



TOPICAL ISSUES
2020 OF RATIONAL USE OF
NATURAL RESOURCES
June 17 - 19



United Nations
Educational, Scientific and
Cultural Organization



International Competence Centre
for Mining-Engineering Education
under the auspices of UNESCO



SAINT-PETERSBURG
MINING UNIVERSITY



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.



Webex Meetings



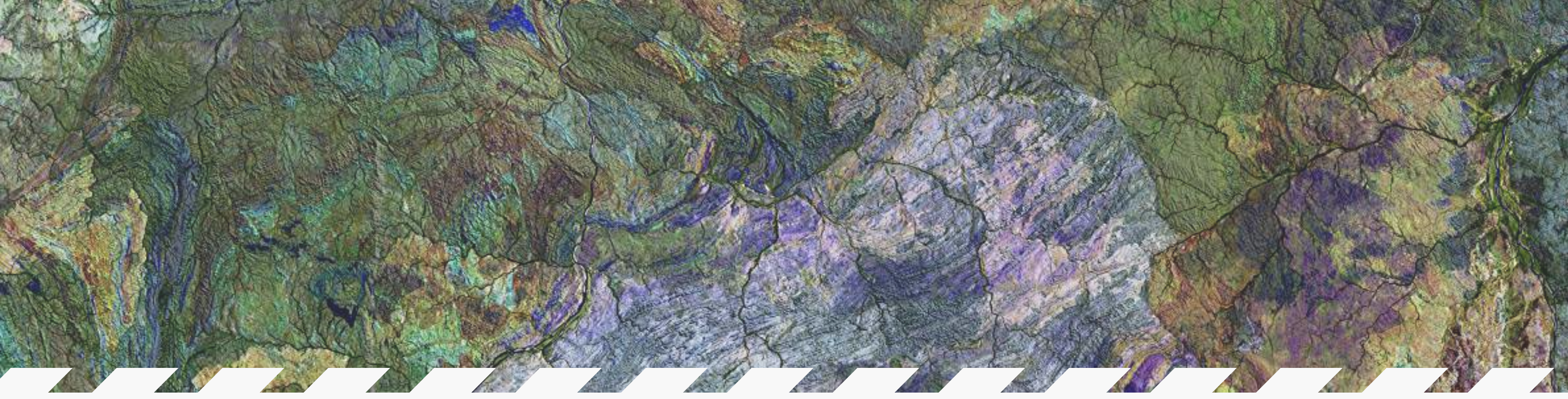
The participants will need a minimum set of equipment: a **computer (laptop)** with a camera and a microphone and Internet access. All participants will be provided with the necessary technical support and links to the videoconference.

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 myouth.spmi.ru and attach 1.5-2 pages abstracts in English by June 01, 2020.

The winners 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.