

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS



2020
*S*aint
Petersburg



9th International Geoscience Conference
Geosciences: Converting Knowledge into Resources

FIRST ANNOUNCEMENT

6-9 APRIL 2020 | SAINT PETERSBURG, RUSSIA
WWW.EAGE.ORG | WWW.EAGE.RU

Invitation to Saint Petersburg 2020



Dear Colleagues,

On behalf of the European Association of Geoscientists and Engineers, I invite you to take part in Saint-Petersburg 2020 'Geosciences: Converting Knowledge into Resources', the 9th International Geological and Geophysical Conference. In the spring of 2020, Russia's northern capital brings together more than 600 participants from all over the world to discuss the most topical issues in today's geology and geophysics. I am positive that together — with the leading experts in the field and the managers of the biggest Russian and international energy and oil & gas companies — we will be able to come up with a new vision of the future of geosciences and develop new practical approaches to the problems our industry is facing.

The topics to be discussed at the conference cover a wide range of issues referring to the key development trends of the world's geological and oil & gas industry such as industrial development of Arctica, application of modern technological and digital solutions for exploration and development activities. I am sure the issue of unconventional reservoirs and difficult hydrocarbons will become a subject of heated debates. And, of course, environmental problems won't be left behind.

In addition to scientific reports, the event's agenda will include plenty of discussions and round tables, which make EAGE events not only a platform for sharing the best practices and ideas, but a place where kindred souls meet and new business opportunities are created. In today's world where effective partnership has become the key factor of success, leaders of the industry have to do their best to extend openness and promote give-and-take relationship.

Alexey Vashkevich

*Chairman of International Advisory Committee
Director for Technology Development, Gazprom Neft*



Dear colleagues,

It is my pleasure to announce the 9th International Geological and Geophysical Conference “Saint Petersburg 2020 — Converting Knowledge into Resources”.

Traditionally, this conference is a good opportunity to refresh old acquaintances and make new contacts, and it gives you the chance to see what your colleagues from other companies are doing. We expect to be shown interesting case studies, new engineering solutions, and a variety of presentations on successfully tested technologies, but we also await proposals and new ideas of how we can make our own work more efficient and successful.

To reflect the latest tendencies in our industry, we have extended our list of topics and included a number of additional subjects, such as the re-evaluation of the remaining potential in producing regions, the classification of reserves and resources, experience with broad band seismic data, top and fault seal analysis and, especially, experiences with artificial intelligence and machine learning in the E&P industry. We hope this reflects the interests of our geoscience community and will attract a large number of professional and interesting talks and posters.

To tie in with the overwhelming response to the special student’s section at the EAGE conference in Tyumen 2019, we plan to hold a dedicated student programme in St. Petersburg as well. We invite you, young geoscientists and engineers to be, to test your thoughts and discuss the results of your projects with a broader audience.

On behalf of the Organizing Committee, I look forward to welcoming you to the marvellous Northern Capital of Russia in April 2020 to join us for a successful, interesting and entertaining conference.

Sabine Klarner

*International Steering Committee Chair
Technical Director, Klarenko LLC*



Committees

International Advisory Committee

| | |
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| Alexey Vashkevich Chairman | Director for Technology Development, Gazprom Neft |
| Alexander Afanasev | First Deputy General Director - Head of Production Department, Rosgeo |
| Alistair Bent | Vice President Exploration Russia, BP |
| Dmitry Bolotnik | Vice-President, Petrotrace |
| Kirill Chistyakov | Director of the Institute of Earth Sciences, Saint Petersburg State University, Vice-President of the Russian Geographical Society |
| Anatoly Dmitrievsky | Academician of the RAS/ Scientific Director, Oil and Gas Research Institute |
| Mars Khasanov | Director of Science, Gazprom Neft |
| Olaf Klarner | Executive director, Klarenco LLC |
| Alexander Lyandres | Managing Director SI and GC/ Center Manager, CGG Company |
| Francisco Pángaro | New Ventures Manager - Europe, Middle East, Africa & Russia at Repsol |
| Jan Paul | Chief Scientist and Technology Manager, OMV Russia Upstream GmbH |
| Michael Pöppelreiter | President, EAGE |
| Igor Shpurov | General Director, State Reserves Committee under the RF Ministry of Natural Resources |

International Steering Committee

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| Sabine Klarner Chair | Technical Director, Klarenco LLC |
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| Mustafa AlAli | General Director, Aramco Innovations, Moscow |
| Yuriy Ampilov | Professor, Moscow State University/ Chairman of the exploration geophysics section of RAS academic council on Earth physics |
| Alexander Arkhipov | Director, Geoshelf-Service Ltd. |
| Boris Belozerov | Head of digital technology in geology department, LLC «Gazpromneft STC» |
| Evgenia Bileva | Senior Reservoir Geologist, Total E&P Russie |
| Vladimir Cheverda | Head of Department of Numerical Methods in Geophysics, Institute of Petroleum Geology and Geophysics Siberian Branch RAS |
| Mikhail Denisov | R&D Director, GEOLAB |

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|-----------------------|----------------------------------------------------------------------------------------------------------|
| Sergey Gorbachev | Head of Exploration Department, RN-Shelf-Arctic LLC |
| Alexander Inozemtsev | Chief Expert, Paradigm Emerson Company |
| Igor Kerusov | Head of Seismic Research Center, LUKOIL-Engineering |
| Tatiana Kiryanova | Head of Geoscience Solutions Division, Ingenix group |
| Konstantin Kunin | Exploration Geophysics Manager, LUKOIL |
| Vladislav Kuznetsov | Deputy General Director for Science, NOVATEK Scientific and Technical Center |
| Svetlana Migunova | Associate Professor, Saint Petersburg Mining University |
| Alexander Mityukov | Deputy General Director of Geology, RN Exploration |
| Nazmul Haque Mondol | Associate Professor, University of Oslo/ Advisor, NGI |
| Dmitry Myasoedov | Chief Specialist, RN-Shelf-Arctic, LLC |
| Tatiana Olneva | Expert, Gazpromneft STC |
| Evgeny Petrov | Adviser, Federal Agency on Mineral Resources (Rosnedra) |
| Oleg Prischepa | General Director, All-Russia Petroleum Research Exploration Institute (VNIGRI) |
| Valery Ryzhkov | Head of Department of Exploration Geophysics, Gubkin Russian State University of Oil & Gas |
| Alexander Savitsky | Chief Geologist, Dalmorneftegeophysika JCS |
| Marina Seryakova | Team Lead New Ventures, Repsol E&P Eurasia |
| Tatyana Sokolova | Assistant Professor, Graduate School of Innovative Business, MSU/ Expert of Petrophysics, RN Exploration |
| Gulnara Vasilevskaya | Senior specialist, LUKOIL |
| Vyacheslav Vingalov | Head of Seismic Research Centre, LUKOIL-Engineering Tyumen Branch Office (KogalymNIPlneft) |
| Valentina Zhemchugova | Professor, Moscow State University |



About the event

The EAGE Saint Petersburg International Conference is the largest geoscience event in Russia. This event is organized in Saint Petersburg, Russia once every two years and offers a technical programme, short courses, company displays and an exciting student programme. In 2018, over 500 visitors (local and non-local) from more than 200 companies and 31 countries attended the event. Since 2003, the event has become a platform for geoscientists from all over the world to share experiences and ideas, establish partnerships and get up to speed on the latest technological advances, while enjoying the historical heart of Russia, the beautiful city of Saint Petersburg.

Important Dates

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| Call for Abstracts Deadline | 1 October 2019 |
| Confirmation to Authors | 10 December 2019 |
| Deadline Early Registration | 25 December 2019 |
| Deadline Regular Registration | 25 March 2020 |

About Saint Petersburg

Saint Petersburg is a modern metropolis in the classic style of Peter the Great, the famous Russian czar who started the modernization of Russia about 300 years ago. Saint Petersburg is one of the most actively developing regions in Russia. Located on the shore of the Baltic Sea, Saint Petersburg is contiguous with countries of the European Union. The city offers plenty of hotels, a beautiful and efficient metro system and a modern airport with good connections to the city center. Saint Petersburg is less than a three-hour flight from most European capitals. With its large geoscience community, excellent facilities and beautiful architecture, Saint Petersburg has become a recognized city for holding large-scale international events. The city is renowned for its hospitality, outstanding research institutes and universities.

The Venue

The Saint Petersburg Conference 2020 will be held at the congress center of the Park Inn by the Radisson Pulkovskaya hotel: Pobedy Square 1, St. Petersburg, Russia.

The venue is situated on the beautiful Moskovsky Avenue with easy access to downtown Saint Petersburg. The hotel's proximity to both the heart of the city and the city airport is ideal for business and leisure guests. A stroll from the hotel takes guests past beautiful historical facades, 19th century architectural monuments, cozy parks, shopping centres, restaurants and cinemas.

The conference will be accommodated in one of the largest state-of-the-art congress halls and conference rooms with free wireless high-speed internet access and high-quality conference facilities.

Technical Programme

The conference will cover virtually all significant areas of geosciences. The round tables and discussions will be organized during the event. Presentations will be made in both English and Russian with simultaneous translation.

Short Courses

Saint Petersburg 2020 will offer short courses. Please refer to our website for up-to-date information

Round table: Implementation and development of intelligent systems in exploration and production processes – new frontiers

The growing popularity of intellectual systems and automation solutions and the expected advantages of their implementation in exploration and field development have led to significant growth in the number of digital projects performed in petroleum companies. Despite the fact that most of them deal with well-known processes and big-data analysis, only a few reach the level where they have a significant impact on value creation. Most of them get stuck are the prototype stage and rarely become a part of an actual production system. As a result, the key stages of a field's life remain unknown due to the models' complexity and differences in their scaling.

The participants of the round table will share their experience in development, acquiring and implementation of modern digital tools, discuss the current problems and obstacles for their implementation and uncover the main trends that may, in mid-term, fundamentally change both exploration and field development by introducing machine learning and optimization tools.

You are welcome to submit your abstracts (Topic 5) and take part in the round table.

Call for Abstracts Deadline — 1 October 2019

We invite all geoscientists to contribute to the technical programme. The deadline to submit extended abstracts is 1 October 2019. Please refer to the event website www.eage.org for more information on the guidelines, the submission process and other relevant information.

The accepted extended abstracts will be available on EarthDoc, EAGE's online geoscience database (www.earthdoc.org). Conference extended abstracts will be sent to Scopus for indexing.

Topics

1 Regional, Thematic and Scientific Geological Research

- 1.1 Regional geology and hydrocarbon potential of sedimentary basins
- 1.2 Reevaluation of remaining potential in producing regions
- 1.3 Risk and uncertainty analysis & economic geology
- 1.4 Classification of reserves and resources
- 1.5 Informational and analytical support for exploration and production

2 Exploration of the Arctic Zone and Shelf

- 2.1 Arctic shelf – Technologies and development potential
- 2.2 Geohazard evaluation using geophysical methods
- 2.3 Development of arctic onshore areas
- 2.4 Environment protection

3 Case Studies in Exploration

- 3.1 Formation evaluation
- 3.2 Core and fluid analysis
- 3.3 Rock physics and geomechanics
- 3.4 Seismic exploration technologies
- 3.5 Seismic imaging
- 3.6 Geological interpretation of seismic & well data
- 3.7 Seismic attribute analysis, AVO and simultaneous seismic inversion
- 3.8 Spectral broadening of seismic data (acquisition, data processing, interpretation)
- 3.9 Fractured reservoir studies
- 3.10 Top and fault seal analysis
- 3.11 Near surface geophysics and geotechnical engineering
- 3.12 Nonseismic methods of exploration
- 3.13 AI and machine learning in E&P

4 Exploration & Production

- 4.1 Software and hardware solutions for oil and gas field modelling
- 4.2 Reservoir modelling
- 4.3 Planning and monitoring of deviated and horizontal wells
- 4.4 Field development, EOR, monitoring and production of hydrocarbons
- 4.5 Geomechanical modelling
- 4.6 Unconventional resources, prospects of development and features of exploration & production of HTR reserves
- 4.7 Microseismics and frac monitoring
- 4.8 Geological exploration while drilling
- 4.9 Exploration & production in depleted, small fields, low-yield and high watercut wells

5 Round table: Implementation and development of intelligent systems in exploration and production processes – new frontiers



Registration

All the speakers and participants have to register and pay for the participation in the event. For the speakers the registration early bird fee is applicable till 25 of March 2020. EAGE members have the discount for registration.

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| Deadline Early Registration | 25 December 2019 |
| Deadline Regular Registration | 25 March 2020 |

Information about the registration fees and on-line registration form are available on the www.eage.org

Travel Grants - PACE Travel Grant & Student Travel Grant

The PACE Travel Grant and Student Travel Grant programmes provide financial support for those who will be presenting at the conference and have limited financial possibilities to do so. For this event, there are both a PACE Travel Grant and a Student Travel Grant which are combined in one application process.

Applications are possible until 31 October 2019. Please refer to event website for details.



Company display and advertising possibilities

Company display, and commercial presentation of company services is a great opportunity to obtain the latest information on developments in the industry, expand your network and exchange ideas. We invite you to participate in the event programme with the special presentation or company display near the conference rooms. You will receive the great visibility before the event on the web sites and announcements and during the event among more than 500 experts and managers from all over the world.

Participation fee

| | Before 1 December 2019 | 1 December 2019 and after |
|----------------------------------------------------------------------|---------------------------|------------------------------|
| Company display: roll up + table (include 1 free registration) | 130 000 rub | 150 000 rub |
| Roll up | 70 000 rub | 90 000 rub |
| Commercial presentation (45 min) (include 1 free registration) | 115 000 rub | 130 000 rub |

Sponsoring Opportunities

We invite companies to support the event, geosciences and technology development by participating in an extensive sponsorship program. Sponsorship is perceived as a highly cost effective method. When you're a sponsor of EAGE Saint Petersburg 2020, you get high visibility in a qualitative and uncluttered environment that makes your message stand out.

Please refer to the Saint Petersburg 2020 website www.eage.org for all available advertising and sponsoring opportunities or contact us at spb2020@eage.org.

Social Programme

To complement the conference an icebreaker reception will be organized on 6 April. The beautiful city and the event organizers will make sure that the programme is an unforgettable experience and a perfect opportunity to meet colleagues and friends in an informal setting.

Student Programme

Saint Petersburg 2020 will feature an extensive student programme. Traditionally, the student programme comprises many remarkable events, focusing on obtaining new knowledge and exchanging ideas, including special student lectures, workshops as well as the EAGE Geo-Quiz – a friendly competition of university teams.

The programme is designed for Masters and PhD level university geoscience students of all disciplines who aspire to further develop their skills and knowledge and meet with representatives of their potential future employers and colleagues.

Travel grants will be available for students who meet specific requirements. Please refer to the EAGE website for information on how to apply and deadlines.

Contact

For more information please visit our website www.eage.org (English) or www.eage.ru (Russian), where you can also find the latest updates and downloadable versions of this announcement in both English and Russian. For any questions concerning Saint Petersburg 2020, please contact:

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