



## TECHNICAL PROGRAMME

### Oral Presentations | Thursday 5 December

FOYER	
06:00	Registration
08:20	Welcome and Aims - Jorge López (Shell) and Marcos Fetter (Petrobras)
Session I	
Session Chair Jorge López (Shell)	
08:30	The importance of Geosciences in the Brazilian Pre-Salt Development - Keynote Speech - Carlos H.L Bruhn (Petrobras)
09:00	An Example of Applying Geostatistical Inversion to Inform Reservoir Quality Distribution, Pre-Salt Santos Basin, Brazil - J. Utley <sup>1*</sup> , K. Miller <sup>1</sup> , E. Pederson <sup>1</sup> , M. Bowen <sup>1</sup> , A. Buck <sup>1</sup> , K. Basler-Reeder <sup>1</sup> , G. Jones <sup>1</sup> , B. Laugier <sup>1</sup> , E. Hixon <sup>1</sup> , R. Wenger <sup>1</sup> , M. Ibrahim <sup>2</sup> , J. Zubizaretta <sup>2</sup> <sup>1</sup> ExxonMobil; <sup>2</sup> CGG
09:20	A Very Different Barremian-Aptian Lacustrine Pre-Salt Facies Association: Biotic Self-Organization In BMC-33, Outer Basin Campos Basin, Brazil - D.W. Hunt <sup>1*</sup> , P.H. Vieira de Luca <sup>3</sup> , L.E. Gomis-Cartesio <sup>2</sup> , F. Lapponi <sup>1</sup> , I. Masiero <sup>1</sup> , A. Waldum <sup>1</sup> , A. Stuart Chandler <sup>1</sup> , J.L. De Lima Matias <sup>2</sup> , C. Hess <sup>2</sup> , J. Fonseca <sup>4</sup> , L. Loures <sup>2</sup> , I. Søreide <sup>1,2</sup> <sup>1</sup> Equinor; <sup>2</sup> Equinor; <sup>3</sup> Repsol-Sinopec; <sup>4</sup> Petrobras
09:40	Understanding the relationship between acoustic impedance and porosity in the presalt of the Buzios Field, Santos Basin - R.M. Dias <sup>1*</sup> , T.M. Castro <sup>2</sup> , M.A.C. Santos <sup>1</sup> , W.M. Lupinacci <sup>1</sup> <sup>1</sup> Departament of Geology and Geophysics (GIECAR) - Universidade Federal Fluminense; <sup>2</sup> Schlumberger
10:00	Discussion Session
10:20	Coffee Break AM
Session II	
Session Chair Marcos Grochau (Petrobras)	
10:50	Non-marine carbonate reservoir architecture, genesis and petrophysical characterisation from analogues - Travertines, Shrubs, Laminates and Spherulites - H. Claes <sup>1*</sup> , J. Soete <sup>2</sup> , M. Marques Erthal <sup>3</sup> , Á. Török <sup>4</sup> , Z. Mohammadi <sup>2</sup> , C. Aratman <sup>5</sup> , T. Siqueira de Miranda <sup>6</sup> , A. Mancini <sup>7</sup> , E. Capezzuoli <sup>7</sup> , J. Schmatz <sup>8</sup> , J. Aguillar <sup>9</sup> , L. Zieger <sup>10</sup> , R. Swennen <sup>2</sup> <sup>1</sup> CIM, RWTH Aachen University; <sup>10</sup> LEK, RWTH Aachen University; <sup>2</sup> KU Leuven University; <sup>3</sup> Petrobras Research Center; <sup>4</sup> Eötvös Lorand University; <sup>5</sup> Pamukkale University; <sup>6</sup> Federal University of Pernambuco; <sup>7</sup> University of Florence; <sup>8</sup> MaP - Microstructure and Pores; <sup>9</sup> Universidade Federal do Rio de Janeiro
11:10	Bayesian elastic facies inversion applied to Lula field - L. Passos de Figueiredo <sup>1,3*</sup> , B. B. Rodrigues <sup>2</sup> , E. C. Mundim <sup>2</sup> , M. Roisenberg <sup>1</sup> , D. Grana <sup>4</sup> <sup>1</sup> UFSC; <sup>2</sup> Petrobras; <sup>3</sup> LTrace; <sup>4</sup> University of Wyoming
11:30	Structural cross-section restoration and its applications in reservoir quality prediction in pre-salt Santos basin - A.P. Pelosi <sup>1</sup> , M.R. Fetter <sup>1*</sup> , F. Garcia Domingues da Costa <sup>1</sup> , F. Rostirola de Sá <sup>1</sup> <sup>1</sup> Petrobras

11:50	Improved Structural Imaging and Amplitude Fidelity through FWI and LS-RTM for Pre-Salt Reservoir Characterization - Y.H. Cha <sup>1*</sup> , J. Sun <sup>1</sup> , T. Vdovina <sup>1</sup> , C. Marcinkovich <sup>1</sup> , V. Brytik <sup>1</sup> , R. Lu <sup>1</sup> , S. Lazaratos <sup>2</sup> , V. Singh <sup>3</sup> , I. Dura-Gomez <sup>2</sup> <sup>1</sup> ExxonMobil Upstream Research Company; <sup>2</sup> ExxonMobil Upstream Integrated Solutions; <sup>3</sup> ExxonMobil Upstream Oil & Gas
12:10	Discussion Session
12:30	Lunch
Session III	
Session Chair Gustavo Catao (Petrobras)	
13:30	Multiscale Carbonate Core Analysis: from Laboratory to Field - Keynote Speech by Paulo Couto (UFRJ)
13:50	Pre-Salt Seismic Monitoring (4D): Considerations About Time-Shifts - V. Mello <sup>1,3*</sup> , M. Grochau <sup>1</sup> , A. Martini <sup>1</sup> , V. Almeida <sup>1</sup> , L. Teixeira <sup>1,3</sup> , C. Deplante <sup>2</sup> , W. Lupinacci <sup>3</sup> <sup>1</sup> Petrobras; <sup>2</sup> JPT Libra; <sup>3</sup> Universidade Federal Fluminense
14:10	Improving pre-salt image with reflection full-waveform inversion in Santos Basin - W. Kang <sup>1</sup> , M. Ortin <sup>1</sup> , J. Monteiro <sup>2</sup> , M. Fagundes <sup>2</sup> , O. Zdraveva <sup>1</sup> , D. Vigh <sup>1</sup> , M. Shadrina <sup>3</sup> <sup>1</sup> Schlumberger; <sup>2</sup> Schlumberger; <sup>3</sup> Schlumberger
14:30	Regional 3D Seismic Value in Exploration Workflows: Campos and Santos Basins, Brazil - A.K. Hartwig <sup>1*</sup> , J. Faw <sup>1</sup> , B. Horn <sup>1</sup> <sup>1</sup> ION Geophysical
14:50	Discussion Session
15:10	Coffee Break PM
Session IV	
Session Chair Diego Gracioso (Shell)	
15:30	Timing of Pre-Salt Faulting and its Impact on Reservoir Architecture at the Sao Paulo Plateau, Santos Basin, Brazil - H. Lebit <sup>1</sup> , S. Arasanipalai <sup>1</sup> , P. Ollagnon <sup>1</sup> , A. Alcludia-Leon <sup>2*</sup> <sup>1</sup> PGS; <sup>2</sup> PGS
15:50	Infield enhanced fast track pre-stack depth migration in the Campos basin; a case study - T. Johnson <sup>2</sup> , C. O'Reilly <sup>2*</sup> , R. Bartlett <sup>1</sup> , T. Brice <sup>1</sup> , J. Pollatos <sup>1</sup> <sup>1</sup> Shearwater; <sup>2</sup> TGS
16:10	Geopressure, Reservoir Properties and Advanced Geochemistry Analyses Along Pre-Salt in Santos and Campos Basins: From Oil Fields to Frontier Areas - S. Rostirola <sup>1*</sup> , M. Mello, H. Kemna, W. Peres, O. Pedrosa, T. Nascimento <sup>1</sup> BPS
16:30	The Carcará Project – From discovery to development - L.J. Hansen <sup>1*</sup> <sup>1</sup> Equinor Brasil
16:50	Discussion Session
Poster Session	
18:00	Ice Breaker Reception

First EAGE Workshop on Pre-Salt Reservoir:  
from Exploration to Production

## Oral Presentations | Friday 6 December

FOYER	
Session IA	
Session Chair James Miller (Exxon Mobil)	
08:00	<b>Pre-Salt Carbonate Reservoir Challenges-Back to the Rocks - Keynote Speech</b> - Joachim J. Amthor (Shell)
08:30	<b>Geologically informed digital rock-physics workflows for improved reservoir characterisation and modelling of pre-salt carbonate reservoirs.</b> - S. Geiger <sup>1,3*</sup> , R. Wood <sup>2,3</sup> <sup>1</sup> Heriot-Watt University; <sup>2</sup> University of Edinburgh; <sup>3</sup> International Centre for Carbonate Reservoirs
08:50	<b>Excess permeability in the Brazil pre-salt: non-matrix types and diagnostic indicators</b> - F. Fernandez-Ibanez <sup>1*</sup> , M. Bowen <sup>2</sup> , G. Jones <sup>2</sup> , J. Mimoun <sup>2</sup> <sup>1</sup> ExxonMobil Upstream Research Company; <sup>2</sup> ExxonMobil Upstream Integrated Solutions
09:10	<b>The Fantastic Microbialite Reservoirs in Santos and Campos Basins: Depositional Models, Crustal Inheritance Control on the Petroleum System and Risks Associated for Commercial Discoveries.</b> - P. Zalan <sup>1*</sup> <sup>1</sup> UOL
09:30	<b>Multiscale Modeling of Flow in Paleo-Karst Reservoirs</b> - M. Murad <sup>1*</sup> , A. Rocha <sup>1</sup> , T. Lopes <sup>1</sup> , P. Pereira <sup>1</sup> , F. Bezerra <sup>2</sup> , C. Cazarin <sup>3</sup> , I. Coimbra <sup>1</sup> , E. Garcia <sup>1</sup> <sup>1</sup> Laboratório Nacional de Computação Científica; <sup>2</sup> Universidade Federal do Rio Grande do Norte; <sup>3</sup> Cenpes/Petrobras
09:50	<b>Discussion Session</b>
10:10	<b>Coffee Break AM</b>
Session IIA	
Session Chair Santiago Drexler (Halliburton)	
10:40	<b>NMR-based Segmentation of a Coquina Sample for Digital Petrophysics</b> - W. Godoy <sup>1*</sup> , E.M. Pontedeiro <sup>1,2</sup> , F. Hoerlle <sup>1</sup> , A. Raoof <sup>2</sup> , M. Van Genuchten <sup>2</sup> , P. Couto <sup>1</sup> <sup>1</sup> COPPE - UFRJ - Civil Engineering Program; <sup>2</sup> Utrecht University
11:00	<b>Forecasting geomechanical behaviour in pre-salt fields</b> - D. Roehl <sup>1,2*</sup> , R. Quevedo <sup>2</sup> , P. Firme <sup>1,2</sup> <sup>1</sup> Civil and Environmental Engineering Department – PUC-Rio; <sup>2</sup> Tecgraf Institute – PUC-Rio
11:20	<b>Salt Geomechanics and Seismic Velocity Models</b> - J. Herwanger <sup>1*</sup> , A. Bottrill <sup>1</sup> , M. Oristaglio <sup>2</sup> <sup>1</sup> MP Geomechanics; <sup>2</sup> SEG SEAM
11:40	<b>Detecting ahead of bit in a vertical well</b> - D. Larsen <sup>1*</sup> , J. Xavier <sup>1</sup> , S. Martakov <sup>1</sup> , J. Gripp <sup>1</sup> , R.B. Cremonini <sup>1</sup> , A. Pierre <sup>1</sup> , A. Hinkle <sup>1</sup> , N. Tropin <sup>1</sup> , M.V. Sviridov <sup>1</sup> , T. Lagarigue <sup>1</sup> , Y.E. Antonov <sup>1</sup> , A. Hartmann <sup>1</sup> <sup>1</sup> Baker Hughes
12:00	<b>Discussion Session</b>
12:20	<b>Lunch</b>

Session IIIA	
Session Chair Marcos Fetter (Petrobras)	
13:20	<b>Challenges, improvements and optimizations in drilling and evaluation in pre-salt Brazil Keynote Speech by Enrique Estrada (Halliburton)</b>
13:40	<b>Innovative Imaging Technology to Unlock Presalt Reservoir Characterization</b> - S. Arasanipalai <sup>1*</sup> , H. Lebit <sup>1</sup> , A. Valenciano <sup>1</sup> <sup>1</sup> PGS
14:00	<b>Exploratory-scale OBN seismic acquisition in Santos Basin</b> - D. Ferreira <sup>1*</sup> , A. Martinez <sup>2</sup> , C. Costa <sup>1</sup> , F. Jouno <sup>1</sup> , A. Khalil <sup>1</sup> <sup>1</sup> CGG
14:20	<b>Towards Efficient Ocean Bottom Seismic Acquisition in Pre-Salt Brazil</b> - J. Lopez <sup>1*</sup> , G. Baeten <sup>2</sup> , F. Ten Kroode <sup>2</sup> <sup>1</sup> Shell Brasil; <sup>2</sup> Shell Global Solutions International B.V.
14:40	<b>Discussion Session</b>
15:00	<b>Coffee Break PM</b>
Session IVA	
Session Chair Jeffrey Lukasik (Equinor)	
15:30	<b>A Workflow for Multiminerologic Carbonate Rock Physics Modeling in a Bayesian Framework</b> - J. Dias <sup>1*</sup> , J. Lopez <sup>2</sup> , R. Velloso <sup>3</sup> <sup>1</sup> UFRJ/LAGESED; <sup>2</sup> Shell Brasil Petróleo Ltda.; <sup>3</sup> PUC-Rio
15:50	<b>Fast Model Update and Scenario Based Modelling for Decision Making in a Fast Track Pre-Salt Development</b> - G. Saka <sup>1*</sup> , I. Troth <sup>1</sup> , C. França <sup>1</sup> , F. Ramalho <sup>2</sup> , S. Hoffman <sup>2</sup> , J. Tollefsrud <sup>2</sup> , V. Haugse <sup>1</sup> , D. Torres <sup>1</sup> , L. Hansen <sup>1</sup> <sup>1</sup> Equinor Brasil; <sup>2</sup> Equinor ASA, Oslo
16:10	<b>Challenges in Brazil pre-salt carbonate reservoir characterization: a realistic 3D synthetic study</b> - H. Wang <sup>1*</sup> , O. Burtz <sup>1</sup> , R. Parth <sup>1</sup> , Y. Yu <sup>2</sup> , B. Curry <sup>2</sup> , E. Hixon <sup>3</sup> , B. Laugier <sup>3</sup> <sup>1</sup> ExxonMobil Upstream Research Company; <sup>2</sup> ExxonMobil Upstream Integrated Solutions; <sup>3</sup> ExxonMobil Upstream Oil and Gas Company
16:30	<b>Porosity characterization of complex silicified carbonates reservoirs of BM-C-33</b> - P.H. Vieira de Luca <sup>1*</sup> , A. Waldum <sup>2</sup> , A.S. Chandler <sup>2</sup> , D. Hunt <sup>2</sup> , O.P. Wennberg <sup>2</sup> , G. McQuenn <sup>2</sup> , D. Hulme <sup>2</sup> , E. Castro <sup>3</sup> , L. Loures <sup>3</sup> , J.L.D.L. Matias, I. Søreide <sup>2</sup> , A.M.D.C. Filgueiras <sup>4</sup> <sup>1</sup> Repsol Exploration; <sup>2</sup> Equinor; <sup>3</sup> Equinor; <sup>4</sup> Repsol Sinopec Brasil
16:50	<b>Discussion Session</b>
17:10	<b>Workshop Review &amp; Closure</b>

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