>Soichi Ide, Chief Digital Officer &amp; VP of Operations, Modoc do Brasil</td>
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<td>Guilherme Pinto, Technology Manager, SBM Offshore Do Brasil</td>
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<td>Hugues Corrigan, Director South America, Subsea &amp; Export Systems, Wood</td>
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<td>David Renzi, Principal, Stress Engineering Services Inc</td>
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<td>Jose Esteve Otegui, Project Director, Marine and Offshore Division, Bureau Veritas</td>
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<td>Ingar Fossan, Chief Adviser, Safetec</td>
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Room B4–1

Continued Use of Existing Deepwater and Subsea Facilities, Offshore Brazil

SESSION CHAIRPERSON(S):
Daniel Carneiro, Wood
Jorge Capeto, Stress Engineering Services Inc

1400 29792
FPSO Hull Brackets Repair By Cold Bonded Reinforcements - Project Lessons Learnt From a World First Offshore West Africa
C. Paillusseau, X. Errotabehere, COLD PAD; V. Floria, M. Bulbaoca, G. Pinto, A. Galter, SBM Offshore

1425 29918
Life Extension of Mooring Systems- A Structured Approach
C. Del Vecchio, Stress Engineering Services Inc; P. Biasotto, Murphy Exploration and Production Co.

1450 29824
Flexible Riser Repair and Dissection Following Exceedance of API Fatigue Limit
R. Tapias, 2H Offshore Engineering; M. Mansour-Tehrani, Tullow Oil plc; N.K. Longhelle, Sintef Ocean

1515 29759
Life Extension of Offshore Structure Using Machine Learning
S. Bhowmik, McDermott International

1540 29767
Floating Deepwater Production Integrity Challenges and Solutions
M.J. Paris, EM&I Integrity Services Brasil; D.A. Constantinii, EM&I Trading

Room B4–2

Improving Brazilian Offshore Regulatory Environment–What Can Be Done?

SESSION CHAIRPERSON(S):
Jerry Carroll, IEEE/Oceanic Engineering Society
Antonio Amorim, Faculdade De Tecnologia E Ciencias

1400 29696
Brazilian Local Content Policy: An Overview and Analysis of Adjustment Clauses Applications
A.L. d’Almeida, Petrobras; B.D. Apolinario, L.C. Ribeiro, Universidade Federal Fluminense

1425 29702
Brazil Natural Gas Flaring And Its Regulatory Regime
P.M. Camargos, Petrogal Brasil; L.M. Albuquerque, Universidade Veiga de Almeida; H.C. Saad, Agência Nacional da Petroleo, Gás Natural e Biocombustíveis.

1450 29862
On the Development of Technology Governance in the Well Area
J.C. Leite, M.T. Lopes, Petrobras

1515 29884
Analysis of Brazilian’s Oil and Gas Industry Research Fostering
M.A. Gemaque Cantuaria, M. Peczek, Universidade Federal Fluminense

1540 29743
Challenges With Production Sharing Contracts in Brazil: What the International Experience and Literature Review Can Tell Us?
B.B. Medeiros, R. Britto, F. Barsan, Deloitte

Room 4

Innovations in E&P Geophysical Methods–Risk Reduction

SESSION CHAIRPERSON(S):
Eduardo Faria, Enauta
Marcilio Castro De Matos, SISMOS S.A.

1400 29929
Probabilistic Techno–Economic Appraisal of Prospective Hydrocarbon Resources in Five Turbidites, Offshore Uruguay
P. Rodriguez, S. Ferro, ANCAP; R. Weijermars, Texas A&M University

1425 29935
Pseudo-Sticking and Pull: A New Old Artifact on Image Logs Acquired in Ocean Wireline Log Operations
S.A. Fornero, L.d. Fioriti, A.C. Laier, G.D. Felipe, Petrobras

1450 29893
Depth Imaging of Complex Geological Structures Using the RTM Technique in Order to Reduce Exploration Costs
M. Xavier, Halliburton

1515 29693
Comparison of Methodologies for Statistical Evaluation of Characteristic Soil Properties for Top Hole Design
A.V. Esteves, C.A. Varady Filho, E.T. Lima Junior, J.P. Santos, Federal University of Alagoas; R. Dias, F.S. Cutrim, Petrobras

1540 29782
Carbonate Porosity and Permeability from Sonic Log
F.G. Silva, C.F. Beneduzi, G.F. Nassau, T.B. Rossi, Petrobras- Petróleo Brasileiro S.A.

1605 29689
Exploratory Potential of the Brazilian Equatorial Margin

= Ticketed event, separate registration required
## Room 5
### Total Cost Reduction in Field Development II

**SESSION CHAIRPERSON(S):**
- Ivan Cruz, Subsea 7
- Thomas Lindvig, Schlumberger

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<td>R. Sunnapu, A.B. Awang, PETRONAS</td>
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<td>R.d. Motta, L.A. Basílio, Federal University of Rio de Janeiro</td>
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<td>1540</td>
<td>Partnerships and Joint Ventures In Brazilian Oil and Gas Markets</td>
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<td>1540</td>
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<td>J.E. Modica, Independent Consultant; H.H. Federico, Petrobras Transporte S/A - TRANSPETRO</td>
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<td>1605</td>
<td>The Remarkable Growth of Integrated Subsea Projects from 2016 to 2019</td>
<td>D. Labbe, K.A. Jan, M. Xavier, Subsea 7; C. Tadeu, M. Vilchez, OneSubsea</td>
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## Room 6
### Advanced Technologies for Production Engineering

**SESSION CHAIRPERSON(S):**
- Howard Painter, Glenair Subsea Group
- Sergio dos Santos e Lucato, Teledyne Scientific

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<td>Detailed CFD Simulations of Green Water Flow on FPSO Deck</td>
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<td>Forecasting Smart Well Production Via Deep Learning and Data Driven Optimization</td>
<td>T. Calvette, A. Gurwicz, A.C. Abreu, M.C. Pacheco, Pontifical Catholic University of Rio de Janeiro</td>
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<td>Visualization of Ensembles of Oil Reservoir Models Based on Pixelization, Small Multiples and Reservoir Similarities</td>
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<td>Application of Machine Learning to Oil Production Forecast under Uncertainties-The Linear Model</td>
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**Materials Technology**

**SESSION CHAIRPERSON(S):**
Pascoal Bordignon, Companhia Brasileira de Metalurgia e Mineração - CBMM
Murali Manohar, ArcelorMittal Global R&D

**Room 8**

*Technical Program | Thursday, 31 October*

**1400 29955**
Optimizing Rotary Shoulder Connection for Drilling Program
S. Bhukya, G. Plessis, R. Hussain, NOV Grant Prideco

**1425 29679**
Regulatory Design Assessment of Cold Bonded Fasteners
M. Quéméré, J. Court, P. Montaoufray, X. Errotabehere, COLD PAD; P. Noury, K. Zakariyya, H. Martinsen Olin, DNV GL

**1450 29845**
Understanding The Behavior of Surface Hardness (Hard Spots) of Plate And Pipe: Extensive Test Program

**1515 29962**
Structural Integrity of HSLA Steels Under Hydrogen Embrittlement Condition
G.F. Melo, Federal University of Uberlândia; W.W. Bose Filho, University of São Paulo; R.F. Alvarenga, Federal University of Uberlândia; M.T. Paes, D.C. Ferreira, Petrobrás; S.D. Franco, Federal University of Uberlândia

**1540 29758**
Novel Solution For Cementing Operations in Scenarios of Losses and Improving Cement Bonding Results in The Brazilian Deepwater Pre-Salt
R.A. Freitas, L. Rossi, L.P. Pagani, A. Gregatti, Schlumberger

**1605 29768**
Mechanically Lined Pipe (MLP) With Improved Fatigue Resistance
S. Popescu, P.A. Montague, Cladtek Holdings PTE LTD

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**1630–1800, Room B8**

*Plenary: Digital Transformation*

**MODERATOR**
Jose Firmo, IBP

**PANELISTS**
Joao Carlos Bolonha, Director, Google Cloud
Ana Hofmann, Manufacturing Lead Brazil, Microsoft
Marcelo Braga, Vice-President, IBM Cloud and Cognitive Software Brazil
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Wednesday, 30 October ............... 1200–2000
Thursday, 31 October .................. 1230–2030
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