



Society of Petroleum Engineers



**Registration Deadline:
12 March 2014**

18-20 MARCH 2014 Г.

Leningradsky Prospect, 37, build.9

Moscow, Russia

“Aerostar” Hotel, “Petrovsky” Conference Hall

www.aerostar.ru

SPE/EAGE Joint Workshop «Synergy of Static and Dynamic Modeling»



More detailed information about Training Course on page 3 of this brochure

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Workshop Description

SPE/EAGE are jointly conducting the Workshop on this topic third time since 2010. Modeling of oil and gas fields plays a key role in reservoir description and in the understanding of the fluid flow in the reservoir. Nowadays, the hydrocarbon reserve estimation and development planning are carried out by constructing static and dynamic models. The modeling process includes several stages: geophysics, geology, petrophysics and reservoir engineering. Traditionally, each stage is performed sequentially with a linear knowledge transform between the various stages. This conveyor belt-like approach sometimes exhibits problems such as inconsistencies in the objectives, loose feedback loops, upscaling and ignoring of different modeling resolutions. This can result in inconsistent static and dynamic models that eventually affect the data credibility and, most importantly, the predictability of the model. Thus, the oil and gas industry needs to further improve integrating modeling processes by improving the process and selecting the appropriate strategy, as well as modifying the organizations involved and implementing the right approach to training.

Workshop Objectives and Deliverables

- Corporate Modeling Strategies: Views and Ideas
- Review of Existing Modeling Process and Maximization Approaches
- Modeling Synergy of Improved Organization, Training and Technologies: Views and Ideas
- Reservoir Modeling Overview and Model Appraisal: OIP Estimation and Field Development
- Recent Developments in Static and Dynamic Modeling
- Results presentation of the most interesting projects

<http://www.spe.org/events/14amsc/>

WORKSHOP TECHNICAL SESSIONS:

DAY 1

PLENARY SESSION: With the integration of all science and engineering workflows there is the necessity for extreme computing power. Latest achievement in hardware developments for the petrotechnical community will be presented and discussed.

SESSION 1: WORKFLOW INTEGRATION: This session will focus on lessons learnt and best practices in reservoir modeling related to integrated field studies that crosses seismic to simulation domains—with special emphasis on “closed-loop” reservoir management workflows incorporating dynamic data like production data, time-lapse seismic in static modelling. Presentations will cover experiences in both mature and green fields for clastic and carbonate reservoirs, unconventional developments, as well as field studies integrating reservoir-based geo-mechanics studies, advanced history matching workflow and real-time reservoir model update workflow.

SESSION 2: GAS AND GAS-CONDENSATE RESERVOIRS: With conventional gas reservoirs reaching maturity, Russian operators embark on the development of untouched gas condensate fields that are difficult to access and to produce. These reservoirs are generally exhibiting complex geological, poor formation quality and unsurmountable operational challenges due to the necessity of complex well-trajectories and over-pressured formations. Presentations in this session will cover the integration of geosciences and engineering to overcome those challenges in this high-risk environment.

POSTER SESSION: The poster session will allow participants an opportunity to present additional new ideas to those interested.

DAY 2

SESSION 3: OIL RESERVOIRS INTEGRATION: With the increased emphasis on operational integrity, we will also discuss challenges faced by integration and increased level of automation and the implication on sub-surface workflows. This will cover in particular the design and execution of intelligent operations such as real-time applications in drilling and production operations for green fields as well as mature assets.

SESSION 4: ARCTIC OIL AND GAS: One of the oil and gas industry’s, and in particular Russia, most talked about emerging frontiers is the Arctic region. International and national operators are in the process stage to assess the feasibility of producing from those highly challenging fields. This session will cover exploration and appraisal activities from the geoscience and engineering point of view that are the basis for the successful development.

SESSION 5: KNOWLEDGE TRANSFER: This session is dedicated on the efforts of operators to train and develop their experts in non-core disciplines to allow the understanding and communication within their sub-surface teams in order foster an integrated environment and to maximize their efficiency.

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 Victoria Rachinskaya at vrachinskaya@spe.org before **March 01, 2014**. 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

The preference will be given to presentations that precisely correspond to the above listed themes and demonstrate the most illustrative cases providing the combination of experience and innovations, application of traditional and advanced practices.

POSTER SESSION

In addition to the scheduled presentations, the Programme Committee will incorporate a poster presentation session within this Workshop. The poster session will allow participants an opportunity to present additional new ideas to those interested. The applicants willing to participate in the poster session shall contact Victoria Rachinskaya (SPE Moscow office) at vrachinskaya@spe.org to get the requirements for poster preparation and selection for the Workshop.

General Information

WHO SHOULD ATTEND:

- Logging Engineers
- Geologists
- Petrophysicists
- Reservoir Modeling Engineers
- Reservoir Engineers
- Field Development Planning Specialists

Programme Information

Detailed information on Workshop Programme will be posted on SPE web-site:

<http://www.spe.org/events/14amsc/>

and SPE Moscow section site:
<http://www.spe-moscow.org>

<http://www.spe.org/events/14amsc/>

**Registration Deadline:
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**TRAINING COURSE “GEOMODELING AND RESERVOIR
SIMULATION CHALLENGES”**

***Instructor—Gerard J. Massonnat,
Total international expert***

This one day course will give participants a multidisciplinary understanding and technical guidelines to build integrated reservoir models from seismic interpretation to fluid flow simulation.

Its purpose is to inform how to model the field behavior based on the representation of the key geological heterogeneities impacting the fluid flow and the production mechanisms implemented.

The collaborative and iterative work between reservoir engineers, geologists and geophysicists will be described during the synthesis and modeling stages.

Other topics include:

- knowledge transfer from the static & dynamic synthesis to the geological and dynamic modeling stages
- seismic constrain of the reservoir models (including attribute maps and 4D)
- identification of the main dynamic units and fluid flow directions early in the study process
- some basic knowledge on the evaluation of uncertainties in geosciences and reservoir study chains

This course will help you to develop a multidisciplinary knowledge and a better understanding of the workflow and interactions required to build robust and predictive reservoir models that will help you in the decision process (to plan & locate new wells, update field reserves and forecast hydrocarbon production).

Gerard J. Massonnat holds a Ph.D. in geology and hydrogeology. He is currently the international expert for Total in reservoir geology and geomodeling.

He conducts research in the stochastic modeling of geological features (sedimentary facies and fractures) driven by physical processes and dynamic behavior. Another side of his scientific interests concerns the upscaling of petrophysics for reservoir modeling.

<http://www.spe.org/events/14amsc/>



**Course
description**

**Why You Should
Attend**

Instructor

General Information

Attendance

Attendance will be limited to a maximum of 100 delegates with proven experience and/or knowledge of the subject areas being covered.

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

Attendance Certificate

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

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.

Dress code

Casual clothing is recommended. The Workshop atmosphere is informal

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”.

- 1) Audio-visual Equipment - this package covers the hire of the audio visual equipment including the microphones, sound system and data projection.
- 2) Simultaneous Translation – the workshop will be simultaneously translated in English and Russian. This sponsorship covers the hire cost of the equipment and the translators.
- 3) 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.
- 4) Workshop Lunches - there will be 3 workshop lunches during the event for all attendees. Exclusive sponsorship for one or all workshop lunches.
- 5) Reception – sponsorship of Evening Reception for all Workshop participants.

For more information regarding sponsorship support please contact **Victoria Rachinskaya** at vrachinskaya@spe.org, tel. +7-916-990-31-10

WORKSHOP REGISTRATION RATES

<i>Terms of workshop participation</i>	<i>RUB, no VAT</i>	<i>VAT</i>	<i>RUB with VAT</i>
<i>SPE/EAGE members-non-residential</i>	<i>36,000.00</i>	<i>6,480.00</i>	<i>42,480.00</i>
<i>Non-SPE/EAGE-members-non-residential</i>	<i>39,000.00</i>	<i>7,020.00</i>	<i>46,020.00</i>

Should you have any questions about conference attendance and registration, please contact SPE-Russia representatives Ulyana Dmitrieva (udmitrieva@spe.org) and Anna Shalupina (ashalupina@spe.org), tel. +7 495 268 04 54

For hotel booking please contact Reservation Department at Reservation@aerostar.ru, tel.: +7-495-988-31-30, +7-495-988-31-31