

Who should attend

This Workshop will be of interest for the specialists of the following areas:

- › Production Technologies
- › Modelling
- › Drilling
- › Exploration etc.

Present your paper

Submit your proposal before 5 February 2019.

Send your abstracts to Antonina Kozmina at akozmina@spe.org.

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Register Today! Registration Deadline is 19 February 2019



Although the application of geomechanics in the oil and gas industry is relatively new, it has become a fast-growing area.

Starting with hydraulic fracturing and drilling operations improvements, it has spread to almost all parts of E&P and become even more important for reserves estimation and field development.

Still, some geomechanics related issues have always been on the margins of the industry. Geomechanics is playing and will play in the future fundamental role in maintaining and increasing existing hydrocarbons production.

The first SPE Workshop on geomechanics took place in Russia in 2017. The workshop gathered key experts from both operating and service companies.

This year workshop will cover fundamental studies, core studies, including a digital core; we will pay attention to new trends in geomechanical modelling; geomechanics application in E&P: from reservoir characterization to field development, oil recovery improvement, drilling and completion.

Programme Committee

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Who we are

SPE is the largest individual member organization serving managers, engineers, scientists and other professionals worldwide in the upstream segment of the oil and gas industry.



Session 1. Core Analysis in Geomechanics

1. Laboratory studies for geomechanical processes modeling

- New research methods for static stress-strain properties of different types of sedimentary rocks and standardization issues
- New approaches to core sampling and core test incoherent and fractured rocks
- Bio constant determination – problematics and achievements in the industry
- Parameter determination for nonlinear criteria of core-sample rock dissociation
- Dynamic studies – change in stress-strain properties and shape over time
- Saturation effect impact study on stress-strain rock properties
- Anisotropic elastic properties: core-derived comparing to full-wave sonic logging
- Destruction criterion selection and methods to minimize computation uncertainties

2. Digital core – advantages and limitations, case studies for geomechanics

- Advance development in research digitalization, scalability of technology in Russia
- Researches on a "simple-to-complex" basis, correlation with traditional approaches

Session 2. New Trends in Geomechanical Modeling

- Routine automation: pilot projects, best practices
- Failure criterion selection and ways to minimize computation uncertainties
- Workflow adaptation to model hole stability under complex geology
- Stress regime: modeling methods and verification
- New trends in applied results of geomechanical modeling
- Issues and approaches to coupled modeling for well operations and field development optimization
- Implementation prospects of 4D geomechanical modeling results at design stage
- Cloud computing capabilities to create full-scale geomechanical model
- Integrated projects and geomechanics implementation to operating process
- Machine learning and big data in geomechanics

Session 3. Fundamental Studies

- Coupled solution of poroelastic task and filtration
- Correlation of different-scale researches: issues and best practices
- Downscaling
- Fracture models
- Mathematical modeling of geomechanical phenomena: new approaches/ methods
- Fundamental studies: applied significance

Session 4. Geomechanics for Field Development. Adjustment and Verification of Geomechanical Modeling Results

- Deep perforation tunnel application in carbonate and terrigenous reservoirs
- Refrac: case studies and new technologies
- Waterflood Induced Fractures
- 3D simulator for hydraulic fractures modeling: case study
- Sand management and development strategy for semi consolidated reservoirs
- Microseismic investigations for fracture propagation control
- Natural fracture networks
- Geomechanics as a tool to analyze decline in production
- Frac Hits

POSTER SESSION

SPE will hold a poster session during the Workshop. The posters will give you further opportunities to share your ideas and technologies with the audience. The programme committee encourages attendance from those who can effectively either in discussions.

If you wish to participate in the Poster Session please contact Antonina Kozmina at akozmina@spe.org.

2019 SPE Regional Events List*

SPE Workshop: Oilfield Geomechanics
26 - 27 February 2019 | Saint-Petersburg

SPE Workshop: Field Development Project
27-28 March 2019 | Moscow

SPE Workshop: Enhanced Oil Recovery
23-24 April 2019 | Surgut

SPE Workshop: Health, Safety and Environment
23 May 2019

FREE Participation

SPE Workshop: Caspian Offshore Field
Development
4-6 June 2019 | Astrakhan

TSPE Workshop: Next Generation of Drilling
17-19 September 2019 | Sochi

SPE Russian Petroleum Technology Conference
22-24 October 2019 | Moscow
**Submit Your Paper Proposal before 11 March
2019. Contact russianoilandgas@spe.org**

SPE Workshop: Mature Fields Development
27-28 November 2019 | Tyumen

**Please note that SPE reserve the right to alter the prices and the dates. The exact dates and prices are available on request 2 months before the event.*

Registration

Participation Rates, with VAT

SPE Member	45 600 RUB
SPE Nonmember	49 200 RUB

Contact Information

For more information please contact Ulyana Dmitrieva at udmitrieva@spe.org.

Detailed information is available at go.spe.org/19ams1-en

General Information

Abstracts Submission

To participate please send your abstract to Antonina Kozmina at akozmina@spe.org before 5 February 2019.

Abstracts Requirements

The following information is required for each abstract::

- Title in Russian and English languages
- Session name
- Name of the author and the company they are representing
- Name of the co-authors and the company they are representing
- Contact details, including phone number, address, e-mail address

The abstract should consist of 350 – 400 words, including the short description of:

- the paper's aim
- the novelty
- possible ways of application
- technologies
- main results and conclusions

Your abstract will be reviewed by the programme committee to consider its acceptance for the Workshop programme.

Proceedings

Proceedings will not be published; therefore, formal papers and handouts are not expected from speakers. The presentations will be available only to Workshop participants.

Commercialism

Commercialism in posters or presentations will not be permitted. Companies' logos must be placed only at the title presentation slide.

Sponsorship Opportunities

SPE is non-for-profit association and sponsorship support allows SPE to keep the attendance price within reach of operations-level individuals, those who benefit most from these technical workshops. While SPE prohibits any type of commercialism within the conference hall itself, the society recognizes that sponsoring companies offer valuable information to attendees outside the technical sessions.

Sponsorship Benefits

In addition to onsite recognition; SPE will recognise sponsors on the SPE website and in all printed material for the workshop. Based on the sponsorship selected, sponsoring companies also receive logo visibility on promotional workshop items.

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For more information regarding sponsorship support please contact Antonina Kozmina akozmina@spe.org.