

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS



Third EAGE Workshop on Unconventional Resources

21-22 OCTOBER 2020 • BUENOS AIRES, ARGENTINA

- **First Announcement and call for abstracts**

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WORKSHOP OVERVIEW

Continuing with our successful previous events, EAGE is pleased to announce the organization of the Third EAGE Workshop in Unconventional Resources. This event will be held from 21-22 October 2020 in Buenos Aires City, Argentina.

The Exploration, Delineation and Development stages, in concordance with the investments in Unconventional Resources developments, have increased in the last decade. In Latin America the potential within this topic, which is in early stage of developments compare with others unconventional basins, currently is showing excellent results in production and has been widely recognized especially in Argentina, Mexico and Colombia due to the contribution, with its growth, to the total Oil & Gas production.

The Third EAGE Workshop in Unconventional Resources provides an opportunity to show the current and potential oil & gas projects in the region and is a great opportunity that doesn't only benefit the national companies but the international operators and service providers who also contributes and see potential in unconventional resources.

Who should Attend?

The Third EAGE Workshop in Unconventional Resources intends to offer new insights into understanding the specifics of the Latin American Unconventional market and provide first-hand experience from successful operators. This aims to bring together Oil & Gas industry Experts, Scientists, Professionals, Technicians, academia Researchers, economics and financials Heads, Independents Consultants and Governments Officials who are interested in Unconventional Resources Development.

This workshop targets Geoscientist such as Geologists, Geomechanics, Geophysicists, Petrophysics, Well Log Analyst as well as Reservoir, Drilling, Geosteering and Completion

Engineers, who lead positions as Managers, Financiers, Cost Control, Contracts and Procurements Leaders in NOC's, IOC's and Service Companies and want to take advantage of the latest state of the arts technologies, developments and operational best practice in Unconventional Resources in Latin America Market and its specific challenges for the future.

The workshop will offer an exciting knowledge sharing and discussion platform to provide an interactive and integrated learning environment with opportunities to network through panel discussions and technical presentations.

TOPICS

Please submit abstracts on the following topics:

1) Formation Evaluation and Characterization of Unconventional Reservoirs. Understanding Geological Risk and Uncertainties

- Key Drivers for Understanding Reservoir Quality
- New trends in Special Core Analysis and Core-Flood Testing.
- Nano pore rock Imaging, Digital Twins cores characterization approaches.
- Petrophysical and Reservoir Characterization (Rock and Reservoir Quality).
- New tools and applications for Characterization of Unconventional Reservoirs. Uses, application ranges and responses of a new set of logging tools to evaluate the key rock property parameters.
- Interactions and Compatibility in a Rock, Reservoir and Completion fluids system.
- Well Testing and Pressure Transient Analysis. DFIT and PIFBRT.

2) Integrated Geosciences and Reservoir Engineering approach to Explore, Appraisal and Development of Unconventional Reservoirs.

- Workflows designs for data capture, analysis and modelling.
- Geosciences approach as a tool for alternative forecasts for taking decisions.
- Source Rock Typing and Modeling, attributes for Production Fluids types predictions.
- Impacts of Seismic-data scale as input for an integrated Geological and Geomechanics Characterization.
- Integrated Geomechanics Modelling, a key factor in Unconventional Reservoirs.
- Understanding of Frac Hits. Weak interfaces and Discrete Fractures Networks (DFN).
- SRV-SPV Characterization using Microseismic attributes.





- Pore Pressure Modelling and forecasting.
- Rock Effort characterization in Choke Management strategy to improve well productivity.
- Rocks and Fluids characterization using NMR.
- Production Forecast and EUR estimations.

3) Drilling and Completion Strategies to maximize EUR in Unconventional Developments.

- Drilling trajectory strategy using Geomechanics parameters. Operational density windows.
- Landing point and trajectory, key parameters to follow the drilling plan. Geosteering.
- Well spacing considering SRV and SPV interference.
- Impact of hydraulic fracturing design in the SRV-SPV generation.
- Evolution of fracture geometry according the Choke Management strategy. Peak production vs. EUR?
- Infill Drilling, challenges to improve a drainage area in unconventional fields. Father, Child and Sibling wells interactions.
- Hydraulics Refracturing jobs in depleted wells, it must be considered as an option before initial field development?

4) Enhance Oil and Gas Recovery in Unconventional Reservoirs.

- Gas Injection, best strategy to improve EUR?
- EGR using CO₂, advantages as a fracture fluid and enhance fluids. Supercritical State. Miscibility, Flow and Phase Behavior of Reservoir Fluids.
- Combustible Gas Injection, Huff & Puff cycles. Soaking time.
- Alcohol and Nano-surfactants agents as EOR fluids. Strategy and Researches.
- Facilities and Equipment for EOR treatments in high pressure Unconventional Reservoir.
- Case Studies in EOR/EGR Pilots.

5) Machine Learning and Big Data. A new approach to improve the value of data for taking decisions.

- Planning data capture as input for machine learning process.
- Use of data mining and data analytics as a tool to identify key variables to improve well production and EUR.
- Key Performance Index, forecast and postmortem analysis using Big Data technics.
- Digital Oil Field. Downhole and surface data gathering in a novel interface in order to take operational decisions in Real Time. Workflow and data integration.
- Case studies.

6) Novel approach in Materials and Equipment to improve Unconventional Developments.

- Novel Fracturing Fluids to improve proppant carrying in micro and nano pore rocks.
- Proppants agents as vehicles for slow release. Fracture geometry characterization in near wellbore.
- Plug and perf completions, saving money using degradable plugs.
- Digital Rock, a new approach to create a Core digital twin.
- Improvements in Fracture Geometry simulation with a customized finite element development.
- Case studies and Labs conclusions and constrains.

7) Key Factors for Investments in Unconventional Reservoirs considering environmental and social implications.

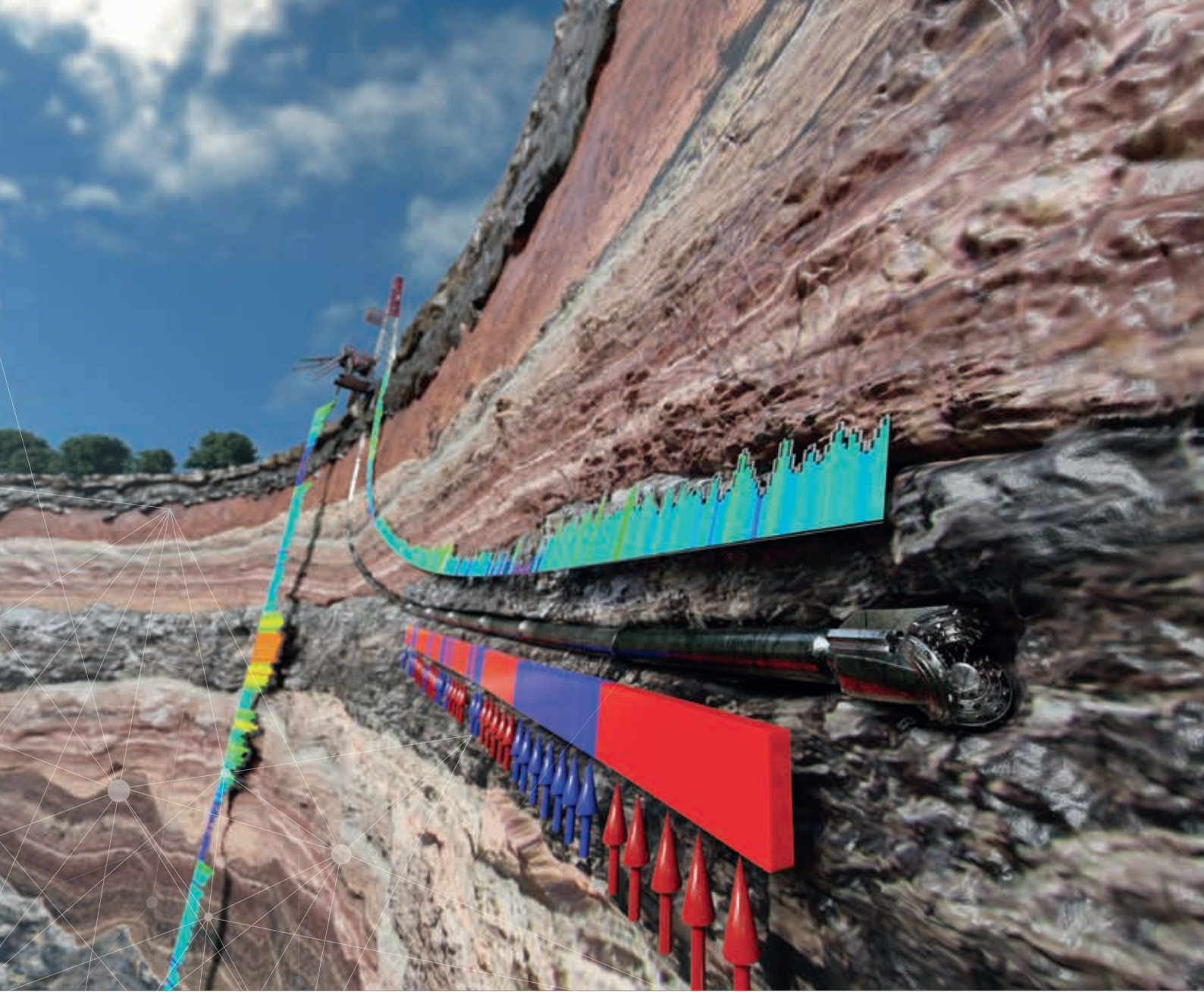
- The challenge to increment Water recycling as hydraulic fluid.
- Unconventional Hydrocarbons developments, a new Energy source for self-supply? Legal frame and Regulations.
- Unconventional Players Benchmarking, best practice to improve asset value. The treadmill challenge to optimize Development Cost.
- Social investments in Communities near unconventional developments.
- Unconventional Hydrocarbons, time evolution of its contribution in countries' energy matrix.

SPONSORING

EAGE offers excellent sponsoring opportunities to create high visibility for companies and institutions and are available to suit all budgets. Please visit our website for further details. To contact us via americas@eage.org. 57 1 4232948

HOW TO REGISTER

We recommend that you register via the online registration form on the EAGE event website (<https://eage.eventsair.com/unconventional-resources-argentina/registration->) For more information please contact the Bogota office.



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