

# 18th October - Oral Sessions

| Hora  | Sala        | Tema                                 | Título   | Speaker   |
|-------|-------------|--------------------------------------|--|---|
| 08:30 | Leblon      | Deep Learning I                      | <b>Automatic Segmentation of Breakouts in Acoustic Image Logs with Deep Learning</b>                                   | Gabrielle Brandemburg dos Anjos, Augusto Ícaro da Cunha, Mayara Gomes, Nelia Reis, Raquel Guilhon, Renata Nascimento, Candida Menezes de Jesus  |
| 08:30 | Ipanema     | Data Processing I                    | <b>Comparisons between FO-CRS and OCT stacking operators by quality measures</b>                                       | Tiago A. Coimbra, Nicholas T. Okita, Jorge H. Faccipieri,   |
| 08:30 | São Conrado | Reservoir Features & Behaviors       | <b>Buzios life-of-field seismic: 4D modeling and acquisition planning.</b>   | Monica Maria Muzzette da Costa, Eliane Born, Maria Taryn Relvas, Victor Mund, Leonardo Teixeira, Rafaela Reis, Luiz Eduardo Queiroz, José Borba Junior, Felipe Vidal, Ciro Climaco, Filipe Borges, Marcos Grochau, Paulo Johann, Ana Maria Moliterno, Joao Paulo Carneiro, Julia Guerreiro, Fátima Brazil |
| 08:30 | Barra       | Mineral Exploration                  | <b>A study of 1D inversion of EM34 data from 3D media</b>  | Gabriel Pinto Santos, Cícero Roberto Teixeira Régis   |
| 08:30 | Recreio     | Model Building: Theory and Methods I | <b>A Truly-Explicit Adaptive Time-Integration Approach for Elastodynamic Analyses</b>                                  | Lucas Ruffo Pinto, Delfim Soares Jr., Webe João Mansur, Cristhian A. C. Cortez, Ricardo S. N. Bragança, Eduardo G. D. Carmo   |
| 08:55 | Leblon      | Deep Learning I                      | <b>Cluster Analysis to Detect Reflectors associates with Salt Dome Structures</b>                                      | André Luiz Souza da Silva, Alexandre Guerra Cerqueira, Vinicius Carneiro  |
| 08:55 | Ipanema     | Data Processing I                    | <b>Correlation-based dip-guided optimal stacking</b>   | Lorenzo Casasanta, Sergio Grion   |
| 08:55 | São Conrado | Reservoir Features & Behaviors       | <b>Full Azimuth Nodes: rethinking seismic facies and sedimentary domains model in Buzios Field, Brazilian Pre-salt</b> | Maria Taryn Relvas Campos, Victor Mund Rocha e Silva, Júlia Guerrero, Eliane Born, Leonardo Teixeira, Carlos Eduardo Abreu  |
| 08:55 | Barra       | Mineral Exploration                  | <b>Groundwater volume estimation of an area with metamorphic rocks by ERT</b>  | José Agnelo Soares, Lucas Emanuel Batista Oliveira, Juliana Targino Batista   |
| 08:55 | Recreio     | Model Building: Theory and Methods I | <b>Application of the inverse scattering imaging condition in least-squares migration and full waveform inversion</b>  | Natia Almeida Albano, Jessé Carvalho Costa  |

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|-------|-------------|--|--|--|
| 08:55 | Urca        | Near Surface Geophysics for Monitoring | <b>4D acquisition of stiffness modulus by combining MASW and Piezocene results with real time ambient noise seismic interferometry</b> | Demetrius Cunha Gonçalves da Rocha, Marco Antonio Braga, Juliana Arraes de Aragão Villar, Amanda Mendes Bezerra, Alan de Souza Cunha, Maria Filipa Perez da Gama   |
| 09:20 | Leblon      | Deep Learning I                        | <b>From High frequency RTM to AI/ML aided Salt Interpretation-harness the power of the Cloud</b>                                       | Kun Jiao, Weishan Han, Cyril Lagrange, Julian Chenin, Mik Isernia, Srinivas Tadepalli  |
| 09:20 | Ipanema     | Data Processing I                      | <b>Detection Of Discontinuities In Post-Stack 3d Seismic Data Using Inline And Crossline Filtering</b>                                 | Gleidson Diniz Ferreira, Milton Porsani  |
| 09:20 | São Conrado | Reservoir Features & Behaviors         | <b>Geological Constraints for Probabilistic Pore Pressure Prediction at Predrill Stage</b>   | Josue Sa da Fonseca, Alexandre Rodrigo Maul, Tapan Mukerji   |
| 09:20 | Barra       | Mineral Exploration                    | <b>Hydrogeophysical Evaluation of Serra dos Martins Formation at Serra do Bombocadinho, NE Brazil</b>                                  | Gabriel Ferreira Viana de Lima, José Agnelo Soares, Adriana do Carmo Menezes Echeverri, Anne Beatrice Guedes Sobrinho, Guilherme dos Santos Teles, Luise de Moura Monteiro, Defsson Douglas de Araújo Ferreira, Francisco Júnior, Mariana Laiane Soares Dutra, Maria Luiza Delmiro de Oliveira, Josenildo Isidro dos Santos Filho and Carlos Mario Echeverri Misas |
| 09:20 | Recreio     | Model Building: Theory and Methods I   | <b>Elastic FWI: A study on parametrization and applications of the pseudo-Hessian</b>  | Gustavo Catão Alves, André Bulcão, Angelo Correa Almeida, Bruno Pereira Dias, Cristhian Alberto Celestino Cortez, Djalma Manoel Soares Filho, Pablo Machado Barros, Tiago Illipronti Girardi,  |
| 09:20 | Urca        | Near Surface Geophysics for Monitoring | <b>Electrical Resistivity (ERT) investigation for de-characterization of a tailings dam in Goiás state, Brazil</b>                     | Maria Filipa Perez da Gama, Marco Antonio Braga, Alan de Souza Cunha, João Paulo Aparecido Arruda, Tainara Santos Souza, Aline Roza de Faria   |
| 10:00 | Leblon      | Deep Learning I                        | <b>Inteligência Artificial Aplicada à Predição de Fácies Evaporíticas na Bacia de Santos: Uma Análise de Árvores de Classificação</b>  | José Augusto Vitorino Dias, Mario Martins Ramos, Antonio Fernando Menezes Freire, Wagner Moreira Lupinacci   |
| 10:00 | Ipanema     | Data Processing I                      | <b>Mapping CO2 Occurrence at The Brazilian Southeast Margin</b>  | Katia Souza dAlmeida, Péricles de Abreu Brumati , Nathália Oliveira de Castro , Camila da Mota Carvalho , Deise dos Santos Trindade Ribeiro , Raul Fagundes Leggieri , Pamela Cardoso Vilela , Victor Hugo Trocate da Silva , Roberta de Albuquerque Cardoso , Regina Freitas Fernandes  |
| 10:00 | São         | Reservoir Features                     | <b>How to practically chase for anisotropic evidence</b>   | João Muniz , Vinícius Ramos  |

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|-------|-------------|--|---|--|
|       | Conrado     | & Behaviors                            | in multi-azimuth seismic data   |  |
| 10:00 | Barra       | Mineral Exploration                    | New frontiers of multi-scale uranium exploration in Brazil  | Isabelle Cavalcanti Corrêa de Oliveira Serafim, Iago Sousa Lima Costa, Hugo José de Oliveira Polo, Anderson Dourado Rodrigues da Silva, Felipe Mattos Tavares, |
| 10:00 | Recreio     | Model Building: Theory and Methods I   | Enhanced reverse time migration with neural network-based data-domain preconditioning   | Kristian Torres, Mauricio D. Sacchi  |
| 10:00 | Urca        | Near Surface Geophysics for Monitoring | Gamma-ray spectrometry to recognize mineralized reliquary zones potentially associated with acid mine drainage generation in an uranium mining waste rock pile (Caldas, Brazil) | Anna Carolina Gastmaier Marques, César Augusto Moreira   |
| 10:25 | Leblon      | Deep Learning I                        | Mounds labeled data expansion in full-azimuth seismic data via Bayesian generative models   | Pedro Henrique Silvany Sales, Ariely Luparelli Rigueti, Marcos de Carvalho Machado   |
| 10:25 | Ipanema     | Data Processing I                      | Multidimensional Seismic Data Analysis and Applications in Field Development and Exploration  | Long Jin   |
| 10:25 | São Conrado | Reservoir Features & Behaviors         | Investigating Automated Well Tie Adjustment Techniques with Dynamic Time Warping  | Yago Moreira Castro, Arthur Siqueira de Macedo, Ana Beatriz Dias Jardim da Silva, George Sand Leão Araújo de França, Susanne Taina Ramalho Maciel              |
| 10:25 | Barra       | Mineral Exploration                    | Pulsed Fast and Thermal Neutron Activation (PFTNA) calibration for Iron Ore Exploration   | Dionisio Uendro Carlos, Raphael F. Prieto, Nicolas P. Garzon, Marco A. C. Junior, Débora A. Rossi, Débora G. Roldão, Rodrigo O. A. Mabub, Marco T. Naves       |
| 10:25 | Recreio     | Model Building: Theory and Methods I   | New insights on the better focusing of FWI derived images   | Bruno Pereira Dias, Pedro Bertussi, André Bulcão, Gustavo Catão Alves  |
| 10:25 | Urca        | Near Surface Geophysics for Monitoring | Integrated Application of Multiphysical Methods in Landfill dam Monitoring  | Lucca Martins Franco, Emanuele F. La Terra, Liliane P. Panetto, Sergio L. Fontes   |

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|-------|-------------|--|---|--|
| 10:50 | Leblon      | Deep Learning I                        | <b>Deep-salt: complete 3D salt segmentation from inaccurate migrated subsurface offset gathers using deep learning</b>  | Ana Paula Oliveira Muller, Bernardo M. O. Fraga, Jessé C. Costa, Clecio R. Bom, Matheus Klatt, Elisangela L. Faria, Marcelo P. de Albuquerque, Marcio P. de Albuquerque  |
| 10:50 | São Conrado | Reservoir Features & Behaviors         | <b>Rock-physics-assisted interpretation of elastic property of the geological environments in the Buzios field, Brazilian pre-salt.</b>                                 | Leonardo Teixeira, Maria Taryn Relvas Campos, Julia Guerrero, Victor Mund, Mônica Muzzete, Fátima Brazil, Carlos Eduardo Abreu   |
| 10:50 | Barra       | Mineral Exploration                    | <b>VLF and gravity signatures of the chromite ore in Jacurici Valley, northeastern of Bahia state, Brazil</b>   | Vito Varjão Freire Clavijo, Joelson da Conceição Batista, Marcos Alberto Rodrigues Vasconcelos, Florivaldo Oliveira Sena, José Haroldo da Silva Sá, Eduardo Henrique Rodrigues Pereira   |
| 10:50 | Urca        | Near Surface Geophysics for Monitoring | <b>Microseismic monitoring of a reduced-scale dam: a case study with application of event characterization and ambient noise seismic interferometry</b>                 | Igor Barbosa de Oliveira, Pedro Canhaço de Assis, Fernando Sergio de Moraes, Igor Lopes Santana Braga, Sérgio Adriano Moura Oliveira, Geovane Frez Ouverney, Cleir Araujo Junior, Luciano Dias de Oliveira Pereira, Luiz Fernando Santana Braga, Orlando Andrade de Moraes |
| 14:00 | Leblon      | AI Modeling & Uncertainties            | <b>Deep-tomography guided by well-log velocity information</b>  | Bruno dos Santos Silva, Ana Paula Oliveira Muller, Jessé Carvalho Costa, Clécio Roque de Bom   |
| 14:00 | Ipanema     | Data Processing II                     | <b>Addressing complex internal multiple contamination in the Gulf of Mexico with optimized wave-equation based prediction and post-imaging curvelet matching</b>        | Frederico Xavier de Melo, Bartosz Szydlik, Heather Yao, Iestyn Williams, Zhiming James Wu, Dawit Desta   |
| 14:00 | São Conrado | Sustainability in Geophysics           | <b>A new generation of seismic nodes enabling high trace density seismic surveys for all industries</b>   | Amine Ourabah  |
| 14:00 | Barra       | AVO I                                  | <b>Análise da porosidade e dos aspectos texturais de um arenito da Formação Posse (Grupo Urucuia) por meio da técnica de microtomografia computadorizada de raios X</b> | Catharina Caixeta Kazmirczak, Adriana Chatack Carmelo, Darby Pereira Dantas de Lima  |
| 14:00 | Recreio     | Model Building: Theory and Methods II  | <b>Inversão da forma de onda completa usando diferenciação automática: uma alternativa ao método dos estados adjuntos</b>   | Felipe Louzeiro Azevedo, Jessé Carvalho Costa, Bruno dos Santos Silva, Natiê Almeida Albano  |

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| 14:00 | Urca        | <b>Case Study: Integrated Interpretation</b> | <b>Aeromagnetic Study of the Morro Redondo an Alkaline Complex in Rio de Janeiro</b>   | Gabriel Cesar Frade Santos, Paulo Gabriel Xavier Marques, Paloma do Sacramento de Carli, Jefferson Soares Ferreira, Saulo Siqueira Martins                                 |
| 14:25 | Leblon      | <b>AI Modeling &amp; Uncertainties</b>       | <b>Probabilistic neural network to quickly access the velocity model uncertainties</b>   | Marcus Vinicius de Oliveira Saraiva , Antonio Cosme Del Rey, Alexandre Rodrigo Maul, Maira Gabriela Borges Izeli, Fabio Tatsuya Gomes Makino                               |
| 14:25 | Ipanema     | <b>Data Processing II</b>                    | <b>An Analysis of the Integer Wavelet Transform as a Decorrelation Strategy for Lossless Seismic Data Compression</b>  | Julio Nobre Lopes, Renata Nascimento   |
| 14:25 | São Conrado | <b>Sustainability in Geophysics</b>          | <b>Artificial Intelligence and Machine Learning in Sustainable Energy</b>  | Stephen Gallant, Nishi Patel, Sara Zaheri  |
| 14:25 | Barra       | <b>AVO I</b>                                 | <b>Bayesian joint inversion of seismic and electromagnetic data to reservoir litho-fluid facies, including geophysical and petrophysical rock properties</b>               | João L. Crepaldi, Leandro P. de Figueiredo, Andrea Zerilli, Ivan S. Oliveira, João P. Sinnecke   |
| 14:25 | Recreio     | <b>Model Building: Theory and Methods II</b> | <b>Criterion for Evaluating Solutions in Traveltime Tomography</b>   | Marcelo do Prado Vieira, Amin Bassrei  |
| 14:25 | Urca        | <b>Case Study: Integrated Interpretation</b> | <b>Geophysical 3D modeling of kamafugite using audiomagnetotelluric (AMT) data for phosphate prospecting in the Alto Paranaíba Igneous Province (APIP), Central Brazil</b> | Lucca Martins Franco, Emanuele F. La Terra, Miguel A. Tupinambá , Liliane P. Panetto   |
| 14:50 | Leblon      | <b>AI Modeling &amp; Uncertainties</b>       | <b>Seismic data interpolation with generative adversarial networks: the impact of hyperparameters on the learning process and the interpolated solution</b>                | Daniel Nobre Pinheiro, Gilberto Corso, Mesay G. Gebre, Jaime C. Gonzalez, Carlos A. N. da Costa  |
| 14:50 | São Conrado | <b>Sustainability in Geophysics</b>          | <b>Integrated E&amp;P Platform – Optimizing Data Usage within the Organization</b>   | Christiano Lopes, Igor Aquilino, Rafael Rocha, Sebastião Pereira, David Fernandes, Leandro Ribeiro, Frederico Miranda, Diogo Michelon, Carlos Siedschlag, Rodrigo Portugal |

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|-------|-------------|--|--|---|
| 14:50 | Barra       | <b>AVO I</b>                                 | <b>Effective pressure laws for dual porosity limestone and clayey sandstone</b>  | Patrick Baud, Fanbao Meng, Teng-fong Wong   |
| 14:50 | Recreio     | <b>Model Building: Theory and Methods II</b> | <b>GnuBR Tomography</b>  | Eduardo Filpo, Bruno Camerano, Gustavo Gomes, Luiz Santos, Rodrigo Fernandes, Elton Lopes   |
| 14:50 | Urca        | <b>Case Study: Integrated Interpretation</b> | <b>Multi-geophysical investigation of the western portion of the Rio Grande Rise: 2D modeling of the basement relief using gravity data</b>                                  | Felipe Chagas dos Santos, Luis Carlos Torres, Rodrigo Bijani, Flora Ferreira Solon  |
| 15:30 | Leblon      | <b>AI Modeling &amp; Uncertainties</b>       | <b>The contribution of unsupervised waveform classification in detecting lateral carbonate rock properties variations in the pre-salt of the Iara Complex, Santos Basin.</b> | Júlio Cesar dos Santos Vital, Wagner Moreira Lupinacci  |
| 15:30 | Ipanema     | <b>Data Processing II</b>                    | <b>Overcoming Cycle-Skipping Issue using Joint-Domain Full Waveform Inversion</b>  | Yu Zhang, Lian Duan, Weishan Han, Feng Chen, Guang Chen, Zhengzheng Zhou  |
| 15:30 | São Conrado | <b>Sustainability in Geophysics</b>          | <b>Managing large volume time-lapse datasets for sustainable carbon storage in subsurface reservoirs</b>   | Jess Kozman, Sue Carr, Christiano Lopes   |
| 15:30 | Barra       | <b>AVO I</b>                                 | <b>Enhancing S-Wave Log Construction through Semi-Supervised Regression Clustering</b>   | Pamela Carolyne Rodrigues Bolsem, João Rafael Barroso Sampaio da Silveira, Jose Jadsom Sampaio de Figueiredo, João Lucas Marques da Silva |
| 15:30 | Recreio     | <b>Model Building: Theory and Methods II</b> | <b>P-wave velocity inversion from prestack seismic data using FO-CDS traveltimes approximation with higher order coherence measures</b>                                      | Felipe Astur Valdes Pena, Marcelo Jorge Luz Mesquita, João Carlos Ribeiro Cruz  |
| 15:30 | Urca        | <b>Case Study: Integrated Interpretation</b> | <b>Processing and characterization of aeromagnetometric data from São João Alkaline Complex - Casimiro de Abreu - Rio de Janeiro.</b>  | Tiago José Bandeira Sales, Saulo Siqueira Martins   |
| 15:55 | Leblon      | <b>AI Modeling &amp; Uncertainties</b>       | <b>Unsupervised Facies Classification for Submarine Hazards Mapping: A Case Study from Deep Waters of the Ceará Basin.</b>   | João Victor Anjos, Vinicius Ramos Pinto, Cleverson Guizan   |

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|-------|-------------|---------------------------------------|--|--|
| 15:55 | Ipanema     | Data Processing II                    | <b>Study of anisotropy characterization in weakly anisotropic VTI media through diffraction traveltime parameter clusters</b>                                  | Tiago A. Coimbra, Rodrigo Bloot, Jorge H. Faccipieri   |
| 15:55 | São Conrado | Sustainability in Geophysics          | <b>Natural Hydrogen: How can Geosciences contribute to the energy transition?</b>  | Marco Cesar Schinelli  |
| 15:55 | Barra       | AVO I                                 | <b>Lithofacies Classification using Supervised Machine Learning Techniques</b>   | João Lucas Marques da Silva, Jose Jadsom Sampaio de Figueiredo, Pamela Carolyne Rodrigues Bolsem   |
| 15:55 | Recreio     | Model Building: Theory and Methods II | <b>Use of a priori Regularization in Tomographic Inversion and its implications</b>  | Marcelo Cotta Rost, Luiz Alberto Santos, Marco Cetale  |
| 15:55 | Urca        | Case Study: Integrated Interpretation | <b>The gravimetric study of the Taubaté Basin and its tectonic-structural history</b>  | Fernanda Clara Monteiro Hermes, Leonardo Miquelutti, Guilherme Lenz, Marco Cetale  |
| 16:20 | Leblon      | AI Modeling & Uncertainties           | <b>Using Deep Learning to map volcanics of the Central Atlantic Magmatic Province in the Solimoes Basin: Results of initial experiments Chibata field area</b> | Ana Krueger, Scotty Salamoff   |
| 16:20 | Ipanema     | Data Processing II                    | <b>One-dimensional nonlinear equation for P-wave propagation in heterogeneous medium</b>   | Renan André Peres, Antônio Manoel Ferreira Frasson, Carlos Friedrich Loeffler, Fábio Pavan Piccoli, Julio Tomás Aquije Chacaltana                                    |
| 16:20 | São Conrado | Sustainability in Geophysics          | <b>Sistemas geotérmicos não convencionais a partir de dados multi-físicos na Bacia de São Francisco</b>  | Helen Tiane Alves da Silva, Flora Ferreira Solon   |
| 16:20 | Barra       | AVO I                                 | <b>Petrophysical Evaluation to Optimize Stimulation Design in Pimienta Formation</b>   | Douglas J. Betancourt, Claudio Rabe, Bruna Silveira, Mauricio Hernandez, Jesus P. Salazar, Efren Solorzano   |
| 16:20 | Urca        | Case Study: Integrated Interpretation | <b>Petrobras' Rock Physics Laboratory: 35 Years Squeezing and Shacking Rocks</b>   | Guilherme Fernandes Vasquez, Julio Cesar Ramos Justen, Marcio José Morschbacher, Douglas Luiz Pinto de Lacerda, Marcos Pozzato Figueiredo, Julio Cesar Ramos Justen, |

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