

The XVI International Forum-Contest of Students and Young Researchers

TOPICAL ISSUES OF RATIONAL USE OF NATURAL RESOURCES

June 17 - 19, 2020

MYOUTH.SPMI.RU



2019 RETROSPECTIVE:

340 presentations

427 participants

90
universities
and companies

33 countries

The Forum will be held in a fundamentally new video conference format using the **Cisco WebEx**. The platform allows up to 3000 participants from anywhere in the world to make a live presentation, listeners – to ask both live questions and in text message format.





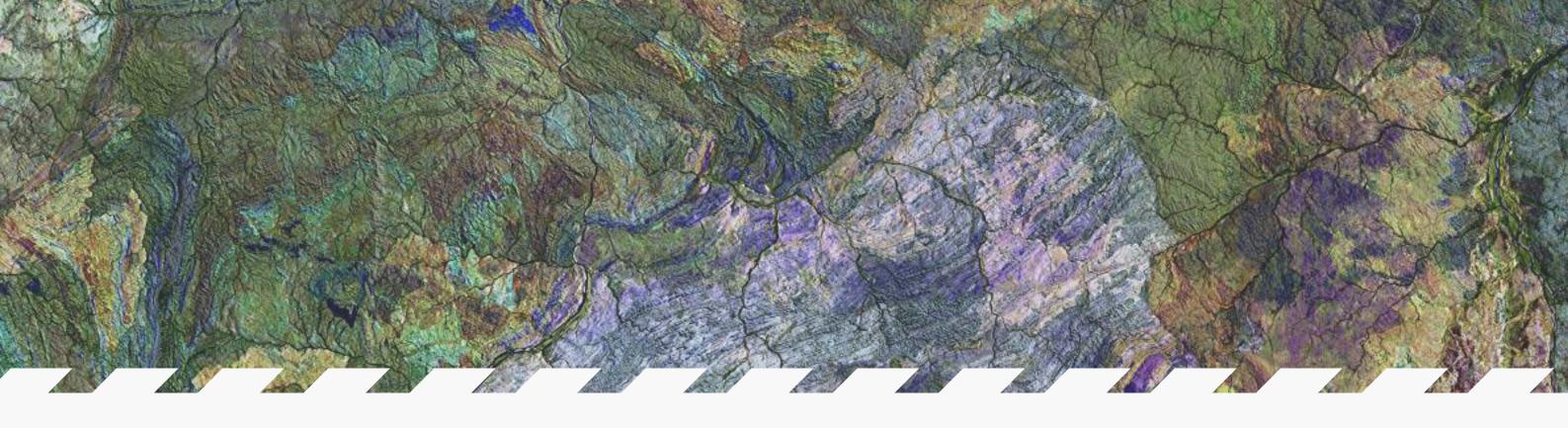
The participants will need a minimum set of equipment: a **computer** (**laptop**) with a camera and a microphone and Internet access. All participants will be provided with the necessary technical support and links to the videoconference.

Participation Terms

Graduate students, post-graduate students and young researchers up to 35 years of age without a PhD degree with a level of English proficiency not lower than B1-B2, whose study area or subjects of research correspond to the list of breakout sessions are invited to participate in the Forum-contest.

To participate in the Forum please register on <u>myouth.spmi.ru</u> and attach 1.5–2 pages abstracts in English by June 01, 2020.

The <u>winners</u> of the Forum-contest will receive a grant from the International Competence Centre for Mining-Engineering Education under the auspices of UNESCO for a short-term internship at one of the leading universities and companies of the mineral resources complex, as well as the possibility of publishing a full-text article after internal and external review, in a separate collection of CRS Press (Taylor & Francis Group, Netherlands).



BREAKOUT SESSIONS

- 1. New approaches to resolving oil & gas sector-specific issues.
- 2. Technologies of integrated processing of mineral raw materials with further production of new generation materials.
- 3. Geotechnologies of resource extraction: current challenges and prospects.
 - 3.1. Solid minerals mining technologies. Industrial and labor safety.
 - **3.2.** Underground and ground space development technologies. Rock mechanics and control of rock conditions
- 4. Geological mapping, exploration, and prospecting of mineral resources.
- 5. Economics of sustainability and global investment trends.
- 6. Information telecommunication technologies and digital transformation.
- 7. Equipment, vehicle maintenance and energy efficiency at the enterprises of the mineral resources sector.
 - 7.1. Innovations and prospects for the developments of mining mechanical engineering.
 - 7.2. Energy efficiency at the enterprise of the mineral resources sector.
- 8. Climatic changes, environmental activity, and principles of sustainable development in the mining facility.
 - 8.1. Sustainable development of regions and environmental safety.
 - **8.2.** Waste management utilization, water treatment, off-gas treatment and land reclamation.
- 9. Topical issues and contradictions of modern society development.
- 10. Current aspects of architectural and urban activities.

Creativity competition for students and graduate students in architecture and civil engineering in the following nominated categories:

- design of a public building;
- design of a multi-family house;
- design of a single-family house.