

# HYDRAULIC FRACTURING IN RUSSIA: EXPERIENCE AND PERSPECTIVES

**SEPTEMBER 25-27, 2018**

**KALININGRAD, RUSSIA  
HOTEL RADISSON BLU  
POBEDY SQUARE, 10**

The first SPE hydraulic fracturing workshop was successfully held in Russia in 2010 and since then it is run biennially.

This year we invite you to attend the 5th SPE workshop on hydraulic fracturing in Russia to discuss new technologies, experience and issues after previous workshop in 2016.

This year programme committee suggests the following topics:

- 1. New methodology in hydrofracturing: Design, Technologies, Approaches**
- 2. Multistage hydraulic fracturing in Russia: from pilots to integrated projects**
- 3. Multistage refrac: best practices vs implementation issues**
- 4. Hydraulic fracturing in extreme environments**
- 5. Hydraulic fracturing and related projects**

## PROGRAMME COMMITTEE

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Society of Petroleum Engineers

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**REGISTRATION DEADLINE: SEPTEMBER 7, 2018**

## **Session 1. New methodology in hydraulic fracturing: Design, Technologies, Approaches**

- Multistage HF Technologies: evolution vs perspectives
- Software: modern simulator vs perspective technologies.
- Cross disciplinary integrated methods in design and HF implementation
- Foam, nitrogen, hybrid frac and gelled acid
- Geomechanics
- Sector modeling
- Lab tests to optimize fluid type (new research, new reagents)

## **Session 2. Multistage hydraulic fracturing in Russia: from pilots to integrated projects**

⇒ *Import phase-out, technics- and technology-wise*

- Hydraulic fracturing simulators and software
- Multistage hydraulic fracturing completion elements: case studies, field test results
- Ultra lightweight proppants, new chemicals and fluids: application, case studies, results

⇒ *Integrated projects: geological model, geomechanics, hydraulic fracturing and field development optimization*

- Applied geomechanics: core test and correlation of rock mechanical properties and well logging
- Geomechanics and 3D geomechanical models with discrete fracture grid
- Hydraulic fracturing and multistage hydraulic fracturing production models: from analytical, semianalytic to numerical
- Field development by grid of horizontal and directional wells with Multistage hydraulic fracturing
- Integrated models:
  - Building and transfer of synthetic well logging from geomodel to hydraulic fracturing simulator
  - Well logging interpreting in the context of geomechanical data: lithotype allocation
  - Transfer of fracture parameters to hydrodynamic models minimum loss on fracture wings

⇒ *Economics - Hydraulic fracturing cost optimization in Russia and abroad*

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⇒ *Design: Fracture growth direction, number of stages – theoretical justification and case studies*

- Development drilling planning: strategy, costs, opportunities
- Downhole drilling system: compromise between where to drill and how to place a surface hole for the well
- Who is the champion: number of stages, the mass of proppant, and complexity of well construction. Do records worth the cost?
- New technologies of multistage HF or time proved decisions

⇒ *Exploitation of wells with multistage HF*

- How to estimate the effect – by well or by stages? Efficiency of multistage HF: technologies, methods and results
- Problems and solutions of multistage HF well exploitation

## **Session 3. Multistage refrac: best practices vs implementation issues**

- Refracturing technologies: specifics, uncertainties, justification, risks
- Multiport or multistage HF without arrangements?
- From potential assessment to production measurement after multistage refrac

## **Session 4. Hydraulic fracturing in extreme environments:**

- High pressure, high stress and tectonic environments
- Harsh, corrosive and high temperature environments
- Carbonates: efficiency and the available technologies
- Hydrofracturing and multistage frac in gas/gas condensate reservoirs: approaches, techniques and efficiencies
- Acid and acid-proppant Hydraulic fracturing operations
- Hydraulic fracturing in downsized, slim or monobore wells
- Fracture geometry optimization and characterization
- Hydraulic fracturing for hard-to-recover reserves

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## **Session 5. Hydraulic fracturing and related projects**

- Completion assembly: new solutions, and case studies and best practices of existing solutions
  - Geomechanics: core, well logging, correlations, 1D and 3D-geomechanical models. Schedule a fracture or fracture grid with no regard to technologic aspects of fracturing
  - Modeling data: synthetic well logging, uncertainties analysis, well logging and geomechanics: compatibility modeling as input for hydraulic fracturing (specificity of such models)
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- Fracture parameters and direction determination: microseismic monitoring, long-spaced acoustic log and tracer proppant, tracer fluid injection
  - Dynamic well test, well logging, flow profile for multistage hydraulic fracturing
  - Production rate after hydraulic fracturing. History matching for semianalytic and numerical models
  - Hydraulic fracturing and multistage hydraulic fracturing wells in 3D-hydrodynamic models, development and models adaptation
  - «Back coupling»: development → hydraulic fracturing optimization
  - Solutions of understaffing in the industry

### **POSTER SESSION**

In addition to the main Technical Sessions the Program Committee is interested in organizing of Poster Session. Posters will give the participants additional opportunities to share their ideas and technologies. To get more information and to participate in Poster Session you can contact Antonina Kozmina at [akozmina@spe.org](mailto:akozmina@spe.org).



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## Programme information

Detailed information on  
Workshop Programme will be  
posted on SPE regional web-site:  
<http://rca.spe.org/>

And general SPE web-site: <http://www.spe.org/>

## Workshop participants

The number of attendees should-  
n't exceed 100 oil and gas  
specialists

## Dress Code

**Casual clothing is recommended,  
The Workshop atmosphere is  
Informal**

## Attendance Certificate

All attendees will receive a  
certificate from SPE attesting to  
their participation in the  
workshop

**REGISTRATION DEADLINE: SEPTEMBER 7, 2018**

## INFORMATION FOR PRESENTERS

If you are interested to be a speaker at the workshop,  
please send your presentation abstract (2-3 paragraphs  
with description of nature and scope of work, possible  
applications and summary of results or technical  
contributions) to Antonina Kozmina at [akozmina@spe.org](mailto:akozmina@spe.org)  
before **August 10, 2018**.

Your abstract will be reviewed by the Programme  
Committee to consider its acceptance for the Workshop  
Program.

The following information is required for each abstract:

- Participant's name, Company name;
- Contact details- phone number, address, e-mail address;
- Session's title;
- Title of your presentation

## CONFERENCE REPORT

Presentation materials will not be published, therefore formal papers and handouts are not expected from speakers. PowerPoint presentations will be posted on a specific SPE URL address after the Workshop and be available for workshop attendees only.

The Committee will prepare a full report containing the highlights of the Workshop description. This report will be circulated to all attendees. The copyright of the summary report will belong to SPE.



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## COMMERCIALISM

In keeping with Workshop objectives and the SPE mission, excessive commercialism in posters or presentations will not be permitted. Company logo must be limited to the poster slide and used only to indicate the affiliation of the presenter and others involved in the work.

## SPONSORSHIP SUPPORT

Sponsorship support helps offset the cost of producing workshops and allows SPE to keep the attendance price within reach of operations-level individuals, those who benefit most from these technical workshops. Sponsors benefit both directly and indirectly by having their names associated with a specific workshop. 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 CATEGORIES

**Sponsorship can be offered in the following categories:**

- **General Sponsorship – your organization can make a general contribution to the workshop costs and be identified on all promotional literature as a “General Workshop Sponsor”.**
- **Simultaneous Translation – the workshop will be simultaneously translated in English and Russian. This sponsorship covers the hire cost of the equipment and the translators;**
- **Workshop Coffee Breaks - there will be morning and afternoon coffee breaks on each day of the workshop. Exclusive sponsorship for one or all workshop coffee breaks;**
- **Workshop Lunches - there will be 2 workshop lunches during the event for all attendees. Exclusive sponsorship for one or all workshop lunches;**
- **Reception – sponsorship of Evening Reception for all Workshop participants.**
- **Audio-visual equipment— sponsorship of equipment (microphones, audio systems and projectors).**

**For more information regarding sponsorship support please contact Antonina Kozmina at [akozmina@spe.org](mailto:akozmina@spe.org) , tel. +7-495-284-04-54.**

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## REGISTRATION

According to SPE Policy Registration rates are the same for all participants, including presenters and Programme Committee Members.

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Should you have any questions about conference attendance and registration, please contact Ulyana Dmitrieva [udmitrieva@spe.org](mailto:udmitrieva@spe.org), +7 (495)268-04-54

Topic submission deadline: August 10, 2018

Registration deadline: September 7, 2018

## REGISTRATION RATES

Terms of participation	RUB, no VAT	VAT	RUB with VAT
SPE members non-residential	40,000.00	7,200.00	47,200.00
Non-SPE-members non-residential	44,000.00	7,380.00	51,920.00

**Looking forward to see you at the SPE Workshop!**

