

# OFFICIAL PROGRAM



Rio de Janeiro, 19-22 August 2019

SulAmérica Convention Center



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## 16<sup>th</sup> International Congress of the Brazilian Geophysical Society

The Organizing Committee and the Brazilian Geophysical Society Board of the 16th International Congress of the Brazilian Geophysical Society & EXPOGEf would like to welcome all attendees to this year's conference and exposition. It has been a pleasure to work in the organization of this event, the largest Geophysical conference in South America and the one that brings together the widest group of professionals, scientists, educators and students from several different disciplines in Geoscience.

Celebrating 30 years of the first international congress in 1989, the conference and exposition has become one of the most exciting events in the Latin American geophysical ecosystem, encompassing a broad scope of related disciplines in geoscience. Along with the technical contributions, the SBGf has prepared a set of special sessions and workshops to cover subjects ranging from E&P asset investment and divestment opportunities to professional career development.

The Organizing Committee has worked closely with operators, geophysical service, software and hardware providers and government agencies, to help them structure their showcase opportunity in the EXPOGEf. Besides the effort in the committees, it is time to thank our geophysical community who has surpassed all the targets we have set regarding collaboration on this year's edition, as paper reviewers, contributors, workshop organizers, forum or course schedule and preparation. The list of 9 short courses is a must attend and covers a wide range of disciplines and applications in Geophysics.

Finally, we would like to invite you to our closing dinner on Wednesday evening. This year, we will meet at "CírculoMilitar", by Praia Vermelha, with a beautiful view of Urca and Sugar Loaf mountains. This traditional social gathering is being carefully prepared to make your evening remarkable.

Rio has a magnificent natural beauty so during your time off make sure to visit some of Rio's bestspots, such as Christ the Redeemer and Sugar Loaf. Cultural options are also available at the Museum of Tomorrow, Museum of Modern Art (MAM), Rio's Art Museum(MAR) or the expositionsat the beautiful CCBB. Hikers who may enjoy an extra day off should look into "Pedra Bonita", "Picoda Tijuca" or "Pedra da Gávea" trails, offered by regular hiking tour agencies.

Hope you get the most out of our Conference, meet old friends, make new ones and enjoy your time in Rio de Janeiro!

Organizing Committee



## SBGf BOARD 2017-2019

Neri João Boz  
**President**

José Agnelo Soares (UFCG)  
**Vice President**

Guilherme Sidou Canha (Petrobras)  
**General Secretary**

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**Academic Liaison Secretary**

Luiz Fernando Santana Braga (Invision  
Geophysics)  
**Publications Secretary**

Cleverson Guizan Silva (UFF/LAGEMAR)  
**Editor of Brazilian Journal of  
Geophysics (RBGf)**

### REGIONAL SECRETARIES

Josibel Gomes de Oliveira Junior (UFRN)  
**North Eastern Regional  
Secretary**

Susana Silva Cavalcanti – (DGf/UFBA)  
**Northeast Southern Regional  
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Carolina Barros da Silva (UFPA)  
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Pedro Mário Cruz e Silva (NVIDIA)  
**South Central Regional Secretary**

Maximilian Fries (Unipampa)  
**Southern Regional Secretary**

Weliton Rodrigues Borges (UnB)  
**West Central Regional Secretary**

## ORGANIZING COMMITTEE

Agnelo Soares (UFCG)  
Alan Cunha (Halliburton)  
Ana Cristina Chaves (Geosoft)  
Claudio Guerra (Petrobras)  
Eliane Alves (UFF)  
Ellen Gomes (UFPA)  
Fernando Nogueira (Shell)  
Guilherme Castilho (Rubi E&P)  
José Eduardo Lira (Petrobras)  
Lucas Balancin (Petrobras)  
Marco Brito (Petrobras)  
Neri Boz  
Ricardo Fernandes (Petrobras)  
Simplício Freitas

## COUNCIL MEMBERS

Adalene Moreira Silva (UnB),  
Adriana Perpetuo Socorro da Silva  
(Petrobras), Augusto Cesar Bittencourt  
Pires (UnB), Ellen de Nazaré Souza  
Gomes (UFPA), Liliana Alcazar Diogo  
(IAG/USP), Marco Antonio Pereira  
de Brito (Petrobras), Marco Cesar  
Schinelli (Petrobras), Renato Cordani  
(Reconsult), Rosangela Corrêa Maciel  
(UFRN), Sergio Luiz Fontes (ON)



Praia Vermelha - Urca - Rio de Janeiro - Brasil  
Foto Alexandre Macieira

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## GENERAL SCHEDULE

16 <sup>h</sup> CISBGf	17 August SAT	18 August SUN	19 August MON	20 August TUE	21 August WED	22 August THU	23 August FRI
Short Courses Onsite Registration		07:30am to 9am	7:30am to 9am				
Onsite Registration Conference		09:30am to 5pm	9:30am to 6pm	7:30am to 6pm	7:30am to 6pm	7:30am to 5pm	
Opening Ceremony			5:30pm to 7pm				
EXPOGEf	Assembly	Assembly	7pm to 10pm	9am to 7pm	9am to 7pm	9am to 6pm	Dismantle
TECHNICAL PROGRAM		8:30am to 4:30pm	8:30am to 4:30pm	8:30am to 5:30pm	8:30am to 5:30pm	8:30am to 5:30pm	
SBGf Meeting				12:00pm	12:00pm		
Closing Dinner					8:00pm to 1:00am		



# SBGf AWARDS / PRÊMIOS SBGf

## Paulo Roberto Porto Siston



Graduado em Engenharia Elétrica pela Universidade Veiga de Almeida (UVA), mestrado em Geofísica pela Universidade Federal da Bahia (UFBA) e MBA pela Fundação Getúlio Vargas (FGV). Trabalha na Petrobras desde 1976, onde teve sua carreira voltada para a área de processamento de dados sísmicos primeiramente como Técnico de Exploração e posteriormente como Geofísico. Exerceu diversas funções na área de Exploração – Supervisor, Gerente Setorial de Processamento Sísmico, Gerente de Processamento Geofísico, Gerente de Operações Geofísicas da Petrobras America e Gerente Geral de Geofísica da Petrobras. Atualmente é Gerente Geral de Projetos Exploratórios, responsável pela gestão de projetos e do portfólio exploratório da Petrobras.

Na SBGf, teve a oportunidade de servir durante mais de 20 anos participando da organização de diversos eventos da sociedade, tais como congressos e workshops, atuando em diversas áreas inclusive como responsável pela Expogef e como Chairman, além de ocupar as funções de Conselheiro, Presidente e Vice-presidente. Atualmente é membro do Conselho Permanente de Ex-presidentes.

## Celso Carlos Martins



## Décio Oddone Award: Petroleum Geophysicist

Geólogo com mais de 40 anos de experiência como geofísico de exploração, sendo 31 anos pela Petrobras atuando nos processos do segmento de exploração, tanto em terra quanto em mar, com ênfase em projetos exploratórios de águas profundas.

Graduado em geologia, em 1976 pela UNESP, ingressou na Petrobras em 1977 em Belém – PA. Em 1985 foi transferido para a equipe de interpretação da Bacia de Campos no Rio de Janeiro – RJ, tendo assumido a chefia do Setor de 1989 a 1994.

De 1995 a 2008, ocupou vários cargos gerenciais nas atividades de exploração do E&P da Petrobras. Em fevereiro de 2008 ingressou na OGX Petróleo e Gás Ltda, onde assumiu a Gerência de Exploração de ativos terrestres da companhia, tendo sido responsável pela exploração na Bacia do Parnaíba. Desde 2014 têm atuado como Consultor de Exploração na ENEVA.

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## Naomi Ussami



## Nero Passos Award: Education and Research Geophysicist

Professora Associada aposentada do Departamento de Geofísica da Universidade de São Paulo-USP. Graduação em Física pela USP, PhD em Geofísica pela University of Durham (1986) e pós-doutorado na Cornell University (1995). Suas atividades de pesquisa mais recentes têm como foco a integração de dados gravimétricos e de geóide derivados de missões de satélite e terrestres combinados a sondagens eletromagnéticas profundas em estudos tectônicos e da litosfera continental. Até 2017 foi líder do grupo de Tectonofísica da USP onde coordenou projetos de colaboração com o INPE, Petrobras e as universidades de Trieste (Itália), Michigan (EUA), San Juan (Argentina) e Universidad de la República (Uruguai). Atuou como Editora Associada da Revista Brasileira de Geofísica no início de sua implantação (1985-1987), Diretora de Relações Acadêmicas da SBGf (2005-2007) e Membro do seu Conselho até 2011.

## Cantidiano de Oliveira Freitas



## Irnack do Amaral Award: Mining Geophysicist

Nascido em 03 de janeiro de 1953, em Colinas – MA, graduou-se em Geologia pela Universidade Federal do Rio de Janeiro em 1981, fez especialização em Geofísica em 1983, na mesma Universidade. Atuou como Geofísico de 1984 até hoje (35 anos), na área de interesse de Geofísica Aplicada à Prospecção Mineral para metais base (cobre-ouro-níquel), com aquisição, processamento, interpretação / integração de dados geofísicos, discussão de modelos de mineralização, seleção e priorização de alvos para a tomada de decisão do Programa de Exploração Mineral. De 1984 a 1988, Mineração Colorado / Mineração Marex (BHP – Utha). De 1988 a 1990, Geoserv Pesquisas Geológicas. De 1990 a 1997, Unangem Mineração e Metalurgia (GENCOR, África do Sul). De 1997 a 2003, COF Assessoria Geofísica, Consultor. De 2003 a 2018, VALE SA, nos últimos 15 anos atuando pela VALE na Província Mineral de Carajás, onde contribuiu para a descoberta de vários depósitos estilo Iron-Oxide-Copper-Gold IOCG. Atualmente continua atuando como Consultor para a área Geofísica Aplicada à Metais Base.

# TECHNICAL PROGRAM



*Catedral do Rio de Janeiro e edifícios do centro da cidade do Rio de Janeiro  
Foto Alexandre Macielra*

## SHORT COURSES

Sunday, 18 August

8:30am-12pm  
1:30pm-4:30pm

**SC1 - Applications to Seismic Interpretation**

**Lecturer:** Carlos Varela, Petrobras  
**Leblon room**

**SC4 - Seismic Reservoir Characterization Principles and Workflows**

**Lecturer:** Ekaterina Kneller, CGG  
**Flamengo room**

**SC5 - Machine Learning and Deep Learning Tutorial**

**Lecturers:** Dr. Alexandre G. Evsukoff (Coppe/UFRJ), Carlos Eduardo Menezes dos Anjos (Coppe/UFRJ) and Manuel R. Vargas (Coppe/UFRJ)  
**Barra room**

**SC6 - Fundamentals of Full Waveform Inversion**

**Lecturer:** Julio Frigério, Petrobras  
**Urca room**

**SC8 - Teoria da Inversão aplicada à interpretação geofísica**

**Lecturer:** João Batista Corrêa da Silva, Universidade Federal do Pará  
**Ipanema room**

Monday, 19 August

8:30am-12pm  
1:30pm-4:30pm

**SC2 - Time-Lapse (4D) Reservoir Monitoring**

**Lecturer:** Marcos Hexsel Grochau, Petrobras  
**Ipanema room**

**SC3 - Tectonics and Sedimentation in Petroliferous Basins**

**Lecturer:** Pedro Zalán, ZAG Consulting  
**Leblon room**

**SC7 - Geostatistical reservoir modeling and uncertainty quantification**

**Lecturer:** Dario Grana, University of Wyoming  
**Urca room**

**SC9 - Least Squares Migration**

**Lecturer:** Jerry Schuster, KAUST  
**Flamengo room**

## Opening Events

5:30pm	<b>Opening Session</b> Challenges and Prospects for the Oil and Gas Industry Rebound in Brazil <b>Keynote Speaker:</b> Prof. Dr. Edmar Luiz Fagundes de Almeida (Universidade Federal do Rio de Janeiro)
7-10pm	<b>Icebreaker and Exhibition Showcase</b>

## 366 Technical Papers

### CHAIRMEN BREAKFAST

Session chairmen are urged to attend the Breakfast on the day of their presentation.  
**Cocotá room: 7:30am to 8am – 21-22 August**

### LANGUAGE

The Technical Program Committee strongly encourages presentations in English. However, Spanish and Portuguese presentations will be accepted. There will be no simultaneous translation of the presentations.

# TECHNICAL PROGRAM AT A GLANCE

Ilha Fiscal  
Foto Pedro Kirilos



## OPENING PANEL

**Tuesday, 20 August**

9:30am-noon – Copacabana and Recreio rooms

### Geophysics Contribution to the E&P Cycle Reduction

**Moderator:** Guilherme Castilho (Rubi)  
**Participants:** Ana Serrano, Senior Vice President of Petroleum Technology (Equinor Brazil), Joris Grimbergen, General Manager Exploration (Shell), Lincoln Guardado, CEO (Enauta), Marcelo de Assis, Head of Upstream Research- Latin America (Wood Mackenzie), Mário Carminatti, Exploration Executive Manager (Petrobras), and Robert Prueser, Venture Operations Manager – Brazil (Exxonmobil)

## WORKSHOPS

**Thursday, 22 August**

9:00am - Ipanema room

### Workshop de P&D em Geofísica para Indústria de Petróleo e Gás

**Organizer:** Guilherme Castilho (Rubi)  
**Participants:** Alan Cunha (Halliburton), Alfredo Renault (ANP), Igor Braga (Invision), Josias Silva (Petrec), Marco Antônio Cetale (UFF), Martin Tygel (UNICAMP), Rui Pinheiro (Petrobras)

13:55pm - Botafogo room

### Workshop: Perfil Profissional do Geofísico

**Organizer:** Alan Cunha (Halliburton)  
**Participants:** Catia Bastos (Petrobras), Mariana Nejaim (Shell), Daniel Compan (Halliburton), Maicon Fiúza (CGG), Paula Lobo (Equinor)

14:15pm-15:45pm - Ipanema room

### Workshop: Recent Deghosting applications in Petrobras Seismic Processing

**Organizers:** Eduardo Filpo (Petrobras) and Gilberto de Lima (Petrobras)

14:10pm-16:50pm – Leblon room

### Workshop: Seismic in the Geomechanics Workflow

**Organizer:** Luiz Alberto Santos (Petrobras)

14:00pm-17:00pm – Barra room

### Workshop: Seismostratigraphy

**Organizers:** Anderson Cavalcante (CGG) and Hernani Chaves (UERJ)  
**Participants:** Eliane Petersohn (ANP), Gabriele Dries (Shell), Luiz Loures (Equinor) and Paulo Johann (Petrobras)

13:55pm-17:25pm – Recreio room

### Workshop: Unveiling the Pre-Salt with Waves: FWI and LSqM in the Santos and Campos Basins

**Organizers:** João Logrado (Petrobras) and Pedro Bertussi (Petrobras)

14:00-17:00pm – Flamengo room

### Digital Transformation and Artificial Intelligence in Exploration - Impacts for Projects with Complex Geology

**Organizer:** Pedro Mario Cruz e Silva (NVIDIA)  
**Participants:** Alexandre Evsukhof (UFRJ), André Bulcão (Petrobras), Graham Baines (Halliburton) and João Paulo Navarro (NVIDIA)

## SPECIAL SESSIONS

**Wednesday, 21 August**

9:30am-noon – Arpoador room

### New Opportunities in the E&P Market in Brazil

**Organizers:** Fernando Nogueira (Shell) and Ricardo Rosa Fernandes (Petrobras)

1:55pm-5pm – Barra room

### ANP - Unveiling the prospectivity in the upcoming bidding rounds & Digital Transformation

**Organizer:** Renato Fonseca (Pré-sal Petróleo S.A.)

1:55pm-5pm – Leme room

### Pré-Sal: a saga. A história de uma das maiores descobertas de Petróleo do mundo

**Organizer:** Marco Antonio Pinheiro Machado  
**Participants:** Ana Patrícia Laier (AEPET/Sindipetro-RJ), Felipe Coutinho (AEPET), Guilherme Estrela, Leonardo Matos (EGN)

## ROUND TABLES

**Thursday, 22 August**

9am - 11am – Flamengo room

### Segurança, Meio ambiente e Saúde nas Operações Geofísicas

**Moderator:** Cláudio Falcão (Petrobras)  
**Participants:** Gerhard Peters (CGG), Marco Antônio Braga (UFRJ), Marcus Petracco (Petrobras), Ronnie Grimberg (Magseis Fairfield), Stéphane Dezaunay (PGS)

9am-11am - Vermelha room

### Women in Geosciences

**Organizer:** Aline Tavares de Melo (UFMG) and Elaine Loureiro (ANP)

13:55pm - Urca room

### Banco nacional de Dados Gravimétricos (BNDG): situação atual e perspectivas para o futuro

**Organizer:** Luiz Braga (Invision)  
**Participants:** Cláudio Jorge Martins de Souza (ANP), Elaine Loureiro (ANP), João Batista Andrade (CPRM), Roberto Paulo Zanon Santos (USP/IAG), Sonia Costa (IBGE)

## ORAL SESSIONS

**Tuesday, 20 August**

Afternoon: 1:55pm-5:25pm

Break: 3:35pm

### Exploration - Case Histories

**Chairpersons:** Eduardo Faria (Enauta) and José Eduardo F. Pinheiro (Petrobras)  
**Botafogo room**

### RTM, Least Squares and Kirchhoff Methods

**Chairpersons:** Carlos Cunha (Petrobras) and Djaima Soares (Petrobras)  
**Copacabana room**

### Space Geophysics

**Chairpersons:** Emanuel Capecchi (Petrobras) and Lígia Alves da Silva (INPE)  
**Flamengo room**

### Geophysical Signal Processing

**Chairpersons:** Adelson Oliveira (Petrobras) and Ramesh Neelamani (ExxonMobil)  
**Ipanema room**

### Reservoir Monitoring

**Chairpersons:** Denis Ferreira (CGG) and Marco Schinelli (Petrobras)  
**Leblon room**

### Petrophysics

**Chairpersons:** Ana Patricia Laier (Petrobras) and Matheus Sobreira (Petrobras)  
**Leme room**

### Near Surface

**Chairpersons:** Alan Cunha (Halliburton) and Saulo Martins (UFRRJ)  
**Recreio room**

### Seismic Modelling

**Chairpersons:** Julio Frigério (Petrobras) and Webe Mansur (UFRJ)  
**Urca room**

**Wednesday, 21 August**

Morning: 8:30am-noon

Break: 10:10am

### Interpretation Case Studies 1

**Chairpersons:** Gilberto de Lima (Petrobras) and Luis Loures (Equinor)  
**Botafogo room**

### Full Waveform Inversion 1 – FWI

**Chairpersons:** Adel Khalil (CGG) and André Bulcão (Petrobras)  
**Copacabana room**

### Solid Earth & Earthquakes

**Chairpersons:** Amin Murad (Petrobras) and Elita de Abreu (Petrobras)  
**Flamengo room**

### Multi-physics methods

**Chairpersons:** Leandro B. Adriano (Ecopetrol) and Paulo de Tarso de Menezes (Petrobras)  
**Ipanema room**

### Reservoir Characterization

**Chairpersons:** José Claver (Petrobras) and Rogério Santos (Petrobras)  
**Leblon room**

### Petrophysics

**Chairpersons:** Anderson Pimentel (Petrobras) and Fabio Monteiro de Lima (Petrobras)  
**Leme room**

### Near Surface 2

**Chairpersons:** Cleverson Guizan (UFF) and Pedro Chira (UFPa)  
**Recreio room**

### Seismic Acquisition

**Chairpersons:** Franco Pezzini (Petrobras) and Mario Sergio Costa (Petrobras)  
**Urca room**

Afternoon: 1:55pm-5:25pm

Break: 3:35pm

### Unconventional Reservoirs

**Chairpersons:** Alexandre Kolynsnik (Petrobras) and Jorge Fiori Sobreira (Petrobras)  
**Botafogo room**

### Full Waveform Inversion 2 – FWI

**Chairpersons:** Alejandro Alcudia-Leon (PGS) and Gustavo Catão (Petrobras)  
**Copacabana room**

### Electromagnetic Methods

**Chairpersons:** Cicero Regis (UFPa) and José Antonio Souza (UFF)  
**Flamengo room**

### Mining Geophysics

**Chairpersons:** Aline Tavares Melo (UFMG) and Rodrigo Bijani (UFF)  
**Ipanema room**

### Multiples: attenuation and imaging

**Chairpersons:** Paulo Carvalho (Petrobras) and Roberto Pereira (CGG)  
**Leblon room**

### Machine Learning and Artificial Intelligence

**Chairpersons:** Marcos Machado (Petrobras) and Cesar Calderon (Petrobras)  
**Recreio room**

### AVO Inversion and Rock Physics

**Chairpersons:** Guilherme Vasquez (Petrobras) and Viviane Farroco (Petrobras)  
**Urca room**

**Thursday, 22 August**

Morning: 8:30am-noon

Break: 10:10am

### Seismic Imaging

**Chairpersons:** Jorge Lopez (Shell) and Márcia Pimentel (Petrobras)  
**Botafogo room**

### Full Waveform Inversion – FWI

**Chairpersons:** Djalma Soares (Petrobras) and Júlio Frigério (Petrobras)  
**Copacabana room**

### Interpretation Case Studies

**Chairpersons:** Alexandre Maul (Petrobras) and Leonardo Teixeira (Petrobras)  
**Leblon room**

### Velocity Model Building

**Chairpersons:** Bruno Dias (Petrobras) and Florian Joumo (CGG)  
**Leme room**

### Machine Learning, Artificial Intelligence & HPC

**Chairpersons:** Antonio Azambuja (Petrobras) and Hélio Lopes (PUC-RIO)  
**Recreio room**

# TECHNICAL PROGRAM AT A GLANCE



## POSTER SESSIONS

Tuesday, 20 August

Afternoon	<b>AVO Inversion and Rock Physics</b> Chairperson: Elita de Abreu (Petrobras)	<b>Electromagnetic Methods</b> Chairperson: Eliane Alves (UFF)	<b>Fault and Fracture Analysis</b> Chairperson: Luiz Alberto Santos (Petrobras)	<b>Full Waveform Inversion</b> Chairperson: André Bulcão (Petrobras)	<b>Interpretation Case Studies 1</b> Chairperson: Cludemir Vasconcellos (Petrobras)	<b>Velocity Model Building</b> Chairperson: Ana Paula Muller (Petrobras)
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Wednesday, 21 August

Morning	<b>Electromagnetic Methods 2</b> Chairperson: Alan Cunha (Halliburton)	<b>Geomechanical Modeling &amp; Pore Pressure Prediction</b> Chairperson: Luiz Alberto Santos (Petrobras)	<b>Geophysical Signal Processing</b> Chairperson: Paulo Cunha (Petrobras)	<b>Machine Learning and Artificial Intelligence</b> Chairperson: Ramon Ferrari (Petrobras)	<b>RTM/LsqM &amp; Seismic Imaging</b> Chairperson: Danian Steinkirch (Petrobras)	<b>VSP and Borehole Geophysics</b> Chairperson: Roberto Dias (Petrobras)
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Lunch

Afternoon	<b>Interpretation Case Studies</b> Chairperson: André Araújo (Petrobras)	<b>Near Surface 1</b> Chairperson: Felipe Melo (ON)	<b>Geophysical Signal Processing</b> Chairperson: Lucas Balancin (Petrobras)	<b>Petrophysics</b> Chairperson: Márcio Morschbacher (Petrobras)	<b>Reservoir Characterization</b> Chairperson: Leonardo Teixeira (Petrobras)
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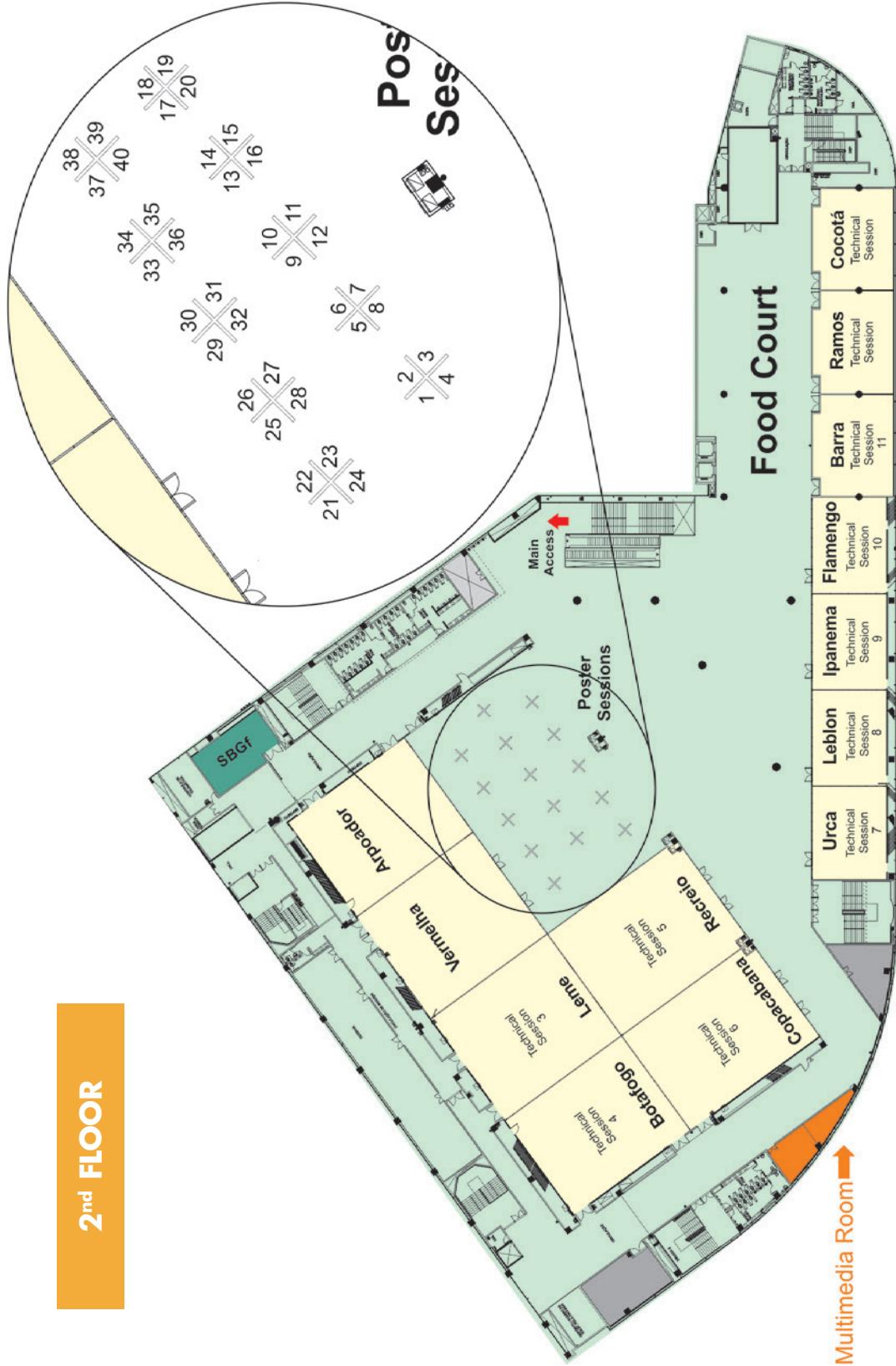
Thursday, 22 August

Morning	<b>Exploration-Case Histories</b> Chairperson: Marcelo dos Santos (Petrobras)	<b>Mining Geophysics</b> Chairperson: Rodrigo Bijani (UFF)	<b>Multi-physics methods</b> Chairperson: Amin Murad (Petrobras)	<b>Near Surface</b> Chairperson: Saulo Martins (UFRJ)	<b>Petrophysics</b> Chairperson: Ana Patricia Laier (Petrobras)	<b>Reservoir Monitoring</b> Chairperson: Matheus Sobreira (Petrobras)
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# TECHNICAL SESSIONS FLOOR PLAN

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2nd FLOOR





## HÁ MAIS DE 100 ANOS USANDO TECNOLOGIA PARA IMPULSIONAR O BRASIL E O MUNDO

Este ano, a Shell completou 106 anos de atividades contínuas no Brasil, reforçando nosso compromisso de longo prazo com o País e marcando o pioneirismo na indústria.

Esse comprometimento está baseado em três valores centrais: honestidade, integridade e respeito pelas pessoas. Juntos, esses pilares sustentam a nossa história de sucesso.

Por aqui, vamos continuar fazendo a nossa parte, inovando e recebendo de braços abertos pessoas e empresas que quiserem continuar escrevendo essa trajetória com a gente.



[facebook.com/ShellBrasil](http://facebook.com/ShellBrasil)



[twitter.com/shell](http://twitter.com/shell)



[youtube.com/shell](http://youtube.com/shell)



# SBGf OPENING PANEL

Tuesday, 20 August, Morning | 9:30am-noon – Copacabana and Recreio rooms

## GEOPHYSICS CONTRIBUTION TO THE E&P CYCLE REDUCTION

THIS PANEL IS OPEN TO ALL DELEGATE AND EXHIBITORS

### Moderator: Guilherme Castilho (Rubi)



Guilherme Castilho graduated in Geological Engineering from Federal University of Ouro Preto (UFOP). Mr. Castilho has a solid technical background with over 15 years experience in the oil & gas industry, project management and team leadership in several countries. In 2000 he joined Gorceix Foundation, being involved in interpretation projects for the Brazilian equatorial margin. Between 2004 and 2010 Mr. Castilho have worked for different seismic acquisition companies, including CGG. In these companies he was responsible mostly for designing and planning seismic operations in several sedimentary basins in Latin America. In 2010 Mr. Castilho joined STR Holding as Exploration Geophysics Manager, when he was responsible for reintroducing Vibroseis technology in Brazil and for acquiring the largest onshore seismic survey in the country. In 2014 he was appointed Country Manager for Global Geophysical and was involved in several large proprietary and multi-client projects. In 2018 he founded Rubi E&P, a company specialized in providing creative exploration strategies for onshore and offshore blocks, dealing with ANP and presenting opportunities for potential investors and partners.

### Ana Serrano, Senior Vice President of Petroleum Technology (Equinor Brazil)



Mrs. Serrano has more than 30 years of industry experience and is currently the Senior Vice President of Petroleum Technology in Equinor Brazil. She began her career in Madrid as a geoscientist working for Repsol in Europe, North Africa and Middle East and later in Brazil, where she led the Santos Basin evaluation team and participated in several important discoveries among them opening up the prolific pre-salt play. In 2008 Serrano joined Statoil, first in the Brazilian Exploration team and then heading up Equinor's West Africa access project. After that, she worked in Stavanger as VP New Ventures Exploration Africa and Latin America during a period where Equinor entered in Colombia and Nicaragua and set the basis for new entry in South Africa, Mozambique and others. She has been instrumental in developing Equinor's understanding of the subsurface value and commercial awareness across the South Atlantic. From 2014 to 2018, she has been focused on profitable growth as VP Exploration Brazil participating in several world class projects (exploration access, drilling, discoveries, operatorship, acquisition, award) as Pao and Carcará fields as operator and entered in 3 high value high quality pre-salt opportunities. Ana uses her global expertise, passion and external orientation to inspire a team to unlock Brazil Potential and develop local organization, always searching for the next big thing through access, explore, discover and deliver barrels. Ana is married, has three daughters and resides in Rio de Janeiro, Brazil.

### Joris Grimbergen, General Manager Exploration (Shell)



Joris Grimbergen is General Manager Exploration for Shell's Deepwater business in Brazil. He previously held leadership positions in Shell Upstream Turkey, with Arrow Energy in Queensland, Australia and in Shell's Gulf of Mexico Exploration organization. Joris started with Shell in geophysical research after graduating from Delft University of Technology with a MSc. degree in Applied Physics. He also holds a MSc. degree in Business Administration from Nyenrode University in The Netherlands.

## **Lincoln Rumenos Guardado, Chief Executive Officer - Enauta**



Mr. Lincoln R. Guardado is a Geology graduate from the University of São Paulo (USP) with more than 35 years of experience in the Petroleum Industry, working on both onshore and offshore basins.

In his long professional experience, worked for Petrobras from 1974 until 2009, where he held several positions including Petrobras General Exploration Manager, and was an active participant with negotiations between Petrobras and ANP during the Brazilian opening for E&P activities in 1997. As Chief of Interpretation in the Campos basin, he was part of the team responsible for the discovery of giant oil fields, such as: Marlim, Albacora East, Barracuda, and Marlim South; among others.

His international experience as Exploration Manager, in Libya and Colombia, provided him with a global perspective of the industry, which resulted in his appointment in 2006 as a General Exploration Manager at Petrobras International working with basins in South America, GOM, Africa and Europe.

Mr. Guardado joined the Queiroz Galvão Group in 2009 and has been on the Exploration Board since the creation of QGEP. Since July of 2012, he has held the position of C.E.O. of the Company. As per October of 2017, he has held position as board member of QGOG Constellation. With several published articles, he is an active member of AAPG (U.S.A.) since 1979, SBGf (Brazil), and SBG (Brazil), a member of the IBP Council (Brazilian Petroleum Institute), and President of the E&P Board (ABEP). He also took part in many executive education institutes like Thunderbird (USA) and INSEAD (France).



## **Marcelo de Assis, Head of Upstream Research - Latin America (Wood Mackenzie)**

Marcelo joined the Upstream Research team in March 2019, as Head of Latin America based in Rio de Janeiro. Marcelo is responsible for the teams in Houston, Mexico, and Rio de Janeiro that are providing analytical and research coverage for the entire region.

Prior to joining Wood Mackenzie, Marcelo worked for Shell and BG for seventeen years in Brazil, Caribbean, Russia, West Africa, and Asia in a variety of finance, commercial, and petroleum economics roles that covered upstream (onshore, shelf, and deep water) and midstream assets.

Marcelo graduated from Escola Politécnica in São Paulo, Brazil with a BSc in Chemical Engineering and holds his MBA from INSEAD in Fontainebleau, France.

## **Mario Carminatti, E&P Executive Manager - Petrobras**



Dr. Mario Carminatti, 64 years old, was born in Brazil and graduated in Geology at the Universidade do Vale do Rio dos Sinos, Rio Grande do Sul, Brazil, in 1977. Working for Petrobras since 1978, he began as well-site geologist in the Amazon region. In the early 1980's he joined the exploration team of Campos Basin, when PETROBRAS discovered the first giant oil fields in deep waters. In 1991 completed his Ph.D. program on Stratigraphy and Sedimentology at the University of Parma, Italy.

Returning from Italy he joined the interpretation team in the Campos Basin. From 1996 to 1998 he coordinated the Deep-Water Petroleum System Evaluation Program. From 1998 to 2008 he had been the Exploration Manager of New Frontier Areas and of South Coast Brazilian basins, conducting the exploratory activities in the Santos Basin.

Currently he is the Petrobras Exploration Executive Manager, responsible for the entire exploratory activity in Brazil.



## **Robert Prueser, Venture Operations Manager – Brazil (Exxonmobil)**

Robert is a geoscientist by training and has been with ExxonMobil for more than 24 years. In that time, he has generated opportunities and managed several projects across the entire asset life cycle in N. America (US & Canada), West Africa, Europe, and Russia. He has been a strong supporter of geophysical data acquisition and has executed several proprietary acquisition and processing projects to deliver profitable returns. He has a MSc. in geology from the University of South Carolina and a BS in geology from Gustavus Adolphus College.

## Oral Presentation

Tuesday, 20 August - Afternoon

ROOM:	BOTAFOGO
SESSION:	EXPLORATION - CASE HISTORIES
CHAIRPERSON(S):	EDUARDO FARIA (ENAUTA) AND JOSÉ EDUARDO F. PINHEIRO (PETROBRAS)

13:55 - 14:20	Resistivity and Induced Polarization applied to epithermal gold deposit in the Torre Target, at Castro Basin-PR - Francesco Antonelli (LPGA-UFPR), Rodoilton Stevanato (LPGA-UFPR), Maximilian Fries (Unipampa), Gustavo Correa Abreu (IGC-USP), Francisco José Fonseca Ferreira (LPGA-UFPR), Vinicius Dias Serrano (Verdau Gold)
14:20 - 14:45	Modelagem de dados de potencial espontâneo (sp) e sua integração com dados de resistividade elétrica em lavras do sul (RS) uma perspectiva na prospecção aurífera - Matheus Freire Souza Barcelos Guimarães (UNIPAMPA), Mario Jesus Tomas Rosales (UNIPAMPA), Ana Laura Lordi Dias (UNIPAMPA), Guilherme Alcalde (UNIPAMPA)
14:45 - 15:10	MODELAGEM DE DADOS DE POTENCIAL ESPONTÂNEO (SP) E SUA INTEGRAÇÃO COM DADOS DE RESISTIVIDADE ELÉTRICA EM LAVRAS DO SUL (RS): UMA PERSPECTIVA NA PROSPECÇÃO AURÍFERA - Matheus Freire Souza Barcelos Guimarães (UNIPAMPA), Mario Jesus Tomas Rosales (UNIPAMPA), Ana Laura Lordi Dias (UNIPAMPA), Guilherme Alcalde (UNIPAMPA)
15:10 - 15:35	Case Study: Seismic Velocity Anomalies Analysis for Gas Detection in Potiguar Basin - Frank Cenci Bulhões (Petrobras), Gleidson Diniz Ferreira (Petrobras), Rogério de Araújo Santos (Petrobras), José Eduardo Mendoça Lira (Petrobras), Julio Garcia Cavalho (Petrobras), Arnaldo Tanaka (Petrobras), Jose Ferrer (Petrobras)
15:35 - 15:45	COFFEE BREAK
15:45 - 16:10	New Processing and Seismic Interpretation for the Northern São Francisco Basin, Brazil — Part 2 - Tiago Santos Cabral (Petrobras), Cristiany Pereira (Petrobras), Armando Lopes Farias (Petrobras), João Marinho de Moraes Neto (Petrobras), Raquel de Barros Gelli (Petrobras), Lucas Gondim Miranda (Petrobras), Felipe Vieira Capucci (Petrobras), Ivo Trosdtorf Júnior (Petrobras)
16:10 - 16:35	Maximizing the value of seismic data for a better regional understanding and exploration assessment in the Santos Basin, Brazil - Raul Ysaccis (Schlumberger - WesternGeco), Mohamed El-Toukhy (Schlumberger - WesternGeco), Leandro Belarmino Moreira (Schlumberger - WesternGeco)
16:35 - 17:00	Extraordinary remaining potential in the Pre-Salt of the Santos Basin - Pedro Victor Zalán (ZAG Consulting in Petroleum Exploration), Karyna Rodriguez (SPECTRUM Geo), Milos Cvetkovic (SPECTRUM Geo)
17:00 - 17:25	High-resolution Seismic imaging in the Santos Basin, Brazil and its impact on Salt Mechanics - Hermann Lebit (PGS), Sriram Arasanipalai (PGS), Jeff Tilton (PGS), Pascal Ollagnon (PGS), Bruno Virlouvet (PGS)

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ROOM:	COPACABANA
SESSION:	RTM, LEAST SQUARES AND KIRCHHOFF METHODS
CHAIRPERSON(S):	CARLOS CUNHA (PETROBRAS) AND DJALMA SOARES (PETROBRAS)
13:55 - 14:20	Migração por Mínimos Quadrados usando condição de imagem com amplitude verdadeira: uma abordagem no domínio da imagem - Natié Almeida Albano (Universidade Federal do Pará), Jessé Carvalho Costa (Universidade Federal do Pará), Jörg Schleicher (Universidade Estadual de Campinas)
14:20 - 14:45	Finite-Difference Kirchhoff Migration - Gerson Luis da Silva Ritter (Petrobras), Carlos Alves da Cunha Filho (Petrobras), Fernanda Amorim de Castro Thedy (Petrobras), Alexandre Ferreira Sardinha de Mattos (Petrobras), Nelson Ilboshi Hargreaves Costa (Petrobras)
14:45 - 15:10	Broadband imaging, least-squares migration in the image domain, and depth-domain inversion over a production field in the Mississippi Canyon area, Gulf of Mexico - Mohamed Hegazy (WesternGeco), Leo Leon (WesternGeco), Mohamed Sabri Majdoub (WesternGeco), Olga Zdraveva (WesternGeco), Charles Inyang (WesternGeco), Ken Hargrove (Ridgewood Energy), Katy Pasch (LLOG Exploration), John Hollins (LLOG Exploration)
15:10 - 15:35	Combination of the Salt Stratifications and the Least-Square Migration to evaluate their Improvements for the Pre-Salt Reservoir Images in the Santos Basin, Brazilian Offshore - Josué Sá da Fonseca (Petrobras), André Bulcão (Petrobras), Bruno Pereira Dias (Petrobras), Roberto de Melo Dias (Petrobras), Leonardo Márcio Teixeira da Silva (Petrobras), Alexandre Rodrigo Maul (Petrobras), Filipe Augusto de Souto Borges (Petrobras)
15:35 - 15:45	COFFEE BREAK
15:45 - 16:10	Joint Migration Inversion continuous equations and discretized solution via multiparameter Gauss-Newton method - Carlos André Martins de Assis (Universidade Estadual de Campinas), Yudi Pan (Karlsruhe Institute of Technology), Joerg Schleicher (Universidade Estadual de Campinas), Thomas Bohlen (Karlsruhe Institute of Technology), Henrique Bueno dos Santos (Universidade Estadual de Campinas)
16:10 - 16:35	Experiences of image-domain least-squares migration for quantitative interpretation - Maud Cavalca (Schlumberger), Robin P. Fletcher (Schlumberger), Robert Bloor (Schlumberger)
16:35 - 17:00	Least-squares migration with angle gathers - Alejandro A. Valenciano (PGS), Nizar Chemingui (PGS)
17:00 - 17:25	Least Squares Migration: Improvements in Quantitative Analysis - Bruno Pereira Dias (PETROBRAS), Claudio Guerra (PETROBRAS), André Bulcão (PETROBRAS), Roberto de Melo Dias (PETROBRAS)

<b>ROOM:</b>	FLAMENGO
<b>SESSION:</b>	SPACE GEOPHYSICS
<b>CHAIRPERSON(S):</b>	EMANUEL CAPECHI (PETROBRAS) AND LÍGIA ALVES DA SILVA (INPE)

14:20 - 14:45	Global Recovery of the Outer Radiation Belt Under Influence of the High Speed Stream during Van Allen Probes Era: Preliminary Results- Ligia Alves da Silva (State Key Laboratory of Space Weather, National Space Science Center, Chinese Academy of Sciences / Instituto Nacional de Pesquisas Espaciais, Brazil), Livia Ribeiro Alves (INPE), David Sibeck (NASA Goddard Space Flight Center, Greenbelt, MD, USA.), Vitor Souza (INPE), Paulo Jauer (State Key Laboratory of Space Weather, National Space Science Center, Chinese Academy of Sciences / Instituto Nacional de Pesquisas Espaciais, Brazil), José Paulo Marchezi (INPE), Vinicius Deggeroni (INPE), Luis Vieira (INPE), Chi Wang (State Key Laboratory of Space Weather, National Space Science Center, Chinese Academy of Sciences), ShiJiankui (State Key Laboratory of Space Weather, National Space Science Center, Chinese Academy of Sciences), Zhengkuan Liu (State Key Laboratory of Space Weather, National Space Science Center, Chinese Academy of Sciences)	
14:45 - 15:10	Análise espectral usando a transformada contínua de wavelet para pulsões magnéticas Pc5 em áreas magneticamente conjugadas - Edwin Leonardo Camacho Linares (Observatório Nacional - ON), Benyosef Luiz (Observatório Nacional - ON), Odim Mendes (Instituto Nacional de Pesquisas Espaciais - INPE)	
15:10 - 15:35	Analysis of geomagnetic storms in South Atlantic Magnetic Anomaly (SAMA) - Júlia Maria Soja Sampaio (Universidade de Brasília), Elder Yokoyama (Universidade de Brasília), Luciana Figueiredo Prado (Universidade de Brasília)	
15:35 - 15:45	<b>COFFEE BREAK</b>	
15:45 - 16:10	Seasonal variation of salinity on the island of Tatuoca and its influence on the vertical component of the geomagnetic field - Sophia Rodrigues Laranja (Observatório Nacional), Paulo Buarque de Macedo Guimarães (Universidade Federal Fluminense), Luiz Carlos de Carvalho Benyosef (Observatório Nacional)	
16:10 - 16:35	The use of a pseudo-invariant target for the calibration of thermal infrared data by split-window and single-channel methods - Pâmela Suélen Käfer (CEPSRM-UFRGS), Maria Luján Iglesias (CEPSRM-UFRGS), Nájila Souza da Rocha (CEPSRM-UFRGS), Lucas Diaz (CEPSRM-UFRGS), Silvia Beatriz Alves Rolim (CEPSRM-UFRGS)	
16:35 - 17:00	STUDY OF THE PERIODICITY OF MOONQUAKES AND THEIR CAUSALITIES - Lyara Villanova Silverio (Universidade de Brasília - UnB), Elder Yokoyama (Universidade de Brasília - UnB), George Sand Leão Araújo de França (Universidade de Brasília - UnB)	

<b>ROOM:</b>	IPANEMA
<b>SESSION:</b>	GEOPHYSICAL SIGNAL PROCESSING
<b>CHAIRPERSON(S):</b>	ADELSON OLIVEIRA (PETROBRAS) AND RAMESH NEELAMANI (EXXONMOBIL)

13:55 - 14:20	Magnetic artifacts due to spatial aliasing effect: a case from southeast Minas Gerais aeromagnetic dataset - Tobias Maia Rabelo Fonte Boa (Universidade Federal de Minas Gerais), Aline Tavares Melo (Universidade Federal de Minas Gerais), Tiago Amâncio Novo (Universidade Federal de Minas Gerais)	
14:20 - 14:45	Why Reprocess Seismic Data - Wander Nogueira de Amorim (Central de Imageamento Geofísico Ltda. - ClimaGeo), Felipe Zumba Amorim (Central de Imageamento Geofísico Ltda. - ClimaGeo), Gabriel de Almeida Araujo (Central de Imageamento Geofísico Ltda. - ClimaGeo), Luiz Henrique Gomes Popoff (Central de Imageamento Geofísico Ltda. - ClimaGeo), Pedro Henrique Cáceres Figueiredo (Central de Imageamento Geofísico Ltda. - ClimaGeo)	
14:45 - 15:10	Using Adaptive Differential Evolution algorithm to improve parameter estimation in seismic processing - José Ribeiro (CEPETRO/UNICAMP), Nicholas T. Okita (CEPETRO/UNICAMP), Tiago A. Coimbra (CEPETRO/UNICAMP), Gustavo B. Ignácio (CEPETRO/UNICAMP), Martin Tygel (CCES/CEPID and CEPETRO/UNICAMP)	
15:10 - 15:35	Warping source deghost in multicomponent post-stack data - Cesar Jose Calderon Filho (Petrobras),	
15:35 - 15:45	<b>COFFEE BREAK</b>	
15:45 - 16:10	Mapping discontinuities using a geometric attribute: The MSA applied to Neuquen Basin and Marizeiro Field- José Eduardo M. Lira (PETROBRAS), Rogério Santos (PETROBRAS), Frank Bulhões (PETROBRAS), Gleidson Ferreira (PETROBRAS), Arnaldo Tanaka (PETROBRAS), Júlio Carvalho (PETROBRAS), Adriano Barreto (PETROBRAS), José Eduardo Ferrer Pinheiro (PETROBRAS)	
16:10 - 16:35	Application of continuous wavelet transforms for swell noise attenuation - Gustavo Catão Alves (Petrobras), André Bulcão (Petrobras), Djalma Manoel Soares Filho (Petrobras), Bruno Pereira Dias (Petrobras), Felipe Prado Loureiro (Fundação Gorceix)	
16:35 - 17:00	Inverting airborne gamma-ray spectrometry data of Maricá calibration range, Brazil - Jessica Derkacz Weihermann (Universidade Federal do Paraná), Saulo Pomponet Oliveira (Universidade Federal do Paraná), Francisco José Fonseca Ferreira (Universidade Federal do Paraná), Adalene Moreira Silva (Universidade de Brasília)	
17:00 - 17:25	A greed algorithm for seismic data interpolation using the approximate irregular discrete Fourier transform - Adelson Santos de Oliveira (PETROBRAS), Hugo de Lemos Haas (PETROBRAS)	

## Oral Presentation

Tuesday, 20 August - Afternoon

ROOM:	LEBLON
SESSION:	RESERVOIR MONITORING
CHAISPERSON(S):	DENIS FERREIRA (CGG) AND MARCO SCHINELLI (PETROBRAS)

13:55 - 14:20	A conventional 4D and a snapshot 4D comparison in the Campos Basin - Elizabeth Beal (Shell Exploration and Production), Tingting Chang (Shell Exploration and Production), Yi Chen (Shell Exploration and Production), Gautam Kumar (Shell Exploration and Production), Carlos Nieto (Shell Exploration and Production)
14:20 - 14:45	New 4D imaging approaches with typical sparse seismic acquisitions for reservoir monitoring - Didier Lecerf (PGS)
14:45 - 15:10	Transformative changes in Distributed Acoustic Sensing (DAS) hydraulic fracture and VSP monitoring - David E. Diller (NanoSeis, LLC), Pete Richter (Silixa, LLC)
15:10 - 15:35	Fully Autonomous Marine Seismic Acquisition Systems for Reservoir Monitoring - Jorge Luis Lopez (Shell Brasil Petroleo Ltda), Samantha Grandi (Shell International Exploration & Production Inc.)
15:35 - 15:45	COFFEE BREAK
15:45 - 16:10	Chemistry, a step ahead in Rock Physics applied to Time-lapse Seismic - José Cláuver de Aguiar Junior (PETROBRAS),
16:10 - 16:35	Influência do Sentido de Detonação da Fonte no Piloto 4D Nodes no Campo de Lula - Gilberto Rodrigues de Lima (Petrobras), Eduardo Naomitsu Agapito Urasaki (Petrobras), Adriana Lucia Cerri Triques (Petrobras), Felipe Andrade Apolonio (Petrobras), Carlos Theodoro (Petrobras)
16:35 - 17:00	Methodologies for Passive Seismic Event Location: based on Wave Propagation - André Bulcão (Petrobras), Gustavo Catão Alves (Petrobras), Bruno Pereira Dias (Petrobras), Alexandre Augusto Cardoso da Silva (Petrobras), DJALMA MANOEL SOARES FILHO (Petrobras)
17:00 - 17:25	Using full wave seismic modeling to test 4D repeatability for Libra pre-salt field. - Christian DEPLANTE (Libra Joint Project Team / Applied Technology), Monica Maria Muzette da Costa (Petrobras), Marcos Sebastiao dos Santos (Petrobras), Roberto de melo dias (Petrobras), Vitor Leal do Mello (Petrobras), Bernardo Radefeld Meirelles (Petrobras), Diego Chagas Garcia (Petrobras, Libra JPT), Sergio da Silva Araujo (Petrobras, Libra JPT), Rui Cesar Sansonowski (Petrobras)

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ROOM:	LEME
SESSION:	PETROPHYSICS
CHAISPERSON(S):	ANA PATRICIA LAIER (PETROBRAS) AND MATHEUS SOBREIRA (PETROBRAS)

13:55 - 14:20	Multiscale characterization of the porous system of carbonate rocks of the Brazilian Pre-salt. - Alyne Duarte Vidal (UERJ), Caroline Henrique Dias (UFRJ), Inácio Figueiredo Borges (UFRJ), Lizianne Carvalho Medeiros (UFRJ), Josias José da Silva (PETREC)
14:20 - 14:45	Análise petrofísica dos reservatórios carbonáticos microbiais da Formação Barra Velha, Pré-sal da Bacia de Santos, Brasil - Luciana Castro Brelaz (Universidade do Estado do Rio de Janeiro), Mariléa Gomes dos Santos Ribeiro (Universidade Federal do Pará), Iraima Silva Mendes (Universidade Federal Fluminense)
14:45 - 15:10	Convolutional Neural Network for micro-CT image classification of carbonate rocks samples - Carlos Eduardo Menezes dos Anjos (UFRJ), Manuel Vargas (UFRJ), Aurea Pereira Martins Neta (UFRJ), Jeniffer da Silva Martins (UFRJ), Lizianne Carvalho Medeiros (UFRJ), Alexandre Evsukoff (UFRJ), Rodrigo Surmas (Petrobras)
15:10 - 15:35	Using Sonic Log To Estimate Porosity and Permeability in Carbonates - Fernando Gomes de Mello e Silva (Petróleo Brasileiro S.A.), Carlos Francisco Beneduzi (Petróleo Brasileiro S.A.), Gabriel Feres Nassau (Petróleo Brasileiro S.A.), Tiago de Bittencourt Rossi (Petróleo Brasileiro S.A.)
15:35 - 15:45	COFFEE BREAK
15:45 - 16:10	Correlação rocha-perfil em reservatório carbonático de idade albiana da bacia de campos/margem leste brasileira - Luana Karina Câmara de Medeiros (Enauta / Universidade Federal do Rio de Janeiro), Paulo Couto (Universidade Federal do Rio de Janeiro), Félix Gonçalves (Solintec)
16:10 - 16:35	Comparing porosity and permeability measured from samples and estimated from logs in a SE-Brazil carbonate reservoir - Abel Carrasquilla (UENF/CCT/LENEP), Fernanda Tavares (UENF/CCT/LENEP)
16:35 - 17:00	The impact of cementation on permeability and strength of porous limestone - Patrick BAUD (Institut de Physique du Globe de Strasbourg (UMR 7516 CNRS, Université de Strasbourg/EOST), France), Teng-fong WONG (Earth System Science Programme, Faculty of Science, The Chinese University of Hong Kong), Ulrike EXNER (Department of Geology and Palaeontology, Natural History Museum, Vienna, Austria), Fenbao MENG (Earth System Science Programme, Faculty of Science, The Chinese University of Hong Kong)
17:00 - 17:25	Pore properties controlling permeability prediction in carbonates - Roseane Missagia (Universidade Estadual do Norte Fluminense), Marco Ceia (Universidade Estadual do Norte Fluminense), Lorena Figueiredo (Universidade Estadual do Norte Fluminense), Irineu Lima Neto (Universidade Estadual do Norte Fluminense)

<b>ROOM:</b>	RECREIO
<b>SESSION:</b>	NEAR SURFACE
<b>CHAIRPERSON(S):</b>	ALAN CUNHA (HALLIBURTON) AND SAULO MARTINS (UFRRJ)

13:55 - 14:20	Geophysics applied to litho-structural mapping of iron caves, Carajás, Brazil - Maria Filipa Perez Gama (CPGA - Departamento de Geologia - IGeo - UFRJ), Marco Antonio Braga (CPGA - Departamento de Geologia - IGeo - UFRJ), Marcelo Roberto Barbosa (VALE), Rafael Guimarães de Paula (VALE), Daniele Freitas Gonçalves (VALE), Iuri Viana Brandi (VALE)
14:20 - 14:45	Speleological Geophysics - Methodology for the Application of Geophysics in Iron Cave Studies - Marcelo Roberto Barbosa (Vale S.A.), Marco Antonio Braga (UFRJ), Maria Filipa Perez da Gama (UFRJ), Rafael Guimaraes de Paula (Vale S.A.), Iuri Viana Brandi (Vale S.A.)
14:45 - 15:10	Resolution limits for mapping roots with GPR: a numerical modeling study. - Amanda Almeida Rocha (Universidade de Brasília), Susanne Tainá Ramalho Maciel (Universidade de Brasília), Guilherme Zakarewicz de Aguiar (Universidade de Brasília), Weliton Rodrigues Borges (Universidade de Brasília)
15:10 - 15:35	GPR 3D aplicado no Sítio Controlado de Geofísica Forense da UFPR - Rafael Espindola Canata (UFPR/LPGA), Francisco José Fonseca Ferreira (UFPR/LPGA), Weliton Rodrigues Borges (UnB/IG), Fábio Augusto da Silva Salvador (DPF/ INC), Alessandra de Barros e Silva Bongiolo (UFPR/LPGA)
15:35 - 15:45	<b>COFFEE BREAK</b>
15:45 - 16:10	Aplicação de GPR na avaliação de reservas minerais – o caso do Depósito de Areia Morro Grande, município de Porto Grande, Amapá - Weliton Rodrigues Borges (Universidade de Brasília), Alexandre Lisboa Lago (CPRM)
16:10 - 16:35	Fissuras no pavimento da rodovia ERS-149: Geofísica aplicada como auxílio na caracterização do terreno - Marieli Machado Zago (Universidade Federal do Pampa), Maximilian Fries (Universidade Federal do Pampa), Igor Magalhães Clemente (Universidade Federal do Pampa), Elisa Zago Porto (Universidade Federal de Santa Maria), Andrea Valli Nummer (Universidade Federal de Santa Maria), Rinaldo José Barbosa Pinheiro (Universidade Federal de Santa Maria)
16:35 - 17:00	GPR Aplicado na Investigação de Fatores que Levaram ao Colapso parte de um Pavimento Asfáltico - Vicente Luiz Galli (Instituto de Pesquisas Tecnológicas do Estado de São Paulo - IPT), Wilson Shoji Iyomasa (Instituto de Pesquisas Tecnológicas do Estado de São Paulo - IPT), Leonides Guireli Netto (Instituto de Pesquisas Tecnológicas do Estado de São Paulo - IPT)
17:00 - 17:25	Mapeamento de áreas de subsidência com GPR em Teresina, PI - Alexandre Lisboa Lago (CPRM), WELITOM RODRIGUES BORGES (Instituto de Geociências (Universidade de Brasília)), Elizângela Soares Amaral (CPRM)

<b>ROOM:</b>	URCA
<b>SESSION:</b>	SEISMIC MODELLING
<b>CHAIRPERSON(S):</b>	JULIO FRIGÉRIO (PETROBRAS) AND WEBE MANSUR (UFRJ)

14:20 - 14:45	Processamento e imageamento de dados sísmicos marinhos complexos - Thaina Karoline Canté Silva (Universidade Federal do Oeste do Pará), Erverlon Bruno da Paixão Chaves (Universidade Federal do Oeste do Pará), Beatriz Teixeira Guimarães (Universidade Federal do Oeste do Pará), Raimundo Nonato Colares Carneiro (Universidade Federal do Oeste do Pará)
14:45 - 15:10	Teste da acurácia de um modelador acústico 2D por diferenças finitas no domínio do tempo - Lucas de Castro Costa (Universidade Federal do Pará), Amanda Guimarães Pereira (Universidade Federal do Pará), Emilia Camila Hartmann (Universidade Federal do Pará), Daniel Leal Macedo (Universidade Federal do Pará)
15:10 - 15:35	The acoustic 2-D wave equation in multi-scale transform domains - Marcos Vinícius Cândido Henriques (UFRN), Gilberto Corso (UFRN), Joaquim Elias de Freitas (UFRN), Francisco Alírio Almeida Gomes de Moura (UFRN), Liacir dos Santos Lucena (UFRN)
15:35 - 15:45	<b>COFFEE BREAK</b>
15:45 - 16:10	A reduced cost implementation of low-rank approximation for anisotropic wave propagation - Luize Paula Ramos Baltazar (Universidade Federal do Pará), Iury Charles da Silva Araújo (Universidade Federal do Pará), Murillo José de Sousa Nascimento (Universidade Federal do Pará), Jessé Carvalho Costa (Universidade Federal do Pará)
16:10 - 16:35	Integrated modeling of seismic, gravity and magnetic data of Camamu Basin, Brazilian Eastern Margin: tectonostratigraphic framework, structural aspects, petroleum system, volcanic activity and crustal domains. - Ana Cristina Meirelles Quintanilha Coelho (Observatorio Nacional), Sergio Luiz Fontes (Observatorio Nacional), Emanuele Francesco La Terra (Observatorio Nacional), Miguel Tupinambá (Uerj), Ved Prakash Maurya (Observatorio Nacional), José Antonio Ferreira (Observatorio Nacional), Gilmar Vital Bueno (UFF)
16:35 - 17:00	Comparison between multi-azimuth, wide-azimuth, and full-azimuth towed-streamer acquisition: a full 3D finite-difference study in the Santos Basin - Franck Le Diagon (WesternGeco), Nick Moldoveanu (WesternGeco), Eugene Gridnev (WesternGeco), Jeff Thompson (WesternGeco), Luis Arechiga Salinas (WesternGeco)

NOTES

## Poster Presentation

Tuesday, 20 August - Afternoon

<b>SESSION:</b>	AVO INVERSION AND ROCK PHYSICS
CHAISPERSON(S):	ELITA DE ABREU (PETROBRAS)

<b>P-01</b>	14:20 - 14:45	Seismic inversion of an Antarctic sampling using sbppy and a shallow high-resolution seismic - João Bruno Cunha (Universidade Federal Fluminense), Arthur Ayres Neto (Universidade Federal Fluminense), Mateus dos Santos Martins (Universidade Federal Fluminense)
	14:45 - 15:10	Uncertainty quantification in linear inverse problems with dimension reduction - Leandro Passos de Figueiredo (LTrace and UFSC), Dario grana (University of Wyoming), Leonardo Azevedo (Instituto Superior Técnico), Mauro Roisenberg (UFSC), Bruno B. Rodrigues (Petrobras)
<b>P-03</b>	15:10 - 15:35	Computing seismic properties of natural gases and evaluating AVO responses - Romulo Rodrigues de Carvalho (Universidade Estadual do Norte Fluminense), Fernando Sergio de Moraes (Universidade Estadual do Norte Fluminense)
15:35 - 15:45		<b>COFFEE BREAK</b>
<b>P-04</b>	15:45 - 16:10	Stochastic seismic anisotropy sequential inversion for geomechanical properties and in-situ stress estimation - Uilli Oliveira Freitas (Invision Geophysics), Igor Lopes Santana Braga (Invision Geophysics), Pedro Canhaço de Assis (Invision Geophysics), Renzo Francia Mimbelo (Invision Geophysics)
	16:10 - 16:35	AVO Analysis in Real Pre-Stack Seismic Data: A Powerful Tool for Fluid Identification During Petroleum Exploration - Mitchel Xavier (Halliburton), Rodrigo Portugal (Halliburton)
<b>P-06</b>	16:35 - 17:00	2-D Inversion of magnetic data and gravity modelling for characterization of the basement adjacent to the Sergipe-Alagoas basin - Priscilla Alvarez Araujo (CPGG/UFBA), Alanna Costa Dutra (CPGG/LFNA/IF-UFBA)
<b>P-07</b>	17:00 - 17:25	A strategy for high resolution elastic inversion for layer properties using a three-term AVO formulation - Uilli Oliveira Freitas (Grupo de Inferência de Reservatório da Universidade Estadual do Norte Fluminense), Fernando S. Moraes (Grupo de Inferência de Reservatório da Universidade Estadual do Norte Fluminense), Sérgio A. M. Oliveira (Grupo de Inferência de Reservatório da Universidade Estadual do Norte Fluminense)

<b>SESSION:</b>	ELECTROMAGNETIC METHODS
CHAISPERSON(S):	ELIANE ALVES (UFF)

<b>P-08</b>	14:20 - 14:45	Inversão Conjunta de dados MMT 2D (modos TM e TE) de Ambientes Altamente Resistivos em Águas Profundas - Frayzer Lima de Almeida (Universidade Federal do Pará),
	14:45 - 15:10	Uma nova formulação para detecção de IP em dados Eletromagnéticos no Domínio da Frequência: Modelo de duas camadas - Rimary Valera Sifontes (CPGG/UFBA), Hédison K. Sato (CPGG/UFBA)
<b>P-10</b>	15:10 - 15:35	Tatu:Software Livre para Modelagem Eletromagnética 1D - Valdelírio da Silva e Silva (Universidade Federal do Pará), Paulo Alexandre Aquino da Costa (Universidade Federal do Pará)
15:35 - 15:45		<b>COFFEE BREAK</b>
<b>P-11</b>	15:45 - 16:10	Método VME – resultado preliminar de modelagem 3D - Danusa Mayara de Souza (Universidade Federal do Pará), Marcos Welby Correa Silva (Universidade Federal do Pará), Victor Cezar Tocantins Souza (Universidade Federal do Pará)
	16:10 - 16:35	Simulação e análise do comportamento da onda Eletromagnética de dados GPR no monitoramento dos postos de abastecimento - Debora Abreu da Silva (UFAM), Zoraida Roxana Tejada da Piedade (UFAM), Anderson Almeida da Piedade (UFPA)
<b>P-13</b>	16:35 - 17:00	Hydrogeophysical characterization of groundwater conductors and storage geological structures through Audiometrotelluric and Electrical Resistivity Tomography methods - Tainá Pinheiro de Oliveira (Observatório Nacional), Emanuele Francesco La Terra (Observatório Nacional), Liliane Paiva Panetto (Observatório Nacional), Sérgio Luiz Fontes (Observatório Nacional), Ved Prakash Maurya (Observatório Nacional)
<b>P-14</b>	17:00 - 17:25	Desenvolvimento de Interface Gráfica para Processamento Rho + - Patrick Rogger Garcia (Instituto Nacional de Pesquisas Espaciais), Andreia Santos-Matos (Instituto Nacional de Pesquisas Espaciais), Antonio Lopes Padilha (Instituto Nacional de Pesquisas Espaciais), Marcelo Banik de Pádua (Instituto Nacional de Pesquisas Espaciais)

<b>SESSION:</b>	FAULT AND FRACTURE ANALYSIS
CHAISPERSON(S):	LUIZ ALBERTO SANTOS (PETROBRAS)

<b>P-15</b>	14:45 - 15:10	Thermomagnetic Features of Central Brazil, between regions of Trans-Brazilian Lineament (TBL) and São Francisco Craton (SFC) - Suze Nei Pereira Guimarães (Observatório Nacional), Fabio Pinto Vieira (Observatório Nacional), Valiya M Hamza (Observatório Nacional)
	15:10 - 15:35	Geophysical analysis of Cata Branca fault, Central-North Moeda Syncline, Quadrilátero Ferrífero, Minas Gerais - Maria José Campos de Oliveira (Universidade Federal de Ouro Preto), Maria Sílvia Carvalho Barbosa (Universidade Federal de Ouro Preto), Vanessa da Silva Reis Assis (Universidade Federal de Ouro Preto), Juliana Silva Abreu (Universidade Federal de Ouro Preto), Thaís Giovanna Fernandes (Universidade Federal de Ouro Preto), André Luiz Fernandes Soares (Universidade Federal de Ouro Preto), Lanita Ramalho de Oliveira (Universidade Federal de Ouro Preto), João Marcilio Pires Caixeta (Universidade Federal de Ouro Preto)
15:35 - 15:45		<b>COFFEE BREAK</b>
<b>P-17</b>	15:45 - 16:10	Método da eletrorresistividade para identificação de fraturas na região de Basevi, Lago Oeste, DF. - Amanda Cecília Neuhauss Aguiar (Universidade de Brasília), Weliton Rodrigues Borges (Universidade de Brasília), José Elói Guimarães Campos (Universidade de Brasília), Celso Guerra Lemos (Universidade de Brasília)
	16:10 - 16:35	Structural lineaments characterization in the central region of Araucarias Plateau: Preliminary analysis - Jacson Gosman Gomes de Lima (Instituto Federal de Santa Catarina), Andreia Santos-Matos (Instituto Nacional de Pesquisas Espaciais), Suze Nei Pereira Guimarães (Observatório Nacional), Marga Eliz Pontelli (NEPA/UNIOESTE)

<b>SESSION:</b>	<b>FULL WAVEFORM INVERSION</b>
<b>CHAIRPERSON(S):</b>	<b>ANDRÉ BULCÃO (PETROBRAS)</b>

<b>P-19</b>	14:20 - 14:45	Experimentos Numéricos para o Gradiente do FWI via Método dos Estados Adjuntos: uma comparação entre o domínio do tempo e o domínio da frequência. - Isadora Augusta Santana de Macedo (UFPA), Natiê Almeida Albano (UFPA)
<b>P-20</b>	14:45 - 15:10	Inversão do campo de onda completo (FWI) ao modelo conceitual do Campo de Búzios - Felipe Timóteo da Costa (UFF), Ammir Ayman Karsou (UFF), Ruann Carlos Mendanha da Silva (UFF), Flávio Costa de Mesquita (UFF), Marco Antonio Cetale Santos (UFF), Roger Matsumoto Moreira (UFF), Djalma Manuel Soares Filho (PETROBRAS)
<b>P-21</b>	15:10 - 15:35	Um Tutorial de Implementação da FWI e Avaliação da Influência do Uso da Diagonal da Pseudo-Hessiana - Rafael Levy Abel Siqueira (Observatório Nacional), Leandro Di Bartolo (Observatório Nacional), Bruno de Souza Silva (COPPE, UFRJ)

<b>SESSION:</b>	<b>INTERPRETATION CASE STUDIES</b>
<b>CHAIRPERSON(S):</b>	<b>CLAUDEMIR VASCONCELLOS (PETROBRAS)</b>

<b>P-22</b>	14:20 - 14:45	Sedimentary sequences on the offshore southern region of the Sergipe-Alagoas Basin - Matheus Rodrigues Cunha (Universidade de Brasília), Marcelo Peres Rocha (Universidade de Brasília)
<b>P-23</b>	14:45 - 15:10	How inheritance and magmatism influence rifted margins? A case study of the Campos Basin (Brazil) - Natasha Stanton (Universidade do Estado do Rio de Janeiro), Nick Kusznir (University of Liverpool), Andres Gordon (AC-GEO Consulting), Renata Schmitt (Universidade Federal do Rio de Janeiro)
<b>P-24</b>	15:10 - 15:35	O magmatismo das cadeias vulcânicas da margem Equatorial Brasileira: Uma análise sísmica preliminar - Marcos Vinícius Moraes dos Santos (UERJ), Antônio Tadeu dos Reis (UERJ)
15:35 - 15:45		
<b>COFFEE BREAK</b>		
<b>P-25</b>	15:45 - 16:10	Risk evaluation for trap geometry in a high structural uncertainty and incomplete velocity data context - Carlos Andrés Becerra Bayona (UNIVERSIDAD INDUSTRIAL DE SANTANDER), Carlos Guillermo Garzón (CPVEN), María Teresa Duarte Castro (ECOPETROL), Alejandro Silva Arias (ECOPETROL), Ivan Camilo Higuera Diaz (ECOPETROL), William Mauricio Agudelo (ECOPETROL)
<b>P-26</b>	16:10 - 16:35	Depositional Evolution and Sedimentary Architecture related to drowning of the Sepetiba Bay (RJ) during the last deglaciation - Guilherme Amendola dos Santos (Universidade do Estado do Rio de Janeiro), Antonio Tadeu dos Reis (Universidade do Estado do Rio de Janeiro)
<b>P-27</b>	16:35 - 17:00	Assinatura geoelétrica de uma área contaminada por hidrocarbonetos - Daniela Antunes Ferreira (Instituto de Astronomia, Geofísica e Ciências Atmosféricas da Universidade de São Paulo (IAG-USP)), Wagner Roberto Elis (Instituto de Astronomia, Geofísica e Ciências Atmosféricas da Universidade de São Paulo (IAG-USP)), Andressa Teixeira Ustra (Instituto de Astronomia, Geofísica e Ciências Atmosféricas da Universidade de São Paulo (IAG-USP))

<b>SESSION:</b>	<b>VELOCITY MODEL BUILDING</b>
<b>CHAIRPERSON(S):</b>	<b>ANA PAULA MULLER (PETROBRAS)</b>

<b>P-28</b>	14:20 - 14:45	Construction of a velocity model of the Brazilian pre-salt based on Buzios Field: Preliminary results - Ammir Ayman Karsou (UFF), Lucas Lima Navarro de Andrade (UFF), Diego de Castro Rodrigues (UFF), Ruann Carlos Mendanha da Silva (UFF), Lara Moreira Gadioli (UFF), Felipe Timoteo da Costa (UFF), Marco Antonio Cetale Santos (UFF), Wagner Moreira Lupinacci (UFF), Djalma Manoel Soares Filho (Petrobras)
<b>P-29</b>	14:45 - 15:10	Grid resolution control at PSDM domain tomography - Andrei Lache (Industrial University of Santander), Flor Alba Vivas (Colombian Petroleum Institute), Ana Beatriz Ramírez (Industrial University of Santander)
<b>P-30</b>	15:10 - 15:35	2D Refraction Tomography for Velocity Model Building and Static Corrections - Bruno Freitas Gonçalves (Petróleo Brasileiro S.A.), German Garabito Callapino (Universidade Federal do Rio Grande do Norte)
15:35 - 15:45		
<b>COFFEE BREAK</b>		
<b>P-31</b>	15:45 - 16:10	Improving Seismic Images for the Pre-Salt Reservoirs when Updating Salt Stratified Velocity Models - Alexandre Rodrigo Maul (Petrobras, UFF), Marco Antonio Cetale Santos (UFF), Cleverson Guizan Silva (UFF), João Batista Teixeira Boechat (Petrobras), María de Los Angeles González Farias (Emerson), Thiago Martins Yamamoto (Petrobras, UFF), Leonardo Marcio Teixeira da Silva (Petrobras, UFF), Rodrigo Leandro Bastos Pontes (Petrobras, UFF), Josué Sá da Fonseca (Petrobras)
<b>P-32</b>	16:10 - 16:35	Estimativa de anisotropia em poços direcionais - Amanda Guimarães Pereira (UFPa), Bruno Dos Santos Silva (UFPa), Ellen De Nazaré Souza Gomes (UFPa)
<b>P-33</b>	16:35 - 17:00	Estimation of depth parameters in anisotropic media - Francisco Gamboa Ortega (Unipamplona), Amin Bassrei (Universidade Federal da Bahia), Hernando Castañeda Marín (Unipamplona)
<b>P-34</b>	17:00 - 17:25	Velocity model influence in the position and geometry of a prospect area located in VSM Basin, by imageraytracing - Patricia Chajin Ortiz (Ecopetrol s.a.), María Teresa Duarte Castro (Ecopetrol s.a.), Wilman Ferney Beltran Jimenez (Ecopetrol s.a.), Osmar Jose Diaz Cabrera (Ecopetrol s.a.), William Mauricio Agudelo Zambrano (Ecopetrol s.a.)

<b>NOTES</b>

## Oral Presentation

Wednesday, 21 August - Morning

ROOM:	BOTAFOGO
SESSION:	INTERPRETATION CASE STUDIES 1
CHAIRPERSON(S):	GILBERTO DE LIMA (PETROBRAS) AND LUIS LOURES (EQUINOR)

08:30 - 08:55	Application of electrical resistivity tomography for the study of the continental shelf and coast in northern Peru for a foundation of a harbor - Christ Jesus Barriga Paria (Universidade Federal de Ouro Preto), Jorge Pantaleón Barriga Gamarra (Universidad Nacional Jorge Basadre Grohmann), Leonardo Lucas Pereira (Universidade Federal de Ouro Preto)
08:55 - 09:20	Integração de dados radiométricos e potenciais aplicados ao estudo do embasamento adjacente à Bacia Sergipe Alagoas. - Mariana Rosário Conceição Sampaio (UFBA), Alanna Costa Dutra (UFBA), Alexandre Barreto Costa (UFBA)
09:20 - 09:45	Structural analysis of magnetic lineaments in Central-West Paraná Basin (RS, SC, PR) - Adelir Jose Strieder (Eng Geológica - Universidade Federal de Pelotas), Sérgio Alfredo Buffon (GAT/UAA - Ministério Público do RS), Tomás Dalpiaz Strieder (Eng Geológica - Universidade Federal de Pelotas)
09:45 - 10:10	Airborne gamma-ray spectrometry signatures of Ediacaran granitic rocks in the Transversal Zone of Borborema Province – NE/Brazil - Frederico Ricardo Ferreira Rodrigues de Oliveira e Sousa (CPRM - Serviço Geológico do Brasil), Adalene Moreira Silva (Universidade de Brasília), Catarina Labouré Benfica Toledo (Universidade de Brasília)
10:10 - 10:20	COFFEE BREAK
10:20 - 10:45	Processing and interpretation of aerogeophysical data of magnetometry and gamespectrometry of Morrinhos-Buriti Alegre Region, GO - Silvencle Batista Bezerra (Universidade Federal de Goiás), Davi Resende Messias (Universidade Federal de Goiás), Marco Túlio Guimarães (Universidade Federal de Goiás), Marcelo Henrique Leão Santos (Universidade Federal de Goiás), Tereza Cristina Junqueira Brod (Universidade Federal de Goiás)
10:45 - 11:10	Joint magnetic and gravity modelling of the Canoas Anomaly, southern Brazil - Vinicius Hector Abud Louro (Instituto de Geociências - Universidade de São Paulo), André Pires Negrão (Instituto de Geociências - Universidade de São Paulo), Luis Gustavo de Castro (Universidade Federal do Paraná), Francisco José Fonseca Ferreira (Universidade Federal do Paraná)
11:10 - 11:35	Gravimetric and seismic stratigraphy studies applied to Barra Fault System, limit region between Recôncavo and Camamu basins, Bahia, Brazil. - Rafael Rigaud do Amaral (Observatório Nacional), Daniel Bono Ribeiro Vilas Boas (Universidade Federal da Bahia), Joelson da Conceição Batista (Universidade Federal da Bahia)
11:35 - 12:00	Interpretation of Magnetic Anomalies of the Caiabis Basin, Southwestern Amazonian Craton, Brazil - Adolfo Barbosa da Silva (Geological Survey of Brazil), Rafael Ribeiro Severino (Geological Survey of Brazil), Gabriel de Freitas Gonçalves (Geological Survey of Brazil)

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ROOM:	COPACABANA
SESSION:	FULL WAVEFORM INVERSION 1– FWI
CHAIRPERSON(S):	ADEL KHALIL (CGG) AND ANDRÉ BULCÃO (PETROBRAS)

08:30 - 08:55	Regularized multiscale frequency domain full-waveform inversion based on hybrid regularization scheme - Raphael C. L. Rêgo (Federal University of Rio Grande do Norte), Williams A. Lima (Observatório Nacional), Carlos Alexandre Nascimento da Costa (Federal University of Rio Grande do Norte), Edwin F. Duarte (Federal University of Rio Grande do Norte), João M. de Araújo (Federal University of Rio Grande do Norte)
08:55 - 09:20	Full-wave inversion (FWI) to a 2D-ocean-bottom node (OBN) dataset after offset-continuation-trajectory (OCT) data regularization - Alexandre Camargo (CEPETRO/UNICAMP), José Ribeiro (CEPETRO/UNICAMP), Tiago A. Coimbra (CEPETRO/UNICAMP), Gustavo B. Ignácio (CEPETRO/UNICAMP), Martin Tygel (CCES/CEPID and CEPETRO/UNICAMP)
09:20 - 09:45	A Two-Phase Approach for Full Waveform Inversion using Constrained Optimization - Alexandre William Camargo (Institute of Mathematics, Statistics and Scientific Computing (IMECC/UNICAMP)), Lúcio Tunes dos Santos (Institute of Mathematics, Statistics and Scientific Computing (IMECC/UNICAMP))
09:45 - 10:10	Encoded Simultaneous Sources Full-Waveform Inversion based on the phase rotation of wavefield in the time domain - Edwin Fagundes Duarte (Universidade Federal do Rio Grande do Norte), Carlos Alexandre da Costa (Universidade Federal do Rio Grande do Norte), Gilberto Corso (Universidade Federal do Rio Grande do Norte), João Medeiros de Araújo (Universidade Federal do Rio Grande do Norte)
10:10 - 10:20	COFFEE BREAK
10:20 - 10:45	Bioinspired strategy for FWI using frequency alternate grouping - Gilberto Corso (Universidade Federal do Rio Grande do Norte), João Medeiros de Araújo (Universidade Federal do Rio Grande do Norte), Sérgio Luiz E. F. da Silva (Universidade Federal do Rio Grande do Norte), Laci dos Santos Lucena (Universidade Federal do Rio Grande do Norte)
10:45 - 11:10	Full Waveform Inversion using Derivative-Free Optimization hybrid strategy - Yuri Shalom de Freitas Bezerra (UFRN), Álvaro Barroca Neto (UFRN), Hugo Alexandre Dantas do Nascimento (UFG), Francisco Iranildo Ferreira do Nascimento Gomes (IFRN), Laci dos Santos Lucena (UFRN)
11:10 - 11:35	Does broadband address the cycle skipping of full waveform inversion in complex areas? - Denes Vigh (WesternGeco), Xin Cheng (WesternGeco), Kun Jiao (WesternGeco), Zhen Xu (WesternGeco), Wei Dai (WesternGeco)
11:35 - 12:00	Refining complex models with FWI using long-offset towed-streamer acquisitions - Nizar Chemingui (PGS), Alejandro A. Valenciano (PGS)

<b>ROOM:</b>	<b>FLAMENGO</b>
<b>SESSION:</b>	<b>SOLID EARTH &amp; EARTHQUAKES</b>
<b>CHAIRPERSON(S):</b>	<b>AMIN MURAD (PETROBRAS) AND ELITA DE ABREU (PETROBRAS)</b>

08:30 - 08:55	Conservação e Digitalização do Registro Geomagnético Histórico do Observatório Magnético de Vassouras - Evelyn Paiva do Nascimento (UFF), Ian Muzy Camarão Peixoto (UFF), Rômulo Rodrigues de Oliveira (UFF), Ana Luiza Muniz (UFF), Daniel Ribeiro Franco (ON), Gelvam André Hartmann (UNICAMP), Marcelo Belentani de Bianchi (IAG/USP), Ozana Hannesch (Museu de Astronomia e Ciências Afins), Ana Cristina de Oliveira Garcia (Museu de Astronomia e Ciências Afins), Alberto Faria dos Santos (ON), Márcio Ferreira Rangel (Museu de Astronomia e Ciências Afins), Amal Abdulmalek (ON), Highlander Haffeld de Aguiar (Universidade de Vassouras), Vanessa Alves da Costa (UENF), Laisa da Fonseca Aguiar (UFF), Eteli da Silva Santos (ON), Everaldo Pereira Frade (Museu de Astronomia e Ciências Afins), André Wiermann (ON), Luci Meri Guimarães (Museu de Astronomia e Ciências Afins), Helder Faria Ladeira (ON), Vitor Silvério Bernardes (ON), Andrés Reinaldo Rodriguez Papa (ON), Ricardo Ivan Ferreira da Trindade (IAG/USP), Fábio Pinto Vieira (ON), Kátia Jabinschek dos Reis Pinheiro (ON), Gabriel Brando Soares (ON), Elder Yokoyama (UnB), José Roberto Barbosa (IAG/USP)
08:55 - 09:20	Detections and Interpretation of Infrasounds Signals Recorded by Infraounds Stations in South America - Brandow Lee Neri (Observatório Sismológico - UnB), Lucas Vieira Barros (Observatório Sismológico - UnB), Juraci Mário de Carvalho (Observatório Sismológico - UnB)
09:20 - 09:45	Statistics on the accuracy of the geographic north calculation as a function of solar ecliptic parameters - Natacha Oliveira Santos (Universidade Federal Fluminense), Cosme Ferreira Ponte-Neto (Observatório Nacional), André Wiermann (Observatório Nacional)
09:45 - 10:10	Analysis of a calibration system for fluxgate magnetometers for use in geomagnetic observatories - Thaís Cabral Nunes de Melo (Universidade Federal Fluminense), André Wiermann (Observatório Nacional)
10:10 - 10:20	<b>COFFEE BREAK</b>
10:20 - 10:45	PLANET MODEL OF PLATE TECTONICS: Based on Einstein's theory of relativity - Nivaldo Destro (PETROBRAS)
10:45 - 11:10	PLANET MODEL OF PLATE TECTONICS: Based on Einstein's theory of relativity - Nivaldo Destro (PETROBRAS)
11:10 - 11:35	Seismicity on the border of Parecis Phanerozoic basin, Mato Grosso State, Brazil - Lucas Barros (University of Brasília), Marcelo Sousa de Assumpção (Universidade de São Paulo), George Sand Leão Araújo de França (University of Brasília), Juraci Mario de Carvalho (University of Brasília), Brandow Lee Neri (University of Brasília), Eduarda de Lima Araújo (University of Brasília), Felipe Moreira Szczepanski (University of Brasília)
11:35 - 12:00	Tomografia sísmica de tempo de percurso com ondas P aplicada ao estudo do manto superior sob a Província Borborema - Cludilene Silva Rufino (UFOPA), Paulo Araújo de Azevedo (UFOPA), Marcelo Peres Rocha (UNB), Eliaquim Monteiro Ramos (LNCC), Marcio Rentes Borges (LNCC)

<b>ROOM:</b>	<b>IPANEMA</b>
<b>SESSION:</b>	<b>MULTI-PHYSICS METHODS</b>
<b>CHAIRPERSON(S):</b>	<b>LEANDRO B. ADRIANO (ECOPETROL) AND PAULO DE TARSO DE MENEZES (PETROBRAS)</b>
08:30 - 08:55	Brazilian geomagnetic observatories: recent improvements and data availability - Gabriel Brando Soares (Observatório Nacional), Katia Jasbinschek dos Reis Pinheiro (Observatório Nacional), Jürgen Matzka (GFZ German Research Centre for Geosciences), Achim Morschhauser (GFZ German Research Centre for Geosciences), Cristiano Mendel Martins (Universidade Federal do Pará)
08:55 - 09:20	Impact of dikes in the well productivity: A case study in the Ponta Grossa Dike Swarm - Felipe Lisbona Cavalcante (Universidade de São Paulo - Instituto de Astronomia, Geofísica e Ciências Atmosféricas), Carlos Alberto Mendonça (Universidade de São Paulo - Instituto de Astronomia, Geofísica e Ciências Atmosféricas), Ulrich Oftedinger (Queen's University Belfast - School of Natural and Built Environment), Oderson Antônio de Souza Filho (CPRM-Serviço Geológico do Brasil - CEDES/PR)
09:20 - 09:45	Reduction to the pole in Fourier domain – good and bad filtering of real data in Brazil - Felipe F. Melo (Observatório Nacional), Valéria C. F. Barbosa (Observatório Nacional)
09:45 - 10:10	Visualization of Euler deconvolution estimates on traditional and plateau plots - Felipe F. Melo (Observatório Nacional), Valéria C. F. Barbosa (Observatório Nacional)
10:10 - 10:20	<b>COFFEE BREAK</b>
10:20 - 10:45	Amplitude of the magnetic anomaly vector in low latitudes via equivalent layer - Shayane P. Gonzalez (Observatório Nacional), Felipe F. Melo (Observatório Nacional), Valéria C. F. Barbosa (Observatório Nacional), Vanderlei C. de Oliveira Junior (Observatório Nacional)
10:45 - 11:10	2D gravity modelling integrated with multi geophysical data to investigate the basement of the southern compartment of Recôncavo basin - Thais da Silva Sales (Universidade Federal Fluminense), Rodrigo Bijani (Universidade Federal Fluminense), Antonio Fernando Menezes Freire (Universidade Federal Fluminense)
11:10 - 11:35	The sensitivity of ocean-bottom gravimeters at deep waters to mass changes in a synthetic hydrocarbon reservoir - André Defendi Arelaro (Observatório Nacional/Petrobras), Valéria Cristina Ferreira Barbosa (Observatório Nacional), Vanderlei Coelho de Oliveira Junior (Observatório Nacional)
11:35 - 12:00	Multiphysics anomaly map results for pre-salt block area, Campos Basin, Brazil - Julio Cesar Soares de Oliveira Lyrio (Petrobras), Ana Patricia de Rodrigues Quemel e Assis Santana (Petrobras)

## Oral Presentation

Wednesday, 21 August - Morning

ROOM:	LEBLON
SESSION:	RESERVOIR CHARACTERIZATION
CHAISPERSON(S):	JOSÉ CLAUVER (PETROBRAS) AND ROGÉRIO SANTOS (PETROBRAS)

08:30 - 08:55	Electrofacies identification and evaluation in a well of the presalt of Mero Field, Santos Basin - Igor Lima de Jesus (Universidade Federal Fluminense), Wagner Moreira Lupinacci (Universidade Federal Fluminense), Antonio Fernando Menezes Freire (Universidade Federal Fluminense), Luiz Antonio Pierantoni Gamboa (Universidade Federal Fluminense)
08:55 - 09:20	Adding Value to Continuous Measurement Data in Wells by Reversing the Thermal Profile of Reheating in Oil Reservoirs - Victor Costa da Silva (Petrobras), Paulo Couto (COPPE), Franciane Conceicao Peters (COPPE)
09:20 - 09:45	Evaluation of siliciclastic and carbonatic reservoirs in Campos Basin using cross-plots - Rodrigo da Silva (UENF/CCT/LENEP), A. Abel G. Carrasquilla (UENF/CCT/LENEP), Mohammed Saad Allahham1 (UENF/CCT/LENEP)
09:45 - 10:10	Evaluation of fine-grains in pre-salt reservoirs - Thais Mallet de Castro (Universidade Federal Fluminense (UFF)), Wagner Moreira Lupinacci (Universidade Federal Fluminense (UFF))
10:10 - 10:20	COFFEE BREAK
10:20 - 10:45	Benefits of a Multi-Azimuthal data to reservoir characterization: A Brazilian Pre-Salt Case - Carlos Eduardo Lourenco Pereira (Petrobras), Mario Paes De Almeida Junior (Petrobras), Carlos Eduardo Borges De Salles Abreu (Petrobras), Pedro Henrique Silvany Sales (Petrobras), Rodrigo Dos Santos Maia Correa (Petrobras)
10:45 - 11:10	Estimation of vertical and radial stresses from simultaneous elastic inversion of 3D seismic data - Francisco Joclean Alves Vanzeler (Petrobras), Erick Silva Botelho (Petrobras), Raoni de Carvalho Costa Alves (Petrobras), Gladstone Peixoto Moraes (Petrobras), Luis Henrique Zapparolli (Petrobras)
11:10 - 11:35	Faults, Fractures and Karst Zones Characterization in a Pre-Salt Reservoir using Geometric Attributes - Tatiana A. S. Oliveira (Petrobras), Nathalia M. S. M. Cruz (Petrobras), José M. N. Cruz (Petrobras), Rejhane S. Cunha (Petrobras), Marcílio Matos (SISMO)
11:35 - 12:00	Gross-Rock Volume Uncertainties Based on the Integration of Velocity Model and Seismic Resolution. - Mario Paes (Petrobras), Carlos Pereira (Petrobras), Alexandre Maul (Petrobras), Tales Meneguim (Petrobras), Vinicius Pinto (Emerson E&P Software), Maria Gonzalez (Emerson E&P Software), Gerardo Gonzalez (Emerson E&P Software), Randi Sundt Meyer (Emerson E&P Software), Susanna Lervik Furland (Emerson E&P Software)

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ROOM:	LEME
SESSION:	PETROPHYSICS
CHAISPERSON(S):	ANDERSON PIMENTEL (PETROBRAS) AND FABIO MONTEIRO DE LIMA (PETROBRAS)

08:30 - 08:55	Relationship between porosity, permeability and porecompressibility - Marco Antonio Rodrigues de Ceia (UENF/ LENEP), Roseane Marchezi Misságia (UENF/LENEP), RicardoFasolo (UENF/LENEP), Irineu Azevedo Lima Neto (UENF/LENEP)
08:55 - 09:20	Explaining Nuclear Magnetic Resonance T2 shifts in sandstones with anomalous porosity - Marta Henriques Jácomo (Instituto de Astronomia, Geofísica e Ciências Atmosféricas da Universidade de São Paulo (IAG/USP), Ricardo Ivan Ferreira da Trindade (Instituto de Astronomia, Geofísica e Ciências Atmosféricas da Universidade de São Paulo (IAG/USP), Everton Lucas de Oliveira (Instituto de Física de São Carlos (IFSC/USP), Tito José Bonagamba (Instituto de Física de São Carlos (IFSC/USP)
09:20 - 09:45	Comparison of methodologies to estimate the clay content – A case study in the Roncador Field, Campos Basin - Mario Florencio Barreto Paiva (Ikon Science do Brasil/Universidade Federal Fluminense), Wagner Moreira Lupinacci (Universidade Federal Fluminense), Antonio Fernando Menezes Freire (Universidade Federal Fluminense), Joanna Hansford (Ikon Science Limited)
09:45 - 10:10	Predição da permeabilidade usando codificação espacial do campo magnético em Ressonância Magnética Nuclear (RMN) em amostras da Formação Rio Bonito – Bacia de Paraná. - Silvia Lorena Bejarano Bermúdez (Observatório Nacional), Luis Jacobo Aguilera Aguilera (Observatório Nacional), José Carlos Xavier da Silva (Universidade do Estado do Rio de Janeiro), Alberto André Albernaz Soares da Cunha (Observatório Nacional), Giovanni Chaves Stael (Observatório Nacional)
10:10 - 10:20	COFFEE BREAK
10:20 - 10:45	Wettability Measurement and Its Impact in Converted Capillary Pressure Curves - Vanessa Alves da Costa (UENF/LENEP), Roseane Marchezi Missagia (UENF/LENEP), Marco Antonio Rodrigues de Ceia (UENF/LENEP)
10:45 - 11:10	Multi physics measurements integration for improving petrophysical interpretation - Vanessa Simoes (Schlumberger), Patrick Pereira Machado (Schlumberger), Anna Paula Lougon Duarte (Schlumberger), Giovanna Carneiro (Schlumberger), Marianna Dantas (Schlumberger), Austin Boyd (Schlumberger), Lin Liang (Schlumberger), Manu Singhal (Shell), Aloke Saha (Shell), Frances Abbotts (Shell), Claudia Amorim (Shell)
11:10 - 11:35	Significance of Clay Minerals In Petrophysical Propertiesfrom Carbonates of the CotinguibaFormation - Clarissa Oliveira da Luz (Universidade Federal do Rio de Janeiro/Weatherford Laboratórios), Mariléa Gomes dos Santos Ribeiro (Universidade Federal do Pará), Gerson Cardoso da Silva Jr. (Universidade Federal do Rio de Janeiro)
11:35 - 12:00	Rock typing of coquinasfromthe Morro do Chaves Formation - Maira da Costa de Oliveira Lima (UFRJ), Lorena Pastana Martins (UFRJ), Edmilson Helton Rios (UFRJ), Austin Boyd (UFRJ), Elizabeth May Braga DulleyPontedeiro (UFRJ), Fernanda de Oliveira Hoerlle (UFRJ), Tatiana Lipovetsky (UFRJ), Aristides Orlando Neto (UFRJ), Marcelo Mendes (UFRJ), Leonardo da Fonseca Borghi (UFRJ), Paulo Couto (UFRJ)

<b>ROOM:</b>	RECREIO
<b>SESSION:</b>	NEAR SURFACE 2
<b>CHAIRPERSON(S):</b>	CLEVERSON GUIZAN (UFF) AND PEDRO CHIRA (UFPA)

08:30 - 08:55	Qualitative and semiquantitative analysis of magnetic lineaments in the Crystalline Basement Aquifer, Paraná - Brazil. - Cássio de Almeida Pires (Universidade Federal do Paraná), Oderson Antônio de Souza Filho (Serviço Geológico do Brasil (CPRM)),Gustavo Barbosa Athayde (Universidade Federal do Paraná)
08:55 - 09:20	Seismic amplitude signal classification applied to seafloor morphological and textural characterization. - Cleverson Guizan Silva (Universidade Federal Fluminense), Elaine Siqueira Goulart (Fundação Universidade do Rio Grande), João Carlos Correa (Spectrum Geo do Brasil), Ana Carolina Santos (Fundação Universidade do Rio Grande), Gilberto Raitz (Universidade do Pampa), Beatriz Farias Melo (Fundação Universidade do Rio Grande)
09:20 - 09:45	Why Structural and Stratigraphic Surface Observations in the Monterey and Sisquoc Formations are Critical Elements to Better Understand the Quality and Style of Miocene Structures in the Subsurface - Yannick Wirtz (Earth Consultants International, Inc.)
09:45 - 10:10	Integração dos métodos de sísmica de refração de onda S e análise multicanal de ondas superficiais (MASW) em barragem de terra - Leonides Guireli Netto (IPT), Otávio Coaracy Brasil Gandofo (IPT), Walter Malagutti Filho (UNESP), João Carlos Dourado (UNESP)
10:10 - 10:20	<b>COFFEE BREAK</b>
10:20 - 10:45	Geophysical investigation at the BR dam at the mining complex of Tapira, Minas Gerais, Brazil - Demetrius Cunha Gonçalves Rocha (CPGA - Departamento de Geologia - IGeo - UFRJ), Marco Antonio da Silva Braga (CPGA - Departamento de Geologia - IGeo - UFRJ), Camilla Tavares Rodrigues (Tetra Tech)
10:45 - 11:10	Geophysics Investigation and Monitoring Applied to Tailings Dam - Roberto Albuquerque (CPGA - Departamento de Geologia - IGeo - UFRJ), Marco Antonio Braga (CPGA - Departamento de Geologia - IGeo - UFRJ), Lorena Andrade Oliveira (CPGA - Departamento de Geologia - IGeo - UFRJ), Leonardo Santana de Oliveira Dias (CPGA - Departamento de Geologia - IGeo - UFRJ), Silvana Brandão Fontes Cembranelli (Mosaic Fertilizantes do Brasil Ltda.), Luis Antônio Pinto Almeida (Mosaic Fertilizantes do Brasil Ltda.), Arildo Henrique de Oliveira (Mosaic Fertilizantes do Brasil Ltda.)
11:10 - 11:35	Evaluation of the subsoil at the sites of two aquaculture operations using electromagnetic geophysical tools - Ramon Wagner Torres Pena (Instituto de Estudos Costeiros/Campus Bragança/UFPA), Pedro Andrés Chira Oliva (Instituto de Estudos Costeiros/Campus Bragança/UFPA)
11:35 - 12:00	Interpretation of geoelectric surveys using synthetic models and its application for study of groundwater resources in semiarid regions of Minas Gerais, Brazil - Jorge Luiz dos Santos Gomes (Observatório Nacional e UFVJM), Valiya Mannathal Hamza (Observatório Nacional - ON), Fábio Pinto Vieira (Observatório Nacional - ON)

<b>ROOM:</b>	URCA
<b>SESSION:</b>	SEISMIC ACQUISITION
<b>CHAIRPERSON(S):</b>	FRANCO PEZZINI (PETROBRAS) AND MARIO SERGIO COSTA (PETROBRAS)

08:55 - 09:20	Seismic acquisition and rotary drilling study to a Hydroelectric Generating Plant (HGP) building in Pindaíba river. - Thiago Lima Mendes (Phygeo Jr), Marcelo Pellicano Falleiros (Phygeo Jr), Moara Maria Oliveira de Matos (University of Brasília), Weliton Rodrigues Borges (University of Brasília), Carlos Gonzaga Larrosa Rodriguez (L&S Consultoria), Rafael Pereira Felix (L&S Consultoria)
09:20 - 09:45	The Quest for Broadband Seismic Data on Land - C. Jason Criss (INOVA),
09:45 - 10:10	2D seismic acquisition using different source weights integrated in the stack - Diogo Michelon (ENEVA), Roberto Baldanza Ribeiro (ENEVA), João Luiz Caldeira (ENEVA), Carlos Eduardo Siedschlag (ENEVA), Frederico Silveira Miranda (ENEVA), Heron Schots (CPGEO)
10:10 - 10:20	<b>COFFEE BREAK</b>
10:20 - 10:45	Near-field measurements versus far-field estimations of air gun array sound pressure levels and sound exposure levels for blended source acquisition. - Philip Fontana (Polarcus), Marc Rocke (Polarcus)
10:45 - 11:10	A multi-source towed streamer test in the Pre-Salt - Marc Rocke (Polarcus), Philip Fontana (Polarcus)
11:10 - 11:35	A methodology utilizing continuous source and receiver side wavefields - Stian Hegna (PGS), Tilman Klüver (PGS), Jostein Lima (PGS)
11:35 - 12:00	Continuous wavefields methodology - A field trial in the Potiguar Aracati area, Brazil - Jostein Lima (PGS), Stian Hegna (PGS), Tilman Klüver (PGS)

#### NOTES

ROOM:	ARPOADOR
ORGANIZERS:	FERNANDO NOGUEIRA (SHELL) AND RICARDO ROSA FERNANDES (PETROBRAS)
SPECIAL SESSION:	NEW OPPORTUNITIES IN THE E&P MARKET IN BRAZIL
9:00	Digital Collaboration – A Necessary Mindset Shift in Accelerating Hydrocarbon Discovery Keynote Speaker: Maurice Nessim, (WesternGeco / Schlumberger)
09:35	Petrobras partnerships and disinvestments in E&P segment in Brazil - Eduardo Riskallah Abdounur (Petrobras)
10:10 - 10:20	COFFEE BREAK
10:20 - 10:55	Brazil beyond the Pre-salt: Onshore Frontier Basins & the R2W - Frederico Miranda (Eneva)
10:55 - 11:30	Exploration in Deep and Ultra-deep Water Brazil – What's next? – Felipe Barbuto (Enauta)

9am - 11am	ROOM:	VERMELHA
	WOMEN IN GEOSCIENCES	
	ORGANIZERS:	ALINE TAVARES DE MELO (UFMG) AND ELAINE LOUREIRO (ANP)

## NOTES

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DPZ&amp;T



A Petrobras estimula a curiosidade porque o conhecimento é a energia que move a vida das pessoas.

A paraense Francielly inventou de transformar caroço de açaí em tijolo e conquistou 15 prêmios na FEBRACE, a maior Feira de Ciências do país, patrocinada pela Petrobras.

Inspire-se mais em [jornadapeloconhecimento.com.br](http://jornadapeloconhecimento.com.br)

# Poster Presentation

## **Wednesday, 21 August - Morning**

SESSION:	ELECTROMAGNETIC METHODS 2
CHAIRPERSON(S):	ALAN CUNHA (HALLIBURTON)

P-01	08:55 - 09:20	Integração de Dados GPR e ERT no Estudo de Carbonatos da Bacia de Itaboraí-RJ/Brasil - Lucas Vasconcellos Teami Machado (Universidade Federal do Rio de Janeiro), Gleide Alencar Nascimento Dias (Universidade Federal do Rio de Janeiro), Marco Antonio da Silva Braga (Universidade Federal do Rio de Janeiro)
P-02	09:20 - 09:45	Processamento Inicial de dados Magnetotelúricos na região da bacia sedimentar Tucano central: Análise Preliminar - Paulo Roberto Santos (Universidade Federal do Pampa), Andrea Santos-Matos (Instituto Nacional de Pesquisas Espaciais), Antonio Lopes Padilha (Instituto Nacional de Pesquisas Espaciais), Marcelo Banik Pádua (Instituto Nacional de Pesquisas Espaciais)
P-03	09:45 - 10:10	Preliminary Results of the 3-D Inversion of Magnetotelluric Data in the Southern Sub province of Borborema Province, Northeast Brazil - Andrea Santos-Matos (Instituto Nacional de Pesquisas Espaciais), Antonio Lopes Padilha (Instituto Nacional de Pesquisas Espaciais), Reinhardt Adolfo Fuck (Universidade de Brasília), Marcelo Banik Pádua (Instituto Nacional de Pesquisas Espaciais)
P-04	10:10 - 10:20	<b>COFFEE BREAK</b>
P-05	10:20 - 10:45	Uso de Georadar para a localização de dutos enterrados em Quissamã, RJ - Raisa Cristina Rodrigues Alves (Universidade Federal Fluminense), Israeli Rodrigo Mathias dos Santos (Universidade Federal Fluminense), Mariana da Silva Figueiredo (Universidade Federal Fluminense), Guilherme Borges Fernandez (Universidade Federal Fluminense)
P-06	10:45 - 11:10	Influências de estruturas metálicas na aquisição de dados eletromagnéticos obtidos com condutivímetro EM34 - Caroline Urenha Silva (IAG/USP), Pedro Henrique da Silva Chibane (IAG/USP), Carlos Alberto Mendonça (IAG/USP)
P-07	11:10 - 11:35	Mapping the basement architecture using MT data across a coastal part of Borborema Province, NE Ceará-Brazil. - Raimundo Mariano Gomes Castelo Branco (Universidade Federal do Ceará), Karen Maria Leopoldino Oliveira (Universidade Federal do Ceará), Fabiano Mota da Silva (Universidade Federal do Ceará), Jonathan Lima Castelo Branco (Universidade de Brasília)
P-08	11:35 - 12:00	Interpretation of magnetic and electromagnetic structures in the region of Samambaia-PE-Brazil, applied to groundwater reservoir - Marcos César Soares de Queiroz (Universidade de Brasília), Mônica G. Von Huelsen (Universidade de Brasília), Ana Luiza Carvalho Chaves (Universidade de Brasília), Cláudia Domingues Teixeira (Universidade de Brasília)

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SESSION:	GEOMECHANICAL MODELING & PORE PRESSURE PREDICTION
CHAIRPERSON(S):	LUIZ ALBERTO SANTOS (PETROBRAS)
P-08 08:30 - 08:55	Seismic-Geomechanical Integration in the Brazilian Pre-Salt, Santos Basin - Tales Barsanti Meneguim (Petrobras), Raquel Quadros Velloso (PUC-RJ), Antonio Mauricio Nabuco Tartarino (Petrobras), Thiago Martins Yamamoto (Petrobras), Luiz Eduardo da Silva Queiroz (Petrobras), Mario Paes de Almeida Júnior (Petrobras)
P-09 08:55 - 09:20	The influence of in-situ stress and geomechanical properties on P-wave reflection coefficients for HTI media - Renzo Francia Mimbelo (Invision Geophysics), Igor Lopes Santana Braga (Invision Geophysics), Pedro Canhaço de Assis (Invision Geophysics), Uilli Oliveira Freitas (Invision Geophysics)
P-10 09:20 - 09:45	Sensitivity analysis of P-wave reflection coefficients for horizontal transverse isotropy (HTI) media - Pedro Canhaço de Assis (Invision Geophysics), Igor Lopes Santana Braga (Invision Geophysics), Renzo Francia Mimbelo (Invision Geophysics), Uilli Oliveira Freitas (Invision Geophysics)
P-11 09:45 - 10:10	Geomechanical behavior of relay ramps in a carbonate reservoir: Structural seismic interpretation impacts considerations on the flow pattern - Tatiana A. S. Oliveira (Petrobras), Thiago Falcão (Petrobras), Raquel Velloso (PUC-Rio), Flávia Falcão (Petrobras), Mario Neto (Petrobras).
10:10 - 10:20	COFFEE BREAK
P-12 10:20 - 10:45	Avaliação da permeabilidade transiente de rochas a partir do uso do equipamento AutoLab 1000 - Darby Pereira Dantas de Lima (UnB), Arthur Chornobay (UnB), Luiz Fernando Cursino Tabosa (UnB), Adriana Chatack Carmelo (UnB)
P-13 10:45 - 11:10	Avaliações preliminares da permeabilidade de um arenito a partir do AutoLab 1000 - Arthur Chornobay (UnB), Darby Pereira Dantas de Lima (UnB), Luiz Fernando Cursino Tabosa (UnB), Adriana Chatack Carmelo (UnB)
P-14 11:10 - 11:35	Deterministic pore pressure estimation for shaly sand formations through conventional petrophysical data and integrated 1D geomechanical approach - Renzo Francia (Grupo de Inferência de Reservatório da Universidade Estadual do Norte Fluminense), Fernando Moraes (Grupo de Inferência de Reservatório da Universidade Estadual do Norte Fluminense)
P-15 11:35 - 12:00	3D Geological Pressure Prediction for a Block of the Jequitinhonha Basin - Fernando de Tássio Barros de Andrade (UFPA), Lourenildo Williame Barbosa Leite (UFPA), Wildney Wallacy da Silva Vieira (UFPA)

## NOTES

<b>SESSION:</b>	<b>GEOPHYSICAL SIGNAL PROCESSING</b>
<b>CHAISPERSON(S):</b>	<b>PAULO CUNHA (PETROBRAS)</b>

<b>P-16</b>	<b>08:30 - 08:55</b>	Análise cicloestratigráfica do sítio U1463C: Expedição 356 (IODP). - Ana Luiza Muniz Lima (Universidade Federal Fluminense), Rômulo Rodrigues de Oliveira (Universidade Federal Fluminense), Daniel Ribeiro Franco (Observatório Nacional), Ian Muzy Camarão Peixoto (Universidade Federal Fluminense)
<b>P-17</b>	<b>08:55 - 09:20</b>	Test of levelling techniques for old aerogeophysical database - Tomás Dalpiaz Strieder (Universidade Federal de Pelotas), Adelir Jose Strieder (Universidade Federal de Pelotas), Telmo Fernando Perez de Quadros (Agência Nacional de Mineração)
<b>P-18</b>	<b>09:20 - 09:45</b>	Comparative Analysis of Lineaments of the Western Portion of the State of Roraima from Aeromagnetometric Data, SRTM and R99 / SAR. - Phaula Oliveira (Universidade Federal do Amazonas), Solange dos Santos Costa (Universidade Federal do Amazonas), Jorge Alberto Lopes da Costa (Sistema de Proteção da Amazônia)
<b>P-19</b>	<b>09:45 - 10:10</b>	Análise espectral do sinal geofísico: exemplos de aplicação da transformada de ondeleta - Júlia Clícia Carvalho de Andrade Amorim (UnB), Luciana Figueiredo Prado (UnB), Elder Yokoyama (UnB)
<b>10:10 - 10:20</b>		<b>COFFEE BREAK</b>
<b>P-20</b>	<b>10:20 - 10:45</b>	Desenvolvimento de um modelo geoidal gravimétrico para o Distrito Federal - Yellinson de Moura Almeida (Universidade de Brasília), Giuliano Sant'Anna Marotta (Universidade de Brasília)
<b>P-21</b>	<b>10:45 - 11:10</b>	Avaliação de Dados Aeromagnéticos na Porção Oeste de Roraima a partir de técnicas de processamento digital em ambiente SIG. - Phaula Oliveira (Universidade Federal do Amazonas), Solange dos Santos Costa (Universidade Federal do Amazonas), Igor da Silva Jacaúna (Universidade Federal do Amazonas)
<b>P-22</b>	<b>11:10 - 11:35</b>	Airborne Gamma-ray Spectrometry: Empirical Radon Correction - Eugene Druker (Geophysical Consultant),
<b>P-23</b>	<b>11:35 - 12:00</b>	Análise preliminar dos dados magnéticos do Saco de Mamanguá e da Enseada de Paraty-Mirim, Rio de Janeiro - Janaína Anjos Melo (IAG-USP), Yara Regina Marangoni (IAG-USP), Luigi Jovane (IO-USP)

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<b>SESSION:</b>	<b>MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE</b>	
<b>CHAISPERSON(S):</b>	<b>RAMON FERRARI (PETROBRAS)</b>	
<b>P-24</b>	<b>08:55 - 09:20</b>	Neural network unsupervised classification as an advanced presalt reservoir characterization technique: a Buzios Field case study - Danilo Jotta Ariza Ferreira (Universidade Federal Fluminense/Schlumberger), Wagner Moreira Lupinacci (Universidade Federal Fluminense), Thais Mallet de Castro (Universidade Federal Fluminense), Nathalia Ladeira Casado (Universidade Federal Fluminense/Schlumberger), Marcelo Alvarenga (Schlumberger), Yuri Bezerra (Schlumberger), José Fernando Caparica Junior (Schlumberger), Marco Antonio Cetale Santos (Universidade Federal Fluminense)
<b>P-25</b>	<b>09:20 - 09:45</b>	Using self-organizing maps to investigate dike swarms from airborne geophysical data in NE Brazil - Alanny Christina Costa de Melo (Universidade Federal do Rio Grande do Norte), David Lopes de Castro (Universidade Federal do Rio Grande do Norte), Stephen James Fraser (Vectore Pty Ltd)
	<b>09:45 - 10:10</b>	Aplicação de redes neurais na otimização do modelo de velocidade com sal estratificado: um estudo de caso na Bacia de Santos – Brasil - Pedro Henrique Coelho (LAGESED-UFRJ), Bruno Valle (LAGESED-UFRJ), Suzana Ribeiro da Silva (LAGESED-UFRJ), Carolina Ribeiro (LAGESED-UFRJ), Manuela Silva (LAGESED-UFRJ), Marcelo Mendes (LAGESED-UFRJ), Leonardo Borghi (LAGESED-UFRJ)
<b>10:10 - 10:20</b>		<b>COFFEE BREAK</b>
<b>P-26</b>	<b>10:20 - 10:45</b>	Deep Learning application for spectral emissivity targets recognition - Maria Luján Iglesias (CEPSRM-UFRGS), Pâmela Suélen Käfer (CEPSRM-UFRGS), Silvia Beatriz Alves Rolim (CEPSRM-UFRGS), Gabriel Prates Hallal (CEPSRM-UFRGS), Jean Marcel de Almeida Espinoza (IFRS-Campus Rio Grande)
<b>P-27</b>	<b>10:45 - 11:10</b>	Data readiness and standardization for data analytics studies. - Cesar Velasquez (IHS Markit), Ivan Olea (IHS Markit), Charles Cheung (IHS Markit), Russell Roundtree (IHS Markit)
<b>P-28</b>	<b>11:10 - 11:35</b>	Workload scheduling comparison in a full waveform inversion distributed memory implementation - Carla dos Santos Santana (Universidade Federal do Rio Grande do Norte), Tiago Tavares Leite Barros (Universidade Federal do Rio Grande do Norte), Idalmis Milian Sardina (Universidade Federal do Rio Grande do Norte), Calebe de Paula Bianchini (Mackenzie Presbyterian University), Samuel Xavier-de-Souza (Universidade Federal do Rio Grande do Norte)

**NOTES**

SESSION:	RTM/LSQM & SEISMIC IMAGING
CHAIRPERSON(S):	DANIAN OLIVEIRA (PETROBRAS)
P-29 08:30 - 08:55	Simulation of Elastic Waves Propagation in 1D Stratified Porous Media for Low and High Frequency Domains - Igor Barbosa de Oliveira (LENEP/UENF), Marcia Miranda Azeredo (LENEP/UENF), Viatcheslav Ivanovich Priimenko (LENEP/UENF)
P-30 08:55 - 09:20	Processing, Inversion and Imaging of Seismic Marine Data of Basin of Jequitinhonha - Wildney Wallacy da Silva Vieira (UFPA), Raimundo Nonato Colares Carneiro (UFPA), Melquzedeqe Pereira de Aquino (UFOPA)
P-31 09:20 - 09:45	Reverse Time Migration in Viscoacoustic Media - Adriano de Souza Junior (Universidade Federal Fluminense), Felipe Timóteo da Costa (Universidade Federal Fluminense), Marco Antonio Cetale Santos (Universidade Federal Fluminense)
P-32 09:45 - 10:10	Análise e interpretação de atributos sísmicos instantâneos: uma contribuição ao estudo do arcabouço tectônico-estrutural da Bacia de Pelotas - Ana Laura Lordi Dias (Universidade Federal do Pampa), Marcus Vinicius Aparecido Gomes de Lima (Universidade Federal do Pampa), Éverton Frigo (Universidade Federal do Pampa)
10:10 - 10:20	COFFEE BREAK
P-33 10:20 - 10:45	Application of the CO-CRS method for seismic data regularization - Tainá Souza (Universidade Estadual de Campinas), Tiago Tavares Leite Barros (Universidade Federal do Rio Grande do Norte), Renato da Rocha Lopes (Universidade Estadual de Campinas)
P-34 10:45 - 11:10	Comparison between two iterative schemes for the 1D Marchenko equation - João Cândido Magalhães (UNICAMP), Jörg Schleicher (UNICAMP), Amélia Novais (UNICAMP)
P-35 11:10 - 11:35	Atenuação de artefatos na migração reversa no tempo (RTM) - Cintia Queiroz Alves (GISIS/UFF), Felipe Timóteo da Costa (GISIS/UFF), Marco Antonio Cetale Santos (GISIS/UFF)
P-36 11:35 - 12:00	The effect of preconditioning on the LSRTM - José Jésus da Silva Sobrinho (Universidade Federal do Pará), Bruno dos Santos Silva (Universidade Federal do Pará), Jessé Carvalho Costa (Universidade Federal do Pará)

SESSION:	VSP AND BOREHOLE GEOPHYSICS
CHAIRPERSON(S):	ROBERTO DIAS (PETROBRAS)
P-37 09:20 - 09:45	Application of neural networking for calculation of permeability parameters in shaly formations using well logging and core data. - Alfredo M. V. Carrasco (Universidade Federal Fluminense), Yago C. F. Soares (Universidade Federal Fluminense), Simone A. I. Nogueira (Universidade Federal Fluminense)
P-38 09:45 - 10:10	Aspects of the Thermo-Mechanical Evolution of the Platform of Florianópolis and the Pelotas Basin - Saulo Aparecido da Silva Correa (Universidade Federal do Pampa), Vinícius Luiz da Silva (Universidade Federal do Pampa), Marcus Vinicius Aparecido Gomes de Lima (Universidade Federal do Pampa), Felipe Guadagnin (Universidade Federal do Pampa)
10:10 - 10:20	COFFEE BREAK
P-39 10:20 - 10:45	Fracture flow characterization with low-noise SP logging - André C G Kowalski (IAG / USP), Carlos A Mendonça (IAG / USP), Ulrich S Ofterdinger (Queen's University Belfast)
P-40 10:45 - 11:10	Uncertainty Quantification of petrophysical parameters obtained from well logging and core data from carbonate formation using Monte Carlo simulation and Fuzzy logic - Alfredo M. V. Carrasco (Universidade Federal Fluminense), André M. Francioli (Universidade Federal Fluminense)

## NOTES

## Oral Presentation

Wednesday, 21 August - Afternoon

ROOM:	BOTAFOGO
SESSION:	UNCONVENTIONAL RESERVOIRS
CHAIRPERSON(S):	ALEXANDRE KOLYNSNIK (PETROBRAS) AND JORGE FIORI SOBREIRA (PETROBRAS)

14:20 - 14:45	Tight Gas: a contribution to identification by using geophysics. - Gabriela Pantoja Passos (Universidade Federal do Pará), Estanislau Luczynski (Universidade Federal do Pará)	
14:45 - 15:10	Shale gas from Amazonas Basin: a new energy source for mining industry instead of hydroelectric power - Gabriel Lobato Cardoso (Universidade Federal do Pará), Estanislau Luczynski (Universidade Federal do Pará)	
15:10 - 15:35	Seismic interpretation of unconventional hydrocarbon reservoirs in the central portion of the Recôncavo Basin (NE of Brazil) Daniel Bono R. Vilas Boas (INCT-GP/IGEO/UFBA), Paulo Augusto V. D. Souza (INCT-GP/IGEO/UFBA)	
15:35 - 15:45	COFFEE BREAK	
16:10 - 16:35	Identification of Sweet Spots and Seismic Fractures in Tight Gas and BCGS Reservoirs - Rogerio de Araujo Santos (Petrobras), Jose Eduardo Lira (Petrobras), Arnaldo Tanaka (Petrobras), Julio Garcia Carvalho (Petrobras), Jose Eduardo Ferrer Pinheiro (Petrobras), Frank CenciBulhoes (Petrobras), Gleidson Diniz Ferreira (Petrobras)	
16:35 - 17:00	Development of an algorithm to infer the free hydrocarbon content (S1) from well logs - Edson Alonso Falla Luza (Universidade Federal Fluminense), Maria Luiza Cyrino Paiva (Universidade Federal Fluminense), Hélio Sérgio Rocha Lima e Silva (Petrobras), Antonio Fernando Menezes Freire (Universidade Federal Fluminense)	

ROOM:	COPACABANA
SESSION:	FULL WAVEFORM INVERSION 2 – FWI
CHAIRPERSON(S):	ALEJANDRO ALCUDIA-LEON (PGS) AND GUSTAVO CATÃO (PETROBRAS)

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13:55 - 14:20	Full-waveform inversion with subsurface fractal information and variable model uncertainties - Pedro Tiago Cordeiro Carvalho (Federal University of Rio Grande do Norte), Gilberto Falkembach Corso (Federal University of Rio Grande do Norte), Sérgio Luiz Eduardo Ferreira da Silva (Federal University of Rio Grande do Norte), João Medeiros de Araújo (Federal University of Rio Grande do Norte), Liacir dos Santos Lucena (Federal University of Rio Grande do Norte)	
14:20 - 14:45	Prestack Full-Waveform Elastic Inversion versus Linearized AVO Inversion: Real Data Example from the North Viking Open Data Set - Sergio Adriano Moura Oliveira (Universidade Estadual do Norte Fluminense), Anderson Wilson Peixoto de Franco (Invision Geophysics), Uilli Oliveira Freitas (Invision Geophysics)	
14:45 - 15:10	Benefits of visco-acoustic full waveform inversion in Foz do Amazonas basin - Debora Mondini (CGG), Edmarley Ramos (CGG), Karine Pereira (CGG), Erick Tomaz (CGG), Daniela Donno (CGG), Diego Carotti (CGG)	
15:10 - 15:35	Improving pre-salt targets using wave-equation velocity analysis - Daniela Donno (CGG), Sergio Barragan (CGG), Florian Jouno (CGG), Adel Khalil (CGG)	
15:35 - 15:45	COFFEE BREAK	
15:45 - 16:10	Potential and challenges of FWI with OBN data to image the Pre-salt of the Santos Basin - Florian Jouno (CGG), Adriano Martinez (CGG), Denis Ferreira (CGG), Daniela Donno (CGG), Adel Khalil (CGG)	
16:10 - 16:35	Updating velocity models for complex pre-salt targets in Santos basin - Sergio Barragan (CGG), Daniela Donno (CGG), Florian Jouno (CGG), Adriano Martinez (CGG), Adel Khalil (CGG)	
16:35 - 17:00	Improving pre-salt image with reflection full-waveform inversion in Santos Basin - Wei Kang (WesternGeco), Marcela Ortin (WesternGeco), Joel Monteiro (WesternGeco), Marina Pantoja (WesternGeco), Olga Zdraveva (WesternGeco), Denes Vigh (WesternGeco)	
17:00 - 17:25	A strategy for regional-scale FWI in the salt provinces offshore Brazil - Juergen Fruehn (ION), Stuart Greenwood (ION), Ross O'Driscoll (ION), Ian Jones (ION), John Brittan (ION)	

NOTES

<b>ROOM:</b>	FLAMENGO
<b>SESSION:</b>	ELECTROMAGNETIC METHODS
<b>CHAIRPERSON(S):</b>	CICERO REGIS (UFPA) AND JOSÉ ANTONIO SOUZA (UFABC)
13:55 - 14:20	Analysis of Quasi-Newton Inversion of MT data - Alex Fabrício de Andrade Silva (Universidade Federal do Pará), Cícero Roberto Teixeira Régis (Universidade Federal do Pará)
14:20 - 14:45	CSEM Forward and Adjoint Modeling Using Correspondence Principle - Adriany Tiffany Moura Reis (UFPA), Jessé Carvalho Costa (UFPA)
14:45 - 15:10	Aplicação de GPR para reconhecimento de possíveis zonas de contaminação em uma área de fossa séptica na Universidade Federal do Oeste do Pará, Santarém- PA. - Erverlon Bruno da Paixão chaves (Universidade Federal do Oeste do Pará), Raimundo Nonato Colares Carneiro (Universidade Federal do Oeste do Pará), Anderson Conceição Mendes (Universidade Federal do Pará),Marlon de Sousa Mota (Universidade Federal do Oeste do Pará),Suelen Carvalho Fernandes (Universidade Federal do Pará),Iverson Moya Costa da Silva (Universidade Federal do Oeste do Pará)
15:10 - 15:35	Transient electromagnetic sounding in Sao Tome Cape – RJ - Brazil - Emanuelle Laterra (ON/MCT), A. Abel G. Carrasquilla (UENF/CCT/LENEP)
15:35 - 15:45	<b>COFFEE BREAK</b>
15:45 - 16:10	Modeling HTEM Data Anomalies for Mineral Exploration in the Quadrilatero Ferrifero - Gabriela Serejo (IAG/USP), Jorge Luis Porsani (IAG/USP),Marco Antonio Couto Junior (CPRM)
16:10 - 16:35	Preliminary Results from a Magnetotelluric Transect Across the Northern Paraguay Belt - Alane Neves Barbosa (Institute of Astronomy, Geophysics and Atmospheric Sciences - University of São Paulo), Mauricio de Souza Bologna (Institute of Astronomy, Geophysics and Atmospheric Sciences - University of São Paulo)
16:35 - 17:00	3D inversion of MT data in Misiones and Corrientes, NE Argentina - Gabriel Negrucci Dragone (Universidade de São Paulo (IAG), Mauricio de Souza Bologna (Universidade de São Paulo (IAG), Mario Ernesto Gimenez (CONICET, Universidad Nacional de San Juan, Argentina),Orlando Alvarez (CONICET, Universidad Nacional de San Juan, Argentina),Federico Gustavo Lince Klinger (CONICET, Universidad Nacional de San Juan, Argentina),Sebastián Correa-Otto (CONICET, Universidad Nacional de San Juan, Argentina),Naomi Ussami (Universidade de São Paulo (IAG)
17:00 - 17:25	Geoelectrical Remote System for Monitoring Shallow Subsurface CO <sub>2</sub> Migration - Andresa Oliva (Universidade Federal do Sul da Bahia - UFSB), Chang Hung Kiang (Universidade Estadual Paulista - UNESP),Clarissa Lovato Melo (PUCRS/IPR),Lia WeigertBressan (PUCRS/ IPR),Flávio Soares Goudinho (PUCRS/IPR),Marcelo Jardim Constant (PUCRS/IPR),Humberto Ribeiro da Rocha (IAG/USP),Walter MorinobuNakaema (IPEN-CNEN), Fátima do Rosário (Petrobras/CENPES),Ana Paula Santana Musse (Petrobras/CENPES)
<b>ROOM:</b>	IPANEMA
<b>SESSION:</b>	MINING GEOPHYSICS
<b>CHAIRPERSON(S):</b>	ALINE TAVARES MELO (UFMG) AND RODRIGO BIJANI (UFF)
13:55 - 14:20	Separation of PP and PS converted waves applied in mining exploration - Raphael Di Carlo Silva dos Santos (UFPA/UFOPA), João Carlos Ribeiro Cruz (UFPA)
14:20 - 14:45	Testing a Slingram system on resistive Zn-Pb targets in Paracatu prospects, Minas Gerais State, Brazil - Oderson Antonio de Souza Filho (Centro de Desenvolvimento Tecnológico/Serviço Geológico do Brasil/CPRM), Diogo Alves de Sordi (Div. Sensoriamento Remoto e Geofísica - Serviço Geológico do Brasil/CPRM),Ricardo Cavalcanti Santiago (Superintendência de Salvador - Serviço Geológico do Brasil/CPRM)
14:45 - 15:10	Inversion of Electromagnetic and Magnetic data and Self-Organizing Maps applied to Palmeirópolis project - Telma Aisengart (Geosoft Latinoamérica), Diego Barbosa (Geosoft Latinoamérica),Geoff Plastow (Geosoft Inc.),Marco Antonio Couto Jr. (CPRM)
15:10 - 15:35	Automatic classification of density and magnetic domains from the Carajás mineral province - Telma Aisengart (Geosoft Latinoamérica), Jose Luis Ando (Geosoft Latinoamérica),Leandro Batista (Geosoft Latinoamérica),Luana Cunha Ferreira (Geosoft Latinoamérica)
15:35 - 15:45	<b>COFFEE BREAK</b>
15:45 - 16:10	A Técnica IMIP para Aquisição IP de Alta Resolução - Rodrigo Tusi Costa (AFC Geofísica Ltda.), Marcos A. R. Tschoepke (AFC Geofísica Ltda),Antonio F. U. Costa (AFC Geofísica Ltda),Pablo Bortoli Pizutti (AFC Geofísica Ltda)
16:10 - 16:35	Prospecção de minerais pesados em placeres no litoral Sul do Rio Grande do Norte (RN): método aeromagnético e concentrado de bateia - Asmininey Ariane da Silva Nascimento (Universidade Federal do Rio Grande do Norte (UFRN), Matheus Dias Oliveira (Universidade Federal do Rio Grande do Norte (UFRN),Vanildo Fonseca Pereira (Universidade Federal do Rio Grande do Norte (UFRN),Alexandre Magno Rocha da Rocha (Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte (IFRN)
16:35 - 17:00	Prospecção de minerais pesados em placeres no litoral Sul do Rio Grande do Norte (RN): método aeroradiométrico e concentrado de bateia - Matheus Dias Oliveira (Universidade Federal do Rio Grande do Norte (UFRN), Asmininey Ariane da Silva Nascimento (Universidade Federal do Rio Grande do Norte (UFRN),Vanildo Pereira Fonseca (Universidade Federal do Rio Grande do Norte (UFRN),Alexandre Magno Rocha da Rocha (Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte (IFRN)
17:00 - 17:25	Resistividade Elétrica Aplicada à Mineralizações Manganesíferas em Castanheira, MT - Moara Maria Oliveira de Matos (Universidade de Brasília), Weliton Rodrigues Borges (Universidade de Brasília),Vicente de Paula Pinto (Universidade de Brasília),Ciro Calachibete (Universidade de Brasília),Maria Clara Lopes Paula (Universidade de Brasília),Isabela Resende Almeida (Universidade de Brasília)

## Oral Presentation

Wednesday, 21 August - Afternoon

ROOM:	LEBLON
SESSION:	MULTIPLES: ATTENUATION AND IMAGING
CHAIRPERSON(S):	PAULO CARVALHO (PETROBRAS) AND ROBERTO PEREIRA (CGG)

14:20 - 14:45	Advances in methodology and field data examples for attenuating internal multiples using the inverse scattering series - Jing Wu (Schlumberger), Zhiming James Wu (Schlumberger), Frederico Xavier de Melo (Schlumberger), Clement Kostov (Schlumberger)	
14:45 - 15:10	Practical aspects when imaging using multiples with the Kirchhoff method - Pål Kristiansen (Schlumberger), Frederico Xavier de Melo (Schlumberger), Dave Nichols (Schlumberger)	
15:10 - 15:35	Internal multiple attenuation for OBN datasets - Roberto Pereira (CGG), Mena Ramzy (CGG), Petre Griscenco (CGG), Benjamin Huard (CGG), Luis Cypriano (CGG), Adel Khalil	
15:35 - 15:45	<b>COFFEE BREAK</b>	
15:45 - 16:10	Zero-offset internal multiple modeling in the imaged domain - Claudio Guerra (Petrobras), Nelson Hargreaves (Petrobras)	
16:10 - 16:35	Multiple attenuation techniques on OBC survey in Campos basin - Pedro Melo De Almeida Barros (Schlumberger), Marcela Ortin (Schlumberger), Frederico Xavier de Melo (Schlumberger), Joshua Tunnicliffe (Schlumberger), Jodi Gaeman (Schlumberger), Marcella Rapini Braga (Petrobras), Jorge Nicolas Hounie (Petrobras), Antônio Jorge Sá (Petrobras), João Carlos Guedes Logrado (Petrobras), Felipe Soares Fernandes Coelho (Petrobras), Viviane Shimizu (Petrobras), Rosenberg Lima (Petrobras), Erick Silva Botelho (Petrobras), Hugo Freitas (Petrobras)	
16:35 - 17:00	Interbed demultiple using Marchenko redatuming on 3D field data of the Santos basin - Myrna Staring (Delft University of Technology), Kees Wapenaar (Delft University of Technology)	
17:00 - 17:25	The impact of internal multiple attenuation in pre-salt areas of Santos Basin - Jaime Espinoza (CGG), Ibrahim Zoukaner (CGG), Jacqueline Krueger (CGG), Ariane Souza (CGG), Debora Mondini (CGG), Thibault Le Canu (CGG), Eduardo Porto (CGG), Roberto Pereira (CGG), Joan Manrique (CGG), Bernardo Cabral (CGG), Adel Khalil (CGG)	

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ROOM:	RECREIO
SESSION:	MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE
CHAIRPERSON(S):	MARCOS MACHADO (PETROBRAS) AND CESAR CALDERON (PETROBRAS)

13:55 - 14:20	Development of a Multi-attribute Convolutional Neural Network to Seismic Facies Classification - Igor Barbosa de Oliveira (Invision Geophysics), Igor Lopes Santana Braga (Invision Geophysics), João Carlos Puga Seabra Freires (Invision Geophysics), Anderson Wilson Peixoto de Franco (Invision Geophysics), Luciano Dias de Oliveira Pereira (Invision Geophysics), Geovane Frez Ouverney (Invision Geophysics)	
14:20 - 14:45	Identifying salt stratifications performing the machine learning approach over seismic attributes - Flavio Costa de Mesquita (GISIS/UFF), Marco Antonio Cetale Santos (GISIS/UFF), Alexandre Rodrigo Maul (Petrobras/UFF), Alex Laier Bordignon (UFF)	
14:45 - 15:10	Facies Classification in 3D Seismic Data Volume of the Brazilian Pre-salt through Convolutional Neural Networks Technology - Igor Lopes Santana Braga (Invision Geophysics), Igor Barbosa de Oliveira (Invision Geophysics), João Carlos Puga Seabra Freires (Invision Geophysics), Anderson Wilson Peixoto de Franco (Invision Geophysics), Luciano Dias de Oliveira Pereira (Invision Geophysics), Geovane Frez Ouverney (Invision Geophysics)	
15:10 - 15:35	Salt segmentation using Deep Learning - Alan Albano Vilas Boas Souza (Petrobras), Wilson Leão Neto (Petrobras), Daniel Cesar Bosco de Miranda (Petrobras), Nelson Iiboshi Hargreaves Costa (Petrobras), Bruno Pereira Dias (Petrobras), Erick Costa e Silva Talarico (Petrobras)	
15:35 - 15:45	<b>COFFEE BREAK</b>	
15:45 - 16:10	Pre-stack seismic facies prediction via deep convolutional autoencoders: an application to a turbidite reservoir. - Pedro Henrique Silvany Sales (Petrobras S. A.), Marcos de Carvalho Machado (Petrobras S. A.), Theo de Tarzo (Petrobras S.A.)	
16:10 - 16:35	Evaluation of the efficiency of artificial intelligence techniques of permeability results of a lower Albian carbonate reservoir of Campos Basin using the Winland method and cluster analysis - Mohammad Saad Allahham (Petroleum Engineering and Exploration Laboratory, Darcy Ribeiro Northern Rio de Janeiro), Abel Carrasquilla (Petroleum Engineering and Exploration Laboratory, Darcy Ribeiro Northern Rio de Janeiro State University)	
16:35 - 17:00	Use of Electrofacies, Spectral Decomposition and Neural Network seismic inversion technique to analyze a fluvial channel system, Browse Basin, Western Australia - Lilik Hardanto (Emerson Automation Solutions), Diego Vasquez Perez (Emerson Automation Solutions)	
17:00 - 17:25	Deep Learning for Grain Size and Porosity Distributions Estimation on micro-CT Images - Fernando Bordignon (LTrace Geophysical Solutions), Leandro Passos de Figueiredo (LTrace Geophysical Solutions), Rodrigo Exterkoetter (LTrace Geophysical Solutions), Bruno Barbosa Rodrigues (PETROBRAS), Maury Duarte (PETROBRAS)	

<b>ROOM:</b>	URCA
<b>SESSION:</b>	AVO INVERSION AND ROCK PHYSICS
<b>CHAIRPERSON(S):</b>	GUILHERME VASQUEZ (PETROBRAS) AND VIVIANE FARROCÓ (PETROBRAS)

13:55 - 14:20	Predicting, sampling, or optimizing the spatial distribution of petrophysical properties from seismic data - Dario Grana (University of Wyoming),	
14:20 - 14:45	Analysis of multiple solutions in seismic facies inversion for complex geology - Erick Costa e Silva Talarico (Petrobras), Dario Grana (University of Wyoming), Leandro Passos de Figueiredo (LTrace), Sinesio Pescó (Pontifical Catholic University of Rio de Janeiro)	
14:45 - 15:10	High-Resolution Impedance Inversion - Carlos Alves da Cunha Filho (Petrobras), Andrea Damasceno (Petrobras), Anderson Pimentel (Petrobras), Leonardo Teixeira da Silva (Petrobras), Nathalia Martinho Cruz (Petrobras), Tatiana Alice Oliveira (Petrobras)	
15:10 - 15:35	Poroelasticity of the Pre-salt Reservoir Rocks - Guilherme Fernandes Vasquez (Petrobras), Marcio José Morschbacher (Petrobras), Julio Cesar Ramos Justen (Petrobras), Marcos Pozzato Figueiredo (Petrobras), Douglas Luiz Pinto de Lacerda (Petrobras)	
15:35 - 15:45	<b>COFFEE BREAK</b>	
15:45 - 16:10	Fluid properties and their seismic responses: Implications for Direct Hydrocarbon Indicators - David Curia (Wintershall Energía S. A.), Eduardo Trinchero (Pan American Energy LLC), Luis Vernengo (Pan American Energy LLC)	
16:10 - 16:35	Análise de AVO 4D para monitoramento de reservatórios siliciclásticos - Marcelo Nascimento dos Santos (Petrobras), Felipe Soares Fernandes Coelho (Petrobras), Henrique Aita Fraquelli (Petrobras), Marcella Rapini Braga (Petrobras), Jan Maurice Brandão Vieira (Petrobras), Álvaro Henrique Arouca de Castro (Petrobras), Anderson Luiz Pimentel (Petrobras)	
16:35 - 17:00	Investigation of anisotropy as a possible cause for an AVO pitfall: post-mortem analysis - Cristiano Icaro Rego Nunes (Petrobras), Lucas Mesz (Petrobras), Alberto Lopes de Carvalho (Petrobras), Vinicius Ferreira Carneiro (Petrobras)	
17:00 - 17:25	Using 2-term AVO attributes to validate gas anomalies on Colombian Caribbean offshore - Antonio Carlos Lira Pessoa (PETROBRAS), Elita Selmara de Abreu (PETROBRAS)	

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<b>ROOM:</b>	BARRA	
<b>ORGANIZERS:</b>	RENATO FONSECA (PRÉ-SAL PETRÓLEO S.A.)	
<b>SPECIAL SESSION:</b>	ANP - UNVEILING THE PROSPECTIVITY IN THE UPCOMING BIDDING ROUNDS & DIGITAL TRANSFORMATION	
13:55	Petroleum Potential of Exploratory Blocks on Permanent Offer (Open Acreage) - Ronan Ávila (ANP)	
14:45	Areas on Offer for the 16th Concession Regime Licensing Round - Carlos Mikael (ANP)	
15:35 - 15:45	<b>COFFEE BREAK</b>	
15:45	Areas on Offer for the 6th Pre-Salt Licensing Round - Rodrigo Morelatto (ANP)	
16:35	Accessing geophysical data in BDEP - Luciano Lobo (ANP)	
17:00	Digital Transformation - Claudio Jorge Martins de Souza (ANP)	

<b>ROOM:</b>	LEME	
<b>ORGANIZERS:</b>	MARCO ANTONIO PINHEIRO MACHADO	
<b>SPECIAL SESSION:</b>	PRÉ-SAL: A SAGA. A HISTÓRIA DE UMA DAS MAIORES DESCOBERTAS DE PETRÓLEO DO MUNDO	
Participants: Ana Patrícia (AEPET/Sindipetro-RJ), Felipe Coutinho (AEPET), Guilherme Estrela, Leonardo Matos (EGN), Marco Antonio Pinheiro Machado		
13:55 - 14:45	A Saga do Pré-Sal: A História de uma das maiores descobertas de Petróleo do mundo - Marco Antonio Pinheiro Machado	
14:45 - 15:35	A importância do Pré-Sal brasileiro para o desenvolvimento nacional Guilherme Estrela	
15:35 - 15:45	<b>COFFEE BREAK</b>	
15:45 - 16:20	O impacto do Pré-Sal na Geopolítica do Petróleo Mundial - Ana Patrícia Laier (AEPET/Sindipetro-RJ)	
16:20 - 16:55	Tecnologia e soberania: A defesa da Amazônia Azul e do Pré-Sal - Leonardo Mattos (EGN)	
16:55 - 17:30	O fim do petróleo barato de se produzir e do mundo que conhecemos - Felipe Coutinho (AEPET)	

<b>SESSION:</b>	INTERPRETATION CASE STUDIES
<b>CHAISPERSON(S):</b>	ANDRÉ ARAUJO (PETROBRAS)

<b>P-41</b>	14:20 - 14:45	Refining Structural Interpretation by Using the Composite Map of the Vertical Derivatives of Aeromagnetic Anomaly Data - Bruno Cesar Araújo (Lagesed/UFRJ), Maria Filipa da Gama (CPGA/UFRJ), Flávio Norberto de Almeida Junior (Lagesed/UFRJ), Tatiane Moura do Nascimento (CPGA/UFRJ), Luís Fernando Silveira da Silva (Lagesed/UFRJ), Guilherme Figueiredo Duarte dos Santos (Lagesed/UFRJ), Leonardo Fonseca Borghi de Almeida (Lagesed/UFRJ), Marco Antonio da Silva Braga (CPGA/UFRJ), Jorge de Jesus Picanço de Figueiredo (CPGA/UFRJ)
	14:45 - 15:10	Geological and geophysical data integration in the study of tectono-structural features in the region of Jequitaí, Minas Gerais - Claudia Domingues Teixeira (Universidade de Brasília), Mônica Giannoccaro Von Huelsen (Universidade de Brasília), Farid Chemale Junior (Universidade do Vale do Rio dos Sinos), Vitor do Sacramento (Universidade de Brasília), Victor Botelho Perez Garcia (Universidade de Brasília)
<b>P-43</b>	15:10 - 15:35	Satellite gravity data as a tool for kimberlite exploration: insights from southern Africa - João Gabriel Motta (University of Campinas), Carlos Roberto de Souza Filho (University of Campinas)
15:35 - 15:45		<b>COFFEE BREAK</b>
<b>P-44</b>	15:45 - 16:10	Uso da magnetometria como ferramenta de mapeamento de um corpo ultramáfico - Barbara Barrio Caprara (UNIPAMPA), Daniel Antunes Coppi (UNIPAMPA), Cristiane Heredia Gomes (UNIPAMPA), Guilherme Pazinato Dias (UNIPAMPA), Arthur Pedroso Viçozzi (UNIPAMPA)
	16:10 - 16:35	Aplicação da técnica de caminhamento elétrico em área de evolução plutônica alterada - Daniel Antunes Coppi (UNIPAMPA), Barbara Barrio Caprara (UNIPAMPA), Cristiane Heredia Gomes (UNIPAMPA), Lenon Melo Ilha (UNIPAMPA), Guilherme Pazinato Dias (UNIPAMPA), Arthur Pedroso Viçozzi (UNIPAMPA)
<b>P-46</b>	16:35 - 17:00	Use of aeromagnetometric and orbital surveys in the structural characterization of greenstone belt terrain of the Crixás province, Goiás. - Kleyver Lenno da Paixão Ataide (University of Brasília), Mônica Giannoccaro Von Huelsen (University of Brasília), Claudinei Gouveia de Oliveira (University of Brasília), Henrique Llacer Roig (University of Brasília), Karla Munique da Silva Pereira (University of Brasília), Cláudia Domingues Teixeira (University of Brasília)

<b>SESSION:</b>	NEAR SURFACE 1
<b>CHAISPERSON(S):</b>	FELIPE MELO (ON)

<b>P-47</b>	13:55 - 14:20	Ground penetrating Radar (GPR) using at controlled site to detect targets applied to forensics and engineering purposes - Lucas Lopes dos Santos Pereira da Silva (Instituto de Geociências, Universidade de Brasília), Luan Machado Guimarães (Instituto de Geociências, Universidade de Brasília), Julia Clícia Carvalho de Andrade Amorim (Instituto de Geociências, Universidade de Brasília), Nicole Evelyn Carvalho de Oliveira (Instituto de Geociências, Universidade de Brasília), Marcelo de Lawrence Blassay Blum (Instituto Nacional de Criminalística/DITEC, Departamento de Polícia Federal)
	14:20 - 14:45	A Utilização do Método Radar de Penetração no Solo (GPR) para detecção de vergalhões - Pablo Uale De Carvalho Silva (UnB)
<b>P-49</b>	14:45 - 15:10	Análise da Eficiência do GPR na Estimativa da Biomassa de Tubérculos - Guilherme Zakarewicz de Aguiar (Universidade de Brasília), Amanda Almeida Rocha (Universidade de Brasília), Susanne Tainá Ramalho Maciel (Universidade de Brasília), Weliton Rodrigues Borges (Universidade de Brasília)
<b>P-50</b>	15:10 - 15:35	Aplicação de técnicas de processamento de dados GPR para delimitação de infiltração de água em vazamento de tubulação em via urbana - Maykon Masao Yano Taniyama (Universidade Federal Rural da Amazônia), João Andrade dos Reis Júnior (Universidade Federal Rural da Amazônia), Gildenilson Mendes Duarte (Universidade Federal Rural da Amazônia), Diego da Costa Miranda (Universidade Federal do Pará)
15:35 - 15:45		<b>COFFEE BREAK</b>
<b>P-51</b>	15:45 - 16:10	Applications of resistivity tomography to hydrologic problems in the urban areas of Salvador, Bahia State, Brazil. - Jorge Luis Abril Benjumea (Universidade Federal da Bahia), Olivar Antônio Lima de Lima (Universidade Federal da Bahia)
<b>P-52</b>	16:10 - 16:35	Inversão geoelétrica 1D utilizando o algoritmo genético com a determinação do número ótimo de camadas horizontais - Gean Lucas Mello Farias (Observatório Nacional MCTIC), Cosme Ferreira da Ponte Neto (Observatório Nacional MCTIC)
<b>P-53</b>	16:35 - 17:00	Mapeamento topo-batimétrico de reservatório utilizando LIDAR e batimetria no Lago Paranoá, DF. - Amanda Cecilia Neuhauss Aguiar (Universidade de Brasília), Marco Ianniruberto (Universidade de Brasília), Henrique Lacer Roig (Universidade de Brasília), Weliton Rodrigues Borges (Universidade de Brasília), Gabriela Nunes Turquenti (Universidade de Brasília), Paulo Henrique Praça de França (Universidade de Brasília)
<b>P-54</b>	17:00 - 17:25	Resistivity and induced polarization applied to "Buraco do Inferno" Cave, São Desidério, State of Bahia, Brazil - Rodoliton Stevanato (UFPR/LPGA), Francisco José Fonseca Ferreira (UFPR/LPGA), Rafael Espindola Canata (UFPR/LPGA), Dyeison Cesar Mlenek (ITI/UFPR), Anival Antonio Leite (ITI/UFPR), Durval Nascimento Neto (ITI/UFPR)

<b>NOTES</b>

<b>SESSION:</b>	<b>GEOPHYSICAL SIGNAL PROCESSING</b>
<b>CHAIRPERSON(S):</b>	<b>LUCAS BALANCIN (PETROBRAS)</b>

<b>P-55</b>	13:55 - 14:20	Obtenção da derivada direcional radial e sua aplicação na atenuação do ground-roll - Rafael Moreira Paulo (CPGG/UFBA), Milton José Porsani (CPGG/UFBA)
<b>P-56</b>	14:20 - 14:45	Frequency Domain Q Analysis and Stabilized Inverse Q Filtering: Blake Ridge data application - Edmarley Costa Ramos (GISIS/UFF), Felipe Timóteo da Costa (GISIS/UFF), Marco Antonio Cetale Santos (GISIS/UFF), Luiz Alberto Santos (GISIS/UFF/Petrobras), Rogério de Araujo Santos (GISIS/UFF/Petrobras), Djalma Manuel Soares Filho (Petrobras)
<b>P-57</b>	14:45 - 15:10	Methodological development and identification of Oceanic processes from the Seismic Oceanography in Tropical West South Atlantic. - Josafat Ribeiro Leal Filho (LOG-UFBA), Ricardo Piazza Meireles (LOG-UFBA), Michelangelo G. da Silva (CPGG-UFBA)
<b>P-58</b>	15:10 - 15:35	Filtering and Obtaining Attributes in Seismic Data Using the SSA Method - Leonardo Moreira Batista (Universidade Federal da Bahia), Milton José Porsani (Universidade Federal da Bahia)
<b>COFFEE BREAK</b>		
<b>P-59</b>	15:45 - 16:10	Algoritmo de picking automático para dados sísmicos 3D: aplicação em dado real da bacia sedimentar do Recôncavo. - Wilker Eduardo Souza (Universidade Federal da Bahia), Rafael Rodrigues Manenti (Universidade Federal da Bahia), Milton José Porsani (Universidade Federal da Bahia)
<b>P-60</b>	16:10 - 16:35	Shallow Seismic Refraction: Identification and Automatic Interpretation of Arrival Times - Klaus Contiero (IAG-USP), Liliana Alcazar Diogo (IAG-USP)
<b>P-61</b>	16:35 - 17:00	To the problem of long-period statics - Georgy Mitrofanov (Trofimuk Institute of Petroleum Geology and Geophysics, SB RAS, Russia), Viatcheslav Priimenko (Uenf/Lenep), Nikita Goreyavchev (Trofimuk Institute of Petroleum Geology and Geophysics, SB RAS, Russia)
<b>P-62</b>	17:00 - 17:25	The Influence of Deconvolution on Surface-Related Multiple Elimination Filtering - Laila D. L. Vergne (CPGG/UFBA), Milton J. Porsani (CPGG/UFBA)

<b>SESSION:</b>	<b>PETROPHYSICS</b>
<b>CHAIRPERSON(S):</b>	<b>MÁRCIO MORSCHBACHER (PETROBRAS)</b>

<b>P-63</b>	13:55 - 14:20	Sonic log simulations in wells of Campos and Santos Basins using Gardner, multiple linear regression, geological differential method and artificial intelligence approaches - Lucas Armando de Carvalho (UENF/CCT/LENEP), A. Abel G. Carrasquilla (UENF/CCT/LENEP)
<b>P-64</b>	14:20 - 14:45	Comparison between Stoneley and NMR permeability of a post-salt carbonate reservoir in the Campos Basin - Alexandre L. Campi (UENF/LENEP), Antônio Abel G. Carrasquilla (UENF/LENEP)
<b>P-65</b>	14:45 - 15:10	Density and magnetic susceptibilities of Schist, preliminary subdivisions by the petrographic classification. - Luiz Fernando Cursino Tabosa (Universidade de Brasília), Luciana Figueiredo Prado (Universidade de Brasília), Elder Yokoyama (Universidade de Brasília), Thiago Lima Mendes (Universidade de Brasília)
<b>P-66</b>	15:10 - 15:35	Reviewing the Evaporites Interpretation using Well-Log Information in Santos Basin: Benefits and Applications - Rejhane santos Cunha (Petrobras), Alexandre Maul (Petrobras), Luisa Helena Rodrigues (Petrobras), Mônica Noronha (Petrobras), Tales Meneguim (Petrobras), Luis de Campos (Petrobras), María González (Emerson)
<b>COFFEE BREAK</b>		
<b>P-67</b>	15:45 - 16:10	Quantitative 1D Analysis to Fill Log Acquisition Gaps within the Evaporitic Section for Impedance Modelling Purposes - Ciro Climaco Rodrigues (Petrobras), Alexandre Rodrigo Maul (Petrobras), Josue Sa Da Fonseca (Petrobras), Pablo Machado Barros (Petrobras), Maria de Los Angeles Gonzalez Farias (Emerson)
<b>P-68</b>	16:10 - 16:35	Relationship between the relaxation time distribution function from IP Effect's Dias model and petrophysical parameters of reservoir rock samples - Maria R. L. Carvalho (Universidade Estadual do Norte Fluminense), Leonardo P. Marinho (Universidade Estadual do Norte Fluminense), Carlos A. Dias (Universidade Estadual do Norte Fluminense), Alexandre N. Barreto (Instituto Federal Fluminense), Victor H. Santos (Universidade Estadual do Norte Fluminense)
<b>P-69</b>	16:35 - 17:00	The influence of microporosity on porosity-permeability correlation in carbonate rocks - Grazielle Leite Pereira de Oliveira Naegele (UENF/LENEP), Marco Antônio de Ceia (UENF/LENEP), Roseane Missagia (UENF/LENEP), Irineu Lima Neto (UENF/LENEP), Victor Santos (UENF/LENEP)
<b>P-70</b>	17:00 - 17:25	Algorithm for processing dispersive waves from dipole sonic tool - Maurício Redaelli (Petrobras/CENPES), Rodolfo A. Victor (Petrobras/CENPES), Carlos F. Beneduzzi (Petrobras/CENPES), Pablo D. Batista (CBPF)

<b>NOTES</b>

SESSION:	RESERVOIR CHARACTERIZATION
CHAIRPERSON(S):	LEONARDO TEIXEIRA (PETROBRAS)
P-71	14:20 - 14:45 Interpretação Geofísica de perfis de poços do Reservatório Arenítico do Campo de Conceição da Barra, bacia do Espírito Santo - ualas Magalhães aguiar (universidade federal do Espírito Santo), Carlos André Maximiano da Silva (universidade federal do Espírito Santo),Andreas Nascimento (universidade federal do Espírito Santo)
P-72	14:45 - 15:10 1D inversion of electromagnetic logs in the characterization of carbonate formations from Santos basin, Brazil; - Jéssica Lia Santos da Costa (LENEP/UENF), Alfredo Moises Vallejos Carrasco (UFF),Herson Oliveira da Rocha (UFRA,),Abel Carrasquilla (LENEP/UENF)
P-73	15:10 - 15:35 Identificação de Bright Spots usando os atributos sísmicos envelope e energia na área do Viking Graben, Mar do Norte - Rayssa Cristinne dos Santos Pereira (Universidade Federal do Pará), Karina Cristina Caetano Farias (Universidade Federal do Pará),João Carlos Ribeiro Cruz (Universidade Federal do Pará)
	15:35 - 15:45 <b>COFFEE BREAK</b>
P-74	15:45 - 16:10 Uso do atributo Envelope para análise de reservatório. O exemplo da formação Frigg, mar do norte - Karina Cristina Caetano Farias (Universidade Federal do Pará), Marcos Flávio Costa Medeiros (Universidade Federal do Pará),Rayssa Cristinne Dos Santos Pereira (Universidade Federal do Pará),João Carlos Ribeiro Cruz (Universidade Federal do Pará)
P-75	16:10 - 16:35 The importance of rock-log calibration for a correct evaluation of the Carapebus Formation reservoirs in the Parque das Baleias, Campos Basin, offshore Brazil - Matheus Lima Lemos de Oliveira (Universidade Federal Fluminense), Antonio Fernando Menezes Freire (Universidade Federal Fluminense),Wagner Moreira Lupinacci (Universidade Federal Fluminense),Anderson Rafael Rezende Alves (Universidade Federal Fluminense)
P-76	16:35 - 17:00 High resolution stratigraphy using well logs to identifyturbiditestages in the Massapê oilfield, Recôncavo Basin, Brazil - Antonio Fernando Menezes Freire (UFF), Gabriel Fernando Rocha dos Santos (UFF),Carolina Ferreira da Silva (UFF),Henrique Cavalcanti Pequeno (UFF),Ingra Pinto Martins Leal (UFF),Wagner Moreira Lupinacci (UFF),Roberto Salvador Francisco d'Ávila (Petrobras)

We are proud to have introduced the reservoir-to-wire (R2W) business model in Brazil, which consists in thermal power generation in the proximity of onshore natural gas fields. And we want to continue breaking new ground in our industry.

We believe natural gas represents an important transition fuel towards the renewable energy sources.

The only way is forward. We envision a future filled with novel technologies, challenges and solutions. We do so because pioneering is in our DNA.



*Sugar Loaf-Botafogo small bay*



## Oral Presentation

Thursday, 22 August - Morning

ROOM:	BOTAFOGO
SESSION:	SEISMIC IMAGING
CHAIRPERSON(S):	JORGE LOPEZ (SHELL) AND MÁRCIA PIMENTEL (PETROBRAS)

08:30 - 08:55	Automatic picking using coherence measurement and global optimization - Marcelo Jorge Luz Mesquita (CPGF/UFPA), João Carlos Ribeiro Cruz (CPGF/UFPA), Raphael Di Carlo Silva dos Santos (UFOPA)
08:55 - 09:20	CRS-based onshore data preconditioning and Reverse Time Migration - German Garabito (UFRN / Brasil), Paul Stoffa (UT / USA)
09:20 - 09:45	The continuous wavelet transform in the extraction of information from wavefields - Juan Guillermo Paniagua Castrillón (Instituto Tecnológico Metropolitano-ITM), Olga Lucia Quintero Montoya (Universidad EAFIT)
09:45 - 10:10	Parameter estimation for subsoil modelling via seismic refraction - Bibiana Boada Sanabria (Universidad EAFIT), Olga Lucia Quintero Montoya (Universidad EAFIT), Juan Guillermo Paniagua Castrillón (Instituto Tecnológico Metropolitano)
10:10 - 10:20 COFFEE BREAK	
10:20 - 10:45	The concept of model rays in domain conversion - Eduardo Filpo (PETROBRAS), Rodrigo Portugal (Landmark)
10:45 - 11:10	Broadband Azimuthal Processing with Diffraction Imaging - Alexander Mihai Popovici (Z-Terra Inc.), Ioan Sturzu (Z-Terra Inc.), Nick Tanushev (Z-Terra Inc.)
11:10 - 11:35	Improving interpretability of seismic images with directional image partitions and model-based techniques - Olga Zdraveva (WesternGeco), Joe Zuech (WesternGeco), George Zhao (WesternGeco), Mohamed Hegazy (WesternGeco), Ruoyu Gu (WesternGeco)
11:35 - 12:00	OBN for pre-salt imaging and reservoir monitoring - Luis Fernando Katsuda Ito Cypriano (CGG), Ziqin Yu (CGG), Denis Ferreira (CGG), Benjamin Huard (CGG), Roberto Pereira (CGG), Florian Jouno (CGG), Adel Khalil (CGG), Eduardo Naomitsu Agapito Urasaki (Petrobras), Nathalia Martinho Souto Muniz da Crus (Petrobras), Ailin Yin (Shell), Dan Clarke (Shell), Carlos Cardeal Jesus (Petrogal)

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ROOM:	COPACABANA
SESSION:	FULL WAVEFORM INVERSION - FWI
CHAIRPERSON(S):	DJALMA SOARES (PETROBRAS) AND JÚLIO FRIGÉRIO (PETROBRAS)

08:30 - 08:55	Frequency-domain full waveform inversion strategy using offset-weighted signals - Sérgio Luiz Eduardo Ferreira da Silva (Universidade Federal do Rio Grande do Norte (UFRN)), Carlos Alexandre Nascimento da Costa (Universidade Federal do Rio Grande do Norte (UFRN)), Pedro Tiago Cordeiro Carvalho (Universidade Federal do Rio Grande do Norte (UFRN)), João Medeiros de Araújo (Universidade Federal do Rio Grande do Norte (UFRN)), Gilberto Corso (Universidade Federal do Rio Grande do Norte (UFRN))
08:55 - 09:20	Estudo do Efeito da Aproximação Inicial na Convergência do Método FWI com Dados Sintéticos - Eliane Santos Cardoso (Universidade Federal do Pará), João Carlos Ribeiro Cruz (Universidade Federal do Pará)
09:20 - 09:45	Source wavelet estimation in FWI context - Felipe Timóteo da Costa (GISIS/DOT - UFF), Edmarley Costa Ramos (GISIS/DOT - UFF), Marco Antonio Cetale Santos (GISIS/DOT - UFF)
09:45 - 10:10	Regularization for FWI with Geological Incoherence Index - Raphael Vieira Menezes de Souza (COPPE), Franciane Conceição Peters (COPPE), Webe João Mansur (COPPE), Luiz Alberto Santos (Petrobras), Kristian David Torres Bautista (COPPE)
10:10 - 10:20 COFFEE BREAK	
10:20 - 10:45	Building starting models for full-waveform inversion using global optimization methods: A comparison between Particle swarm optimization and genetic algorithm - Oscar Mojica (SENAI CIMATEC Supercomputing Center), Peterson Nogueira (SENAI CIMATEC Supercomputing Center), Rodrigo Santana (SENAI CIMATEC Supercomputing Center), Daniel Revelo (CPGG/IGEO/UFBA & INCT-GP)
10:45 - 11:10	Dynamic Relative Entropy Regularization for Full Waveform Inversion - Danilo Santos Cruz (Petróleo Brasileiro S.A - Petrobras), João Medeiros de Araújo (DFTE - CISC PET / Universidade Federal do Rio Grande do Norte), Carlos César Nascimento da Silva (CCET - DGEF / Universidade Federal do Rio Grande do Norte)
11:10 - 11:35	Preconditioned Reflection Full Waveform Inversion for Subsalt Modeling Building - Chao Wang (ION), Paul Farmer (ION), John Brittan (ION), Ian Jones (ION), Carlos Calderon (ION)
11:35 - 12:00	High-resolution multistage FWI and image-guided tomography to resolve ultraslow gas anomalies - Guy Hilburn (TGS), Jian Mao (TGS), Jianming Sheng (TGS), Jefferson M. Santos (TGS)

<b>ROOM:</b>	LEBLON
<b>SESSION:</b>	INTERPRETATION CASE STUDIES
<b>CHAIRPERSON(S):</b>	ALEXANDRE MAUL (PETROBRAS) AND LEONARDO TEIXEIRA (PETROBRAS)

08:30 - 08:55	Turbiditic System in Foz do Amazonas Basin during the Upper Cretaceous - Alexandre Nascimento de Souza (Enauta), Marcia Karam (Enauta)
08:55 - 09:20	A Depositional Model for Oligocene Turbidites in the Roncador Field:First steps - Flávio Zaborne Oliver (Universidade Federal Fluminense - UFF), Antonio Fernando Menezes Freire (Universidade Federal Fluminense - UFF), Wagner Moreira Lupinacci (Universidade Federal Fluminense - UFF)
09:20 - 09:45	The influence of shale diapirs on turbidite stages distribution in the Cexis, Cantagalo and Massapê Fields, Recôncavo Basin, Bahia. - Igor de Andrade Neves (Universidade Federal Fluminense), Antonio Fernando Menezes Freire (Universidade Federal Fluminense), Wagner Moreira Lupinacci (Universidade Federal Fluminense)
09:45 - 10:10	Exploratory opportunities based in seismic and attributes interpretation analysis in Paleogene turbidites sands, South Center Espírito Santo Basin - Rodrigo de Paiva Ferro (Lagemar-DOT\UFF), Cleverson Guizan Silva (Lagemar-DOTUFF)
10:10 - 10:20	<b>COFFEE BREAK</b>
10:20 - 10:45	Interpretation, Characterization and Importance of the Internal Salt Cycles for Seismic Processes: a Santos Basin Example - Rodrigo Leandro Bastos Pontes (UFF/PETROBRAS), Alexanre Rodrigo Maul (UFF/PETROBRAS), Cleverson Guizan Silva (UFF)
10:45 - 11:10	Holocene regressive deposits evaluation using GPR in Grumary's coastal plain - Talissa Mira Teixeira (UERJ-PPGG), Saulo Siqueira Martins (UFRRJ-DPG / INCT-Criosfera), Suelen Proença Gouvêa (UFF-PPG-DOT), Francisco Dourado (UERJ-PPGG)
11:10 - 11:35	Seismic Data Qualifying for Fracture Detection Along E&P Interpretation Processes - Rogerio de Araujo Santos (Universidde Federal Fluminense), Jose Ricardo Bastos da Silva (Schlumberger), Eliane da Costa Alves (Universidde Federal Fluminense), Marcelo Alvarenga (Schlumberger)
11:35 - 12:00	An orthogonal zone between the Equatorial and South Atlantic margins: relevance and control in the evolution of the Afro-Brazilian basins - Renato Marcos Darros de Matos (Nandy Oil and Gas), Ian Norton (Institute for Geophysics, The University of Texas at Austin, Austin, TX, United States), Ekaterina Casey (Actus Veritas Geoscience LLC, Houston, TX, United States), Ana Krueger (Bluware Inc, Houston, TX.)

<b>ROOM:</b>	LEME
<b>SESSION:</b>	VELOCITY MODEL BUILDING
<b>CHAIRPERSON(S):</b>	BRUNO DIAS (PETROBRAS) AND FLORIAN JOUNO (CGG)

08:30 - 08:55	Seismic attenuation estimation using ray-based and wave-equation-based Q tomography - Yi Shen (Shell), Side Jin (Shell), Kui Bao (Shell), Henning Kuehl (Shell), Martina Wittmann-Hohlbein (Shell)
08:55 - 09:20	On the application of the image-guided ray tracing - Eduardo Filpo Ferreira da Silva (PETROBRAS),
09:20 - 09:45	Structure-guided 3D anisotropic tomography: a case study - Jessé C. da Costa (UFPA), Eduardo Filpo Ferreira da Silva (Petrobras), Luiz Alberto Santos (Petrobras/UFF), EtoryFellerSperandio (Petrobras)
09:45 - 10:10	Improved imaging at Thunder Horse South with joint surface and borehole seismic tomography - Olga Zdraveva (Schlumberger), Gloria Arango Solano (Schlumberger), Syed Omar Zaman (Schlumberger), Emmanuel Saragoussi (Schlumberger), Aurora Rodriguez Castelan (Schlumberger), Samarjit Chakraborty (BP), Qingsong Li (BP), Corey Joy (BP), Ken Hartman (BP), Anya Reitz (BP)
10:10 - 10:20	<b>COFFEE BREAK</b>
10:20 - 10:45	Tomography inversion using velocity models represented by radial basis functions - Daina Popic Bendoraitis (Petrobras), Luiz Alberto Santos (Petrobras/UFF), Webe João Mansur (UFRJ)
10:45 - 11:10	Rejuvenation of seismic data in Santos and Campos Basins with Full Waveform Inversion and high-resolution imaging - Alejandro Alcidia-Leon (PGS), Armando Sosa (PGS), Sriram Arasanipalai (PGS), Bruno Virlouvet (PGS), Hermann Lebit (PGS)
11:10 - 11:35	Status of salt interpretation for velocity model building in Brazilian basins - Fabien Marpeau (CGG), Vincent Belz (CGG)
11:35 - 12:00	Dip Constrained Migration Velocity Analysis and Interpretative processing - Luiz Alberto Santos (Petrobras/UFF), Eduardo Filpo Ferreira da Silva (Petrobras), Jessé C. da Costa (UFPA)

NOTES

# Oral Presentation

## Thursday, 22 August - Morning

ROOM:	RECREIO
SESSION:	MACHINE LEARNING, ARTIFICIAL INTELIGENCE & HPC
CHAISPERSON(S):	ANTONIO AZAMBUJA (PETROBRAS) AND HÉLIO LOPES (PUC-RIO)

08:30 - 08:55	Machine Learning applied in Swell Noise classification - Israel Nunes de Almeida Junior (UFRJ), Manuel Vargas (UFRJ), Bruno Souza Silva (UFRJ), Luana Nobre Osório (UFRJ), Carlos Salvador Neto (UFRJ), Luiz Landau (UFRJ), André Bulcão (Petrobras), Bruno P. Dias (Petrobras), Alexandre Evsukoff (UFRJ)
08:55 - 09:20	A residual dictionary learning method for footprint removal from seismic data - Julián L. Gómez (CONICET/UNLP/Y-TEC), Danilo R. Velis (CONICET/UNLP)
09:20 - 09:45	Enriching synthetic data with real noise using Neural Style Transfer - Naomi Takemoto (Center for Petroleum Studies (CEPETRO), University of Campinas (Unicamp)), Lucas de M. Araújo (Center for Petroleum Studies (CEPETRO), University of Campinas (Unicamp)), Tiago A. Coimbra (Center for Petroleum Studies (CEPETRO), University of Campinas (Unicamp)), Martin Tygel (Center for Petroleum Studies (CEPETRO), University of Campinas (Unicamp)), Sandra Avila (Center for Petroleum Studies (CEPETRO), University of Campinas (Unicamp)), Edson Borin (Center for Petroleum Studies (CEPETRO), University of Campinas (Unicamp))
09:45 - 10:10	Estimating Initial Velocity Models for the FWI Using Deep Learning - Luan Rios Campos (SENAI CIMATEC), Peterson Nogueira Santos (SENAI CIMATEC, UFBA, INCT-GP), Erick Giovani Sperandio Nascimento (SENAI CIMATEC)
10:10 - 10:20	COFFEE BREAK
10:20 - 10:45	Automatic detection of diffraction-apex using fully convolutional networks - Thamiris Coelho (CEPETRO/UNICAMP), Lucas de M. Araújo (CEPETRO/UNICAMP), Tiago A. Coimbra (CEPETRO/UNICAMP), Martin Tygel (CEPETRO/UNICAMP), Sandra Avila (CEPETRO/UNICAMP and IC/UNICAMP), Edson Borin (CEPETRO/UNICAMP and IC/UNICAMP)
10:45 - 11:10	Common Reflection Surface using Particle Swarm Optimization on Graphical Processing Unit Devices - Gabriel de Almeida Araújo (CimaGeo - Central de Imageamento Geofísico.), Felipe Zumba Amorim (CimaGeo - Central de Imageamento Geofísico.), Luiz Henrique Gomes Popoff (CimaGeo - Central de Imageamento Geofísico.), Pedro Henrique Caceres Figueiredo (CimaGeo - Central de Imageamento Geofísico.), Wander Nogueira de Amorim (CimaGeo - Central de Imageamento Geofísico.)
11:10 - 11:35	An analysis of the impact of Virtual Machines allocation on the cloud: The case of Full Waveform Inversion on Amazon Web Services - Willian Massahiro Hayashida (CEPETRO/UNICAMP), Alexandre Camargo (CEPETRO/UNICAMP), Charles B. Rodamilans (CEPETRO/UNICAMP), Tiago A. Coimbra (CEPETRO/UNICAMP), José Ribeiro (CEPETRO/UNICAMP), Caian Benedicto (CEPETRO/UNICAMP), Martin Tygel (CCES/CEPID and CEPETRO/UNICAMP), Edson Borin (CEPETRO/UNICAMP and IC/UNICAMP)
11:35 - 12:00	Using graphics processing units on the cloud to accelerate and reduce processing cost of parameters estimation of seismic processing algorithm - Nicholas T. Okita (CEPETRO/UNICAMP), Tiago A. Coimbra (CEPETRO/UNICAMP), José Ribeiro (CEPETRO/UNICAMP), Martin Tygel (CCES/CEPID and CEPETRO/UNICAMP)

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9:00am	<b>ROOM:</b> IPANEMA <b>WORKSHOP DE P&amp;D EM GEOFÍSICA PARA INDUSTRIA DE PETRÓLEO E GÁS</b> <b>ORGANIZER:</b> GUILHERME CASTILHO (RUBI) <b>Participants:</b> Alan Cunha (Halliburton), Alfredo Renault (ANP), Igor Braga (Invision), Josias Silva (Petrec), Marco Antônio Cetale (UFF), Martin Tygel (UNICAMP), Rui Pinheiro (Petrobras)
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9am - 11am	<b>ROOM:</b> FLAMENGO <b>SEGURANÇA, MEIO AMBIENTE E SAÚDE NAS OPERAÇÕES GEOFÍSICAS</b> <b>MODERATOR:</b> CLAUDIO FALCÃO (PETROBRAS) <b>Participants:</b> Gerhard Peters (CGG), Marco Antonio Braga (UFRJ), Marcus Petracco (Petrobras), Ronnie Grimberg (Magseis Fairfield), Stephane Dezaunay (PGS)
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## NOTES

*Rio de Janeiro mountains overview*



<b>SESSION:</b>	<b>EXPLORATION-CASE HISTORIES</b>
<b>CHAIRPERSON(S):</b>	<b>MARCELO DOS SANTOS (PETROBRAS)</b>

<b>P-01</b>	08:30 - 08:55	Inversion of depocenters during the tectono-depositional evolution of the Caruaçu Member, Maracangalha Formation, in the Massapê Field, Recôncavo Basin - Carolina Ferreira da Silva (UFF), Antonio Fernando Menezes Freire (UFF), Gabriel Fernando Rocha dos Santos (UFF), Wagner Moreira Lupinacci (UFF)
<b>P-02</b>	08:55 - 09:20	Regional X Local Velocity Models Comparison and Evaluation of Possible Impacts for Seismic Imaging - Frank Cenci Bulhões (Petrobras), Gleidson Diniz Ferreira (Petrobras), Viviane Kotani Shimizu (Petrobras), João Batista Teixeira Boechat (Petrobras), Alexandre Rodrigo Maul (Petrobras), Josué Sá da Fonseca (Petrobras), Leonardo Márcio Teixeira da Silva (Petrobras), María de los Angeles Gozalez Farias (Emerson)
<b>P-03</b>	09:20 - 09:45	Construction of a fracture model from the PSDM seismic in the Rio Neuquén Basin - Gleidson Diniz Ferreira (Petrobras), Frank C. Bulhões (Petrobras), Rogério A. Santos (Petrobras), Julio G. Carvalho (Petrobras), Arnaldo Tanaka (Petrobras), José Eduardo M. Lira (Petrobras)
<b>P-04</b>	09:45 - 10:10	Seismic evidences for salt tectonics in Camamu-Almada Basin - André Gondim Brandão (UFBA/GETA), Paulo Augusto Vidigal Duarte Souza (UFBA/GETA), Michael Holz (UFBA/GETA)
10:10 - 10:20		<b>COFFEE BREAK</b>
<b>P-05</b>	10:20 - 10:45	Morphology of submarine channels and paleo-flow discharge estimation: Itabapoana turbidity system, Campos Basin - BRUNA TEIXEIRA PANDOLPHO DA COSTA E SILVA (Programa de Pós-graduação em Oceanografia da Universidade Federal de Santa Catarina), Gilmar Vital Bueno (Universidade Federal Fluminense), Arthur Antonio Machado (Laboratório de Oceanografia Costeira (UFSC)), Carlos E. Theodoro (PETROBRAS/CENPES), Antonio Fernando Harter Fetter Filho (Laboratório de Dinâmica dos Oceanos (UFSC)), Antonio Henrique da Fontoura Klein (Laboratório de Oceanografia Costeira (UFSC))
<b>P-06</b>	10:45 - 11:10	Analysis of seismic attributes to recognize bottom simulating reflectors in the Foz do Amazonas basin, Northern Brazil - Laisa da Fonseca Aguiar (Universidade Federal Fluminense), Antonio Fernando Menezes Freire (Universidade Federal Fluminense), Luiz Alberto Santos (Universidade Federal Fluminense), Ana Carolina Ferreira Dominguez (Universidade Federal Fluminense), Eloíse Helena Policarpo Neves (Universidade Federal Fluminense), Cleverson Guizan Silva (Universidade Federal Fluminense), Marco Antonio Cetale Santos (Universidade Federal Fluminense)
<b>P-07</b>	11:10 - 11:35	Thermostructural Analysis of the Muriaé Hydrographic Basin - Hellen Rosa Barboza (Universidade Federal Fluminense), Suze Nei Pereira Guimarães (Observatório Nacional), Fabio Pinto Vieira (Observatório Nacional)
<b>P-08</b>	11:35 - 12:00	Study of Chaco Basin thickness with receiver function - Pedro Luiz Arnaldo Moraes (Universidade de São Paulo),

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<b>SESSION:</b>	<b>MINING GEOPHYSICS</b>
<b>CHAIRPERSON(S):</b>	<b>RODRIGO BIJANI (UFF)</b>

<b>P-09</b>	08:30 - 08:55	Investigação geoelétrica de depósito de barita: resultados preliminares - Fabiana Pereira Lasmar (IAG/USP), Wagner Roberto Elís (IAG/USP)
<b>P-10</b>	08:55 - 09:20	Application of airborne magnetic survey and geoelectric methods for identification and characterization of mineralized gold zones in the Príncipe, TO - Icaro Augusto Pachêco (UnB), Vicente de Paula Pinto (UnB), Weliton Rodrigues Borges (UnB)
<b>P-11</b>	09:20 - 09:45	Electrical exploration of Massive Sulfides levels at Vermelho River, Digo-Digo Formation, Serra de Santa Rita Greenstone Belt, Goiás Velho, Brazil. - Pedro Augusto Costa do Amaral (Universidade de Brasília), Brenda Lorrana Borges Herdy (Universidade de Brasília), Hygor Viana de Godoy (Universidade de Brasília), Moara Maria Oliveira de Matos (Universidade de Brasília), Arthur Chornobay (Universidade de Brasília), Celso Guerra Lemos (Universidade de Brasília), Victor José Cavalcanti Bezerra Guedes (Universidade de Brasília), Luan Machado Guimarães (Universidade de Brasília), Júlia Clícia Carvalho de Andrade Amorim (Universidade de Brasília), Catarina Labouré Bemfica Toledo (Universidade de Brasília), Weliton Rodrigues Borges (Universidade de Brasília)
<b>P-12</b>	09:45 - 10:10	Application of Geophysical WellLogging Data to Assess the Physical-MechanicalProperties of Rocks - AdilkhanBaibatsha, SandugashSatibekova, ZakiraBaibatchayeva, Kazakh National Research Technical University namedafter K.I. Satbayev, Almaty, Republic of Kazakhstan
10:10 - 10:20		<b>COFFEE BREAK</b>
<b>P-13</b>	10:20 - 10:45	Geophysical modeling of Serra Negra and Salitre I, II and III alkaline-carbonatite complexes based on their gravimetric and magnetic signatures - Roberto Paulo Zanon dos Santos (Universidade de São Paulo), Yara Regina Marangoni (Universidade de São Paulo), Marta Silvia Maria Mantovani (Universidade de São Paulo)
<b>P-14</b>	10:45 - 11:10	O Índice Laterítico no mapeamento do regolito: Porção Nordeste do Cráton São Francisco, Brasil - Rodrigo Soares Vieira dos Santos (CPRM), Edgar Romeo Herrera de Figueiredo Iza (CPRM), Basílio Elesbão da Cruz Filho (CPRM)
<b>P-15</b>	11:10 - 11:35	Reativação de garimpo de ouro no Granito Novo Mundo (PAAF) após realização de IP. - Alexandre Santos Jerônimo da Costa (Universidade de Brasília), Eduardo Xavier Seimetz (Universidade de Brasília), Rafael Espindola Canata (Universidade Federal do Paraná), Vicente de Paula Pinto (Universidade de Brasília), Willian Giovanni Zan (METAMAT)
<b>P-16</b>	11:35 - 12:00	Análise do comportamento da susceptibilidade magnética e condutividade elétrica no perfil de alteração rochoso do depósito niquelífero de Morro do Engenho, Goiás, Brasil. - Felipe da Mota Alves (Serviço Geológico do Brasil), Adolfo Barbosa da Silva (Serviço Geológico do Brasil), Eduardo Moussalle Grissolia (Serviço Geológico do Brasil), Said Abdallah (Serviço Geológico do Brasil), Angeval Alves de Brito (Serviço Geológico do Brasil), Ricardo Wosniak (Serviço Geológico do Brasil)

**NOTES**

<b>SESSION:</b>	<b>MULTI-PHYSICS METHODS</b>
<b>CHAIRPERSON(S):</b>	<b>AMIN MURAD (PETROBRAS)</b>
<b>P-17</b>	08:30 - 08:55 Comparison of Common Image Gathers from Kirchhoff and Fresnel Zone Paraxial Kirchhoff Migrations - Manuel de Jesus dos Santos Costa (Universidade Federal do Pará (UFPA)), João Carlos Ribeiro Cruz (Universidade Federal do Pará (UFPA))
<b>P-18</b>	08:55 - 09:20 Glaciomarine sedimentation and the relations between the acoustic impedance and grain size in Bransfield Basin, Antarctica - Julia Pires de Oliveira Machado (Universidade Federal Fluminense), Mateus dos Santos Martins (Universidade Federal Fluminense), Ana Carla dos Santos Pinheiro (Universidade Federal Fluminense), Fabricio Ferreira (Universidade Federal Fluminense), Arthur Ayres Neto (Universidade Federal Fluminense), Rosemary Vieira (Universidade Federal Fluminense)
<b>P-19</b>	09:20 - 09:45 Crustal delimitation in the Brazilian Equatorial Margin - Juliana de Carvalho Paula (Universidade do Estado do Rio de Janeiro), Marcelo Sperle Dias (Universidade do Estado do Rio de Janeiro)
<b>P-20</b>	09:45 - 10:10 Mapeamento de fontes magnéticas na ilha do Observatório magnético de Tatuóca-Pa - Taís de Paula Almeida Pereira de Oliveira (Universidade Federal do Pará), Cristiano Mendel Martins (Universidade Federal do Pará), Gilberto Carneiro dos Santos-Junior (Universidade Federal do Pará)
	<b>COFFEE BREAK</b>
<b>P-21</b>	10:20 - 10:45 Two-dimensional gravity modeling of Casa de Pedra graben (Volta Redonda Basin) integrated with high-resolution seismic data: preliminary results - Guilherme Henrique Lenz (GISIS/UFF), Marco Antonio Cetale Santos (GISIS/UFF), Antonio Fernando Menezes Freire (GISIS/UFF), Rodrigo Bijani (GISIS/UFF), Alex Motta Borges (GISIS/UFF), Aline Theophilo Silva (Petrobras)
<b>P-22</b>	10:45 - 11:10 Residual gravity anomaly of Marajó basin using crustal modeling: an identification of geological features - Gilberto Carneiro dos Santos Junior (Universidade Federal do Pará), Cristiano Mendel Martins (Universidade Federal do Pará), Nelson Ribeiro Filho (Observatório Nacional)
<b>P-23</b>	11:10 - 11:35 Estimative of the gravity-gradient data from vertical component of gravitational attraction by using the equivalent-layer and fast Fourier transform techniques - Larissa da Silva Piauilino (Observatório Nacional), Valéria Cristina Ferreira Barbosa (Observatório Nacional), Vanderlei Coelho de Oliveira Junior (Observatório Nacional)
<b>P-24</b>	11:35 - 12:00 Tectonic Framework of the Central Portion of the Brasília Belt - Luciane Katiuscia Oliveira dos Reis (Universidade de Brasília),

<b>SESSION:</b>	<b>NEAR SURFACE</b>
<b>CHAIRPERSON(S):</b>	<b>SAULO MARTINS - (UFRRJ)</b>
<b>P-25</b>	08:30 - 08:55 Preliminary results of Refrapy: an open-source program for seismic refraction data analysis - Victor José Cavalcanti Bezerra Guedes (Universidade de Brasília), Marcelo Peres Rocha (Universidade de Brasília), Susanne Taina Ramalho Maciel (Universidade de Brasília)
<b>P-26</b>	08:55 - 09:20 Statistical analysis for lithogeophysical maps using airborne gamma-ray spectrometry - Jessica Derkacz Weihermann (Universidade Federal do Paraná), Fabrício Rodrigues Castro (Universidade Federal do Paraná), Luís Gustavo de Castro (Universidade Federal do Paraná), Francisco José Fonseca Ferreira (Universidade Federal do Paraná), Saulo Pomponet Oliveira (Universidade Federal do Paraná), Adalene Moreira Silva (Universidade de Brasília)
<b>P-27</b>	09:20 - 09:45 Annual effective and air absorbed doses based on airborne and ground gamma-ray spectrometry: Serra do Carambeí and Joaquim Murtinho granites, southern Brazil - Francesco Antonelli (LPGA-UFRJ), Francisco José Fonseca Ferreira (LPGA-UFRJ)
<b>P-28</b>	09:45 - 10:10 Unsupervised clustering of gamma-ray spectrometry data using Gaussian Mixture Models - Jessica Derkacz Weihermann (Universidade Federal do Paraná), Matheus Pinheiro Ferreira (Instituto Militar de Engenharia), Luís Gustavo de Castro (Universidade Federal do Paraná), Francisco José Fonseca Ferreira (Universidade Federal do Paraná), Adalene Moreira Silva (Universidade de Brasília)
	<b>COFFEE BREAK</b>
<b>P-29</b>	10:20 - 10:45 Electrical Resistivity Tomography applied in springs area in Cuiabá City, Mato Grosso State, Brazil: preliminary result - Niara Rodrigues Albino Barroso (Faculdade de Geociências-UFMT), Rejane Suellen da Silva Duarte (Projeto ÁGUA PARA O FUTURO), Cristiane Dias de Novaes (Projeto ÁGUA PARA O FUTURO), Sergio Junior da Silva Fachin (Faculdade de Geociências-UFMT)
<b>P-30</b>	10:45 - 11:10 Estudos do avanço e recuo de intrusão salina correlacionados à sazonalidade através do uso de Tomografia de Resistividade Elétrica e GPR, Grumari, RJ - Raisa Cristina Rodrigues Alves (Universidade Federal Fluminense), Jonne Clay Fonseca Vidal (Observatório Nacional), Israeli Rodrigo Mathias dos Santos (Observatório Nacional), José Antônio Neves Pereira (Observatório Nacional), Alcides Antonio dos Santos (Observatório Nacional), Emanuele Francesco La Terra (Observatório Nacional)
<b>P-31</b>	11:10 - 11:35 Geophysical well logging applied to an iron cave investigation, Carajás-PA - Calvin Cesar Ferreira (UFRJ), Marco Antonio Braga (UFRJ), Marcelo Roberto Barbosa (VALE S.A.), Maria Filipa Perez da Gama (UFRJ), Iuri Viana Brandi (VALE S.A.), Rafael de Paula Guimarães (VALE S.A.)
<b>P-32</b>	11:35 - 12:00 Evaluation of the subsurface of an open dump area in the Amazon region (Pará, Brazil) - Marcia Leonor Oliveira de Sousa (Instituto de Estudos Costeiros/Campus Bragança/UFPA), Pedro Andrés Chira Oliva (Instituto de Estudos Costeiros/Campus Bragança/UFPA)

**NOTES**

## Poster Presentation

**Thursday, 22 August - Morning**

<b>SESSION:</b>		<b>PETROPHYSICS</b>
<b>CHAIRPERSON(S):</b>		ANA PATRICIA LAIER (PETROBRAS)
<b>P-33</b>	08:30 - 08:55	Análise Petrofísica da Formação Água Grande, Bacia do Recôncavo, Bahia, Brasil - Elisandra Caroline Leite Cunha (Universidade Federal da Bahia), Nathália de Souza Penna (Universidade Federal da Bahia),Joelson da C. Batista (Universidade Federal da Bahia)
<b>P-34</b>	08:55 - 09:20	A test of gamma-spectrometry in well-cuttings for paleoenvironmental and depositional studies on the Parque dos Gaviões Gas Field, Parnaíba Basin, Brazil - Jeniffer Alves Nobre (Universidade Federal Fluminense), Antonio Fernando Menezes Freire (Universidade Federal Fluminense), Cléverson Guizan Silva (Universidade Federal Fluminense)
<b>P-35</b>	09:20 - 09:45	Evaluation of the potential for fractured unconventional reservoirs: A case study in the Candeias Formation, Socorro Field, Recôncavo Basin. - Lorena Gonçalves Diaz André (Universidade Federal Fluminense), Antonio Fernando Menezes Freire (Universidade Federal Fluminense), Thais Cândido da Silva (Universidade Federal Fluminense),Thaís Alves de Oliveira (Universidade Federal Fluminense),Wagner Moreira Lupinacci (Universidade Federal Fluminense)
<b>P-36</b>	09:45 - 10:10	Carbonate characterization in heterogeneous reservoirs of the pré-salt using Radial Resistivity Image (RRI) and petrophysical properties in the Santos Basin, Brazil. - Herson Oliveira da Rocha (UFRA), Jessica Lia Santos da Costa (LENEP/UENF),Antonio Abel Gonzales Carrasquila (LENEP/UENF),Alfredo Moisés Valejos Carrasco (UFF)
10:10 - 10:20		<b>COFFEE BREAK</b>
<b>P-37</b>	10:20 - 10:45	Análise do sistema poroso de coquinas da formação morro do chaves, bacia sergipe-alagoas pelas técnicas de pressão capilar por injeção de mercurio e microtomografia computadorizada. - Raissa Maria Siqueira da Silva (UFRJ), Fábio André Perosi (UFRJ),José Leão de Luna (UFPA),Mariléa Gomes dos Santos Ribeiro (UFPA)
<b>P-38</b>	10:45 - 11:10	Borehole image analyses at presalt carbonate reservoirs of the Mero Field, Santos Basin - Tuany Younis Abdul Fatah (Universidade Federal Fluminense), Wagner Moreira Lupinacci (Universidade Federal Fluminense), Antonio Fernando Menezes Freire (Universidade Federal Fluminense),Luiz Antonio Pierantoni Gamboa (Universidade Federal Fluminense)
<b>P-39</b>	11:10 - 11:35	Analysis of Velocities, Density and Seismic Facies of Ariri Formation-Santos Basin. - Thiago Martins Yamamoto (Petrobras), Alexandre Rodrigo Maul (Petrobras),Wagner Moreira Lupinacci (Universidade Federal Fluminense)
<b>P-40</b>	11:35 - 12:00	Gammasonics and mineralogy of carbonate sediments of Brejo do Espinho Lake (RJ) during the Holocene - Luiz Gustavo Rodrigues de Sá Valle (UFF), Catia Fernandes Barbosa (UFF),Carla Semiramis da Silveira (UFF),Camila Areias de Oliveira (UFF),Nayara Dornelas (UFF),Daniel François do Nascimento Silva (UFF),José Carlos SícoliSeoane (UFRJ)

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<b>SESSION:</b>		<b>RESERVOIR MONITORING</b>
<b>CHAIRPERSON(S):</b>		MATHEUS SOBREIRA (PETROBRAS)
<b>P-41</b>	08:55 - 09:20	A workflow for time-lapse seismic data conditioning for geophysical interpretation - Mitchel Xavier (Halliburton), Rodrigo Portugal (Halliburton),Taina Ruchiga (Halliburton)
<b>P-42</b>	09:20 - 09:45	Analysis of 4D seismic timeshifts overburden and its relationship with the geomechanical model of reservoirs in a Campos Basin field. - Carlos Américo Reis Cardoso (Petrobras), Fernando Sergio de Moraes (UENF),Kledson Tomaso de Pereira e Lima (Petrobras)
<b>P-43</b>	09:45 - 10:10	Coda wave interferometry analysis for poroelastic reservoir monitoring - Katianne Fernandes de Alcantara (Tecgraf), Deane Roehl (Tecgraf)
10:10 - 10:20		<b>COFFEE BREAK</b>
<b>P-44</b>	10:20 - 10:45	PbAS: A 4D centroid-based method for location of complex waveform seismic events - Cristian Alexis Murillo Martínez (Universidad Industrial de Santander), William Mauricio Agudelo Zambrano (Ecopetrol)

## NOTES

## Workshops

Thursday, 22 August - Afternoon

13:55pm	ROOM:	BOTAFOGO
	WORKSHOP:	PERFIL PROFISSIONAL DO GEOFÍSICO
	ORGANIZER:	ALAN CUNHA (HALLIBURTON)
	Participants: Catia Bastos (Petrobras), Mariana Nejaim (Shell), Daniel Compan (Halliburton), Maicon Fiuza (CGG), Paula Lobo (Equinor)	

ROOM:	IPANEMA
WORKSHOP:	RECENT DEGHOSTING APPLICATIONS IN PETROBRAS SEISMIC PROCESSING
ORGANIZERS:	EDUARDO FILPO (PETROBRAS) AND GILBERTO LINA (PETROBRAS)

14:15	Deghosting by Warping – DEFANW - Eduardo Filpo (Petrobras), Gilberto Lima (Petrobras)
14:35	Conventional Streamer Data Reprocessing using DEFANW - Maria Fernanda Barbosa (Petrobras), Jorge Hounie (Petrobras), Felipe Amaral (Petrobras)
14:45	DEFANW in CatenaryCable Data - José Clauver (Petrobras)
15:00	Deterministic Deconvolution in 4D Reprocessing - Wendel Moreira (Petrobras)
15:15	Deghosting for Conventional Streamer Data Hi-Resolution Reprocessing - Werter Oliveira (Petrobras), Danilo de Oliveira (Petrobras), Pedro Bertussi (Petrobras)
15:30	Warping source deghost in multicomponent post-stack data - Cesar Calderon (Petrobras)
15:45	Quick Post Stack Reprocessing with DEFANW - Alberto Carvalho (Petrobras), Fernanda Freitas (Petrobras)

ROOM:	LEBLON
WORKSHOP:	SEISMIC IN THE GEOMECHANICS WORKFLOW
ORGANIZER:	LUIZ ALBERTO SANTOS (PETROBRAS)

14:10	Tectonic and Geomechanical Numerical Modeling - Anderson Moraes (Petrobras)
14:25	3D Representation of the horizontal stress from breakout analysis - Aline Teóphilo (Petrobras)
14:40	Geoscience Applied to Drilling Geohazards - Thiago Conceição (Petrobras)
14:55	Round Table
COFFEE BREAK	
15:40	Geomechanically Based Fracture Modeling: an Integrated Workflow at Suruaná Area, Campos Basin, Brazil - Yuri Bezerra (Schlumberger)
15:55	Geomechanics Modeling in Oil Industry, from Seismic to Production – Luis Carlos de Sousa Junior (Petrobras)
16:10	Geopressure Characterization: Preliminary Results on 1D/2D modeling associated with Gravity Tectonics in the Amazon Fan (SW compartment), Foz do Amazonas Basin - Claudio Rabe (Baker Hughes)
16:25	Round Table
16:50	Closing

13:55pm	ROOM:	BARRA
	WORKSHOP:	SEISMOSTRATIGRAPHY
	ORGANIZERS:	ANDERSON CAVALCANTE (CGG) AND HERNANI CHAVES (UERJ)
	Participants: Gabriele Dries (Shell), Luiz Loures (Equinor) and Paulo Johann (Petrobras)	

ROOM:	RECREIO
WORKSHOP:	UNVEILING THE PRE-SALT WITH WAVES: FWI AND LSQM IN THE SANTOS AND CAMPOS BASINS
ORGANIZERS:	JOÃO LOGRADO (PETROBRAS) AND PEDRO BERTUSSI (PETROBRAS)

13:55 - 14:20	FWI-aided interpretation of pre-salt targets in Santos basin - Adel Khalil (CGG)
14:20 - 14:45	Applying an FWI toolkit to build velocity models in complex geology offshore Brazil - Valter Marques (ION), Carlos Calderon (ION), Chao Wang (ION), Mike Christiansen (ION) and John Brittan (ION.)
14:45 - 15:10	Improving pre-salt image with reflection full waveform inversion - Marcela Ortin (WesternGeco)
15:10 - 15:35	Discussion
COFFEE BREAK	
15:45 - 16:10	Unlocking presalt hydrocarbon potential by Full Waveform Inversion and high-end seismic imaging in the Santos Basin, Brazil - Alejandro Alcudia-Leon (PGS), Hermann Lebit (PGS)
16:10 - 16:35	Improving the imaging of pre-salt structures through an efficient iterative prestack LSRTM - Carlos Costa (CGG)
16:35 - 17:00	Experiences of image domain least-squares migration for quantitative Interpretation - Robert Bloor (WesternGeco) -
17:00 - 17:25	Discussion & Closing

13:55pm	ROOM:	URCA
	ROUND TABLE: BANCO NACIONAL DE DADOS GRAVIMÉTRICOS (BNDG): SITUAÇÃO ATUAL E PERSPECTIVAS PARA O FUTURO	
	ORGANIZER:	LUIZ BRAGA (INVISION)
	Participants: Cláudio Jorge Martins de Souza (ANP), Elaine Loureiro (ANP), João Batista Andrade (CPRM), Roberto Paulo Zanon Santos (USP/IG), Sonia Costa (IBGE)	

14:00	ROOM:	FLAMENGO
	DIGITAL TRANSFORMATION AND ARTIFICIAL INTELLIGENCE IN EXPLORATION - IMPACTS FOR PROJECTS WITH COMPLEX GEOLOGY	
	ORGANIZER:	PEDRO MARIO CRUZ E SILVA (NVIDIA)
	Participants: Alexandre Evsukhof (UFRJ), André Bulcão (Petrobras), Graham Baines (Halliburton) and João Paulo Navarro (NVIDIA)	

# EXPOGEf RIO 2019

Brazilian Geophysical Society (SBGf) and the Organizing Committee are delighted to welcome all delegates and exhibitors to the 16th International Congress of SBGf & EXPOGEf. Oil & Gas, mining and engineering companies, from large to small size, service companies, universities and technology centers, professional and associated societies in all geoscience spectra shall have a perfect space for collaboration in this event.

In the exhibition hall, we count on the experience of more than 40 companies and institutions on the above fields, showcasing the latest market solutions. In addition, we will host one more timethe Digital Theater, presenting the most advanced IT and data management technologies for the Oil& Gas industry.

We sincerely hope that you appreciate the show as much as we have enjoyed preparing all the details for this year's edition.

Thanks for coming. Hope you have a great time in Rio de Janeiro.

**Organizing Committee**



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## EXPOGEf RIO 2019 SCHEDULE

### **Monday, 19 August**

Ribbon Cutting – 7pm

### **Tuesday, 20 August**

Exhibition Show Hours – 9am-7pm

### **Wednesday, 21 August**

Exhibition Show Hours – 9am-7pm

### **Thursday, 22 August**

Exhibition Show Hours – 9am-7pm

## EXHIBITOR COMPANIES

BRAZILIAN GEOPHYSICAL SOCIETY - SBGf (14)  
36<sup>TH</sup> INTERNATIONAL GEOLOGICAL CONGRESS (G)  
AARHUS GEOSOFTWARE (45)  
ADVANCED GEOSCIENCES (43)  
AEROCIENTÍFICA (46)  
ANP (6)  
BRATEXCO (30)  
CGG (12)  
CPGEO (19)  
CRS ALLIANCE (35)  
DELL TECHNOLOGIES (68)  
EAGE (D)  
EMGS (41)  
EMERSON (28)  
ENEVA (24)  
GEO IMAGING SOLUTIONS (01/02)  
GEOMETRICS (38)  
GEOPOST (20)  
GORCEIX FOUNDATION (39)  
GUIDELINE GEO – ABEM (49)  
HALLIBURTON (10)

HASAGEO (50)  
ION (11)  
MAGSEIS FAIRFIELD (29)  
METTA INNOVATIONS (40)  
NT EMPREENDIMENTOS (44)  
PETREC (33)  
PETROBRAS (16)  
PGS (13)  
PHOENIX GEOPHYSICS (53)  
POLARCUS (07)  
SAEXPLORATION (18)  
SEEQUENT (32)  
SHEARWATER (25)  
SBGEO (B)  
SEG (A)  
SPECTRUM (8)  
TECGRAF (36)  
TGS (31)  
WELLFIELD (F)  
WESTERNGEICO (17)

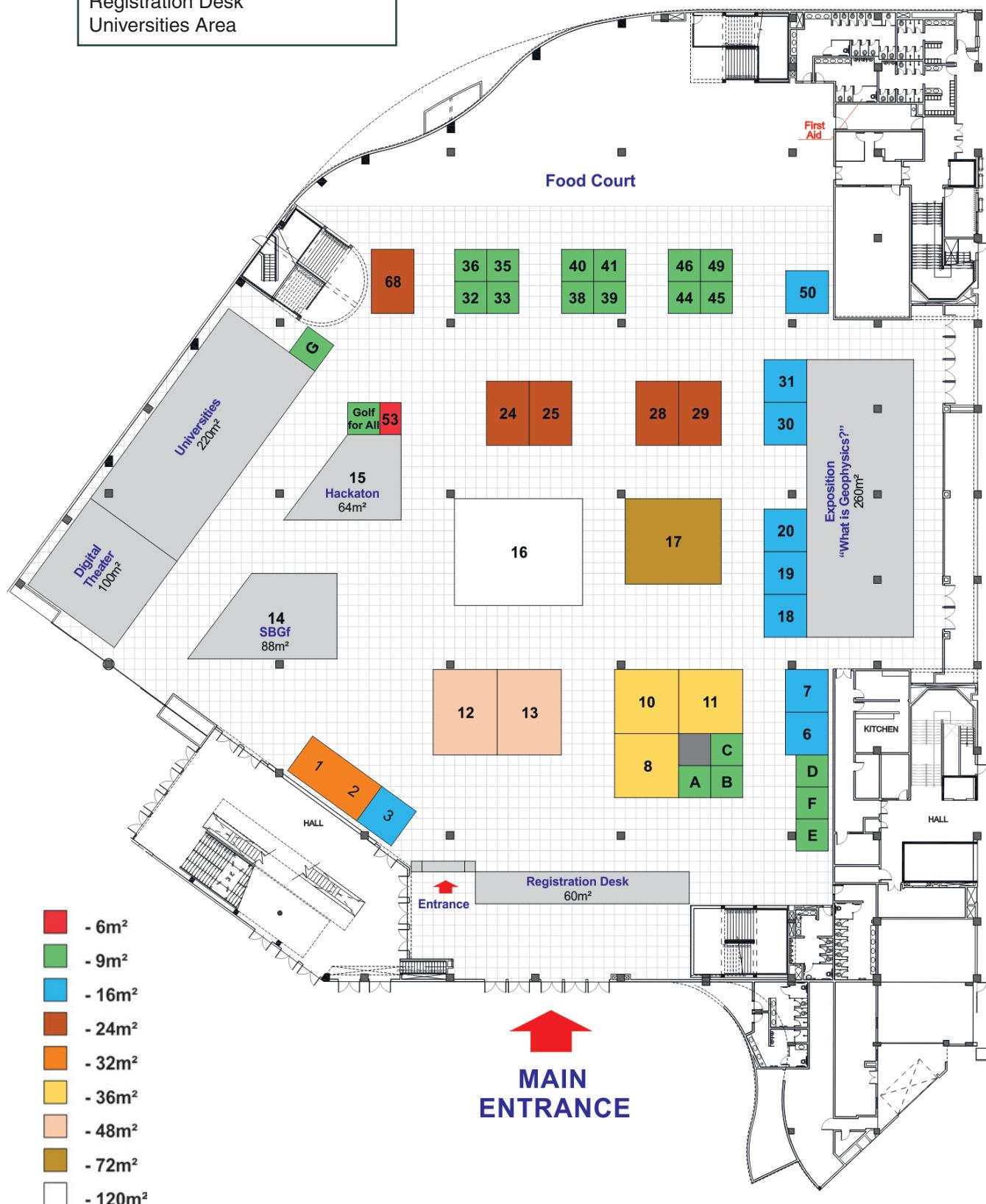
## GROUND FLOOR

EXPOGe (43 booths)  
 Exposition "What is Geophysics"?  
 Golf for All  
 Hacka.Geo 2019  
 Nvidia/Atos Digital Tech Theater  
 Registration Desk  
 Universities Area

## GROUND FLOOR

Booths total area 1673 square meters

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Booth #14

The Brazilian Geophysical Society (SBGf) is a not-for-profit organization aimed at serving the Geophysical community, and it is coming to its fortiethfirst anniversary of foundation. Presently it aggregates more than 4100 members worldwide, spread through the universities, research centers, government and regulatory agencies, plus in the service, mining, engineering and O&G industry. A Board of Directors, with head office in Rio de Janeiro and six regional sessions, covering the whole brazilian territory, manages the Society.

SBGf objectives are to congregate the Brazilian Geophysicists, to assure the Geophysicists rights and interests, to preserve the teaching and research freedom and the ethics in the Geophysics professional practices. To accomplish its objectives, the Society works closely with related sciences institutes and sister societies in Brazil and overseas. SBGf organizes and promotes technical meetings, conferences, courses and other activities in the Geophysics field and related sciences, with highlight to the Brazilian Geophysical Society international conference and exposition every two years. The Society also maintain a journal with the publication of geophysical technical papers (4 issues per year) and a bi-monthly newsletter, showing the society activities and with general subjects related to the Geophysics development.



36<sup>th</sup> International Geological Congress (36 IGC)  
<https://www.36igc.org>  
Booth #G

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The 36<sup>th</sup> International Geological Congress (36 IGC), Themed “ Geosciences: The Basic Science for a Sustainable Future” will be held during 2-8 March, 2020 at the India Expo Mart Ltd., Greater Noida. Delhi NCR, INDIA. It is funded by the Ministry of Mines and Ministry of Earth Sciences, Government of India. with the active scientific support from the Indian National Science Academy, and the Science Academies of Bangladesh, Nepal, Pakistan and Sri Lanka.

The details of the event and process for participation are given in the website of the event (<https://www.36igc.org>).



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Booth #45

Aarhus GeoSoftware is a leading provider of software for processing and inversion geophysical electromagnetic- and electrical data. We have developed a common platform, Workbench, for handling several types of data, where data handling is integrated from raw data to processing, inversion, QC of inversion results and visualization of inversion models. We also handle sales and support for Geotomo Res2DInv and Res3DInv.



Madrid, Spain

[agiusa.com](http://agiusa.com)

Advanced Geosciences Inc. (AGI)  
Booth #43

Advanced Geosciences Inc. (AGI) is the leading developer and manufacturers of resistivity/IP/SP imaging systems since 1989. Our resistivity/IP/SP instruments and inversion modeling software are delivered to allcontinents. AGI customers include government labs, universities, research institutions, mineral exploration companies, water drilling companies, and environmental and geotechnical engineering firms. We provide our customers with free industry-leading technical support around the clock. We also offer rapid repair turn around times and quick development of customized equipment and software. We produce state-of-the-art products for electrical resistivity and IP (Induced Polarization) imaging, including our Super Sting Wi-Fi multi-channel electrical imaging system and Power Sting, our series of external high-power IP transmitters for the Super Sting, in addition to other instruments and accessories. AGI is represented in Brazil by Alphageofisica Instrumentos Ltda ([alphageofisica.com.br](http://alphageofisica.com.br)).



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Phones: +55 21 3328-8518 / +55 21 99603-0720  
Booth #46

Aerocientífica, is an airborne geophysical survey company, offering a broad spectrum of research and mapping services to the oil, mining, civil engineering and environmental industries.

We look for to establish a transparent relationship with our customers by providing high quality data acquired by state-of-the-art equipment. Contact us, our data can help your exploration program identify the areas with the highest exploratory potential.



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Booth #30

BRATEXCO was founded in 2009 looking at opportunities in Brazilian offshore seismic data acquisition and processing business brought by its founders. Aiming the large experience and knowledge of the seismic industry in the Brazilian market, BRATEXCO is looking for technical solutions with high-tech companies interested in Brazil.

Bratexco works extensively, on a domestic and international basis with federal, state, local government and environmental agencies, navy, large and small corporations. The firm provides management, marketing, administrative and consulting services to its clients, at varying levels. The members of the core staff have each worked in the international energy industry for over 30 years, with the majority of that experience coming from within the Brazilian marketplace, Bratexco currently represents companies such as Sound Oceanics, Sharp Reflections, Geotek and OvationData.

Our expert team will provide your company with assistance in starting your Brazilian subsidiary, marketing of the products and services to the major clients operating in the energy sector and administration of your Brazilian subsidiary, thus minimizing or even preventing the need to hire valuable personnel on an expensive overseas assignment package.



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Booth #12

CGG is a fully integrated Geoscience company providing leading geological, geophysical and reservoir capabilities to its broad base of customers primarily from the global oil and gas industry. Through its three complementary businesses of Equipment, Acquisition and Geology, Geophysics & Reservoir (GGR), CGG brings value across all aspects of natural resource exploration and exploitation. CGG employs around 5,100 people around the world, all with a Passion for Geoscience and working together to deliver the best solutions to its customers. For more information, visit our site [www.cgg.com](http://www.cgg.com).



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Phone: + 55 84-3611-1636  
Booth #19

It is a company for acquisition and processing of 2D and 3D seismic data, with a team of well-trained professionals and long experience in the market, has extensive technological capacity and always updated, innovating and developing their own methodologies and applications such as static corrections, PSTM migration, beam type of PSTM, PSDM and CRS.

It has been in the market for eleven years and has a portfolio with 33 clients in Brazil and abroad. In this period it has executed about to 160,000 km of 2D seismic lines straight and crooked, 10,000 Km<sup>2</sup> of seismic 3D blocks and 13,000 km of PSDM with explosive and vibrator sources.



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Phone: + 55 21 2242-1529  
Booth #35

CRS ALLIANCE is a company specialized in IT Infrastructure solutions, which combines hardware, software and services for companies of all sizes and sectors. We live in times of constant innovation, which requires companies to update IT. Digital transformation has entered the agenda for corporate day because it is not possible to stay behind the competition. And for that, the CRS Alliance is ready to help.

Our professionals are experienced and dedicated, certified by leading suppliers and able to help you identify the best path and the best solutions for your needs. We ensure the enhancement, integration and optimization of your IT environment. And we offer the best solutions for each case - so we have partnerships with the main manufacturers.

Dell Technologies  
Booth #68



50

Dell Technologies is a unique family of businesses that provides the essential infrastructure for organizations to build their digital future, transform IT and protect their most important asset, information. The company services customers of all sizes – ranging from 98 percent of the Fortune 500 to individual consumers – with the industry's broadest and most innovative portfolio from edge to core to cloud.

## EAGE

EUROPEAN  
ASSOCIATION OF  
GEOSCIENTISTS &  
ENGINEERS

The European Association of Geoscientists and Engineers (EAGE)  
De Molen 42  
3994 DB Houten  
Netherlands  
+31 889955055  
[eage@eage.org](mailto:eage@eage.org)  
[www.eage.org](http://www.eage.org)  
Booth #D

The European Association of Geoscientists and Engineers (EAGE) is a global professional, not-for-profit association for geoscientists and engineers with approximately 19,000 members worldwide. It provides a global network of commercial and academic professionals to all members. The association is truly multi-disciplinary and international in form and pursuits.

All members of EAGE are professionally involved in (or studying) geophysics, petroleum exploration, geology, reservoir engineering, mining and mineral exploration, civil engineering, tunneling and environmental matters.

EAGE operates two divisions: the Oil & Gas Geoscience Division and the Near Surface Geoscience Division.



Electromagnetic Geoservices (EMGS)  
[www.emgs.com](http://www.emgs.com)  
Booth #28

EMGS, the marine EM market leader, uses its proprietary electromagnetic (EM) technology to support oil and gas companies in their search for offshore hydrocarbons. EMGS supports each stage in the workflow, from survey design and data acquisition to processing and interpretation. The Company's services enable the integration of EM data with seismic and other geophysical and geological information to give explorationists a clearer and more complete understanding of the subsurface. This improves exploration efficiency and reduces risks and the finding costs per barrel. EMGS operates on a worldwide basis with offices in Trondheim, Oslo, Houston, Mexico City, Rio de Janeiro and Kuala Lumpur.



Emerson  
Av. Rio Branco 139, SI 1702  
20040-002 -Rio de Janeiro – RJ - Brasil  
[customersupport@emerson.com](mailto:customersupport@emerson.com)  
[www.emerson.com/epsoftware](http://www.emerson.com/epsoftware)  
Phone: +55 21 3043-6500  
Booth #28

Emerson is the largest independent developer of software-enabled solutions to the global oil and gas exploration and production industry. Today's oil and gas industry must embrace change to find new solutions for project and operational certainty. At Emerson, we integrate new technology into our subsurface solutions and geoscience services to drive top quartile performance for our customers. The Emerson E&P Software offering, comprising Paradigm and Roxar solutions, aims at helping oil and gas operators increase efficiency, reduce costs and improve return on investment. Our end-to-end geoscience and engineering software portfolio enables customers to transform their organizations and workflows. By connecting subsurface technology to operational activities, we help decision makers reduce uncertainty, improve confidence, minimize risk, and support responsible asset management.



Eneva  
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22.250-040 - Rio de Janeiro - RJ - Brasil  
[www.eneva.com.br](http://www.eneva.com.br)  
Phone: +55 21 3721-3000  
Booth #24

51

Our portfolio of power generation assets is centered on the Reservoir-to-Wire (R2W) model, which allows us to control the natural gas supply of our plants, with our experience in the sectors of power generation, natural gas exploration, and onshore production. Our exploration acreage in the Parnaíba Basin is over 38,000 km<sup>2</sup>. We have a production capacity of 8.4 million m<sup>3</sup>/ day and 21.4 bcm of certified remaining reserves \*. We also have a concession in the Azulão Field, in the Amazon Basin, with 3.6 bcm of certified reserves \*. We currently have 2.7 GW of contracted capacity.

\* Data from 12/31/18, certified by Gaffney Cline & Associates



Geo Imaging Solutions (GIS)  
Av. Marechal Floriano, 22 - 10 andar - Centro  
20080-007- Rio de Janeiro - RJ  
<http://www.geoimaging-solutions.com>  
[info@geoimaging-solutions.com](mailto:info@geoimaging-solutions.com)  
Booths #01 and 02

Geo Imaging Solutions (GIS) is specialized in providing upstream technological solutions for the Oil and Gas industry, with offices in Brazil, the United States and in Argentina. In partnership with Repsol Sinopec Brazil, GIS's highly skilled R&D group developed and maintains a unique software package for seismic imaging and inversion, based on the viscoelastic implementation of the wave equation, including tools for building accurate velocity models. On top of licensing its software package, GIS also offers processing services, including seismic imaging and inversion, reservoir characterization and quantitative interpretation, using its own software package, as well as third-party packages.

Geometrics  
Booth #38



Geometrics Inc., a subsidiary of OYO Corporation, has 50 years of experience in manufacturing magnetometers, seismic and EM instruments for a variety of land, sea and air investigations. From our land-based geophysical systems to our new UAV mounted MFAM MagArrow magnetometer, we manufacture equipment to meet our clients' ever-changing needs.



Geopost Consultoria em Geologia e Geofísica LTDA  
Rua Victor Civita, 66, bloco 2, edifício 4, sala 524 –  
Jacarepaguá  
22775-044 – Rio de Janeiro – RJ – Brasil  
[marketing@geohub.com.br](mailto:marketing@geohub.com.br)  
<http://geopost.com.br/>  
Phone: + 55 21 3535-9664  
Booth #20

Products and services are:

Geopost Platform: A portal dedicated to the Brazilian oil and gas market, it is the best source of information to understand the Brazilian E&P scenario. Combining multiple news sources with technical data, Geopost is an essential tool for your geology & geophysics and business teams.

Online Geoscience: A collaborative platform for technical data management, designed to improve the exchange of information within the academic environment and its partnerships with private companies. It allows for an easier and faster access to information, creating a network between academic institutions and market players.

Data Management: Online platform for technical data management with the purpose of enhancing the flow of technical information (seismic, wells, etc.) within your company and creating a better relationship with your customers.



Gorceix Foundation  
Ouro Preto - Phone: +55 31 3559-7100  
Rio de Janeiro – Phone: +55 31 3507-7100  
[www.gorceix.org.br](http://www.gorceix.org.br)  
Booth #39

Founded in 04/18/1960, in the form of non-profit private law foundation, Fundação Gorceix originated from the ideal of a group of former students of the Escola de Minas (School of Mines) from Universidade Federal de Ouro Preto (Federal University of Ouro Preto), teachers and businessmen who, with remarkable vision and abnegation, devised and implemented the institution.

Since its foundation, Fundação Gorceix has contributed decisively to the development of science and technology in the field of engineering, especially in the areas of productive chains of oil and gas, mining, metallurgy and environment.

Aiming to fully achieve its statutory objectives, Fundação Gorceix maintains specific programs of continuing education for students of Escola de Minas/Universidade Federal de Ouro Preto and for professionals from partner companies that operate in the above mentioned fields.

Thus, Gorceix has been fulfilling its mission with determination and faithful compliance of the will of its founders, achieving results of great relevance to sustainable development of the country.



Guideline Geo – ABEM  
Booth #49

Guideline Geo provides solutions for non destructive mapping of the subsurface.

Through our world leading brands, ABEM and MALA, we offer sensors, software, services and support necessary to map and visualize the subsurface

Guideline Geo's instruments and software are being used to solve many geophysical problems for various applications like Archaeology, Utility Locating, Bedrock mapping, Civil engineering, Concrete investigations, Geological mapping, Geophysical exploration, Groundwater delineation, Groundwater prospecting, Infrastructure & construction, Mapping and monitoring of contamination, Mapping snow/ice thickness, Mineral exploration, Road mapping, Rock quality, Sinkhole investigation.

# HALLIBURTON

Halliburton  
Rua da Assembleia, 66 Centro  
20011-000 – Rio de Janeiro – RJ – Brasil  
[www.halliburton.com](http://www.halliburton.com)  
Phone: + 55 21 3974-0000  
Booth #10

Founded in 1919, Halliburton is one of the world's largest providers of products and services to the energy industry. With 60,000 employees, representing 140 nationalities in more than 80 countries, the company helps its customers maximize value throughout the lifecycle of the reservoir – from locating hydrocarbons and managing geological data, to drilling and formation evaluation, well construction and completion, and optimizing production throughout the life of the asset.



Hasageo Equipamentos Geofísicos  
Headquarters: Rio Mountain Region, Petrópolis.  
Km 65 Highway BR-040  
Phone: + 55 24 2222-2736  
[hamilton.sartori@hasageo.com](mailto:hamilton.sartori@hasageo.com)  
Booth #50

Exclusive representative “state-of-the-art” geophysical equipments in the environmental, mining, precision agriculture, engineering and geotechnical areas, among others.

Operating since 1995, it brings the know-how and updated technology in the world market.

Hasageo has the Letter of Inquiry required by most public bids, offering the best value, with the warranty and technical assistance, courses for the correct use of the equipment, in a practical and didactic manner, as well as advice given throughout the country.

Efficacy, convenience and quality are features pursued by Hasageo's owner, geologist

Hamilton Sartori, who also offers clients, in advance, his research in the worldwide geophysical market.



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[www.iongeo.com](http://www.iongeo.com)  
Booth #11

ION has been a technology leader for 50 years with a strong history of innovation. Leveraging innovative technologies, ION creates value through data capture, analysis and optimization to enhance companies' critical decision-making abilities and returns. Our offerings are focused on improving E&P decision-making, enhancing reservoir management and optimizing offshore operations. For more information visit [iongeo.com](http://iongeo.com).



MAGSEIS FAIRFIELD  
Praça XV de Novembro, 20 - 5<sup>th</sup> floor  
Rio de Janeiro – RJ – Brasil  
[MagseisFairfield.com](http://MagseisFairfield.com)  
Phone: +55 21 2184-6544  
Booth #29

Magseis Fairfield is the industry leader in ocean bottom seismic technology. Combining the resources and expertise of Magseis and Fairfield Seismic Technologies has created the industry's most advanced and largest ocean bottom (OBN) inventory, including the full range of MASS and ZN nodal technology. Backed by more than 40 years of experience, our innovative acquisition techniques and modular solution have significantly streamlined seismic data acquisition.



Metta Innovations  
Rua Maria Eugenia 123, Humaitá, Sala 26  
Rio de Janeiro - RJ.  
[www.mettainnovations.com.br](http://www.mettainnovations.com.br)  
Phones: +55 21 982764917 (Aurelio Figueiredo)  
+55 21 983319260 (Leonardo Martins)  
Booth #40

Metta Innovations is a Brazilian company created by experts with more than 10 years of experience in creating solutions focused on innovation. Metta's expertise includes technologies such as optimization, visualization, virtual reality, augmented reality, high performance computing (HPC), image processing, computer vision, Big Data & Analytics, Machine Learning, and especially Deep Learning. Metta is a pioneer in the application of these technologies in Computational Geophysics, as well as being the commercial representative of the products of Geophysical Insights in Brazil.



National Agency of Petroleum, Natural Gas and Biofuels – BRAZIL  
Av. Rio Branco, 65 – 21º andar  
20.090-004 - Rio de Janeiro – RJ - Brasil  
[institucional@anp.gov.br](mailto:institucional@anp.gov.br)  
[www.anp.gov.br](http://www.anp.gov.br)  
Phone.: + 55 21 2112- 8303  
Fax: + 55 21 2112-8339  
Booth #6

The National Agency of Petroleum, Natural Gas and Biofuels (ANP) is the regulatory body for activities that integrate the oil, natural gas and biofuels industries in Brazil. As a federal authority responsible for implementing the national policy for these sectors, ANP focuses on guaranteeing the fuel supply and protecting consumers' interests.

Its purposes are: to regulate (establishing the rules for the industry), to contract (organizing auctions, signing contracts on behalf of the Brazilian Federal State with the concession holders, and granting permits for the activities of regulated companies) and to supervise the oil, gas and biofuels sector (ensuring compliance with the rules, directly or by agreements with other public authorities).



NT Empreendimentos Ltda  
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Phones: + 55 21 2543-0988 / + 55 21 99606-5928  
Booth #44

NT EMPREENDIMENTOS LTDA represents in Brazil the following geophysics instrumentation manufacturers:

- Scintrex and Micro-g La Coste are the gravity specialists, meeting all your gravity requirements. The new CG-6 Autograv™ gravity meter succeeds the industry standard CG-5. The EnviCs high sensitivity magnetometer can determine subtle changes showing buried walls or disturbances. [www.scintrexltd.com](http://www.scintrexltd.com)
- Instrumentation GDD - IP systems, EM receiver, hand-held conductivity & magnetic susceptibility meter, others. [www.gddinstrumentation.com](http://www.gddinstrumentation.com)
- Nuvia Dynamics - gamma spectrometers and others. [www.nuvia-dynamics.com](http://www.nuvia-dynamics.com)



Petrec  
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[www.petrec.com.br](http://www.petrec.com.br)  
Phones: + 55 21 3733-1817 - + 55 21 3733-1816  
Booth #33

PETREC is a technology-based company, 100% Brazilian. We operate in the technology and innovation sectors, providing services as data acquisition, processing, interpretation, and geophysical & geological data management. PETREC has an experienced and qualified team with advanced degrees in geosciences to meet the various levels of complexity of the onshore and offshore Brazilian oil and gas industry.

PETROBRAS  
www.petrobras.com.br  
Booth #16



We are a publicly-held company operating on an integrated basis and specializing in the oil, natural gas and energy industry.

We are present in the exploration and production, refining, marketing, transportation, petrochemicals, oil product distribution, natural gas, electricity, chemical-gas and biofuel segments.



PGS  
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20021-290 - Rio de Janeiro – RJ – Brasil  
[brazilinfo@pgs.com](mailto:brazilinfo@pgs.com)  
[www.pgs.com](http://www.pgs.com)  
Phone: + 55 21 2421-8400  
Booth #13

PGS is a dedicated Marine Geophysical company. Our business is technology driven and we provide a broad range of seismic, electromagnetic and reservoir services, including acquisition, imaging, interpretation, and field evaluation. PGS provides images and 3D models of the subsurface beneath the ocean floor that oil companies use to find oil and gas reserves worldwide. Our library contains seismic and EM data, and our services include data acquisition and processing, imaging, reservoir analysis and interpretation.



Phoenix Geophysics Ltd.  
3781 Victoria Park Ave. Unit 3  
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[cguerrero@phoenix-geophysics.com](mailto:cguerrero@phoenix-geophysics.com)  
Phone: 416-491-7340 Ext. 334 Fax: 1(416)491-7378  
Booth #53

Founded in 1975, Phoenix Geophysics specializes in electromagnetic geophysical instrumentation and services, and is the leader in eighth generation Magneto Telluric (MT) instrumentation. Phoenix has exported equipment and services to over 85 countries globally. Phoenix has carried out surveys for most of the world's largest mining, Oil & Gas companies.

Phoenix technology suits many industrial and scientific applications, including exploration for: oil and gas in poor seismic areas; diamonds; base and precious metals (as deep as 2000 m); ground water; geothermal reservoirs; and industrial minerals. The technology is also used for monitoring of: hydrocarbon reservoirs; geothermal reservoirs; hazardous waste sites; tailing ponds; land slide, fault, and earth quake zones; and dams and dikes. MT techniques are also used in pure research applications, such as deep crustal study.

Phoenix employs other specialized electromagnetic techniques, including Audio frequency MT (AMT), Controlled Source AMT (CSAMT), Transient Electro Magnetics (TEM), Frequency Domain (FDEM), Induced Polarization (IP), and Resistivity.



Polarcus  
[www.polarcus.com](http://www.polarcus.com)  
Booth #07

Polarcus is an innovative marine geophysical company with a pioneering environmental agenda, delivering high-end towed streamer data acquisition and imaging services from Pole to Pole. Polarcus operates a fleet of high performance seismic vessels with 3D and 4D imaging capabilities, which incorporate leading-edge maritime technologies for improved safety and efficiency. Polarcus offers contract seismic surveys and multi-client projects with advanced onboard processing solutions. The Company services its clients globally from its head office in Dubai and regional offices located in Houston, London and Singapore. For more information, visit [www.polarcus.com](http://www.polarcus.com)



SAExploration  
1160 Dairy Ashford Road, #160  
Houston, Texas 77079  
USA  
[mfarine@saexploration.com](mailto:mfarine@saexploration.com)  
Booth #18

SAE is an international oilfield services company offering a full range of vertically-integrated seismic data acquisition, data processing and interpretation, and logistical support services through North America, South America, Asia Pacific, Africa and the Middle East. In addition to the acquisition of 2D, 3D, time-lapse 4D and multi-component seismic data on land, in transition zones and offshore in depths reaching 3,000 meters, SAE offers a full suite of data processing and interpretation services utilizing its proprietary, patent-protected software, and also provides in-house logistical support services, such as program design, planning and permitting, camp services and infrastructure, surveying, drilling, environmental assessment and reclamation, and community relations. SAE operates crews around the world, performing major projects for its blue-chip customer base, which includes major integrated oil companies, national oil companies and large independent oil and gas exploration companies. With its global headquarters in Houston, Texas, SAE supports its operations through a multi-national presence in the United States, United Kingdom, Canada, Peru, Colombia, Brasil, Bolivia, Malaysia, Singapore, and Australia. For more information, please visit SAE's website at [www.saexploration.com](http://www.saexploration.com).



Sequent  
Rua da Passagem 123 Sala 401 Parte - Botafogo  
22290-031- Rio de Janeiro - RJ- Brasil  
[www.sequent.com](http://www.sequent.com)  
Booth #32

Sequent is a world leader in the development of 3D geological and geophysical modelling and visual data software for understanding subsurface geoscience, large scale engineering design solutions, environmental impact assessments, and geothermal projects.

Geosoft is now part of Sequent, working together to enable the analysis of complex data, management of risk and ultimately better decisions about earth, environment and energy challenges. Through our geoscience analysis, modelling and collaborative technologies, we assist customers to solve increasingly complex problems in geoscience that impact our planet: climate, energy, natural hazards, infrastructure, mineral resources, and water.



Shearwater Geoservices Limited  
Brockbourne House  
77 Mount Ephraim  
Tunbridge Wells, Kent  
TN4 8BS  
UK  
[www.shearwategeo.com](http://www.shearwategeo.com)  
Booth #25

Shearwater's modern fleet, expert imaging teams and innovative software combine to offer exceptional results. The powerful fleet, complete with modern technology, is manned by experienced crews working safely and efficiently in all operating conditions to deliver a cost-effective and high-quality service.

Our Processing & Imaging department provide agile, responsive teams of industry qualified experts, enabling costs and flexibility at the heart of your project. The Shearwater intuitive software solution, Reveal, is a full processing software that offers modern, powerful and extensible, perfect for all demanding seismic data analysis. Fast, flexible and cost-effective, Shearwater is the cutting-edge geophysical services company.



Sociedade Brasileira de Geologia – SBGEO  
<http://www.sbggeo.org.br>  
Booth #B

The Brazilian Society of Geology is a non-profit technical-scientific entity founded in 1946. It is headquartered in Cidade Universitária USP, São Paulo, SP, and has regional centers with jurisdiction in Bahia, Brasília, Centro-Oeste, Minas Gerais, Nordeste, Norte, Paraná, Rio de Janeiro, São Paulo and Sul.

The main objectives and goals of the Brazilian Society of Geology are to congregate in an associative way all those who exercise activities of aspects in the geosciences, besides holding meetings and congresses to debate and disclose the area of interest. Another important aspect for SBG is the exchange with similar national and foreign societies. In the academic, one should encourage and compete for the improvement of teaching, training and professional training and the specialization of scientists and technicians, in addition to maintaining periodical and/or serial publications for the dissemination of the national technical-scientific production and the news of interest to the Society.



**SOCIETY OF EXPLORATION  
GEOPHYSICISTS**

The Society of Exploration Geophysicists  
8801 South Yale Ave., Suite 500  
Tulsa, Oklahoma - USA  
Booth #A

The Society of Exploration Geophysicists is a not-for-profit organization committed to connecting the world of applied geophysics. With thousands of members in 110 countries, SEG provides educational and technical resources to the global geosciences community through publications, books, events, forums, professional development courses, young professional programs, and more. Founded in 1930, SEG fosters the expert and ethical practice of geophysics in the exploration and development of natural resources, characterization of near surface, and mitigation of earth hazards. For more information visit [www.seg.org](http://www.seg.org).



Spectrum Geo do Brasil Serviços Geofísicos  
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Phone: +55 21 3578 -5547  
[www.spectrumgeo.com](http://www.spectrumgeo.com)  
[mc-us@spectrumgeo.com](mailto:mc-us@spectrumgeo.com)  
Booth #8

Spectrum is established as a key player in the seismic services market. The company focuses on delivering high-quality Multi-Client seismic data holding the world's largest 2D offshore library and a significant 3D seismic offering.

The Spectrum library of Multi-Client seismic data specializes in regional coverage and includes projects from most of the foremost oil producing regions of the world.

Our experienced teams of geoscientists integrate seismic interpretation with well data and remote sensing information to evaluate the hydrocarbon potential of the basins in which we work.

Our vision is to deliver world-leading services through persistence, dedication and commitment to quality and we target key regions of hydrocarbon prospectivity, solving the imaging challenges that enable our clients to make better exploration decisions with the data they purchase.



Tecgraf/PUC-Rio Institute  
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[www.tegraf.puc-rio.br](http://www.tegraf.puc-rio.br)  
Phones: +55 21 3520-4000/+55 21 3736-2500  
Booth #36

Tecgraf/PUC-Rio Institute is a successful self-supported model of R,D&I. Located in the campus of PUC-Rio, the Institute brings together researchers, professors, students and collaborators with the emission to strength enthepartnership between academic research and industry.

Driven by challenges, Tecgraf/PUC-Rio integrates different competencies allowing the development of innovative computer systems and solutions, including: Computer Modeling and Simulation; Interactive Digital Technologies; Data Science and Management; Optimization and Logistics; and Industry 4.0.

The Institute is accredited by ANP and CATI, and it is also an EMBRAPII Unit in the area of "Computer Solutions in Engineering". For more information, please visit [www.tegraf.puc-rio.br](http://www.tegraf.puc-rio.br).



TGS  
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Phones:+1 832-667-4797/Cell: +1 713-569-3430  
Booth #31

TGS is the world's largest geoscience data company, known for its asset-light, multi-client business model and global data library. TGS employs approximately 550 employees and has its corporate head quarters in Asker, Norway and its operational head quarters in Houston, Texas, U.S.A.

## EXHIBITOR COMPANIES



Wellfield  
Praia de Botafogo, 501 - Torre Pão de Açúcar Sl. 153 – Mourisco  
22.250-040 – Rio de Janeiro – RJ – Brasil  
[www.wellfiled.cl](http://www.wellfiled.cl)  
Phones: +55 21 2546-9957/9955  
Booth F

Wellfield Service Ltda, a chilean company founded in 1993, provides geophysical services to O&G and Mine companies in several countries in Latin America. The company is acting in Brazil since 2015 as Wellfield Serviços Geofísicos do Brazil Ltda and Geomag S/A Prospecções Geofísicas established in Rio de Janeiro.



WesternGeco  
Latin American South – Office  
Avenida República do Chile, 330 - 18th floor – West Tower  
20031-170 – Rio de Janeiro – RJ -Brasil  
Booth # 17

WesternGeco supplies comprehensive multiclient, reservoir interpretation, data processing, and other geophysical services worldwide to help our customers accelerate hydrocarbon discovery.

We collaborate with our customers at every stage of the E&P life cycle to accelerate their discoveries in basins spanning the globe. From derisking prospects to optimizing reservoir monitoring, we have the expertise, digital capabilities, and seismic data to help our customers get to first oil faster and maximize their recoveries. WesternGeco is a key part of the Schlumberger reservoir characterization offering. The ability to integrate advanced seismic technologies with other reservoir characterization workflows provides additional insight to our customers.



Jardim Botânico Pedro Kirilos CMKY

# NVIDIA / ATOS DIGITAL TECH THEATER 2019

SPONSORS:



**nVIDIA.**<sup>®</sup>

**Atos**

**60**

NVIDIA / ATOS DIGITAL TECH THEATER is an event organized by the Brazilian Geophysical Society (SBGf), in the exhibition area, during the 16<sup>th</sup> CISBGf. Main geophysics, technology, and O&G companies will deliver technical presentations about their technologies, view of the future and successful cases in areas of High Performance computing (HPC), G&G Technical Data Management, 3D visualization applied to G&G, Virtualization applied to G&G, Clouding Computing e Data Science applied to geophysics.

**Chairman: Francisco Aquino (Petrobras)**

**Co-Chairs: Gilmário Maciel (Petrobras) and Renata Lira (Petrobras)**

**20 AUGUST**

13:30 - 14:00	<b>Methodology and Solution for Monitoring Production Equipment in Remote Locations</b> Márcio Arbex (TIBCO LATAM Solutions Consultants Director)
14:00 - 14:30	<b>Using Machine Learning to Accelerate Oil and Gas Chain Processes and Reduce Time to First Oil</b> Cristina Jeronimides and Paulo Aragão (AWS)
14:30 - 15:00	<b>Moving Machine Learning from PoC to Production: an Integrated Platform bringing Data Scientists and E&amp;P Experts Together</b> Felix Gonçalves and Francois Lafferriere (Kognitus)
15:00 - 15:30	<b>Inversão Sísmica utilizando Técnicas de ML</b> Carlos Eduardo Pereira Pacheco (Halliburton)
15:30 - 16:00	<b>Semi-automatized Approach of Seismic Interpretation</b> Francois Lafferriere (Eliis VP Latin America)
16:00 - 16:30	<b>Automated Solutions to integrate Exploration, Reservoir and Production Management</b> Leonardo Matriciano (Petrobras)
16:30 - 17:00	<b>Artificial Intelligence – Digital Transformation in Seismic Processing and Interpretation</b> Pedro Mário Cruz e Silva (Solutions Architect Manager, NVIDIA)
17:00 - 17:30	<b>A Journey through WG's Digital Transformation</b> Marcela Ortin (Schlumberger)

21 AUGUST	
10:30 - 11:00	<b>Giving the Next Step into Digital Transformation: Software Virtualization and Connected Services</b> Jorge Assunção (Emerson)
11:00 - 11:30	<b>Stratus - Virtualised Interpretation G&amp;G Environment</b> Bruno Costa Albuquerque (Petrobras)
11:30 - 12:00	<b>The Virtual Workstation &amp; Professional Visualization in Geophysics</b> Pedro Mário Cruz e Silva (Solutions Architect Manager, NVIDIA)
12:00 - 12:30	<b>InfinityEarth® - Cloud Native Geoscience Data Processing Platform</b> Steve Angelovich (Halliburton)
13:30 - 14:00	<b>NVIDIA in the World's Largest Industrial Supercomputers</b> João Paulo Navarro (Solutions Architect, NVIDIA)
14:00 - 14:30	<b>Desmistifying HPC on the Cloud</b> Paulo Aragão (AWS)
14:30 - 15:00	<b>Petrobras' New Supercomputers for Geophysics</b> Daniel Thomé de Paula (Petrobras)
15:00 - 15:30	<b>Leveraging Cloud Computing to Identify DHIs Directly from Massive Gather Datasets - A Live Example Using ION's Picanha 3D Data, offshore Brazil</b> Bill Shea and Adriana Pereira (Sharp Reflections)
15:30 - 16:00	<b>Cloudy to Sunshine - A Journey on the E&amp;P industry</b> Bruno Oliveira (Halliburton)
16:00 - 16:30	<b>Democratizing HPC</b> Joaquim Merino (LATAM HPC Leader, DELL TECHNOLOGIES)
16:30 - 17:00	<b>IBM High Performance Computing Insights with OPenPOWER</b> Antonio Carlos Navarro (IBM)
17:00 - 17:30	<b>Computação Híbrida a Quântica, e seu uso em Sísmica</b> Genaro Costa (HPC Expert - Atos/Bull - Big Data & Security)
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10:30 - 11:00	<b>ANP-BDEP - The New Computational Infrastructure</b> Cláudio Jorge Martins de Souza (ANP/BDEP)
11:00 - 11:30	<b>Geophysical Data Network - 7 PB of Data Transferred</b> Marcelo Delgado Landini (Petrobras)
11:30 - 12:00	<b>BlueBack Data Management Solution for Petrel</b> Renata Brito Barbosa (Schlumberger)
12:00 - 12:30	<b>Cloud or Tapes.... Where should I put my data securely?</b> Juan Felipe C. Vazquez (Latin America Tape & Robotics Brand Manager – IBM)
13:30 - 14:00	<b>HACKA.GEO 2019 - Project Presentation</b> Team Cirrus (GISIS/UFF)
14:00 - 14:30	<b>HACKA.GEO 2019 - Project Presentation</b> Team Cumulus (UNB 1)
14:30 - 15:00	<b>HACKA.GEO 2019 - Project Presentation</b> Team Nimbus (UENF)
15:00 - 15:30	<b>HACKA.GEO 2019 - Project Presentation</b> Team Cumulo-nimbus (CEFET/UFF/UFPA)
15:30 - 16:00	<b>HACKA.GEO 2019 - Project Presentation</b> Team Stratus (UNB 2)
16:00 - 17:00	<b>HACKA.GEO 2019 AWARDS</b>

# The OpenEarth SBGf Hackathon 2019

## HACKA.GEO 2019

SPONSORS:



**HALLIBURTON**



### Introduction

The OpenEarth SBGf Hackathon 2019 – HACKA.GEO 2019 is an event that gathers people interested in solving geoscience problems with modern and open computational tools. This event is part of the EXPOGEf, in addition to the International Congress of the Brazilian Geophysical Society, under the official sponsor of SBGf, HALLIBURTON and NVIDIA.

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### Objective

The main goal of the Hackathon is to promote fruitful discussion about the employment of modern computational techniques and tools in solving Geophysical problems.

### Organizing Committee

Francisco Aquino – Petrobras / SBGf  
Bruno Oliveira – Halliburton  
Mitchel Xavier – Halliburton  
Pedro Mário Cruz e Silva – NVIDIA  
Rodrigo Portugal – Halliburton  
Rúbio Leonardo – Halliburton

### Technical Committee

The technical committee is comprised by 5 members indicated by the organizing committee, following the composition: one from NVIDIA, two from HALLIBURTON, one from PETROBRAS and one from ENAUTA. Their roles are: define the main technical challenges of Hackathon, decide which groups will be selected to the finals and rank these groups for the prizes.

### Participating Teams

Five teams will be admitted for the Hackathon, each one from a Brazilian University. Each team is composed by four regularly enrolled students and one mentor.

- Team Cirrus - GISIS/UFF (Mentor: Prof. Marco Antonio Cetale)
- Team Cumulus - UNB 1 (Mentor: Prof. George Sand)
- Team Nimbus - UENF (Mentor: Prof. Fernando Moraes)
- Team Cumulonimbus - CEFET/UFF/UFPA (Prof. José Jadsom S. de Figueiredo)
- Team Stratus - UNB 2 (Mentor: Prof. George Sand)

## GENERAL INFORMATION



### Monday Opening Session

The Opening Session will be held, on Monday, 19 August at 5:30 pm in Copacabana and Recreio rooms, located on the 2<sup>nd</sup> floor at SulAmérica Convention Center. All delegates and exhibitors are invited to this event.

### Icebreaker Reception

The Icebreaker Reception will be held from 7 pm to 10 pm on Monday, 19 August at the Exhibition Area. All delegates and exhibitors are invited to this event.

Reception kindly sponsored by:



### Wednesday Closing Dinner

The Wednesday Closing Dinner, on 21 August, at 8pm, is only partially subsidized by the registration fee. Therefore, all attendees and exhibitors can purchase up to two Closing Dinner Tickets at R\$ 140,00 (one hundred and forty reais) per ticket in order to attend. All delegates and exhibitors are encouraged to order their tickets when they register in advance.

This wonderful event will take place at Círculo Militar da Praia Vermelha. The place is surrounded by Guanabara Bay and has a privileged view of Sugar Loaf. Address: Praça General Tibúrcio, s/n - Urca

Shuttle service will be not provided by the Organizing Committee. Car parking is available around Praia Vermelha Square.



Reception kindly sponsored by:



## **Delegate Member and Non Member and Undergraduate and Graduate Students member**

Admission to the Expogef Rio 2019, to Technical Sessions (Oral and Posters) and to Opening Session & Icebreaker. Access to Ground and 2nd Floors. Valid from 19-22 August. Exchange voucher for a delegate bag.

## **Exhibitor Badge**

Admission to the Expogef Rio 2019, Opening Session & Icebreaker and Opening Panel.

Access to Ground Floor only. Valid from 19-22 August.

## **Visitor Expogef**

Admission to the Expogef Rio 2019. Access to Ground Floor only. Valid from 20-22 August.

## **Session Chairmen Breakfast Meetings**

A special Breakfast for the session chairmen will be served at 7:30am to 8am, from 20-22 August, and it will take place in Cocotá room – 2nd floor. These important meetings will provide valuable information to session chairmen about oral and poster presentations. All session chairmen are urged to attend the Breakfast on the day of their participation.

## **Testing and Uploading Oral Presentations**

We strongly recommend that all presenters test and upload their slides onto the network the day before its scheduled presentation. The upload must be done in the Multimedia Room, located in 2nd floor, from 20-22 August, from 8:00am to 5:30pm.

## **Poster Presentations**

Posters must be on display for the full day. Authors are required to be present at their poster for at least 2 (two) hours during the day and the poster presentation should be given in accordance with the technical program schedule. Poster displays should be mounted at 8 am of the day of your presentation and it should be removed at 5:00 pm in the same day in order to allow other poster presenters on the next poster session program to arrange their poster display.

## **Proceedings on CD-ROM**

Each delegate and student will receive the proceedings on CD-ROM with the expanded abstracts. There will not be a printed version of the abstracts neither a CD-ROM of the papers.

## **Brazilian Geophysical Society (SBGf) Booth**

Visit SBGf booth and examine our publications. During the 16th CISBGf, many activities will be held for the attendees.

At SBGf booth, you can update your personal data if you are a member, read the SBGf newsletter and you will find past issues of the Revista Brasileira de Geofísica (RBGf - Brazilian Journal of Geophysics).

## **SBGf Board, Council and Regional Secretaries Meeting**

**20 August, at noon, in Vermelha room.**

## **SBGf General Assembly (AGO)**

**21 August, at noon, in Vermelha room.**

## **Wi-fi**

Located on the Ground floor only.

## **First Aid Room and Ambulance (UTI)**

Located on the Ground Floor.

Timetable: 17-22 August from 8am to 8pm

## **Coffee Points**

Several coffee points are located throughout the Conference and Exhibition area.

## **Universities Booth**

Located on the ground floor, at the Universities booth, the participant will have the opportunity to know graduation courses and lines of research of the Master's and Doctorate in Geophysics.

Short courses will be held in the Universities booth.

## **Agenda:**

**Tuesday, 20 August**

**8:30am-11:30am**

**Madagascar**

Lecturer: Daniel Miranda (Petrobras)

**14:30pm- 17:30pm**

**Como fazer uma apresentação científica**

Lecturer: Roberta Vidotti (UnB)

**Wednesday, 21 August**

**8:30am-11:30am**

**Programação em GPU/OpenACC**

Lecturer: João Paulo Navarro (NVIDIA)

**14:30pm- 17:30pm**

**Escrevendo um artigo científico**

Lecturer: José Jadsom Sampaio de Figueiredo  
(UFPA)

**Thursday, 22 August**

**8:30am-11:30am**

**Noções de LaTeX**

Lecturer: Cícero Régis (UFPA)

**14:30pm- 17:30pm**

**Introdução ao processamento sísmico na nuvem computacional**

Lecturer: Edson Borin (Unicamp)

**Exhibition: What is Geophysics?**

Aiming at reaching the high school level students and the society as a whole, the Exhibition “What is Geophysics?” is divided in booths presenting.

Geophysics methods applied to Global Geophysics, where small scale experiences and simulations are presented, aside from panels and computer presentations. The participating institutions are: UFPA, UnB and USP.

**EAGE GEO-QUIZ**

**21 August at 1:55pm room Arpoador. Registration at EAGE booth.**

The EAGE Geo-Quiz is a source of enjoyment and interactive way to test your knowledge and skills by competing with and against fellow students from all over the world. Due to its proven success at EAGE's Annual Meetings, the Regional Geo Quiz was introduced.

Students are invited to participate in the EAGE Geo-

Quiz, to put their learned knowledge and skills to the test and compete with and against fellow students!

The winning team will receive travel grants to the EAGE Annual 2020

**Transportation**

**Subway/Metro/Underground**

**Closest Subway/Metro/Underground Station:  
Estácio – 71m**

Mondays through Fridays: three simultaneous subways lines are running. If you take the train in any other station, make sure to take the red line “Jardim Oceânico - Saens Peña” and get off at the Estácio station.

Saturdays and Sundays: take the subway line one or two and get off at the Estácio Station.

**Car Parking**

R\$ R\$ 30,00 (thirty reais) per day, per car inside the SulAmérica Convention Center. Business hours: 7am to 11pm.

**Restaurant Information**

Food Court at SulAmérica Convention Center  
Levy Restaurante – located in the technical sessions area

Timetable: 18-22 August

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**Snack Bar at SulAmérica Convention Center**

Levy Restaurante – located at the exhibition area  
Timetable: 20 -22 August

**Courtyard of SulAmérica Convention Center**

Levy Restaurant  
Mega Matte Snack Bar  
Timetable: 20 -22 August



*Corcovado, estátua do Cristo Redentor e os morros da Urca e Pão de Açúcar - Rio de Janeiro - Brasil  
Foto Fernando Maia*

# 16<sup>th</sup> International Congress of the Brazilian Geophysical Society



Bondinhos do Pão de Açúcar vistos da orla de  
Botafogo - Rio de Janeiro - Foto Alexandre Macieira

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Setor de Educação da UFPR  
Campus Rebouças  
(ao lado do Shopping Estação)



**Realização**



**Patrocínio Institucional**



**Apoio**



*Jardim Botânico, Curitiba - PR*

<http://simposio.sbgf.org.br>