**Mining Institute of the Far Eastern Branch of the Russian Academy of Sciences**

**Mining Institute of the North of the Siberian Branch of the Russian Academy of Sciences**

**The Government of Khabarovsk Territory**

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**CONFERENCE PROGRAM**

**VIII International Scientific Conference**

**«PROBLEMS OF COMPLEX DEVELOPMENT OF GEORESOURCES»**

**September 8-10, 2020**

**Khabarovsk, Russia**

**VIII International Scientific Conference “Problems of Complex Development of Georesources” is held by Mining Institute of the Far Eastern Branch of the Russian Academy of Sciences in cooperation with the Mining Institute of the North, Siberian Branch, Russian Academy of Sciences and the Government of Khabarovsk Territory, and with the support of the JSC “Polymetal”, LLC “Goldregion”, artel “Vostok”, LLC “Niman”, and JSC “Far-Eastern Resources”**

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**Yakovlev V.L**. – corresponding member of the Russian Academy of Sciences (Mining Institute of the Ural branch RAS, Yekaterinburg, Russia)

**Conference Agenda**

**September 8, Tuesday**

**Conference Venue –** House of official receptions of the Government of Khabarovsk Territory (3 Shevchenko st., Khabarovsk)

**9:30a.m. – 10:00 a.m.** **−** Registration of conference participants.

**10:00 a.m. –11:30 a.m.** **−** Conference opening. Greetings. Plenary reports.

**11:30 a.m. – 12:00 p.m. –** Coffee-break.

**12:00 p.m.– 2:00 p.m.–** Plenary reports.

**2:00 p.m. – 3:00 p.m. –** Lunch.

**3:00 p.m.– 4:40 p.m.–** Plenary reports.

**4:40 p.m. – 4:45 p.m.–** Break.

**4:45 p.m.– 6:00 p.m.–** Plenary reports.

**6:00 p.m.** **– 8:00 p.m.** **−** Buffet dinner.

**September 9, Wednesday**

**Conference Venue:**

Section 1. “Geotechnical and geomechanical problems of development of mineral resources” **–** Great hall of House of official receptions of the Government of Khabarovsk Territory (2nd floor, 3 Shevchenko st., Khabarovsk)

Section 2. “Problems of complex processing of mineral raw materials and new technologies of mineral processing” - Small hall of House of official receptions of the Government of Khabarovsk Territory (1st floor, 3 Shevchenko st., Khabarovsk)

Section 3. “Strategic, geo-ecological and economic problems of subsurface use” –House of official receptions of the Government of Khabarovsk Territory, Room 13 (1st floor, 3 Shevchenko st., Khabarovsk)

Section 4. “Innovative technologies and methods for monitoring natural and mining systems”– House of official receptions of the Government of Khabarovsk Territory, Room 20 (1st floor, 3 Shevchenko st., Khabarovsk)

**10:00 a.m. –11:30 a.m.** **−** Breakout sessions

**11:30 a.m. – 11:40 a.m. –** Break.

**11:40 a.m. – 1:00 p.m. −** Breakout sessions.

**1:00 p.m. – 2:00 p.m. –** Lunch.

**2:00 p.m. − 4:00 p.m. –** Breakout sessions.

**4:00 p.m.– 4:30 p.m.–** Coffee-break.

**4:30 p.m.– 6:00 p.m.–** Breakout sessions.

**6:30 p.m. – 8:30 p.m. –** Sightseeing tour “Khabarovsk at night”

**September 10, Thursday**

**Conference Venue –** Small hall of House of official receptions of the Government of Khabarovsk Territory (1st floor, 3 Shevchenko st., Khabarovsk)

**10:00 a.m. – 12:30 p.m. –** Roundtable discussion. Conclusion of the Conference.

**1:00 p.m. – 6:00 p.m. –** Sightseeing tour «Belovodye» (a festive dinner and a tour to a male monastery included).

**Time-limits:**

Greeting – up to 10 minutes.

Plenary report – up to 20 minutes.

Report at a breakout session – up to 10 minutes.

**CONFERENCE PROGRAM**

**September 8, Tuesday**

**Conference Venue –** Great hall of House of official receptions of the Government of Khabarovsk Territory (2nd floor, 3 Shevchenko st., Khabarovsk)

*Moderators:*

***Rasskazov Igor,*** *corresponding member of the Russian Academy of Sciences, Chairman of the Organizing Committee, Scientific Supervisor of Mining Institute FEB RAS*

***Tkach Sergey****, Dr. of Engineering, Director of Mining Institute of the North of the Siberian Branch RAS*

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|  **930 a.m. – 1000 a.m.** | Registration of conference participants |
| **1000 a.m.– 1030 a.m.** | Conference opening. Greetings. |
| **1030 a.m. – 1050 a.m.** | ***Arthur Sekisov*** (Mining Institute FEB RAS) Prospects for using combined (traditional and physical-chemical) mining technologies in the development of large gold-copper ore deposits |
| **1050 a.m. – 1110 a.m.** | ***Igor Rasskazov*** (Mining Institute FEB RAS)Mining impacts and technogenic seismicity in the mines of the Far-Eastern Region |
| **1110 a.m.– 1130 a.m.** | ***Vladimir Alekseev*** (Mining Institute FEB RAS) Technologies and developments of Mining Institute of the Far Eastern Branch of the Russian Academy of Sciences in the field of development of alluvial deposits |
| **1130 a.m. – 1200 p.m.** | Coffee-break |
| **1200 p.m. – 1220 p.m.** | ***Sergey Tkach*** (Mining Institute of the North SB RAS)Technological, economic and social aspects of the provision of solid fuels to the Arctic regions of Yakutia |
| **1220 p.m.** **– 1240 p.m.** | ***Valentin Kravtsov* (**Khabarovsk Branch of State Commission on Mineral Reserves)Problems of mining technogenic gold deposits on the example of their development experience in Magadan Region |
| **1240 p.m.** **– 100 p.m.** | ***Evgeny Shevkun*** (Pacific National University)Special aspects of explosive loosening with minimal rock displacement  |
| **100 p.m.** **– 120 p.m.** | ***Adrian Batugin*** (National University of Science and Technology “MISIS”) Common features in the manifestation of strong mountain impacts and induced earthquakes |
| **120 p.m.** **– 140 p.m.** | ***Vasilina Tarabarova*** (LLC «Svetloye», Khabarovsk Subsidiary of JSC «Polymetal»)Experience in using “green” energy at the operating mines “Svetloye” |
| **140 p.m. – 200 p.m.** | ***Andrey Panzhin*** (Institute of Mining, Ural Branch RAS)Identification of geodynamic movements based on the results of geodetic monitoring measurements |
| **200 p.m.** **– 300 p.m.** | Lunch |
| **300 p.m. – 320 p.m.** | ***Vladimir Makarov*** (Far-Eastern Federal University)About the base problems of the geomechanics of strong compressed rock and rock masses |
| **320 p.m. – 340 p.m.** | ***Zhenlei Li*** (University of Science and Technology Beijing, China)A novel acoustic emission parameter for predicting rock failure during Brazilian test based on cepstrum analysis. |
| **340 p.m.** **– 400 p.m.** | ***Ren Ting*** (University of Wollongong, Australia) Numerical study on the fracture characteristics and failure mode of hard coal under coupled static and dynamic loads |
| **400 p.m. – 420 p.m.** | ***Anna Rasskazova*** (Mining Institute FEB RAS), *Paul Korpi* (the USA)Substantiation of the effective geotechnological parameters of activation heap leaching of gold from refractory ores |
| **420 p.m.** **– 440 p.m.** | ***Andrey Volkov*** (Mining Institute FEB RAS) Professional training system for the mining industry of the Khabarovsk Territory |
| **440 p.m. – 500 p.m.** | Break |
| **500 p.m. – 520 p.m.** | ***Tatiana Aleksandrova*** (Saint Petersburg Mining University), *Holger Lieberwirth* (Bergakademie Freiberg, Germany)Scientific substantiation and practical realization of selective comminution process of polymetallic mineral raw materials |
| **520 p.m. – 540 p.m.** | ***Liming*** ***Qiu*** (University of Science and Technology Beijing, China)Numerical simulation study on rheological failure characteristics of rock mass under high stress |
| **540 p.m.** **– 600 p.m.** | ***Aziz Naj*** (University of Wollongong, Australia)Static and dynamic testing of tendons  |

**September 9, Wednesday (10:00 a.m. – 6:00 p.m.)**

*Section 1.* **“Geotechnical and geomechanical problems of development of mineral resources”**

*Moderators:*

***Rasskazov Igor,*** *corresponding member of the Russian Academy of Sciences, Chairman of the Organizing Committee, Scientific Supervisor of Mining Institute FEB RAS*

***Tkach Sergey,*** *Dr. of Engineering, Director of Mining Institute of the North of the Siberian Branch RAS*

**10:00 a.m. – 1:00 p.m. −** Breakout sessions

1. **Viktor Kryukov,** Marina Potapchuk, Igor Rasskazov. Structural and geomechanical models of gold deposits in the Amur region (Russia) (Mining Institute FEB RAS, Khabarovsk)
2. **Iuliia Fedotova.** Investigation of the deformations character of the Rudny fault shores during the development of the Yuzhnoye Deposit, Primorsky Krai (Mining Institute FEB RAS, Khabarovsk)
3. **Ruslan Seryi**, Vladimir Alekseev. Estimation of operating costs and energy consumption in beneficiation of alluvial gold deposits (Mining Institute FEB RAS, Khabarovsk)
4. **Vitaly Taganov,** Kirill Gevalo, Ekaterina Alekseeva.Experimental research of gold migration influenced by cyclic flooding-drainage of rock mass (Mining Institute FEB RAS, Khabarovsk)
5. **Maxim Rasskazov,** Andrey Tereshkin, Denis Tsoi, Alexander Konstantinov, Vladimir Miroshnikov, Ilya Bagautdinov, Kamchibek Kozhogulov. Research of the formation of zones of stress concentration and dynamic manifestations based on seismoacoustic monitoring data in the fields of the Kola Peninsula (Mining Institute FEB RAS, Khabarovsk; Saint Petersburg Mining Institute, Saint Petersburg; Institute of Geomechanics and subsoil development National Academy of Science of Kyrgyz Republic, Bishkek)
6. **Anton Cheban.** Technology of extraction and primary processing of low-grade and off-balance ores (Mining Institute FEB RAS, Khabarovsk)
7. **Alexander Sidlyar,** Igor Rasskazov, Andrei Tereshkin, Andrei Golosov. Assessment and control of geodynamical risks under the conditions of a rock-bump hazardous complex deposit (Mining Institute FEB RAS, Khabarovsk)
8. **Ivan Shipovskii,** Vitaly Trofimov. Features of formation of karst falls on the earth's surface (Institute of Comprehensive Exploration of Mineral Resources RAS, Moscow)
9. **Ivan Shipovskii,** Vitaly Trofimov. Simulation fragmentation of samples of rock at explosive loading (Institute of Comprehensive Exploration of Mineral Resources RAS, Moscow)

***11:30 a.m.– 11:40 a.m. – Break (10 minutes)***

1. **Dmitrii Petrov,** Vladimir Zubkov, Dosanbai Bekbergenov. Influence of the parameters of the layer of ore being brought down on its freezing and losses during the face ore draw (Mining Institute of the North SB RAS, Yakutsk)
2. **Ivan Rozanov,** Anatolii Kozyrev, Eduard Kasparian. The integrated geodetic monitoring system of open pit slopes in hard rock massifs (Mining Institute KSC RAS, Apatity)
3. **Artem Rozhkov**, Igor Sokolov, Yuri Antipin, Kirill Baranovsky. Development of explosive breaking principles for the ores prone to overgrinding (Institute of Mining of the Ural Branch RAS, Ekaterinburg)
4. **Artem Rozhkov**, Igor Sokolov, Yuri Antipin, Kirill Baranovsky**.** About the effectiveness of counter blasting with chamber mining system (Institute of Mining of the Ural Branch RAS, Ekaterinburg)
5. **Dmitrii Solovev,** Aleksandr Kurilko. Temperature conditions in the ventilation shaft lining and the space behind lining when reversing the main ventilation unit in winter (Mining Institute of the North SB RAS, Yakutsk)
6. **Vladimir Miroshnikov.** Development of ideas about the destruction of rocks (Mining Institute FEB RAS, Khabarovsk)
7. **Roman Krinitsyn**, Sergey Sentyabov. Investigation of geomechanical parameters of rock mass condition of “Magnezitovaya” mine (Institute of Mining of the Ural Branch RAS, Ekaterinburg)

**1:00 p.m. – 2:00 p.m. –** Lunch

**2:00 p.m. − 6:00 p.m. –** Breakout sessions

1. **Konstantin Alekseev,** Aleksandr Kurilko. Strength characteristics of fiber-reinforced light shotcrete (Mining Institute of the North SB RAS, Yakutsk)
2. **Elena Romanova,** Yuri Khokholov. Maintaining thermal stability of a fill slope in cryolithozone (Mining Institute of the North SB RAS, Yakutsk)
3. **Denis Tsoi,** Vladimir Lugovoy, Maksim Rasskazov, Kamchibek Kozhogulov. Deformation waves from distant earthquakes as a trigger mechanism for activating geodynamic processes in rock mass (Mining Institute FEB RAS, Khabarovsk)
4. **Andrey Tereshkin.** Improvement of methods and technical means for local control of the rock-bump hazard. (Mining Institute FEB RAS, Khabarovsk)
5. Qiao Jianyong, **Wang Zhiqiang,** Zhao Jingli. The evolution of thick coal seams mining methods in China (China University of Mining and Technology (Beijing); National University of Science and Technology “MISIS”; Beijing University of Posts and Telecommunications)
6. **Alexandr Leshchinskiy**, Evgeniy Shevkun, Yuriy Lysak, Andrey Plotnikov. Features of blasting loosing patterns with long delays (Pacific National University, Khabarovsk)

***4:00 p.m. – 4:30 p.m.******– Coffee-break (30 minutes)***

1. **Sergey Suknev.** Experimental modelling of a mine working failure under nonuniformly distributed compression (Mining Institute of the North SB RAS, Yakutsk)
2. **Arkady Avdeev**, Elena Sosnovskaya. Geomechanical сonditions of vein gold deposits in permafrost zone (Institute of Mining of the Ural Branch RAS, Ekaterinburg)
3. **Sergey Zharikov**, Vyacheslav Kutuev. On the issue of defining safe distances and overpressure under impact of shock air blast wave (Magnesitovaya mine). (Institute of Mining of the Ural Branch RAS, Ekaterinburg)
4. **Sergey Sentyabov**, Albert Zubkov. Investigation of stress field parameters at deep horizons of the Gayskoye field (Institute of Mining of the Ural Branch RAS, Ekaterinburg)
5. **Vyacheslav Kutuev**, Pavel Menshikov, Sergey Zharikov. Analysis of blasting seismic impact on underground mining workings under the conditions of the Magnezitovaya mine (Institute of Mining of the Ural Branch RAS, Ekaterinburg)
6. **Pavel Zuev**, Andrey Vedernikov, Danila Grigoriev. Using the method of electrical imaging for obtaining the modulus of elasticity in open cast mining (Institute of Mining of the Ural Branch RAS, Ekaterinburg)
7. **Vladimir Voronin,** Konstantin Vassin, Yerik Yedygenov, Nakhypbek Aldiyarov. Development and bench tests of a programmable logic controller "Simens Logo" based control system of an electromagnetic hammer for destruction of boulders (D.A. Kunayev Mining Institute, Almaty, Kazakhstan; Pacific National University, Khabarovsk, Russia)
8. **Gadzhi Mirzekhanov**, Zoia Mirzekhanova. From placer deposits to technogenic mineral formations: resource and historical perspective (a study of Amur region) (Mining Institute FEB RAS, Khabarovsk; Institute of Water and Ecology Problems FEB RAS, Khabarovsk)

*Section 2.* **“Problems of complex processing of mineral raw materials and new technologies of mineral processing”**

*Moderators:*

***Arthur Sekisov,*** *Dr. of Engineering, Officer-in-charge of Director of Mining Institute FEB RAS*

***Anna Rasskazova,*** *Dr. of Engineering (Mining Institute FEB RAS)*

**10:00 a.m. – 1:00 p.m. −** Breakout sessions.

1. **Margarita Gurman,** Abdakim Ashimbayev. Active carbons for selective flotation of primary gold-copper-porphyry ore (Mining Institute FEB RAS, Khabarovsk; Razzakov Kyrgyz State University, Kyrgyzstan)
2. **Ivan Lebedev.** Development of a new lining ball mill model for commercial component preservation (Mining Institute of the North SB RAS, Yakutsk)
3. **Ekaterina Alekseeva,** Vladimir Alekseev,Tamara Banshchikova**.** Morphological changes of technogenic gold from dump complexes and the reasons for its losses during the primary mining of placers of the Solovyov gold-bearing node (Mining Institute FEB RAS, Khabarovsk)
4. **Svetlana Salomatova.** Extraction of gold in a centrifugal field of fluid rotation (Mining Institute of the North SB RAS, Yakutsk)
5. **Grigoriy Shirman,** Andrey Marveyev, Svetlana Salomatova. Hydrophobization of the surface of mineral forms during cryogenic treatment of highly clayey sands (Mining Institute of the North SB RAS, Yakutsk)
6. **Grigoriy Shirman,** Natalia Eremeyeva., Andrey Matveyev, Igor Matveyev, Oleg Ochosov. Experimental studies on the disintegration of high-clays and sand the enrichment of heavy minerals in a pilot scrubber-free washing plant (Mining Institute of the North SB RAS, Yakutsk)
7. **Oleg Komarov,** Valery Predein, Artyom Popov, Sergey Zhilin. Integrated processing of ferriferous materials in blank production for mechanical engineering facilities (Khabarovsk Federal Research Center FEB RAS, Komsomolsk-na-Amur)
8. **Ekaterina Alekseeva.** Method for borehole leaching of gold from complex-structured deep-lying placers with hard-to-recover gold (Mining Institute FEB RAS, Khabarovsk)

***11:30 a.m.– 11:40 a.m. – Break (10 minutes)***

1. **Aleksandra Kopylova,** Roman Bogomyakov. Comparative schemes of the standard and combined flotation (pneumatic and electro-flotation) in the processing of ores from the oxidation zone (Mining Institute FEB RAS, Khabarovsk)
2. **Aleksei Sobolev,** Gennady Sekisov, Abdakim Ashimbaev. Features of choosing the schemes for selective mining of ores and justifying their rational parameters while using heap leaching schemes for processing (Mining Institute FEB RAS, Khabarovsk; Kyrgyz State University named after I. Razzakov, Kyrgyzstan)
3. **Natalia Litvinova**, Elena Shepeta, Marina Bubnova, Mehmet Bilen. Research on modeling the technology of processing anthropogenic mature tailings of Primorsk Concentrating Factory (Mining Institute FEB RAS, Khabarovsk; Zonguldak Bulent University, Turkey)
4. **Elena Shepeta,** Vladislava Ignatkina, Luiza Samatova. Technological studies of the use of modifiers in the flotation of calcium-containing minerals (Mining Institute FEB RAS, Khabarovsk)
5. **Konstantin Prokhorov,** Alexander Burdonov, Peter Henning. Study of flow regimes and gas holdup in a different potentials medium in an aerated column (Mining Institute FEB RAS, Khabarovsk; SIEMAG TECBERG group, Haiger, Germany)
6. **Arthur Sekisov**, Anna Rasskazova. Clustering of protons as the main factor in increasing the activity of leaching solutions at their electrochemical and photochemical processing (Mining Institute FEB RAS, Khabarovsk)
7. **Aleksandr Petukhov**, Yury Rubtsov, Aleksandr Lavrov, Mikhail Kostromin, Aleksandra Lavrik. Test laboratory studies of refractory gold-bearing ores of Magadan Region from the standpoint of their processing by heap leaching (Transbaikal State University, Chita; Mining Institute FEB RAS, Khabarovsk)
8. **Maksim Kirilchuk,** Adam Mustapha. Comparative experiments on the activation cyanide and chloride re-leaching of gold from the secondary mineral material of heaps of Aprelkovo mine (Mining Institute FEB RAS, Khabarovsk; University of South Australia, Adelaide, Australia)

**1:00 p.m. – 2:00 p.m. –** Lunch

**2:00 p.m. − 6:00 p.m. –** Breakout sessions

1. **Natalia Litvinova,** Aleksandra Kopylova, Valentina Stepanova, Tatsumi Hitachi. Use of mechanical activation in the processing of gold-bearing ores and anthropogenic materials (Mining Institute FEB RAS, Khabarovsk; JEOL Ltd., Akishima, Tokyo, Japan)
2. **Tatiana Konareva.** Application of environmentally friendly technologies for processing the mining industry refuse (Mining Institute FEB RAS, Khabarovsk)
3. **Lydia Kienko,** Olga Voronova. Evaluation of the influence of the dispersion-sludge characteristics of the pulp on the beneficiation indicators of technogenic fluorite-containing tailings (Mining Institute FEB RAS, Khabarovsk)
4. **Olga Voronova**, Lydia Kienko. Study of the prospects for expanding the range of collectors in the flotation of fluorite from technogenic raw materials (Mining Institute FEB RAS, Khabarovsk)
5. **Maxim Kirilchuk,** Tatiana Konareva. Research of combined reagent schemes of activation leaching of gold from oxidized ores of the Malmyzh field (Mining Institute FEB RAS, Khabarovsk)
6. **Nina Leonenko.** Structural changes of technogenic noble metal raw materials under the laser impact (Mining Institute FEB RAS, Khabarovsk)

***4:00 p.m.– 4:30 p.m.******– Coffee-break (30 minutes)***

1. **Nadezhda Nikolaeva,** Abdalla Elbendari, Aleksandr Aleksandrov, Anastasiya Afanasova. Selective flotation of phosphorus-bearing ores (Saint Petersburg Mining University)
2. **Artem Romachev**, Valentin Kuznetsov, Igor Ivanov, Benndorf Jörg. Flotation froth feature analysis using computer vision technology (Saint Petersburg Mining University; TU Bergakademie, Institute for Mine Surveying and Geodesy, Freiberg, Germany)
3. **Asiya Duryagina**, Gerhard Heide, Irina Talovina, Arturo Bravo. Mineralogical and morphometric aspects of the rock analysis as the basis for choosing a scheme for ore preparation (Saint Petersburg Mining University; TU of Freiberg Mining Academy, Institute of Mineralogy, Freiberg, Germany)
4. **Elena Vorsina,** Tatiana Moskalenko, Valery Mikheev. Intensification of humic acid extraction from lignites (Mining Institute of the North SB RAS, Yakutsk)
5. **Valery Mikheev,** Elena Vorsina,Tatiana Moskalenko, Mehmet Bilen. Research of efficiency of lignite chemical modification and steam-gas activation combining for sorbents preparation (Mining Institute of the North SB RAS, Neryungri; Zonguldak Bulent Ecevit University, Turkey)
6. **Alexander Burdonov,** Vyacheslav Barakhtenko., Konstantin Prokhorov, Yuri Novikov. Features of metallurgy waste mainly processing with account for raw material contrast (Irkutsk National Research Technical University, Irkutsk, Russia)
7. **Alexander Lavrov,** Slava Korolev**.** Research and technological testing of ores with dispersed gold of the Yellow Jacket Deposit (Advanced Recovery, Cal., USA; ZABGU, Chita)
8. **Svetlana Korneeva,** Natalia Khrunina**.** Theoretical basics of process of the dispersal system correction (Mining Institute FEB RAS, Khabarovsk)

*Section 3.* **“Strategic, geo-ecological and economic problems of subsurface use”**

*Moderators:*

***Yuliya Arkhipova****, Dr. of Economics, Head of the Laboratory of Rational Development of Mineral Resources, Mining Institute FEB RAS, Khabarovsk*

***Viktor Kryukov,*** *Dr. of Geological and Mineralogical Sciences, Leading Researcher of Mining Institute FEB RAS, Khabarovsk*

**10:00 a.m. – 1:00 p.m. −** Breakout sessions

1. **Andrey Strelnikov.** The necessity of amendments of the procedure for issuing licenses for the use of mineral resources. (First Deputy Minister of Natural Resources in the Khabarovsk Territory)
2. **Yuliya Arkhipova,** Rudolf Leontiev. Increasing the attractiveness of investment projects in the mining industry of the Russian Far East (Mining Institute FEB RAS, Khabarovsk)
3. **Anna Bardal,** Yuliya Arkhipova. Transport and economic problems of subsoil use in the Russian Far East (Mining Institute FEB RAS, Economic Research Institute FEB RAS, Khabarovsk)
4. **Egor Knyazkin,** Marina Rylnikova. Substantiation of parameters of the energy-efficient water outflow scheme of underground mine using energy of hydro-flows (Institute of Comprehensive Exploration of Mineral Resources, Moscow)
5. **Egor Knyazkin,** Gennady Einbinder, Natalia Mitishova, Dmitry Radchenko. Procedure for risk assessment of initiation and progression of oxidation processes during development of pyrite ore deposits. Institute of Comprehensive Exploration of Mineral Resources, Moscow)
6. **Natalia Lomakina.** Complex exploitation of the mineral resources of the Far East: the effects of a "new model" of macroregional development (Economic Research Institute FEB RAS, Khabarovsk)
7. **Irina Kradenykh,** Aleksei Barchukov. Strategy of consolidation in gold mining as a tool for creating an effective business (Mining Institute FEB RAS; Far Eastern State University of Railway Transport, Khabarovsk)
8. **Sergey Turkov.** The concept of “scientific revolutions” in the Geoecology knowledge system (Computer center FEB RAS, Khabarovsk)

***11:30 a.m. – 11:40 a.m. – Break (10 minutes)***

1. **Natalia Miletenko,** Evgeny Fedorov, Khani-Kamal Kassymkanova, Gulnar Jangulova**.** The influence of extensive caving zones on the state and behavior of the surface as a result of underground mining works (Institute of the Problems of Integrated Subsoil Development, Moscow; Al-Farabi Kazakh National University, Almaty, Kazakhstan)
2. **Julia Ozaryan,** Jury Galchenko**.** Methodology for quantitative assessment of ecological efficiency of geotechnologies (Institute of Problems of Integrated Development of Subsurface Resources RAN, Moscow; Mining Institute FEB RAS, Khabarovsk)
3. **Natalia Lavrik,** Peter Henning. Gold in ash and slag material of the Primorsk hydroelectric power (Mining Institute FEB RAS, Khabarovsk; SIEMAG TECBERG group, Haiger, Germany)
4. **Alexandra Lavrik,** Natalia Lavrik, Natalya Litvinova, Valentina Stepanova. Platinum and platinoids in the Bolotisty gold-placer deposit (Khabarovsky Krai, Russia) (Mining Institute FEB RAS, Khabarovsk)
5. **Viktor Kryukov,** Irina Kradenykh. On the geological and economic assessment of the Lower Amur region (Russia) (Mining Institute FEB RAS, Khabarovsk)
6. **Evgenii Khoiutanov,** Vladimir Gavrilov, Natalya Nemova, Dmitrij Son. The role of digital simulation in assessing and reassessing the potential of complex coal deposits (Mining Institute of the North SB RAS, Yakutsk; Coal Department JSC “ArselorMittalTemirtau”, Saran’, Kazakhstan)

**1:00 p.m. – 2:00 p.m. –** Lunch

**2:00 p.m. − 6:00 p.m. –** Breakout sessions

1. **Yuri Manilov.** Structural and mineragenetic features of the Getkan area (Institute of Regional Tectonics and Geophysics FEB RAS, Khabarovsk)
2. **Rudolf Leontiev,** Alexey Barchukov, Maria Nemchaninova. Mining logistics systems: classification, identification, innovation (Information Center FEB RAS; Far Eastern State Transport University, Khabarovsk)
3. **Natalia Mitishova,** Marina Rylnikova, Viktor Fedotenko. Influence of structural and textural features of ores and rocks on mine dust explosion hazard during development of pyrite deposits (Institute of Comprehensive Exploitation of Mineral Resources, Moscow)
4. **Evgeny Fedorov,** Dosanbay Bekbergenov, Gulnar Jangulova. Modeling and methodology for calculating the strength of a man-made bottom in a system with self-destruction of ore for ecologically safe mining (Institute of the Problems of Integrated Subsoil Development, Moscow; Al-Farabi Kazakh National University, Almaty, Kazakhstan)

***4:00 p.m.– 4:30 p.m.******– Coffee-break (30 minutes)***

1. **Lyubov Shubina,** Natalia Antoninovna, Artem Sobenin, Albert Usmanov. Modern aspects of disturbed land reclamation (Institute of Mining of the Ural Branch RAS, Ekaterinburg)
2. **Galina Sklyarova**. Specific composition of the mineral resource base of the Far Eastern Region in comparative aspects by Federal subjects (Mining Institute FEB RAS, Khabarovsk)
3. **Gennady Arkhipov.** Macroeconomics of mining of the Far Eastern Federal District (Mining Institute FEB RAS, Khabarovsk)
4. **Aleksei Sobolev**, Peter Gibson, Gennady Sekisov, Anton Andriushenko. Strategic positioning of the Russian Far East gold mining industry (Mining Institute FEB RAS, Khabarovsk; University of Wollongong, Wollongong, Australia)

*Section 4.* **«Innovative technologies and methods for monitoring natural and mining systems»**

*Moderators:*

***Shulyupin А.N***., *Dr. of Engineering, Officer-in-charge of Director of KhFRC FEB RAS*

***Igor Krivosheyev****,* Dr. of Engineering*, Head of the Laboratory of Digital Methods of Research of Natural and Technical Systems, Mining Institute FEB RAS, Khabarovsk*

**10:00 a.m. – 1:00 p.m. −** Breakout sessions

1. **Natalia Varlamova,** Aleksandr Shulyupin, Alla Chermoshentseva. A new program for the hydraulic calculation of steam-water mixture pipelines in geothermal fields (Mining Institute FEB RAS, Khabarovsk; Kamchatka State Technical University, Petropavlovsk-Kamchatsky)
2. **Larisa Fedorova,** Anna Lejzerowicz, Gavril Kulyandin, Denis Savvin, Maksim Fedorov. Ground penetrating radar investigations of the geological structure of loose sediments at solid mineral deposits (ИГДС СО РАН, Warsaw, Poland) (Mining Institute of the North SB RAS, Yakutsk; Warsaw University of Technology, Warsaw, Poland)
3. **Nikolay Grib,** Andrey Melnikov, Galina Grib, Andrey Kachaev. Use of unmanned aerial systems for assessing the dynamics of hazardous engineering and geocryological processes on linear facilities (Technical Institute of the Ammosov Northeast Federal University, Neryungri)
4. **Nikolay Grib,** Yuri Malinin, Pavel Kuznetsov, Zhang Ze. Prediction of the spatial variability of coal-bearing rocks at the Elginsky coal mine (Technical Institute of the Ammosov Northeast Federal University, Neryungri; Northeast-China Observatory and Reseatch-Station of Permafrost Geo-Environment, Northeast Forestry University, Harbin, China)
5. **Mikhail Lomov.** 3D modeling system of seismoacoustic monitoring results at the Nikolaevskoye field (Mining Institute FEB RAS, Khabarovsk)
6. **Natalia Miletenko,** Sergey Kulibaba. Influence of the mining depth factor on accuracy of the forecast of the earth's surface subsidence in Kuzbass (Institute of Comprehensive Exploitation of Mineral Resources)

***11:30 a.m.– 11:40 a.m. – Break (10 minutes)***

1. **Svetlana Tusikova,** Tatyana Merkulova, Gulshat Gil’manova. Seismic activity of major hidden faults in the Priamurye region (Institute of Regional Tectonics and Geophysics FEB RAS, Khabarovsk)
2. **Andrey Verkhoturov,** Galina Sokolova, Hiroshi Hayasaka. Hydrological consequences of changes forest cover on watersheds of the Amur river basin (Mining Institute FEB RAS, Khabarovsk; Hokkaido University, Sapporo, Japan)
3. **Andrei Gladyr.** Design of a new-generation seismic-acoustic monitoring information and analytical system (Mining Institute FEB RAS, Khabarovsk)
4. **Alexander Konstantinov,** Andrei Gladyr, Maxim Rasskazov. Designing an improved geoacoustic event location algorithm in the “Prognoz-ADS” system (Mining Institute FEB RAS, Khabarovsk)
5. **Pavel Anikin,** Gennady Kursakin, Iuliia Fedotova. Improvement of the automated seismic and acoustic monitoring system “Prognoz-ADS” main elements (Mining Institute FEB RAS, Khabarovsk)
6. **Vitaly Usikov.** Prognosis of dangerous geodynamic phenomena at the Kun-Manye field based on the analysis of digital elevation models (Mining Institute FEB RAS, Khabarovsk)
7. **Vitaly Usikov,** Viktor Litvintsev, Yulia Ozaryan, Vladimir Alekseev. Assessment of reserves and resources of technogenic complexes of gold-bearing deposits using remote sensing methods on the example of the Kerbinsky gold-bearing region (Khabarovsk Region) (Mining Institute FEB RAS, Khabarovsk)

**1:00 p.m. – 2:00 p.m. –** Lunch

**2:00 p.m. − 6:00 p.m. –** Breakout sessions

1. **Andrey Panzhin,** Natalia Panzhina. Monitoring of the stress-strain state of open pits’ adjacent rock mass (Institute of Mining of the Ural Branch RAS, Ekaterinburg)
2. **Igor Krivosheyev,** Marina Ignatieva, Elena Krivosheyeva. Calibration method for seismic acoustic transducers for rock mass control (Mining Institute FEB RAS; Pacific National University, Khabarovsk)
3. **Ilya Manzhula,** Tatiana Kozhevnikova, Lyubov Kondratyeva, Evgeniya Golubeva. Assessment of the relationships between elements and organic matter in water after a large landslide in the Bureyskoye reservoir (Russia) (Computer Center FEB RAS, Khabarovsk)
4. **Natalia Antoninovna,** Sergei Kornilkov, Artem Sobenin. Assessment of the sorption potential of the plant l. Sativum l. In the process of formation of the biogeochemical barrier (Institute of Mining of the Ural Branch RAS, Ekaterinburg)

***4:00 p.m.– 4:30 p.m.******– Coffee-break (30 minutes)***

1. **Ivan Chernev,** Aleksandr Shulyupin, Alla Chermoshentseva, Natalia Varlamova. Experience in transporting steam-water mixture in the development of the Mutnovsky geothermal field (JSC «Kamchatskenergo», Petropavlovsk-Kamchatsky; Mining Institute FEB RAS, Khabarovsk)
2. **Al-shateri Hoshmand Ahmed Azeez**, Shuchrat Mukhitdinov. Land use land cover change detection in the mining areas of V. D. Yalevsky coal mine- Russia (National University of Science and Technology “MISIS”, Moscow; Tashkent State Technical University, Tashkent, Uzbekistan)
3. **Irina Osipova**, Veselina Gospodinova. Representation of the process of sudden outbursts of coal and gas using a knowledge graph (Institute of Mining of the Ural Branch RAS, Ekaterinburg; Mining and Geological University «St. Ivan Rilskiy», Sofia, Bulgaria)

**September 10, Thursday**

**10:00 a.m. – 12:30 p.m. –** Roundtable discussion “Problems and Prospects of Development of the Far Eastern Mining Complex”.

(Small hall of House of official receptions of the Government of Khabarovsk Territory (1st floor, 3 Shevchenko st., Khabarovsk)

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| **10:00 a.m. –** | Reports of section leaders on the results of the work. |
| **10:30 a.m. –** | General discussion.  |
| **11:30 a.m. –** | Conclusions, discussion of the project. |
| **12:30 p.m. –** | Conclusion of the Conference. |
| **1:00 p.m. – 6:00 p.m.** | Sightseeing tour «Belovodye» (a festive dinner and a tour to a male monastery included) |

**LIST OF PARTICIPANTS**

**VIII International Scientific Conference**

**“PROBLEMS OF COMPLEX DEVELOPMENT OF GEORESOURCES”**

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