**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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**Contacts:**

Scientific Secretary of the Conference

Dr. Svetlana Korneeva

Phone: +7 (4212) 31-14-91

E-Mail: [igd-konf@mail.ru](mailto:igd-konf@mail.ru)

**ORGANIZING COMMITTEE**

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**Serdar Yilmaz** – DPh (Assistant Professor, Zonguldak Bülent Ecevit University, Engineering Faculty, Mining Engineering Department, Turkey)

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**Sorokin A. A**. – corresponding member of the Russian Academy of Sciences (institute of Geology and Nature Management FEB RAS, Blagoveshchensk, Russia)

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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”**

|  |  |  |
| --- | --- | --- |
|  | Arkady Avdeev Dr. of Engineering,  Senior Researcher | Institute of Mining of the Ural Branch of the Russian Academy of Sciences; - 620075. Ekaterinburg, Russia, 58 Mamina-Siberyaka st. Tel.: (343) 355-19-60 E-mail: avdeev0706@mail.ru |
|  | Gennady Einbinder Dr. of Engineering,  Director General | Association of Mining Expert Centres, 107078, Moscow, Russia, 12 Novaya Basmannaya st.,  Build. №2  Tel.: (495) 640-91-95 E-mail: agec@agec.ru |
|  | Aleksandr Aleksandrov  Professor, Dr. of Engineering, Head Reasercher. | Mining Institute FEB RAS, 680000, Khabarovsk, 51 Turgeneva st. Tel: (4212) 32-79-27 Federal State Budgetary Institution of High Education “Saint Petersburg State University of Industrial Technology and Design” 198095, St. Petesburg, 4 Ivana Chernykh st. E-mail: e-igdalex@rambler.ru |
|  | Tatyana Aleksandrova Dr. of Engineering,  Professor, Head of the Department | Federal State Budgetary Institution of High Education “Saint Petersburg Mining Institute” 199106, St. Petesburg, 21-Ya Liniya, 2 Tel.: (812) 328-84-17 E-mail: alexandrovat10@gmail.com |
|  | Vladimir Alekseev Professor, Dr. of Engineering, Deputy Director for Science and Innovation | Mining Institute FEB RAS 680000, Khabarovsk, 51 Turgeneva st. Tel.: (4212) 32-79-27 E-mail: Alekseev.igd.khv@mail.ru |
|  | Konstantin Alekseev Fellow Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina Tel.: (4112) 39-00-79 E-mail: Const1711@mail.ru |
|  | Ekaterina Alekseeva Fellow Researcher | Mining Institute FEB RAS 680000, Khabarovsk, 51 Turgeneva st. Tel.: (4212) 32-79-27 E-mail: Alekseeva\_igd@mail.ru |
|  | Viktor Alenichev Professor, Dr. of Engineering, Head Reasercher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Tel.: (343) 355-19-60 E-mail: [alenichev@igduran.ru](mailto:alenichev@igduran.ru) |
|  | Аl-shateri Hoshmand Ahmed Azeez  Graduate Student  (Iraq) | National University of Science and Technology MISIS 119049, Moscow, 4 Leninskiy Prospekt  Tel.: (495) 955-00-32  E-mail: hoshmendg@gmail.com |
|  | Pavel Anikin Dr. of Engineering,  Senior Researcher | Mining Institute FEB RAS 680000, Khabarovsk, 51 Turgeneva st.  Tel.: (4212) 32-79-27 E-mail: pav.anik@mail.ru |
|  | Uriy Antipin Dr. of Engineering,  Senior Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Tel.: (343) 355-19-60 E-mail: [geotech@igduran.ru](mailto:geotech@igduran.ru) |
|  | Natalia Antoninovna Dr. of Engineering, Head of the Laboratory | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Tel.: (343) 350-50-35 E-mail: [natal78@list.ru](mailto:natal78@list.ru) |
|  | Gennady Arkhipov  Dr. of Geological and Mineralogical Sciences,  Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Tel.: (4212) 31-14-91  E-mail: [arhipov@igd.khv.ru](mailto:arhipov@igd.khv.ru) |
|  | Yuliya Arkhipova Dr. of Economic Sciences, Lead Researcher, Head of the Laboratory | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тел.: (4212) 32-79-27 E-mail: [arhipova@igd.khv.ru](mailto:arhipova@igd.khv.ru) |
|  | Anastasiia Afanasova  Dr. of Engineering, assistant | Federal State Budgetary Institution of High Education “Saint Petersburg Mining Institute” 199106, St. Petesburg, 21-Ya Liniya, 2 Tel.: (812) 328-97-01 E-mail: Afanasova\_AV@pers.spmi.ru |
|  | Ilya Bagautdinov Dr. of Engineering,  Senior Researcher | Federal State Budgetary Institution of High Education “Saint Petersburg Mining Institute” 199106, St. Petesburg, 21-Ya Liniya, 2 Tel.: (812) 328-97-01 E-mail: bagautdinov\_ii@pers.spmi.ru |
|  | Tamara Banchshikova Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тел.: (4212) 32-79-27 |
|  | Kirill Baranovskiy Dr. of Engineering,  Senior Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Tel.: (343) 350-71-28 E-mail: [geotech@igduran.ru](mailto:geotech@igduran.ru) |
|  | Anna Bardal Dr. of Economic Sciences, Lead Researcher | Economic Research Institute of Far Eastern Branch of the Russian Academy of Sciences 680042, Khabarovsk, 153 Tikhookeanskaya st. Tel.: (4212) 225-916 E-mail: Bardal@ecrin.ru |
|  | Aleksey Barchukov  Dr. of Economic Sciences, Associate Professor, Department Professor | Federal State Budgetary Institution of High Education “Far Eastern State Transport University”, 680021, Khabarovsk, 47 Serysheva st. Tel.: (4212) 40-71-33 E-mail: barchukov\_alex@mail.ru |
|  | Andrian Batugin Dr. of Engineering, Professor | National University of Science and Technology MISIS 119049, Moscow, 4 Leninskiy Prospekt Tel.: (495) 955-00-32 E-mail: as-bat@mail.ru |
|  | Natalia Batugina  Dr. of Economic Sciences, Lead Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Tel.: (4112) 39-00-60 E-mail: [batuginan@mail.ru](mailto:batuginan@mail.ru) |
|  | Vyacheslav Barakhtenko Dr. of Engineering, Associate Professor | Irkutsk National Research Technical University 664074, Irkutsk, 83 Lermontova st. Tel.: (3952) 405-000 E-mail: antivsyo@inbox.ru |
|  | Roman Bogomyakov Researcher | Federal State Budgetary Institution of Science Institute of mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS) 680000, Khabarovsk, 51 Turgeneva st. Tel.: (4212) 32-79-27 E-mail: [roma.bogomyakov@mail.ru](mailto:roma.bogomyakov@mail.ru) |
|  | Marina Bubnova Dr. of Engineering,  Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Telefax: (4212) 32-79-27 E-mail: [138\_marina@mail.ru](mailto:138_marina@mail.ru) |
|  | Alexander Burdonov Dr. of Engineering, Associate Professor | Irkutsk National Research Technical University 664074, Irkutsk, 83 Lermontova st. Tel.: (3952) 405-000 E-mail: slimbul@inbox.ru |
|  | Natalia Varlamova Fellow Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st.  Tel.: (4212) 32-79-27  E-mail: [vnn-dvgups@mail.ru](mailto:vnn-dvgups@mail.ru) |
|  | Andrey Vedernikov Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Tel.: (343) 350-90-11  E-mail: [avedernikov@igduran.ru](mailto:avedernikov@igduran.ru) |
|  | Andrey Verkhoturov Senior Researcher | Computer Center of the Far Eastern Branch of the Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Tel.: (4112) 22-72-67 E-mail: andrey@ccfebras.ru |
|  | Andrey Volkov Chief Engineer | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Tel.: (4212) 32-79-27 E-mail: [volkov-af@igd.khv.ru](mailto:volkov-af@igd.khv.ru) |
|  | Vladimir Voronin Dr. of Engineering, Professor | Federal State Budgetary Institution of High Education “Pacific National University” 680035, Khabarovsk, 136 Tikhookeanskaya st. Tel.: (4212) 22-43-60 E-mail: voronin@ais.khstu.ru |
|  | Olga Voronova Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st.Tel.: (4212) 32-79-27 E-mail: [olya-vo@mail.ru](mailto:olya-vo@mail.ru) |
|  | Elena Vorsina Dr. of Engineering, Associate Professor, Senior Researcher | Mining Institute of the North named after N.V. Chersky, SB RAS 678962, Neryungri, 25 Churapchinskaya st. Tel: (4114) 76-98-44 E-mail: labkiy@mail.ru |
|  | Vladimir Gavrilov Dr. of Engineering, Lead Researcher | Chinakal Institute of Mining, Siberian Branch, Russian Academy of Sciences, Laboratory of Open-pit Mining 630091, Novosibirsk, 54 Krasnyy Prospekt st. Tel.: (383) 205–30–30, доб. 100 E-mail: [gvlugorsk@mail.ru](mailto:gvlugorsk@mail.ru) |
|  | Uriy Galchenko Dr. of Engineering, Lead Researcher | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik st. Tel.: (495) 360-89-60 E-mail: [sсhtrek33@mail.ru](mailto:sсhtrek33@mail.ru) |
|  | Gulshat Gilmanova  Dr. of Geological and Mineralogical Sciences, Senior Researcher, Head of the group | Kosygin Institute of Tectonics and Geophysics, Far East Branch, Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Tel.: (4212) 22-71-89 E-mail: [gigulya@yandex.ru](mailto:gigulya@yandex.ru) |
|  | Andrei Gladyr Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Tel.: (4212) 32-79-27 E-mail: [rush3112@mail.ru](mailto:rush3112@mail.ru) |
|  | Evgeniya Golubeva Dr. of Biological Sciences, Fellow Researcher | Kosygin Institute of Tectonics and Geophysics, Far East Branch, Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Tel.: (4212) 22-71-89 E-mail: evg8302@yandex.ru |
|  | Galina Grib Dr. of Geological and Mineralogical Sciences, Head of the Laboratory | Technical Institute (branch) of the Ammosov Northeast Federal University 678960, Neryungri, 16 Kravchenko st. Tel.: (41147) 6-36-94 E-mail: gv.grib@s-vfu.ru |
|  | Nikolay Grib Dr. of Engineering, Professor, Deputy Director of Scientific Work | Technical Institute (branch) of the Ammosov Northeast Federal University  678960, Neryungri, 16 Kravchenko st. Tel.: (41147)-44983 E-mail: grib@nfygu.ru |
|  | Danila Grigoryev Fellow Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Tel.: (343) 350-90-11  E-mail: : [danilging@gmail.com](mailto:danilging@gmail.com) |
|  | Mikhail Guzev  Corresponding Member of the Russian Academy of Sciences, Doctor of Physics and Mathematics, Director | Institute for Applied Mathematics, Far Eastern Branch, Russian Academy of Sciences 690041, Vladivostok, 7 Radio st. Tel: (423) 231-33-30 E-mail: guzev@iam.dvo.ru |
|  | Margarita Gurman Dr. of Engineering, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Tel.: (4212) 32-79-27 E-mail: [mgurman@yandex.ru](mailto:mgurman@yandex.ru) |
|  | Asiya Duryagina Dr. of Geological and Mineralogical Sciences, Associate Professor | Federal State Budgetary Institution of High Education “Saint Petersburg Mining Institute” 199106, St. Petesburg, 21-Ya Liniya, 2  Tel.: (812) 328-84-17 E-mail: Duryagina\_AM@pers.spmi.ru |
|  | Natalia Eremeeva Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Tel.: (4112) 33-59-30 E-mail: [danng1@mail.ru](mailto:danng1@mail.ru) |
|  | Sergey Zharikov Dr. of Engineering, Head of the Laboratory | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Tel.: (343) 350-90-11  E-mail: [333vista@mail.ru](mailto:333vista@mail.ru) |
|  | Sergey Zhilin Dr. of Engineering, Associate Professor, Lead Researcher | Institute of Engineering and Metallurgy FEB RAS 681005, Komsomolsk-on-Amur, 1 Metallurgov st. Tel.: (4217) 54-95-39 E-mail: sergeyzhilin1@rambler.ru |
|  | Vladimir Zubkov Dr. of Engineering, Head Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Tel.: (343) 350-94-24  E-mail: [direct@igduran.ru](mailto:direct@igduran.ru) |
|  | Vladimir Zubkov Dr. of Engineering, Deputy Director of Scientific Work | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Tel.: (4112) 39-00-42 E-mail: [zubkov@igds.ysn.ru](mailto:zubkov@igds.ysn.ru) |
|  | Pavel Zuev Fellow Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Tel.: (343) 350-94-24  E-mail: [zuev@igduran.ru](mailto:zuev@igduran.ru) |
|  | Igor Ivanov | Federal State Budgetary Institution of High Education “Saint Petersburg Mining Institute” 199106, St. Petesburg, 21-Ya Liniya, 2 Tel.: (812) 328-84-17 |
|  | Vladislava Ignatkina Dr. of Engineering, Associate Professor | National University of Science and Technology MISIS 119049, Moscow, 4 Leninskiy Prospekt Tel.: (495) 955-00-32 E-mail: woda@mail.ru |
|  | Marina Ignatyeva | Federal Environmental, Industrial and Nuclear Supervision Service of Russia 680000, Khabarovsk |
|  | Eduard Kasparyan Dr. of Engineering, Lead Researcher | Mining Institute KSCRAS 184209, Apatity, 24 Fersmana st. Tel.: (81555) 79-485 E-mail: kasp@goi.kolasc.net.ru |
|  | Andrey Kachaev Head of the Laboratory | Technical Institute (branch) of the Ammosov Northeast Federal University 678960, Neryungri, 16 Kravchenko st. Tel.: 8-(41147)-44983 E-mail: av.kachaev@s-vfu.ru |
|  | Lydia Kienko Dr. of Engineering,  Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Tel.: (4212) 32-79-27 E-mail: [kienkola@rambler.ru](mailto:kienkola@rambler.ru) |
|  | Maksim Kirilchuk Engineer | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Tel.: (4212) 32-79-27 E-mail: [kirilchukm@mail.ru](mailto:kirilchukm@mail.ru) |
|  | Egor Knyazkin Fellow Researcher | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik st. Тel.: (495) 360-89-60 E-mail: [steex173@gmail.com](mailto:steex173@gmail.com) |
|  | Tatiana Kozhevnikova  Researcher, Head of Division | Computer Center of the Far Eastern Branch of the Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Тel.: (4112) 22-72-67 E-mail: [ktvsl@mail.ru](mailto:ktvsl@mail.ru) |
|  | Anatolii Kozyrev Dr. of Engineering, Professor | Mining Institute KSCRAS 184209, Apatity, 24 Fersmana st. Тel.: (81555) 79-485 E-mail: kozar@ goi.kolasc.net.ru |
|  | Oleg Komarov Dr. of Engineering, Associate Professor, Lead Researcher | Institute of Engineering and Metallurgy FEB RAS 681005, Komsomolsk-on-Amur, 1 Metallurgov st. Тel.: (4217) 54-95-39 E-mail: olegnikolaevitsch@rambler.ru |
|  | Tatiana Konareva Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тel.: (4212) 32-79-27 E-mail: [sekisovag@mail.ru](mailto:sekisovag@mail.ru) |
|  | Lyubov Kondratyeva Dr. of BIologic Sciences, Professor, Head Researcher | Institute of Water and Ecology Problems of Far Eastern Branch of Russian Academy of Sciences 680000, Khabarovsk, 56 Dikopolzeva st. Тel.: (4212) 22-75-73 E-mail: kondratevalm@gmail.com |
|  | Alexander Konstantinov Fellow Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тel.: (4212) 32-79-27 E-mail: [alex-sdt@yandex.ru](mailto:alex-sdt@yandex.ru) |
|  | Alexandra Kopylova Senior Engineer | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тel.: (4212) 32-79-27 E-mail: [gustavkat@mail.ru](mailto:gustavkat@mail.ru) |
|  | Svetlana Korneeva  Dr. of Engineering, Associate Professor,  Academic Secretary | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тel.: (4212) 31-14-91 E-mail: [s\_korneeva@mail.ru](mailto:s_korneeva@mail.ru) |
|  | Sergey Kornilov  Dr. of Engineering, Professor, Head Researcher | Federal state institution of science Institute of mining of the Ural branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Тel.: (343) 350-64-30 E-mail: [kornilkov@igduran.ru](mailto:kornilkov@igduran.ru) |
|  | Mikhail Kostromin Dr. of Engineering, Professor | Transbaikal State University 672039, Chita, 30 Alexandro-Zavodskaya st. Тel.: (3022) 41-64-44 E-mail: kostrmv@yandex.ru |
|  | Irina Kradenykh Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тel.: (4212) 32-79-27 E-mail: [kradenyh\_igd@mail.ru](mailto:kradenyh_igd@mail.ru) |
|  | Igor Krivosheev Dr. of Engineering, Head Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тel.: (4212) 32-79-27 E-mail: [igork@as.khb.ru](mailto:igork@as.khb.ru) |
|  | Elena Krivosheeva Dr. of Philological Sciences | Pacific National University 680035, Khabarovsk, 136 Tikhookeanskaya st. Тel.: (4212) 35-85-37 E-mail: enl77@mail.ru |
|  | Roman Krinitsyn Head of the Laboratory | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Тel.: (343) 350-94-24 E-mail: [roman\_krinicyn@mail.ru](mailto:roman_krinicyn@mail.ru) |
|  | Viktor Kryukov  Dr. of Geological and Mineralogical Sciences, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тel.: (4212) 32-79-27 E-mail: [kryukov-vg@mail.ru](mailto:kryukov-vg@mail.ru) |
|  | Valentin Kuznetsov | Federal State Budgetary Institution of High Education “Saint Petersburg Mining Institute” 199106, St. Petesburg, 21-Ya Liniya, 2 Тel.: (812) 328-82-85 |
|  | Pavel Kuznetsov Dr. of Geological and Mineralogical Sciences, Associate Professor | Technical Institute (branch) of the Ammosov Northeast Federal University 678960, Neryungri, 16 Kravchenko st. Тel.: (41147) 6-36-94 E-mail: kuznetsov.pavel.yu@gmail.com |
|  | Sergey Kulibaba Dr. of Engineering, Professor, Lead Researcher | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik Тel.: (495) 360-89-60 E-mail: [ksb52@mail.ru](mailto:ksb52@mail.ru) |
|  | Gavril Kulyandin Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Тel.: (4112) 33-59-30 E-mail: [gansik.ku@mail.ru](mailto:gansik.ku@mail.ru) |
|  | Alexznder Kurilko Dr. of Engineering, Head Researcher, Head of the Laboratory | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Тel.: (4112) 39-00-46 E-mail: [a.s.kurilko@igds.ysn.ru](mailto:a.s.kurilko@igds.ysn.ru) |
|  | Gennadiy Kursakin Dr. of Engineering, Head Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тel.: (4212) 32-79-27 E-mail: [kursakin@ngs.ru](mailto:kursakin@ngs.ru) |
|  | Vyacheslav Kutuev Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Тel.: (343) 350-90-11 E-mail: [slavik1988@mail.ru](mailto:slavik1988@mail.ru) |
|  | Alexandra Lavrik Fellow Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Тel.: (4212) 32-79-27 E-mail: [lalexalavrikxx@gmail.com](mailto:lalexalavrikxx@gmail.com) |
|  | Natalia Lavrik Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [lavrik@igd.khv.ru](mailto:lavrik@igd.khv.ru) |
|  | Alexander Lavrov Dr. of Engineering, Associate Professor, Dean of the Department | Transbaikal State University 672039, Chita, 30 Alexandro-Zavodskaya st. Теl.: (3022) 41-64-44 E-mail: lavrov\_2002@mail.ru |
|  | Ivan Lebedev Dr. of Engineering, Senior Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30 E-mail: igds@ysn.ru |
|  | Nina Leonenko Dr. of Engineering, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [leonenko@igd.khv.ru](mailto:leonenko@igd.khv.ru) |
|  | Rudolph Leontyev Dr. of Economic Sciences, Professor, Head Researcher | Computer Center of the Far Eastern Branch of the Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Теl.: (4112) 22-72-67 E-mail: rleontyev1@mail.ru |
|  | Alexandr Leshchinskiy Dr. of Engineering, Professor | Pacific National University, Chair of Transport and Technological Systems in Construction and Mining 680035, Khabarovsk, 136 Tikhookeanskaya st.  Теl.: (4212) 35-85-37 E-mail: 000399@pnu.edu.ru |
|  | Natalia Litvinova Dr. of Engineering, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [nauka22@yandex.ru](mailto:nauka22@yandex.ru) |
|  | Viktor Litnitsev Dr. of Engineering, Head Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [adm@igd.khv.ru](mailto:adm@igd.khv.ru) |
|  | Natalia Lomakina Dr. of Economic Sciences, Associate Professor, Head Researcher | Economic Research Institute of Far Eastern Branch of the Russian Academy of Sciences 680042, Khabarovsk, 153 Tikhookeanskaya st. Теl.: (4212) 72-52-25 E-mail: lomakina@ecrin.ru |
|  | Mikhail Lomov Fellow Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [lomovmisha1992@gmail.com](mailto:lomovmisha1992@gmail.com) |
|  | Yuri Lysak Supervisor | AVT-Amur LLC 675000, Blagoveshchensk |
|  | Vladimir Makarov Dr. of Engineering, Professor | Far Eastern Federal University 690091, Vladivistok, 8 Sukhanova st. Теl.: (423) 243‒34‒72 E-mail: vlmvv@mail.ru |
|  | Yuti Malinin Senior Lecturer | Technical Institute (branch) of the Ammosov Northeast Federal University 678960, Neryungri, 16 Kravchenko st. Теl.: (41147)-44983 E-mail: alkor.05@mail.ru |
|  | Ilya Manzhula Fellow Researcher | Computer Center of the Far Eastern Branch of the Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Теl.: (4112) 22-72-67 E-mail: Manzhula\_94@mail.ru |
|  | Yuri Manilov Dr. of Geological and Mineralogical Sciences, Senior Researcher | Kosygin Institute of the Tectonics and Geophysics of the Far Eastern Branch of the Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Теl.: (4212) 22-71-89 E-mail: [ymanilov@yandex.ru](mailto:ymanilov@yandex.ru) |
|  | Andrey Matveev Dr. of Engineering, Head Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30  E-mail: [andrei.mati@yandex.ru](mailto:andrei.mati@yandex.ru) |
|  | Igor Matveev | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30  E-mail: [igor.andr.matveev@gmail.com](mailto:igor.andr.matveev@gmail.com) |
|  | Andrey Melnikov Dr. of Geological and Mineralogical Sciences, Senior Researcher | Melnikov Permafrost Institute 677010, Yakutsk, 36 Merzlotnaya st. Теl.: (4112) 334-476 E-mail: MelnikowDron@mail.ru |
|  | Pavel Menshchikov Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-90-11  E-mail: [menshikovpv@mail.ru](mailto:menshikovpv@mail.ru) |
|  | Tatiana Merkulova Dr. of Geological and Mineralogical Sciences, Senior Researcher | Kosygin Institute of the Tectonics and Geophysics of the Far Eastern Branch of the Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Теl.: (4212) 22-71-89 E-mail: [merculova@itig.as.khb.ru](mailto:merculova@itig.as.khb.ru) |
|  | Natalia Miletenko Dr. of Engineering, Senior Researcher | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik Теl.: (495) 360-89-60 E-mail: [nmilet@mail.ru](mailto:nmilet@mail.ru) |
|  | Gadzhi Mirzekhanov Dr. of Geological and Mineralogical Sciences, Head Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [mgs\_gold@mail.ru](mailto:mgs_gold@mail.ru) |
|  | Zoia Mirzekhanova Dr. of Geographical Sciences, Head Researcher | Institute of Water and Ecology Problems of Far Eastern Branch of Russian Academy of Sciences 680000, Khabarovsk, 56 Dikopolzeva st. Теl.: (4212) 22-75-73 E-mail: [lorp@ivep.as.khb.ru](mailto:lorp@ivep.as.khb.ru) |
|  | Vladimir Miroshnikov Dr. of Engineering, Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [mirosh19@bk.ru](mailto:mirosh19@bk.ru) |
|  | Natalia Mitishova Fellow Researcher | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik Теl.: (495) 360-49-04 E-mail: [geo-science@mail.ru](mailto:geo-science@mail.ru) |
|  | Valeriy Mikheev Dr. of Engineering, Head of the Laboratory | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30 E-mail: igds@ysn.ru |
|  | Tatiana Moskalenko Dr. of Engineering, Senior Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 678962, Neryungri, 25 Churapinskaya st. Теl.: (4114) 76-98-44 E-mail: [labkiy@mail.ru](mailto:labkiy@mail.ru) |
|  | Shuchrat Mukhitdinov | Tashkent State Technical University  Tashkent, Uzbekistan |
|  | Natalia Nemova Dr. of Engineering, Senior Researcher | Chinakal Institute of Mining, Siberian Branch, Russian Academy of Sciences, Laboratory of Open-pit Mining 630091, Novosibirsk, 54 Krasnyy Prospekt st. Теl.: (383) 205–30–30, доб. 100 E-mail: [nemova-nataly@mail.ru](mailto:nemova-nataly@mail.ru) |
|  | Maria Nemchaninova Dr. Of Economic Sciences, Associate Professor, Head of the Department | Far Eastern State Transport University 680021, Khabarovsk, 47 Serysheva st. Теl.: (4112) 40-71-33 E-mail: pmdel@mail.ru |
|  | Nadexhda Nikolaeva Dr. of Engineering, Associate Professor | Federal State Budgetary Institution of High Education “Saint Petersburg Mining Institute” 199106, St. Petesburg, 21-Ya Liniya, 2 Теl.: (812) 328-82-85 E-mail: Nikolaeva\_NV@pers.spmi.ru |
|  | Yuri Novikov Student | Irkutsk National Research Technical University 664074, Irkutsk, 83 Lermontova st. Теl.: (3952) 405-000 E-mail: 89500505553r@gmail.com |
|  | Vladimir Odintsev Dr. of Engineering, Lead Researcher | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik Теl.: (495) 360-89-60 E-mail: Odin-VN@yandex.ru |
|  | Julia Ozaryan Dr. of Engineering, Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [ozaryanigd@gmail.com](mailto:ozaryanigd@gmail.com) |
|  | Irina Osipova Dr. of Engineering, Senior Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-44-76  E-mail: [minesur@mail.ru](mailto:minesur@mail.ru) |
|  | Oleg Ochosov Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30 E-mail: ochos@mail.ru |
|  | Andrey Panzhin Dr. Of Engineering, Academic Secretary | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-44-76  E-mail: [panzhin@igduran.ru](mailto:panzhin@igduran.ru) |
|  | Natalia Panzhina Fellow Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-44-76  E-mail: [panzhina@bk.ru](mailto:panzhina@bk.ru) |
|  | Dmitry Petrov Dr. of Engineering, Senior Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30 E-mail: petrovdn74@mail.ru |
|  | Alexandr Petukhov Researcher | Transbaikal State University 672039, Chita, 30 Alexandro-Zavodskaya st. Теl.: (3022) 41-64-44 E-mail: petuhovss7469@mail.ru |
|  | Andrey Plotnikov | AVT-Amur LLC 675000, Blagoveshchensk |
|  | Artem Popov Fellow Researcher | Institute of Engineering and Metallurgy FEB RAS 681005, Komsomolsk-on-Amur, 1 Metallurgov st. Теl.: (4217) 54-95-39 E-mail: popov.av@protonmail.com |
|  | Marina Potapchuk Dr. of Engineering, Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [potapchuk-igd@mail.ru](mailto:potapchuk-igd@mail.ru) |
|  | Valery Predein Dr. of Engineering, Researcher | Institute of Engineering and Metallurgy FEB RAS 681005, Komsomolsk-on-Amur, 1 Metallurgov st. Теl.: (4217) 54-95-39 E-mail: mail@imim.ru |
|  | Konstantin Prokhorov Dr. of Engineering, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [kostyan1986\_ne@mail.ru](mailto:kostyan1986_ne@mail.ru) |
|  | Dmitry Radchenko Dr. of Engineering, Senior Researcher | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik st. Теl.: (495) 360-49-04 E-mail: [mining\_expert@mail.ru](mailto:mining_expert@mail.ru) |
|  | Igor Rasskazov Corresponding Member of the Russian Academy of Sciences, Dr. of Engineering, Scientific Director of Institute | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [rasskazov@igd.khv.ru](mailto:rasskazov@igd.khv.ru) |
|  | Maxim Rasskazov Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [rasm.max@mail.ru](mailto:rasm.max@mail.ru) |
|  | Anna Rasskazova Dr. of Engineering, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [annbot87@mail.ru](mailto:annbot87@mail.ru) |
|  | Artem Rozhkov Dr. of Engineering, Senior Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-71-28 E-mail: [geotech@igduran.ru](mailto:geotech@igduran.ru) |
|  | Ivan Rozanov Researcher | Mining Institute KSCRAS 184209, Apatity, 24 Fersmana st. Теl.: (81555) 57-43-34 E-mail: ivan-rozanov@yandex.ru |
|  | Elena Romanova Dr. of Engineering, Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 39-00-67 E-mail: helconst@mail.ru |
|  | Artem Romashev Dr. of Engineering, Associate Professor | Federal State Budgetary Institution of High Education “Saint Petersburg Mining Institute” 199106, St. Petesburg, 21-Ya Liniya, 2 Теl.: (812) 328-82-85 E-mail: romashev\_ao@pers.spmi.ru |
|  | Yury Rubtsov Dr. of Engineering, Professor, Head of the Laboratory | Transbaikal State University 672039, Chita, 30 Alexandro-Zavodskaya st. Теl.: (3022) 41-64-44 E-mail: jri.rubtsow@yandex.ru |
|  | Marina Rylnikova Dr. of Engineering, Professor, Lead Researcher, Head of the Department | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik st. Теl.: (495) 360-49-04 E-mail: [rylnikova@mail.ru](mailto:rylnikova@mail.ru) |
|  | Denis Savvin Dr. of Engineering, Senior Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 39-00-43 E-mail: [deophysic@mail.ru](mailto:deophysic@mail.ru) |
|  | Svetlana Salomatova Dr. of Engineering, Academic Secretary | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 39-00-43 E-mail: salomatova@igds.ysn.ru |
|  | Luisa Samatova Dr. of Engineering, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [samatova\_luiza@mail.ru](mailto:samatova_luiza@mail.ru) |
|  | Artur Sekisov Dr. of Engineering, Deputy Director | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [sekisovag@mail.ru](mailto:sekisovag@mail.ru) |
|  | Gennady Sekisov Dr. of Engineering, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [sekisovag@mail.ru](mailto:sekisovag@mail.ru) |
|  | Sergey Sentyabov Dr. of Engineering, Lead Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-94-24  E-mail: [Sentyabov1989@mail.ru](mailto:Sentyabov1989@mail.ru) |
|  | Ruslan Seryy Dr. of Engineering, Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [Ruslan\_SSR@mail.ru](mailto:Ruslan_SSR@mail.ru) |
|  | Alexandr Sidlyar Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [alex-igd@mail.ru](mailto:alex-igd@mail.ru) |
|  | Galina Sklyarova Dr. of Geological and Mineralogical Sciences, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [sklуarova@igd.khv.ru](mailto:sklуarova@igd.khv.ru) |
|  | Artem Sobenin Fellow Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-21-86 E-mail: [geoeco@igduran.ru](mailto:geoeco@igduran.ru) |
|  | Alexei Sobolev Dr. of Engineering, Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [alexsoboll@mail.ru](mailto:alexsoboll@mail.ru) |
|  | Igor Sokolov Dr. of Engineering, Director | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-90-11  E-mail: [sokolov@igduran.ru](mailto:sokolov@igduran.ru) |
|  | Galina Sokolova Dr. Of Geographical Sciences, Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [galvadsok@mail.ru](mailto:galvadsok@mail.ru) |
|  | Dmitry Solovev Dr. of Engineering, Senior Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30 E-mail: Solovjevde@igds.ysn.ru |
|  | Elena Sosnovskaya Dr. of Geological and Mineralogical Sciences, Associate Professor, Senior Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 355-19-60 E-mail: [avdeev0706@mail.ru](mailto:avdeev0706@mail.ru) |
|  | Valentina Stepanova Engineer | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: |
|  | Sergey Suknev Dr. of Engineering, Head of the Laboratory | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: 4112) 39-06-94 E-mail: suknyov@igds.ysn.ru |
|  | Vitaly Taganov Engineer | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [street-dv@mail.ru](mailto:street-dv@mail.ru) |
|  | Irina Talovina Dr. of Geological and Mineralogical Sciences, Associate Professor, Head of the Department | Federal State Budgetary Institution of High Education “Saint Petersburg Mining Institute” 199106, St. Petesburg, 21-Ya Liniya, 2 Теl. (812) 328-84-17 E-mail: talovina\_iv@pers.spmi.ru |
|  | Andrey Tereshkin Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [andrey.tereshkin@bk.ru](mailto:andrey.tereshkin@bk.ru) |
|  | Sergey Tkach Dr. of Engineering, Director | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 39-00-41 E-mail: tkach@igds.ysn.ru |
|  | Vitaly Trofimov Dr. of Engineering, Lead Researcher | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik st. Теl.: (495) 360-89-60 E-mail: [asas\_2001@mail.ru](mailto:asas_2001@mail.ru) |
|  | Sergey Turkov Dr. of Economic Sciences, Senior Researcher | Computer Center of the Far Eastern Branch of the Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Теl.: (4212) 21-12-04 E-mail: slturkov@gmail.com |
|  | Svetlana Tusikova Fellow Researcher | Kosygin Institute of the Tectonics and Geophysics of the Far Eastern Branch of the Russian Academy of Sciences 680000, Khabarovsk, 65 Kim Yu Chena st. Теl.: (4212) 22-71-89 [svetabon@list.ru](mailto:svetabon@list.ru) |
|  | Vitaly Usikov Dr. of Economic Sciences, Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [v-i-usikov@yandex.ru](mailto:v-i-usikov@yandex.ru) |
|  | Albert Usmanov Graduate Student | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-21-86 E-mail: [albert3179@mail.ru](mailto:albert3179@mail.ru) |
|  | Vladislav Fedorov Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30 E-mail: fonariwe@gmail.com |
|  | Evgeny Fedorov Dr. of Engineering, Head of Division | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik st. Теl.: (495) 360-89-60 E-mail: [evfedorov58@gmail.com](mailto:evfedorov58@gmail.com) |
|  | Maxim Fedorov | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30 |
|  | Larisa Fedorova  Dr. of Engineering, Associate Professor, Lead Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 33-59-30 E-mail: Lar-fed-90@rambler.ru |
|  | Viktor Fedotenko Dr. of Engineering, Academic Secretary | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik st. Теl.: (495) 360-89-60 E-mail: victorfedotenko@gmail.com |
|  | Iuliia Fedotova Dr. of Engineering, Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [fjulia@mail.ru](mailto:fjulia@mail.ru) |
|  | Yuri Khokholov | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 39-00-60 |
|  | Evgeny Khoutanov Dr. of Engineering, Researcher | Chersky Institute of Mining of the North, Siberian Branch, Russian Academy of Sciences (IGDS SO RAN), 677980, Yakutsk, Russian Federation, 43 Prospekt Lenina st. Теl.: (4112) 39-00-60 E-mail: khoiutanov@igds.ysn.ru |
|  | Natalia Khrunina Dr. of Engineering, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [npetx@mail.ru](mailto:npetx@mail.ru) |
|  | Denis Tsoy Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [denis.tsoi@mail.ru](mailto:denis.tsoi@mail.ru) |
|  | Anton Cheban Dr. of Engineering, Lead Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [chebanay@mail.ru](mailto:chebanay@mail.ru) |
|  | Alla Chermoshentseva Dr. of Engineering, Associate Professor | Kamchatka State Technical University  683003, Petropavlovsk-Kamchatsky, 35 Klyuchevskaya st. Теl.: (415) 230-09-64 E-mail: allachermoshentseva@mail.ru |
|  | Ivan Chernev  Dr. of Engineering, Deputy Chief Engineer | Renewable Energy of JSC “Kamchatskenergo”  683009, Petropavlovsk-Kamchatsky, 60 Akademika Koroleva st. Теl.: (4152) 41-97-57 E-mail: Chernev-II@kamenergo.ru |
|  | Evgeny Shevkun Dr. of Engineering, Professor | Federal State Budgetary Institution of High Education “Pacific National University” 680035, Khabarovsk, 136 Tikhookeanskaya st. Теl.: (4212) 35-85-37 E-mail: ev.shevkun@yandex.ru |
|  | Elena Shepeta Dr. of Engineering, Senior Researcher | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: [elenashepeta56@mail.ru](mailto:elenashepeta56@mail.ru) |
|  | Sayera Shermatova | National University of Science and Technology MISIS 119049, Moscow, 4 Leninskiy Prospekt Теl.: (495) 955-00-32 |
|  | Ivan Shipovsky Dr. of Engineering, Senior Researcher | Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Sciences (IPKON RAS) 111020, Moscow, 4 Kryukovskiy Tupik st. Теl.: (495) 360-89-60 E-mail: [iv\_ev@mail.ru](mailto:iv_ev@mail.ru) |
|  | Grigoriy Shirman Fellow Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Siberyaka st. Теl.: (4112) 33-59-30 E-mail: shirman@inbox.ru |
|  | Lubov Shubina Researcher | Federal State Institution of Science Institute of Mining of the Ural Branch of the Russian Academy of Sciences, 620075 Yekaterinburg, Russia,  58 Mamina-Sibiryaka st. Теl.: (343) 350-21-86 E-mail: [las714@mail.ru](mailto:las714@mail.ru) |
|  | Aleksandr Shulyupin Dr. of Engineering, Associate Professor, Officer-in-Charge of Director | Federal State Budgetary Institution of Science Institute of Mining of the Far Eastern Branch of the Russian Academy of Sciences (IGD FEB RAS)  680000, Khabarovsk, 51 Turgeneva st. Теl.: (4212) 32-79-27 E-mail: ans714@mail.ru |
|  | Nakhypbek Aldiyarov  Dr. of Physics and Mathematics, Professor | Satbayev University 050013, Republic of Kazakhstan, Almaty, 22 Satpaeva st. E-mail: n.aldiyarov@satbayev.university |
|  | Abdakim Ashimbaev | Kyrgyz State Technical University  720044, Kyrgyzstan, Bishkek, 66 Pr. Mira st. |
|  | Dosanbay Bekbergenov | D.A. Kunayev Mining Institute  050046, Republic of Kazakhstan, Almaty, 191 Prospekt Abaya st. |
|  | Arturo Bravo | Freiberg University of Mining and Technology, Institute Of Mineralogy D-09599 Freiberg, Germany, 14 Brennhausgasse st. |
|  | Konstantin Vasin Senior Researcher | D.A. Kunayev Mining Institute  050046, Republic of Kazakhstan, Almaty, 191 Prospekt Abaya st. Теl.: (777) 255-99-84 E-mail: Kvas2500@mail.ru |
|  | Veselina Gospodinova | University of Mining and Geology  “St. Ivan Rilsky”1700, Bulgaria, Sofia |
|  | Gulnar Dzhangulova Dr. of Engineering,  Senior Researcher | Al-Farabi Kazakh National University  050046, Republic of Kazakhstan, Almaty E-mail: gulnar\_zan@mail.ru |
|  | Erik Edygenov  Dr. of Engineering, Academician at the Academy of Mineral Resource Republic of Kazakhstan, Head of Division | D.A. Kunayev Mining Institute  050046, Republic of Kazakhstan, Almaty, 191 Prospekt Abaya st. Теl.: +7 (727) 376-98-02 E-mail: e.k.edigenov@rambler.ru |
|  | Khaini-Kamal Kasymkanova | Al-Farabi Kazakh National University  050046, Republic of Kazakhstan, Almaty |
|  | Kamchibek Kozhogulov  Corresponding Member of National Academy of Science, Professor,  Dr. of Engineering, Director | National Academy of Science  of Kyrgyz Republic, Institute of Geomechanics and Mining  720055, Kyrgyz Republic, Bishkek, 98 Mederova st. Теl.: + 996 (312) 54-11-15 E-mail: ifmgp@yandex.ru |
|  | V. Korolev | Advanced Recovery, Cal.USA |
|  | Paul Korpi  Vice-president for Project Development | Amur Minerals LLC 680000, Khabarovsk, 94 Kalinina st., Office №18 E-mail: pakorpi@igcopper.net |
|  | Oleg Popov | Technical University Bergakademie Freiberg, Freiberg, Germany 09599, Germany, Freiberg, 4 Lampadiusstrabe st. |
|  | Dmitrij Son | Coal Department JSC "ArselorMittalTemirtau", Department of Geoforcast and Geomechanics  101200, Kazakhstan, Saran |
|  | Gerhard Heide | Freiberg University of Mining and Technology, Institute Of Mineralogy D-09599 Freiberg, Germany, 14 Brennhausgasse st. |
|  | Anzanpour Sina | University of Wollongong, School of Civil, Mining and Environmental Engineering PO Box 2522, NSW, Australia Тел.: +61 2242 213 449 |
|  | Aziz Naj Professor, Research Professor in mine ground control | University of Wollongong, School of Civil, Mining and Environmental engineering PO Box 2522, NSW, Australia Теl.: +61 2242 213 449 E-mail: naj@uow.edu.au |
|  | Jörg Benndorf | TU Bergakademie Freiberg, Institute for Mine Surveying and Geodesy 09599 Freiberg, Germany |
|  | Mehmet Bilen | Zonguldak Bulent Ecevit University Turkey |
|  | Abdalla Elbendari | Central Metallurgical Research and Development Institute (CMRDI) 11668 Cairo |
|  | Haifeng Guo | School of Civil and Resource Engineering, University of Science and Technology Beijing 100083 Beijing, China Key Laboratory of Ministry of Education for Efficient Mining and Safety of Metal Mine, University of Science and Technology Beijing 100083 Beijing, China |
|  | Xueqiu He Professor, University teacher | School of Civil and Resource Engineering, University of Science and Technology Beijing  No. 30, Xueyuan Road, Haidian District, Beijing, China Теl.: +86 13910871686 E-mail: hexq@ustb.edu.cn  Key Laboratory of Ministry of Education for Efficient Mining and Safety of Metal Mine, University of Science and Technology Beijing 100083 Beijing, China |
|  | Peter Henning Director | SIEMAG TECBERG group Germany, Haiger,  Теl.: +49 221 99892 700, +7 (495) 625-19-13 E-mail: info@mbe-cmt.com [mbe\_ru@mail.ru](mailto:mbe_ru@mail.ru) |
|  | Holger Lieberwirth Dr. of Engineering, Dean | Technical University Bergakademie Freiberg, Freiberg, Germany 09599, Germany. Freiberg, 4 Lampadiusstrabe st.  E-mail: [Holger.Lieberwirth@iam.tu-freiberg.de](mailto:Holger.Lieberwirth@iam.tu-freiberg.de) |
|  | Jianyong Qiao | School of Energy and Mining Engineering, China University of Mining and Technology-Beijing 100083, China, Beijing Beijing University of Posts and Telecommunications 100876, China, Beijing |
|  | Jingli Zhao | School of Energy and Mining Engineering, China University of Mining and Technology-Beijing 100083, China, Beijing |
|  | Khaleghparast Saman | University of Wollongong, School of Civil, Mining and Environmental engineering PO Box 2522, NSW, Australia Теl.: +61 2242 213 449 |
|  | Anna Lejzerowicz | Faculty of Civil Engineering, Warsaw University of Technology Armii Ludowej, 16, 00-637, Warsaw, Poland Faculty of Civil Engineering, Warsaw University of Technology |
|  | Zhenlei Li | School of Civil and Resource Engineering, University of Science and Technology Beijing 100083 Beijing, China Key Laboratory of Ministry of Education for Efficient Mining and Safety of Metal Mine, University of Science and Technology Beijing 100083 Beijing, China |
|  | Mustapha Adam | Future Industries Institute, University of South Australia Adelaide, Australia |
|  | Liming Qiu | School of Civil and Resource Engineering, University of Science and Technology Beijing 100083 Beijing, China Key Laboratory of Ministry of Education for Efficient Mining and Safety of Metal Mine, University of Science and Technology Beijing 100083 Beijing, China |
|  | Alex Remennikov | University of Wollongong Wollongong Australia, Теl.:61 242213449 |
|  | Ren Ting Dr Prof, University Professor | University of Wollongong, School of Civil, Mining and Environmental engineering PO Box 2522, NSW, Australia Теl.: +61 4221 4186 E-mail: [tren@uow.edu.au](mailto:tren@uow.edu.au) |
|  | Dazhao Song | School of Civil and Resource Engineering, University of Science and Technology Beijing 100083 Beijing, China Key Laboratory of Ministry of Education for Efficient Mining and Safety of Metal Mine, University of Science and Technology Beijing 100083 Beijing, China |
|  | Lihai Tan | University of Wollongong, School of Civil, Mining and Environmental engineering PO Box 2522, NSW, Australia Теl.: +61 4221 4186 E-mail: |
|  | Tatsumi Hitachi | JEOL Ltd., 1-2 Musashino 3-Chome, Akishima Tokyo 196-8558, Japan |
|  | Honglei Wang | School of Civil and Resource Engineering, University of Science and Technology Beijing 100083 Beijing, China Key Laboratory of Ministry of Education for Efficient Mining and Safety of Metal Mine, University of Science and Technology Beijing 100083 Beijing, China |
|  | Xiaohan Yang | University of Wollongong, School of Civil, Mining and Environmental engineering, PO Box 2522, NSW, Australia Теl.: +61 4221 4186 E-mail: xy987@uowmail.edu.au |
|  | Zhang Ze Dr. of Geological and Mineralogical Sciences | State Key Laboratory of Frozen Soil Engineering Northwest Institute of Eco-Environment and Resources, CAS 326 W. Donggang Rd., Lanzhou, China 730000 |
|  | Zehua Su | School of Energy and Mining Engineering, China University of Mining and Technology-Beijing 100083, China, Beijing |
|  | Zhiqiang Wang | School of Energy and Mining Engineering, China University of Mining and Technology-Beijing 100083, China, Beijing E-mail: wzhiqianglhm@126.com  National University of Science and Technology MISIS 119049, Moscow, 4 Leninskiy Prospekt Тel.: (495) 955-00-32 |