

**Dedicated**  
**to the 90<sup>th</sup> anniversary of birth of**  
**N.M. Rasskazov,**  
**to the 120<sup>th</sup> anniversary of birth of**  
**L.L. Khalfin,**  
**to a semicentury of scientific conferences in honor of academician M.A. Usov**



**Ministry of Education and Science of  
the Russian Federation**  
**National Research Tomsk Polytechnic University**  
**School of Earth Sciences and Engineering**

## **NEWSLETTER**

**XXVI INTERNATIONAL SCIENTIFIC SYMPOSIUM  
IN HONOR OF ACADEMICIAN  
M.A. USOV "PROBLEMS OF GEOLOGY  
AND SUBSURFACE DEVELOPMENT"**

**April 4 – 8, 2022**

**TOMSK, RUSSIA**

## **SYMPOSIUM SCHEDULE**

- April 3 – registration and accommodation
- April 4 – registration and opening
- April 5-7 – panels
- April 7 – symposium closing and awarding ceremony
- April 8 – departure

## **SYMPOSIUM PANELS**

**Panel 1.** PALEONTOLOGY, STRATIGRAPHY, AND REGIONAL GEOLOGY.

**Panel 2.** MINERALOGY, GEOCHEMISTRY, AND PETROGRAPHY

**Panel 3.** GEOLOGY AND GENESIS OF ORE DEPOSITS, MINERAGENY.

**Panel 4.** PETROLEUM GEOLOGY. CURRENT EXPLORATION AND EXTRACTION METHODS.

**Panel 5.** GEOPHYSICAL SURVEY OF THE EARTH. METHODS FOR MINERAL PROSPECTING.

**Panel 6.** HYDROGEOLOGY, ENGINEERING. GEOLOGY AND HYDROGEOECOLOGY.

**Panel 7.** LAND MANAGEMENT. STATE REAL ESTATE CADASTRE. ISSUES OF LAND AND PROPERTY REGULATIONS.

**Panel 8.** GEOECOLOGY AND ENVIRONMENTAL PROTECTION.

**Panel 9.** MODERN TECHNOLOGIES IN OIL AND GAS FIELD DEVELOPMENT.

**Panel 10.** ENERGY EFFICIENCY AND AUTOMATION SYSTEMS FOR OIL AND GAS FACILITIES.

**Panel 11.** CHEMICAL TECHNOLOGY OF PREPARATION AND PROCESSING OF HYDROCARBON RESOURCES.

**Panel 12.** INTEGRATED USE OF MINERAL RESOURCES.

**Panel 13.** MODERN WELL DRILLING TECHNOLOGIES.

**Panel 14.** MINING. ORE AND NON-METALLIC MINERALS DEVELOPMENT. EQUIPMENT AND MACHINERY.

**Panel 15.** MODERN OIL AND GAS STORAGE AND TRANSPORTATION TECHNOLOGIES.

**Panel 16.** MATHEMATICAL SIMULATION METHODS, FUNDAMENTAL AND NUMERICAL RESEARCH IN OIL AND GAS INDUSTRY

**Panel 17.** MINERAL AND HYDROCARBON RESOURCES ECONOMICS. NATURAL RESOURCES LAW.

**Panel 18.** GEOLOGY, MINING, AND PETROLEUM ENGINEERING (REPORTS IN ENGLISH AND GERMAN)

**Panel 18.1** TRANSDISCIPLINARITY IN ENGINEERING EDUCATION AND RESEARCH.

**Panel 19.** YOUNG RESEARCHERS IN THE EARTH SCIENCES (REPORTS OF SCHOOLCHILDREN).

**Usov** is held from 4<sup>rd</sup> till 8<sup>th</sup> April, 2022 at Institute of Natural Resources, Tomsk Polytechnic University.

National Research Tomsk Polytechnic University (TPU) was founded in 1896. This is the first university in Asian part of Russia, which has trained more than 150,000 specialists. In 2013 TPU was ranked among 15 best higher educational institutions of Russia. At present 22,800 students study at TPU in 87 qualified specialists' programmes, 26 bachelor's degree programmes and 104 master's degree programmes under supervision of 1,340 Ph.D. holders, 325 Professors, 22 Members of Russian Academy of Sciences, and 29 Honored Workers of Science and Technology. TPU includes 11 institutes, 99 departments, 17 science-educational centers, 65 science-research laboratories including 21 international ones, and research nuclear reactor. TPU was a fundamental base for 20 associated universities and research institutes in Russia.

School of Earth Sciences and Engineering (SESE) of Tomsk Polytechnic University celebrated its 100 anniversary in 2001. It was founded by V.A. Obruchev, the first geologist in Siberia, member of USSR Academy of Sciences, Hero of Socialist Labor, the first laureate of the Lenin Prize, twice laureate of the State Prize, Honorary President of USSR Geographic Society.

SESE is the first institute of geological education and geological science in Asian part of Russia. Mining investigations and studies done by V.A. Obruchev are still applied in exploration and development of mineral resources not only in Siberia, but also in the Far East, north-east of Russia, and Middle Asia.

There are outstanding scientists, engineers, and manufacturers among 35,000 SESE graduates: M.A. Usov was the first Siberian man who became an Academician and played a great role in the development of mining industry in Siberia; Academician K.I. Satpaev was the founder and the first President of Kazakh Academy of Sciences; Professor N.N. Urvantsev was the discoverer of Norilsk mining region; Professor M.K. Korovin was the first who studied oil-and-gas-bearing capacity of Western Siberia, and many other great scientists. More than 450 graduates became discoverers of mineral deposits, 50 the laureates of the Lenin and State Prizes, more than

250 D.Sc holders, 1,600 Ph.D. holders, 15 the associates of the Academy of Sciences, 5 Heroes of Socialist Labor.

Today SESE is a large educational (more than 2,600 full-time students) and scientific center in the sphere of geology and petroleum recovery which comprises 16 departments, 10 research and development centers and innovative educational centers, 24 scientific research laboratories. Among 357 institute staff members 7 are Academicians and Correspondent Members of Russian Academy of Sciences, 58 Professors, and 221 Ph.D. holders. Institute prepares D.Sc and Ph.D. holders in 33 scientific fields.

## CONFERENCE VENUE

TPU's lecture rooms are equipped with screen projection and computer units.

## PARTICIPATION REQUIREMENTS

Registration for the participation at symposium is only possible online:

<https://goo.gl/forms/FPNM5v0W69COqXV73>.

The registration deadline is 25th March 2022. Please be ready to submit the precise title of the report. The programme of the symposium will be compiled automatically.

The articles are submitted online not later than 25th March 2022

## EDITORIAL REQUIREMENTS

The article guidelines: *Windows Word* format (7.0 Version); font **Times New Roman Cyr**; size **9**; interval **1**; left and upper margins **30 mm**, right and lower margins **25 mm**; *pdf* copy with the author's and scientific supervisor's signatures is required.

**Maximum article size is two full A4 pages, including figures, tables and references.**

**Maximum number of authors per one paper is 3.** Avoid hyphenation. References in text should be of the following format: [1], specifying the number from the Reference section.

The Reference section is given at the end of the text according to GOST R 7.0.5-2008. Leave one line space between the text and the reference section. Place references in the alphabetic order according to the authors' names.

**The format requirements are available at**

<https://portal.tpu.ru/science/konf/usovma/requirements>

**Formatting:** Paper title (**Arial 10** in bold capital letters in the centre), next line is the author's initials and last name (**Arial 10** low-case) in interval 1; next line is the position, initials and last name of the scientific advisor in interval 1,5 (**Arial 10** bold italic); next line is the full name of the institution, city, country in interval 1,5 (**Arial 9** bold italic); next line is the paper text in interval 1,5. Avoid abbreviations.

**The Symposium provides the option of in-person or remote participation. In absentia participation is not available. Publications will follow. Proceedings of International Scientific Symposium "Problems of Geology and Subsurface Development" are included into the database: Russian Science Citation Index.**

**ATTENTION!** Competition for the best report will be held in the frames of XXVI International Scientific Symposium "Problems of Geology and Subsurface Development" within each panel.

## OTHER ACTIVITIES

### **Following tours will be available:**

Tomsk Polytechnic University and School of Earth Sciences and Engineering, including Mineralogical and Paleontological Museum, Memorial Museum of Academicians V.A. Obruchev and M.A. Usov.

### **Extra tours:**

Tomsk Polytechnic University History Museum, Training and Retraining Center for Petroleum Specialists, research labs of School of Earth Sciences and Engineering, Round-the-city tour and others. A gala evening will be organized for the participants of the Symposium, where the participants will be awarded with diploma for the best presented papers.

## ACCOMMODATION

TPU health centre will be provided (the number of rooms is limited). Accommodation rate at TPU Health centre - 600 rubles / night.

Participants who are planning to stay at the hotels are responsible for arranging their own hotel accommodation.

## LANGUAGE

Official languages of the symposium are Russian, English, and German. Simultaneous or consecutive interpretation is not provided.

## HOW TO GET TO TPU

Registration will take place at International Culture Center, Tomsk Polytechnic University (Tomsk, Usova Street, 13-B).

Bus route 119 from Airport to Tomsk Polytechnic University stop.

Trolleybus route 4, bus route 12, tram route 2 from Railway station to Tomsk Polytechnic University stop.

### **Organizing Committee Contact Information**

30, Lenin Avenue, Tomsk, 634050,  
Russia Tomsk Polytechnic University,  
School of Earth Sciences & Engineering  
Organization Department

Elena Yu. Pasechnik, leading expert;

Inna V. Pavlova, expert

Tel. for information: (3822) 60-63-91

e-mail of Organizing Committee: [tpuusovma@gmail.com](mailto:tpuusovma@gmail.com);

More detailed information you can get on TPU's website:

<https://portal.tpu.ru/science/konf/usovma/eng>

or in contact group VK <https://vk.com/event109390577>