

SPE/EAGE JOINT WORKSHOP

MODELING: BEST PRACTICES & INNOVATIVE APPROACHES

**MARCH 20 - 21, 2018
MOSCOW, RUSSIA**

**BORODINO HOTEL
RUSAKOVSKAYA 13**

**REGISTRATION DEADLINE: MARCH 12
TOPIC SUBMISSION DEADLINE: MARCH 6**

Modeling has always been a powerful tool of integration and data analysis, essential part of reservoir engineering. This year at the fifth workshop modeling are going to discuss:

- Hot topics in geological, hydrodynamic, geomechanical and integrated modeling;
- Impact of modeling on decision-making in operations;
- Uncertainty analysis and its capabilities to mitigate risks;
- Modeling and industry innovation: trends and prospects, new approaches and technologies

SESSION1: Improved approaches and technologies in modeling

SESSION 2: Role of modeling in decision-making

SESSION 3: Integrated modeling: from geology to economics

SESSION 4: Uncertainty analysis for risk mitigation

SESSION 5: Geomechanical modeling. Applicability, progress and trends

ROUND TABLE Future of modeling. Trends and prospects

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Session 1. Improved approaches and technologies in modeling

The main idea is to broaden our vision about approaches and technologies in modeling. This session will cover new take on separate modeling issues, global changes in modeling philosophy and specific approaches and technologies which could give an opportunity for model predictivity enhancement.

Change of paradigm, and technological leap in any industry, including modeling, can arise from those ideas and methods which were not considered as promising and reliable at early stages, especially by experts using conventional approaches. We suggest to consider in the session such a new methods and pay attention to their potential implementation.

Session 2. Role of modeling in decision-making

Our purpose is to discuss integration of E&P operations and modeling (including geological, hydrodynamic, geomechanical and integrated modeling). We are going to discuss:

- Modeling results in decision making: change of existing schemes for different time horizons, from development strategy to operating management
- Grow confidence in modeling for decision-making
- Business/production units needs requirements to technologies and modeling software
- Technologies use in decision-making: case studies, successful practices and bad experience, effects and lessons learned.

Session 3. Integrated modeling: from geology to economics

Integrated modeling has recently become a separate area in modeling, but it is growing fast and already in use in lots of projects. Main goal of integrated approach is efficiency increase of model object due to considering correlations of its components. Typically, integrated modeling is focused on oil and gas production systems and consider the components interaction, from formation to processing facilities

Each integrated modeling project can be taken as unique due to variety of objects and tasks to solve, so we expect wide audience to keen on. Session will cover the following topics:

- Integrated modeling case studies. Challenges and solutions;
- How to create a smooth workflow, using previously isolated stages as a single decision-making cycle;
- Tools and approaches;
- Implementation of integrated modeling into real business processes of operating companies;
- Live integrated models and their coupling with Digital Field systems



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Session 4. Uncertainty analysis for risk mitigation

This session is about current uncertainty analysis methods capabilities to assess risks in field development projects accurately and in timely manner. We will cover new tools, methods and algorithms appeared in work processes and software, such as input data preparation and analysis; necessity, requirements and criteria for proxy models' application.

We will also consider case studies applied uncertainty analysis algorithms and approaches.

Session 5. Geomechanical modeling. Applicability, progress and trends

Geomechanical modeling is a rapidly developing area of digital field modeling. It has gained broad recognition in the industry as a powerful tool to understand and simulate processes in reservoir from drilling and completion till well stimulation and development optimization. We are going to share and discuss best practices in geomechanical models' development and application, case studies of its implementation, new trends, achievements, pros and cons and issues.

This session will cover reports on fresh approaches to reservoir modeling, forecast of hydraulic fracturing and multistage hydraulic fracturing development parameters by wells, optimization in waterflood induced fractures etc. We will also review examples of geomechanical model integration in geologic model.

ROUND TABLE Future of modeling. Trends and prospects

Round table format intends open discussion about latest technologies, ideas of modeling which were implemented partially or not implemented yet, and the ideas come from other industries which may be used in modeling. Hot topics like machine learning, neural networks, big data analysis are welcome, as well as others suggested by workshop delegates.

POSTER SESSION

In addition to the main Technical Sessions the Programme 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



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INFORMATION FOR SPEAKERS

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 before March 6th. Your abstract will be reviewed by the Program 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

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

REGISTRATION AND PARTICIPATION

REGISTRATION DEADLINE: MARCH 12nd

According to SPE Policy the costs are the same for speakers, attendees and Programme Committee members

TERMS	COST, NO VAT	VAT	COST, VAT
SPE/EAGE MEMBERS NON-RESIDENTIAL	37,000.00	6,660.00	43,660.00
NON MEMBERS NON RESIDENTIAL	40,000.00	7,200.00	47,200.00

REGISTRATION AND PARTICIPATION

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