Message from the Chairpersons

Dear Colleagues,

On behalf of the program committee, welcome to the inaugural SPE Latin America and Caribbean Mature Fields Symposium.

The event is timely organized as the market is now open to new players. Companies are looking for enhanced recoveries in this new-world economy.

You can take this opportunity to share best practices, refine their technical and managerial knowledge, and gain strategic partnerships to identify leading-edge technologies and innovative solutions to maximize your company’s productivity and profitability.

We promise an excellent technical program focus on alternatives to prolong field life with cost efficiency and safety. Join us for the executive plenary session and the networking reception on Wednesday night.

Thank you for being part of this inaugural event. We look forward to meeting you.

Sincerely,

Claudio Furtado  
Petrobras

Fernando Bertomeu  
OilProduction Consulting
Program Committee

Chairpersons

Claudio Furtado  
Petrobras

Fernando Bertomeu  
OilProduction Consulting

Federico Baieli  
Tecpetrol

Alejandro Idrobo  
Ecopetrol

Tiaraju Bernardi  
Petrobras

Gerardo Lobato-Barradas  
Consultant

Jaques D’Erasmo  
Petroreconcavo

Joao Vitor Moreira  
Petroreconcavo

Marcos Faernstein  
Petrobras

Francisco Porturas  
ScanViz

Eugenio Ferrigno  
Consultant

Fernando Rodriguez De La Garza  
Consultant

Manuel Barreto Filho  
Petrobras

Claudia Rubio  
Fundacion Universidad de America

Thiago Fructuoso  
Weatherford

Otto Santos  
Consultant

Isa Guimaraes Veiga  
Petrobras

Adolpho Souza  
Schlumberger

Marcelo Hirschfeldt  
OilProduction Consulting

Robert Ziegler  
Weatherford

Special thanks to the SPE Bahia-Sergipe Section for their support and for welcoming the symposium in Brazil.
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## Schedule at a Glance

### WEDNESDAY | 15 MARCH

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Lunch is included in the full registration price. Additional tickets may be purchased at the registration desk.

Symposium Survey
A questionnaire will be distributed on Thursday. Please take the time to fill out the survey as your opinion helps us continue to grow and make the next event even better.

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When traveling, as in any major city, certain precautions are necessary. Always keep your valuables out of sight and safely stored in a hotel safe deposit box. In the event of a lost or stolen room key card, notify hotel management as soon as possible. Also, travel in a group and plan your itinerary before leaving the hotel.
Technical Program
(As of 6 March 2017 | Subject to Change)

WEDNESDAY | 15 MARCH | 0830–1000

SE01 Opening Plenary Session | Iris A-B

Session Moderator:
Claudio Jose Furtado, Petrobras

Panelists:
Marcos Faerstein, Corporate Manager for Reservoir Engineering, Petrobras
Fabiano Lobato, Head of Research Center Rio, Statoil do Brasil
Carlos Sarmiento, Latin America Sales & Commercial VP, Schlumberger

WEDNESDAY | 15 MARCH | 1000–1030

Poster Session I | Iris Foyer

Session Chairperson:
Claudio Jose Furtado, Petrobras

184927 Comparative Analysis of Two-Phases Flow in Porous Media in Two Different Configurations of Wells Through 3D Numerical Simulation Using OpenFOAM

184904 Optimization of Foamy Oil Production in Horizontal Wells
C. Temizel, Aera Energy; K. Balaji, A. Suhag, R. Ranjith, Z. Peksaglam, University of Southern California; Z. Wijaya, HESS; T. Inceisci, Turkish Petroleum; E.R. Abdelfatah, University of Oklahoma

184907 New Insight on the Polymer Flooding to Mature Fields
I.P. Silva, Petrobras; E.F. Lucas, Universidade Federal do Rio de Janeiro

184952 A Challenging Workover in an Offshore Fixed Platform - Accessing Bypassed Hydrocarbons
F.F. Fernandes, L. Nakajima, PetroRio S.A.; V.F. Rodrigues, VFRiends Ltda

184921 Cementing Solution To Decrease Water Cut After Fracturing Operations
## Technical Program

**WEDNESDAY | 15 MARCH | 1030–1200**

### 01 Reservoir Management and Surveillance | Iris A-B

**Session Chairpersons:**  
*Alejandro Idrobo*, Ecopetrol-ICP; *Eugenio Ferrigno*, Consultant

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D.I. Meza, E. Gozalbo, P.A. Whitney, R. Clayton, C.M. Fonseca, J.A. Hurtado, R.M. Henson, Schlumberger; E. Chicango, Consorcio Shushufindi SA; D. Reyes, Tecpetrol; R. Leon, Petroamazonas |
| 1100  | 184951  | Enhancing Reservoir Understanding in Mature Fields: Adjoint-State Method Applied to a Semi-Synthetic Model  
D.D. Awofodu, L. Ganzer, Clausthal University of Technology; H. Almuallim, FirmSoft Technologies Inc. |
| 1130  | 184958  | Comparative Analysis of the Socioeconomic and Regulatory E&P Scenarios in Mature Fields and Marginal Wells in Brazil, the United States and Canada  
C. Mendes De Souza Barbosa, T.M. Abreu, A. Morcelli Badiani, V. Menezes Vieira, P.S. Rodrigues de Araújo, Universidade Salvador - UNIFACS |

### 02 Mature Field Management: Efficiency and Cost Control | Iris C-D

**Session Chairpersons:**  
*Claudia Angelica Rubio Arvilla*, Fundacion Universidad de America; *Marcelo Hirschfeldt*, OilProduction.net

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D. Perea, D. Benitez, F. Bruna, Sipetrol; M.R. Lederhos, A. Diaz, A. Farfan Taibo, Schlumberger |
| 1100  | 184937  | Practical Management in Mature Field Operations  
C.M. Hirschfeldt, F.D. Bertomeu, G. Lobato-Barradas, Oil Production Consulting |
| 1130  | 184932  | Increasing Production by Diagnosing Well Productivity: A Case Study for Other Mature Fields  
A. Montilva, F.C. Peretti Leiva, L.J. Rodriguez, Halliburton; O. Rosario, J.C. Torrealba, M. Martinez, Petroleos de Venezuela S.A. |
## Technical Program

**WEDNESDAY | 15 MARCH | 1330–1500**

### 03 Reservoir Characterization, Finding New Opportunities in Mature Fields I | Iris A-B

**Session Chairpersons:**
**Alejandro Idrobo**, Ecopetrol-ICP; **Tiaraju Bernardi**, Petrobras

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### 04 Artificial Lift Systems Problems and Their Solutions | Iris C-D

**Session Chairpersons:**
**Claudia Angelica Rubio Arvilla**, Fundacion Universidad de America; **Marcelo Hirschfeldt**, OilProduction.net

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<td>Development of a Fatigue Corrosion Resistant Steel for Sucker Rods</td>
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### WEDNESDAY | 15 MARCH | 1530–1700

### 05 Waterflooding and EOR I | Iris A-B

**Session Chairpersons:**
Marcos Faerstein, Petrobras; Thiago Dutra, Statoil do Brasil

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### 06 Monitoring and Optimization | Iris C-D

**Session Chairpersons:**
Marcelo Hirschfeldt, OilProduction.net; Thiago Fructuoso, Weatherford

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<td><strong>An Alert-Based Monitoring System to Evaluate a Water Injection Pilot in the Shushufindi Field, Ecuador</strong></td>
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<td>L. Kubota, F. Souto, Petrobras S.A.</td>
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**THURSDAY | 16 MARCH | 0830–1000**

## 07 Produced Water Management (Operational Considerations) Iris A-B

**Session Chairpersons:**
*Claudio Jose Furtado*, Petrobras; *Federico Baieli*, Tecpetrol S.A.

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<td><strong>The Use of WalnutShell Filtration with Enhanced Media for Reduction and/or Elimination of Upstream Produced Water Treatment Equipment</strong> S. Wiercinski, E. Lorge, M. Patterson, Siemens</td>
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**Session Chairpersons:**
*Adolpho Souza*, Schlumberger

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<td><strong>Method To Impove Human Resource Allocation in Project Teams Using Simulation: An Application to a Well Engineering Team</strong> G.A. Lira, M. Pedrassa, I.G. Veiga, C.E. Torres, A.S. Santos, Petrobras</td>
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THURSDAY | 16 MARCH | 1000–1030

Poster Session II | Iris Foyer

Session Chairperson:
Claudio Jose Furtado, Petrobras

184913  Surveillance Service Reduces Time to Restart 42 ESP Wells to 2.8 Hours: A Real Case

184935  An Analysis of Scale Buildup in Seawater Injection of Waterflooding Operations
C. Temizel, Aera Energy LLC-EBS; D. Thanon, Texas A&M University; T. Inceisici, Turkish Petroleum; K. Balaji, A. Suhag, R. Ranjith, University of Southern California; Z. Wijaya, HESS; E.R. Abdelfatah, University of Oklahoma

184934  Sandpack Filterability- Faster Way to Screen Polymers and Measure Resistance Factors for Laboratory and Field Applications for EOR
J. Rane, S. Howard, F.M. Fournier, Kemira Chemicals

185268  Evaluation of Novel Products Applicable to Enhanced Oil Recovery
M.L. Legarto, I.N. Vega, D.G. Robledo, V. Bordenave, YPF Tecnología S.A.

184901  Integration of Geomechanical Models Optimized Designs Fracture, for the Reactivation of Yacimiento Eocenofract B2X68, Maracaibo Basin
J.L. Barrios, Petroleos de Venezuela S.A.

184918  Screening of the Potential for Different Injection Water Compositions To Alter Wettability to More Water-Wet
I. Fjelde, A.V. Omekhe, International Research Institute of Stavanger (IRIS); P. Haugen, University of Stavanger
# Technical Program

**THURSDAY | 16 MARCH | 1030-1200**

## 09 Production Engineering | Iris A-B

**Session Chairpersons:**
Marcelo Hirschfeldt, OilProduction.net; Gerardo Lobato-Barradas, Consultant

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N. Alahmed, S.N. Bordalo, Universidade Estadual De Campinas |
| 1100 | 184900  | Dynamic Online Planning Operations System for Heavy Crude Oil Pipeline Network  
D. Arce, C. Valdez, Pemex; A. Torres Montiel, C. Collado, Schlumberger |
| 1130 | 184933  | Influence of Well Control Parameters in the Development of Petroleum Fields Under Uncertainties  
D.R. Santos, D.J. Schiozer, Universidade Estadual De Campinas |

## 10 Well Integrity: New Technologies and Management Systems  
Iris C-D

**Session Chairpersons:**
Adolpho Souza, Schlumberger

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P. Zhang, S. Zhang, N. Hu, F. Zhang, F. Makhmoor, J. Sandoval, Halliburton |
| 1100 | 184928  | Study and Simulation of Matrix Acidizing in Sandstones Reservoirs Applied to Injection Wells of the Mature Fields  
M.S. Guimaraes, T. de Albuquerque Grana, S. Sarkis, Universidade Federal do Amazonas |
| 1130 | 184957  | Real-Time Monitoring Enables Control and Evaluation of Cementing Operations  
J.L. Torres Salcedo, F. Martinez, S.J. Yepez, O.F. Cardoso, F. Moretti, J.R. Contreras Escalante, Schlumberger |
### Technical Program

**THURSDAY | 16 MARCH | 1330–1500**

#### 11 Waterflooding and EOR II | Iris A-B

**Session Chairperson:**
Claudio Jose Furtado, Petrobras

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| 1330 | 184894   | **Mathematical Modeling and Simulation of Formation Damage Associated With Nanoparticles Transport in Porous Media**  
E. Abdelfatah, M. Pournik, B. Shiau, J. Harwell, University of Oklahoma |
| 1400 | 184950   | **Improving Oil Recovery in Mature Field With Innovative Completion Solution: Dumpflood Application**  
| 1430 | 184889   | **EOR Feasibility for Mexico’s Mature Fields**  
K. Alvarado, A.L. Cruces, C. Menendez, Schlumberger |

#### 12 Reservoir Characterization, Finding New Opportunities in Mature Fields II | Iris C-D

**Session Chairpersons:**
Tiaraju Bernardi, Petrobras; Alejandro Idrobo, Ecopetrol-ICP

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| 1330 | 184940   | **A New Method for Calculating Individual Layer Permeability and Skin in a Multilayer Reservoir Using Production Logging Data: The Delta Transient Method**  
M.D. Galvao, C. Guimaraes, Petrobras |
| 1400 | 184903   | **Producing the Limit by Re-Defining the Rock Typing Classification in a Mature Oilfield: Case Study in the Auca Field, Oriente Basin, Ecuador**  
| 1430 | 184911   | **The Impact of Abnormal Reservoir Conductivity and Heterogeneities in Mature Fields Development**  
U.D. Bustos, Schlumberger; G. Salazar Bustamante, Pacific Energy E&P; D. Chaparro, S. Arango, A. Lozano, A. Sanchez, Ecopetrol S.A. |
# Technical Program

**THURSDAY | 16 MARCH | 1530–1700**

## 13 Best Practices and Lessons Learned | Iris A-B

**Session Chairpersons:**
**Gerardo Lobato-Barradas**, Consultant; **Thiago Fructuoso**, Weatherford

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| 1530  | 184941   | **Lessons Learned from Polymer Flooding Pilots in Brazil**  
M.A. de Melo, A.G. Lins Jr., I.G. Silva, Petrobras                                                                                                     |
| 1600  | 184938   | **Preliminary Economic Evaluation for Mexico’s Mature Fields**  
K. Alvarado, C.A. Bravo, E.M. Sandoval, Schlumberger                                                                                                   |
| 1630  | 184929   | **Successful Stimulation of Sandstone Formations through a Comprehensive Approach to Reservoir Characterization and Understanding in the Bachaquero Field, Lake Maracaibo**  
A. Martin, J.M. Santaella Hernandez, M.D. Martinez, Halliburton; A.J. Prieto, Petroleos de Venezuela S.A.                                           |

## 14 Low Salinity Water Injection | Iris C-D

**Session Chairperson:**
**Claudio Jose Furtado**, Petrobras

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| 1530  | 184915   | **Geochemical Modelling of Carbonated Low Salinity Water Injection (CLSWI) to Improve Wettability Modification and Oil Swelling in Carbonate Reservoir**  
J. Lee, M. Jeong, K.S. Lee, Hanyang University                                                                                                          |
| 1600  | 184959   | **Effect of Low Salinity Waterflooding on Multilayered Clay-Rich Sandstone Reservoir**  
S.S. Abdelmoneim, H.A. Nasr-El-Din, Texas A&M University                                                                                                 |
| 1630  | 184943   | **Fuzzy Injection Recipes for Low Salinity Waterflooding**  
P.C. Silva, V.M. Filho, P. Couto, Universidade Federal do Rio De Janeiro                                                                                   |
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