Aim

The aim of this Workshop is to discuss some of the challenges for well drilling activities and reservoir production in geological complex environments, especially in evaporite basins and unconventional reservoirs. Renowned professionals of the oil and gas industry will present their experiences and examples of how the discipline of geomechanics can help us to overcome these scientific and technological challenges.

Professionals of well drilling and reservoir areas, as well as academic and students are invited to participate in this workshop to discuss and exchange experiences with the lecturers.

Language: English
Contact: gtep.eventos@puc-rio.br

Registration fee
Student: R$ 100,00
Professional: R$ 250,00
* Coffee Breaks are included

Registration
**Preliminary Program**

**7:30 - 8:45**

**REGISTRATION AND CREDENTIALS**

**8:45 – 9:00**

**OPENING**

Sergio A B da Fontoura (PUC-Rio, Chairman of the ISRM Petroleum Geomechanics Commission)

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**IN SITU STRESSES AND PORE FLUID PREDICTION AROUND SALT BODIES**

Discussion Leader: to be defined

**9:00 – 9:30**

Pore fluid pressure modelling around salt bodies.

Dr Kuncho Kurtev (SINTEF Norway)

**9:30 – 10:00**

Aspects on pore pressure and In Situ stresses around salt masses

Dr Claudia Santana (Halliburton)

**10:00 – 10:30**

Discussion

**10:30 – 11:00**

Coffee break

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**HYDRAULIC FRACTURING STIMULATION**

Discussion Leader: to be defined

**11:00 – 11:30**

Understanding some geomechanics aspects affecting the fracturing performance of shale reservoirs.

Dr José Gildardo Osorio (Pluspetrol)

**11:30 – 12:00**

What have we learned about fracturing shales after 12 years of micro seismic imaging?

Dr Shawn Maxwell (ITASCA)

**12:00 – 12:30**

Discussion

**12:30 – 14:00**

Lunch
DISPLACEMENTS AROUND AND IN RESERVOIRS
Discussion Leader: Erling Fjaer (SINTEF)

14:00 – 14:30 Gas-shale fracturing and fracture mobilization in shear: Quo vadis?
Dr Nick Barton (NB & A)

14:30 – 15:00 Deformation and well damage in and around depleting reservoirs.
Dr Russ Ewy (Chevron Energy Technology Co)

15:00 – 15:30 Reservoir geomechanics at Petrobras: R&D perspectives and challenges.
Dr Antonio Luiz Serra (Cenpes/Petrobras)

15:30 – 16:00 Discussion

16:00 – 16:30 Coffee break

DRILLING OPTIMIZATION
Discussion Leader: to be defined

16:30 – 17:00 Optimizing drilling based on drilling experience and modelling.
Miltiadis Parotidis (Group Technical Authority in Geomechanics – BG Group)

17:00 – 17:30 Integrated approach for drilling optimization offshore Brazil
Dr Marcos Freesz (Product Line Manager Drill Bits - Baker Hughes)

17:30 – 18:00 Discussion and closure.
Petroleum geomechanics has become an important discipline amongst professionals working in the oil and gas industry.

Many conferences in rock mechanics these days offer technical sessions fully dedicated to the applications of geomechanics to solve common as well as unusual problems when developing oil and gas fields. In consonance with this fact, The International Society for Rock Mechanics (ISRM) and The American Rock Mechanics Association (ARMA) are promoting the subject of petroleum geomechanics amongst their members.

This Workshop is an initiative of the Petroleum Geomechanics Commission of the ISRM.