

## Topics for discussion

This year we will separately focus on the stages associated with these processes:

- › selection and study of reservoir fluids
- › selection of agents for formation stimulation
- › evaluation of stimulation efficiency under laboratory conditions and in-situ
- › monitoring and control of formation stimulation

## Present your paper

Submit your topic before 8 April 2019.

Send your abstract proposals to Antonina Kozmina at: [akozmina@spe.org](mailto:akozmina@spe.org).

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## Register before 16 April 2019



The SPE Workshop: Enhanced Oil Recovery takes place in Russia for the third time. This year, the programme committee decided to consider EOR methods based on reservoir structure and properties. This workshop will focus on methods aimed at increasing oil recovery rate by increasing the displacement ratio.

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Application of EOR methods to improve development efficiency of low productivity reservoir, high water-cut oilfields and fractured reservoirs in the current situation with low oil prices is a serious technological challenge and requires the most advanced approaches to its planning, implementation and monitoring.

Participants will have an opportunity to share their own experience and discuss existing methods of oil recovery enhancement. The workshop will cover main EOR methods, including thermal, gas, chemical and combined methods of formation stimulation, and new technologies in the field of tertiary methods.

Methods of enhanced oil recovery relate to multidisciplinary, multidimensional and multi-scale processes.

## 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. Brownfields

- Selection and feasibility study of EOR methods for brownfields;
- EOR methods for brownfields: efficiency assessment
- Implementation planning, monitoring and control
- Injection of associated hydrocarbon gas in miscibility mode
- High-pressure air injection (HPAI) in low-permeability reservoir
- EOR application: risk assessment and development parameters forecast
- Is physical and chemical method the main method for remaining oil recovery from depleted and watered reservoirs, are there any alternatives?

## Session 2. Reservoir of Complex Structure

This session focuses on the reservoir of complex pore structure characterized by heterogeneities of a different scale: carbonates with different types of vorticity (including oil-bearing basement), active fault tectonics fields, oil and gas shale, oil source bed, etc.

- Challenges and new approaches to laboratory research (determination of permeability and porosity for fractured reservoirs, analysis of wettability, analysis of pore volume structure, including digital core, etc.)
- Use of seismic data to predict properties of the geological section
- Integration of static and dynamic data: well logging in the open and cased trunk, sedimentological and diagenetic models, geomechanics, well testing, normal operation data
- Development planning - primary and secondary methods (optimal completion of wells, system organization for formation-pressure maintenance, etc.)
- Enhanced oil recovery methods

## Session 3. Heavy Oil

The session covers EOR methods specific for heavy oil fields, deserving sufficient potential for implementation. This type of reserves, like no other, needs recovery efficiency improvement through EOR, including:

- In-situ combustion, wet in-situ combustion
- Thermal enhanced oil recovery: steam and gravity drainage (SAGD), cyclic steam flooding (CSS), hot water injection
- Technological monitoring over steam injection and hot water injection
- Steam injection with catalysts/solvents
- Steam injection with catalysts/solvents: express estimation of economic efficiency
- Steam injection with flue gases (steam-gas formation stimulation method)
- Surfactant-steam injection
- Flow-diverting technologies under thermal EOR methods (foam injection etc.)
- Water shut-off technologies under thermal EOR methods
- EOS package with asphaltene gradients and representative real-time sampling to assess "cold" and "hot" extraction.

## Session 4. Volatile Oil and Gas Condensates

This session is devoted to gas and oil rims, oil and gas condensates, light and volatile oils. We will address the following questions:

- Identification criteria for formation fluid type (oil, gas condensate, oil + gascap)
- Optimal approaches to reservoir-pressure maintenance (displacing agent, a start time of treatment, injection modes)
- Efficiency assessment of EOR methods
- Approaches to the sampling of fluids, appropriate complex of PVT and filtration tests, specialized studies (slim tube). Specifics of laboratory experiments for fluid properties and EOR technologies (near-critical fluids, miscible displacement, determination of oil-gas relative permeability under conditions close to miscibility)
- Near-critical fluids: PVT properties simulation (optimal types of equations of state, vertical and lateral gradients of fluid properties)
- Monitoring of reservoir development taking into account the alterations of formation fluid phase state (application on EOR fields)
- Gas EOR methods for a reservoir with a complex phase composition (injection into gascap, mixing displacement using hydrocarbon and non-hydrocarbon gases, cycling-process)
- Gas shutoff/ fluid movement profile technologies for deposits with gascap

## 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](mailto:akozmina@spe.org).

## 2019 Regional SPE Events List

### SPE Workshop: Enhanced Oil Recovery

23–24 April 2019 | Moscow

Registration and Submission are Open

### SPE Workshop: Health, Safety and Environment

23 May 2019 | Moscow

FREE PARTICIPATION

Registration and Submission are Open

### SPE Workshop: SPE Workshop: Next Generation of Drilling

4–6 June 2019 | Sochi

### SPE Workshop: Offshore Field Development

17–19 September 2019 | TBC

### SPE Annual Caspian Technical Conference

16–18 October 2019 | Baku, Azerbaijan

### SPE Russian Petroleum Technology Conference

22–24 October 2019 | Moscow

For details contact [russianoilandgas@spe.org](mailto:russianoilandgas@spe.org)

Registration Opens in May 2019

### SPE Workshop: Mature Fields Development

28–29 November 2019 | Tyumen

## Registration

### Rates (including VAT)

SPE Members 45,600 RUB

SPE Nonmembers 49,200 RUB

### Contact Information

All registration questions and queries please address to Ulyana Dmitrieva at

[udmitrieva@spe.org](mailto:udmitrieva@spe.org) and Irina Merkul at [imerkul@spe.org](mailto:imerkul@spe.org); Tel.: +7(495)268-04-54.

Learn more at [go.spe.org/19ams4-en](http://go.spe.org/19ams4-en).

## General Information

### Abstracts Submission

Please submit your abstract to Antonina Kozmina at [akozmina@spe.org](mailto:akozmina@spe.org) before 8 April 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 author 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 Program.

### 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

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### Detailed Information

For more information regarding sponsorship support please contact Antonina Kozmina [akozmina@spe.org](mailto:akozmina@spe.org).