



## PROGRAMME

### VII International scientific conference

### "PROBLEMS OF COMPLEX DEVELOPMENT OF GEORESOURCES"

*The conference is held in a year of the 35 anniversary of Mining Institute FEB RAS*

**September 25-27, 2018.**

**Khabarovsk, Russia**

#### CONFERENCE ORGANIZERS & COMMITTEE

Chairman of the

Organizing Committee

**Rasskazov I.Yu.**, Dr. of Engineering, Director of Mining Institute the far Eastern branch of Russian academy of sciences

Assistant

Chairman

**Shulyupin A.N.**, Dr. of Engineering, Assistant Director Mining Institute the far Eastern branch of Russian academy of sciences

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**Arkhipova Yu.A.**, PhD in Econ. (Mining Institute FEB RAS, Khabarovsk, Russia)

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**Zubkov V. P.**, PhD in Engineering (Mining Institute of the North, Siberian Branch of the Russian Academy of Science, Yakutsk, Russia)

**Korneeva S.I.**, PhD in Engineering (Mining Institute FEB RAS, Khabarovsk, Russia)

**Kurilko A.S.**, Dr. of Engineering (Mining Institute of the North, Siberian Branch of the Russian Academy of Science, Yakutsk, Russia)

**Prokhorov K.V.**, PhD in Engineering (Mining Institute FEB RAS, Khabarovsk, Russia)

**Salomatova S.I.**, PhD in Engineering (Mining Institute of the North, Siberian Branch of the Russian Academy of Science, Yakutsk, Russia)

#### Program committee:

**Rasskazov I.Yu.** – Dr. of Engineering, Chairman of the Organizing Committee (Mining Institute FEB RAS, Khabarovsk, Russia)

**Tkach S.M.** – Dr. of Engineering, Assistant Chairman of the committee (Mining Institute of the North, Siberian Branch of the Russian Academy of Science, Yakutsk, Russia)

#### Members of the program committee:

**Alexandrova T.N.** – Dr. of Engineering (Saint-Petersburg Mining University, St. Petersburg, Russia)

**Baryakh A.A.** – associate member of the Russian Academy of Sciences (Perm federal research center Ural branch RAS, Perm, Russia)

**Buktukov N.S.** – associate member of the Kazakh Academy of Sciences (National center for complex processing of mineral raw materials of the Republic of Kazakhstan, Almaty city, The Republic of Kazakhstan)

**Gibson, Peter R.** – Dr. (Assoc. Prof., University of Wollongong, Australia)

**Goryachev N.A.** – associate member of the Russian Academy of Sciences (Northeast Complex Research Institute Far Eastern branch RAS, Magadan, Russia)

**Zaharov V.N.** – associate member of the Russian Academy of Sciences (Institute of problems of complex development of a subsoil RAS, Moscow, Russia)

**Zlatev Metodi** – Dr.-Ing. (Haver and Boecker Niagara, Munsten, Germany)

**Ivanchenko S.N.** – Dr. of Engineering (Pacific National University, Khabarovsk, Russia)  
**Kemal Baris** – Dr. (Assoc. Prof., Bulent Ecevit University Kilimli, Zonguldak, Turkey)  
**Klishin V.I.** – associate member of the Russian Academy of Sciences (Federal research center of coal and coal chemistry of the Siberian branch RAS, Kemerovo, Russia)  
**Kojegulov K.Ch.** – associate member of the Kazakh Academy of Sciences (Institute of Geomechanics and Development Of The Subsoil, Bishkek, Republic of Kyrgyzstan)  
**Kornilkov S.N.** – Dr. of Engineering (Mining Institute Ural branch RAS, Yekaterinburg, Russia)  
**Korolev Vyacheslav** – DPh ("Active Metal", USA)  
**Korpi Paul** – Project Development (Vice President "Amur Minerals", USA)  
**Lieberwirth Holger** – Prof., Dr.-Ing. (Institute of Mineral Processing Machines, Freiberg, Germany)  
**Lukichev S.V.** – Dr. of Engineering (Geological institute of the Kola scientific center RAS, Apatity, Russia)  
**Melnikov N.N.** – member of the Russian Academy of Sciences (Geological institute of the Kola scientific center RAS, Apatity, Russia)  
**Naj Aziz** – Prof. (University of Wollongong, Australia)  
**Trubetskoy K.N.** – member of the Russian Academy of Sciences (Institute of problems of complex development of a subsoil RAS, Moscow, Russia)  
**Hanchuk A.I.** – member of the Russian Academy of Sciences (Far Eastern Geological Institute RAS, Vladivostok, Russia)  
**Yakovlev V.L.** – associate member of the Russian Academy of Sciences (Mining Institute Ural branch RAS, Yekaterinburg, Russia).

**Tuesday, September 25, 2018**

09:30 - 10:00 – Registration of participants  
10:00 - 13:00 – Plenary session  
13:00 - 14:00 – Buffet lunch  
14:00 - 17:30 – Plenary session  
18:00 - 20:00 – Gala dinner

**Wednesday, September 26, 2018**

10:00 - 13:00 – Working in sessions  
13:00 - 14:00 – Buffet lunch  
14:00 - 17:30 – Working in sessions  
18:00 - 20:00 – Excursion "Evening Khabarovsk"

**Thursday, September 27, 2018**

10:00 - 13:00 – Round table  
13:00 - 14:00 – Buffet lunch  
14:00 - 17:30 – Excursion "On the waves of the Amur River"

The regulations of presentation:

**Presentation at the plenary session** – 10–15 minutes

**Presentation at the Working in sessions** – 8–10 minutes

For all questions contact to

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## **PLENARY SESSION**

*K. Marx str., 56, of. Five hundred two  
Meeting room of the Khabarovsk Krai Government*

### **THE PRESIDIUM:**

**Igor Y. Rasskazov**, Dr. of Engineering, Director of the Mining Institute the far Eastern branch of Russian academy of sciences, Khabarovsk

**Viktor V. Bardyuk**, Deputy Minister of Natural Resources of the Krai - Head of the Department of Natural Resources, Khabarovsk

**Nikolay M. Ischuk**, head of subsoil use Department of the Ministry of natural resources of Khabarovsk territory, Khabarovsk

**Kamchibek Ch. Kozhigulov**, Dr. of Engineering, Director of the Institute of Geomechanics and Subsoil Development of the National Academy of Sciences of Kyrgyzstan, Bishkek

**Sergey V. Kornilkov**, Dr. of Engineering, Professor, Director of the Institute of Mining of the Ural Branch of the Russian Academy of Sciences, Ekaterinburg

**Sergey V. Lukichev**, Dr. of Engineering, Director of the Mining Institute of the Kola Science Center of the Russian Academy of Sciences, Apatity

### **PROGRAM OF PLENARY REPORTS**

**Viktor V. Bardyuk**, Deputy Minister of Natural Resources of the Krai - Head of the Department of Natural Resources, Khabarovsk, Russian Federation – *Welcoming address to the conference participants*

**Nikolay M. Ishchuk**, head of subsoil use Department of the Ministry of natural resources of Khabarovsk territory, Khabarovsk, Russian Federation – *Main directions of development and problem of a mining complex of Khabarovsk Territory.*

**Igor Y. Rasskazov**, Dr. of Engineering, Director of the Mining Institute the far Eastern branch of Russian academy of sciences, Khabarovsk, Russian Federation – *Non-uniformly scaled researches of the deflected mode in the area of the burst hazard ore deposits in the Eastern Primorye Territory.*

**Naj Aziz** – Prof., University of Wollongong, Australia – *States and prospects of development of Australian coal industry.*

**Kamchibek Ch. Kozhigulov**, Dr. of Engineering, Director of the Institute of Geomechanics and Subsoil Development of the National Academy of Sciences of Kyrgyzstan, Bishkek, Kyrgyz Republic – *Research of a section and pyramidal method of formation of a cutting cavity.*

**Sergey V. Kornilkov**, Dr. of Engineering, Professor, Director of the Institute of Mining of the Ural Branch of the Russian Academy of Sciences, Ekaterinburg, Russian Federation – *Perspective deposits of complex iron-ore raw materials of the Urals and new technologies of its processing.*

**Sergey V. Lukichev**, Dr. of Engineering, Director of the Mining Institute of the Kola Science Center of the Russian Academy of Sciences, Apatity, Russian Federation – *Computer model operation for problem solving in the sphere of mining technology and mineral processing.*

**Tatiana N. Alexandrova**, Dr. of Engineering, Saint-Petersburg Mining University, St. Petersburg, Russian Federation – *The selective disintegration: theory and practice.*

**Viktor S. Litvintsev**, Dr. of Engineering, chief researcher of the Mining Institute the far Eastern branch of Russian academy of sciences, Khabarovsk, Russian Federation – *State and the main directions of innovative development of alluvial gold mining in the Far Eadtern Federal District.*

**Sergey M. Tkach**, Dr. of Engineering, Mining Institute of the North, Siberian Branch of the Russian Academy of Science, Yakutsk, Russian Federation – *Problems of management of quality loss and amount of mineral raw materials in the process of development the large-scale and complex-structured deposits.*

**Vladimir V. Makarov**, Dr. of Engineering, Professor, far Eastern Federal University, Vladivostok, Russian Federation – *The principles of application of micromechanics methods in the process of*

*model operation of dissipative mesofracture structures of highly compressed rocks and massifs.*

**Victor L. Yakovlev**, associate member of the Russian Academy of Sciences, Mining Institute Ural branch of the Russian Academy of Science, Yekaterinburg, Russian Federation – *Research of transient phenomena is a recent trend of development of methodological approach to the solution of problems of complex development of georesources.*

## **SESSION WORK**

### **Agenda of the session «Geotechnological and geomechanical problems of development of subsoil»**

*K. Marx str., 56, of. Two hundred*

*Marble hall of the Khabarovsk Krai Government*

*Moderators:*

**Igor Y. Rasskazov**, Dr. of Engineering, Director of the Mining Institute the far Eastern branch of Russian academy of sciences, Khabarovsk, Russian Federation

**Victor L. Yakovlev**, associate member of the Russian Academy of Sciences, Mining Institute Ural branch of the Russian Academy of Science, Yekaterinburg, Russian Federation

*Zharikov S.N., Kutuyev V.A.* Influence of dynamics of development of open mining operations on technological features of an explosive break.

*Regotunov A. S., Sukhov R.I.* Model operation and a research of strength properties of rocks on gaged parameters in the course of drilling of explosive wells.

*Sinityn V.A., Menshikov P.V., Kutuyev V.A.* Assessment of influence of explosive characteristics of emulsion explosive material to the breakdown of rock mass.

*Balek A.E., Sashurin A.D.* In-situ measurements of the stress of the rock massif in scales of deposit: problems and decisions.

*Sashurin A.D., Panzhin A.A.* The Role of the modern geodynamic movements in formation of geomechanical problems in subsurface use.

*Vasin K.A., Edygenov E.K., Voronin V.V.* Development of an electronic control unit and a research of dynamic and power characteristics of an electromagnetic hammer for destruction of oversize lumps.

*Mirzekhanov G.S., Mirzekhanova Z.G.* Major factors defining possible standard shape a gravel and fines of dumps of gold alluvial deposit tailings.

*Litvintsev V.S., Alekseev V.S., Stolen I.A., Usikov V.I.* Technology of development of the nearly located secondary gold alluvial deposit.

*Seryi R.S., Golovkin S.A., Kuchmenko A.V.* Research of regularities of distribution of platinum and gold on sluice devices in the process of development of the field of the Uorgolan River.

*Gevalo K.V.* Technology of hydro-mining for the development of the deep-laying and flooded alluvial deposits.

*Cheban A. Yu., Hrunina N.P.* Perfecting of mining of natural and processing of secondary mineral raw materials.

*Cheban A. Yu., Sekisov G. V., Hrunina N. P.* Technology of application and design features of cars of layerwise milling.

*Shulyupin A.N., Varlamova N.N.* Steam-water mixture transport at geothermal field development.

*Chermoshentseva A.A., Shulyupin A.N.* Problems of steam-water well hydraulics at geothermal field development.

*Suknev S.V.* Nonlocal criteria of brittle and quasi-brittle failure of geomaterials and rocks.

*Rasskazov I.Yu., Shkabarnya N.G., Shkabarnya G.N., Nechayeva E.V.* Research of mining-and-geological conditions of coal fields of the South of the Far East by electroinvestigation methods.

*Gladyr A.V., Miroshnikov V.I., Konstantinov A.V.* Perfecting of software and hardware of the geodynamic ground of the Streltsovsky ore field.

*Konstantinov A.V., Gladyr A. V., Miroshnikov V.I.* Development of the multi-channel device of local monitoring of burst-hazard massif.

*Gladyr A.V., Miroshnikov V.I.* Development of a way of identification of focal zones by results of seismoacoustic monitoring.

*Potapchuk M.I., Kryukov V.G., Kursakin G.A., Sidlyar A.V., Lomov M.A.* Substantiation of safe and effective conditions of development of under quarry stocks of the gold Pioneer deposit.

*Rasskazov M.I., Tereshkin A.A., Tsoi D.I., Potapchuk M.I., Sekisov A.G., Kryukov V.G., Usikov V.I.* Geomechanical assessment of safety measures in the process of development of Southern-Khingansk manganese ore deposit.

*Sidlyar A.V., Potapchuk M.I., Tereshkin A.A., Rasskazov M.I.* Assessment of the impact of tectonic structure of Nikolaev deposit to the deflected mode of rock massif.

*Tereshkin A.A., Anikin P.A., Gladyr A.V., Storozhenko M.I.* Express assessment of burst-hazard of the rock massif by the geoacoustic method.

*Anikin P.A., Sidlyar A.V., Tereshkin A.A., Gladyr A.V., Rasskazov M.I.* Results of monitoring of burst-hazard on the Kukisvumchorr deposit by the automated seismoacoustic Prognoz-ADS system.

*Rochev V.F.* Research of a possibility of application of a method of well hydro-mining on the gold alluvial deposit Srednyaya Larba.

*Bakhturin Yu.A.* Universal imitating model of functioning of career transport.

*Krinitsyn R.V., Khudyakov S.V.* The Research of the deflected mode of the rock massif in "Magnesite" mine located under JSC "Russian Railways" railway and river B. Satk.

*Shkabarnya N.G., Shkabarnya G.N.* Possibilities of detailed studying of a structure of mineral deposits by electric tomography method by the application of systems of observations "well-surface".

*Sanfirov I.A., Stepanov Yu.I., Baybakova T.V., Taynitsky A.A.* Forecast of lithologic variability of water protective thickness by results of complex interpretation of seismic-electroprospecting data.

*Lygovoï V.A., Rasskazov I.Y., Gladyr A.V., Tsoi D.I., Rasskazov M.I., Tereshkin A.A.* Deformation waves as a trigger mechanism of activation of geomechanical processes inside the burst-hazard massif.

*Sekisov G.V.* Systemic complex of key parameters of mining technologies.

*Trubetskoy K.N., Galchenko Yu.P., Eremenko V.A.* Underground geotechnologies with the active management of secondary stressed states of rock massifs.

*Regotunov A.S., Antonov V.A.* Model operation of development of drilling operations on iron-ore pits.

*Rozanov A.O., Tereshkin A.A.* Determination of category of burst-hazard of underground caving in Hibin mines of apatite-nepheline deposit by acoustic emission method.

*Usoltceva L.A., Lushpey V.P., Grigoriev A.A.* Testing results by radar-tracking systems of surveying monitoring of stability of nearby the pit edge massif.

*Golosov A.M., Makarov V.V.* Correlation of reversible linear deformation and formation of meso-fracture structure in a highly compressed rock sample.

*Ksendzenko L.S., Makarov V.V.* Dependence of characteristics of zonal structure of destruction of the massif around the supported mining cave from the influencing factors.

*Opanasyuk N.A., Makarov V.V., Ogorodny A.A.* Features of anchor fastening in the conditions of zonal destruction of the massif around underground developments.

*Gavrilov V.L., Batugina N.S., Hoyutanov E.A.* About the principles of development of mineral resources of a polar zone of Russia by small enterprises.

*Kurilko A.S., Starostin E.G., Nikiforova A.D., Tappyrova N.I.* Comparison of phase transitions of salts in model and natural solutions of Udachny deposit by differential scanning calorimetry.

*Panishv S.V., Alcová E.L., Maximov M.S., Kozlov D.S.* Research of process of excavation of the freezed blown-up permafrost rock massif by a dragline excavator.

*Kaymonov M.V., Kiselyov V.V., Popov V.I.* Prospect of the secondary mining of residual pillar of alluvial deposit of a cryolite zone.

*Makishin V.N., Ivanov V.I.* Accounting of coefficient of mineralization for the choice of breaking method of vein type ore bodies.

*Kozyrev A.A., Fedotova Yu.V., Kasparyan E.V.* Management of geomechanical processes is a basis of the choice of optimum technologies of development of mineral deposits.

*Danilov O.S., Grebenyuk I.V., Belov A.V.* Innovative method of drilling of prospecting wells with the application of electromagnetic microwave.

*Asanov V. A., Evseev A.V., Toksarov V.N., Beltyukov N. L., Udartsev A.A.* Monitoring of pillar deflected mode for the chamber system of development.

*Zubkov A.V., Selin K.V., Sentyabov S.V.* Monitoring of shift of an axis of a pit-shaft relatively the developed space.

*Zubkov A.V., Lipin Ya.I., Selin K.V.* Mechanism of flooding of the salt-mines and measure for its prevention.

*Leshchinskiy A.V., Lovtsov A.D., Kostiunina O.A.* Dynamic analysis of transformable gas permeable blasting mat.

*Kaplunov D.R., Bekbergenov D.K., Dzhangulova G.K.* Features of a solution of the problem of sustainable development of underground extraction of chromites on the deep horizons by application of the combined geotechnology.

*Sokolov K.O.* Application of Half transform for processing of georadar researches data of rock jointing.

*Nazarova L.A., Shkuratnik V.L., Nikolenko P.V.* Theoretical and pilot study of influence of conditions of contact of the deads rock containing coal seam on a massif deflected mode.

*Nazarova L.A., Nazarov L.A., Protasov M.I.* Tomography of the stratified carbon containing rock massif with use of approximation of structural elements by Chebyshev polynomial.

*Nazarova L.A., Panov A.V., Nazarov L.A., Golikov N.A., Karasenko A.P.* Evolution of hydrodynamic fields at rheological deformation of jointed and porous collectors.

*Fedorova L.L., Sokolov K.O., Prudetsky N.D.* Georadar models of alluvial deposits of cryolite zona in the conditions of open-cast mining.

*Savvin D.V.* Processing and interpretation of geophysical data when studying cryogenic processes and the phenomena in the rock massif.

*Kuliangding G.A.* Georadar-location technique within the limited space of mine excavations and on the composite billowy terrain.

*Panzhin A.A., Sashurin A.D.* Technique and results of a research of a rock massif deflected mode the at the mine enterprises of the Urals and Kazakhstan.

*Alenichev V.M.* Methods of increase in effectiveness of mining.

*Zhukov S.A., Salnikov I.V., Korchak P.A., Streshnev A.A.* Geodynamic condition of the rock massif and ensuring stability of mine excavations in the process of development of the block-pillar on +320m horizon (Yuksporsk deposit, Hibin rock massif).

*Zhuravlev A.G., Glebov I.A.* Regularities of influence of the career motor transport base and scale of r repair service on its technical and economic indicators.

*Mamayev D.V.* Numerical thermo hydrodynamic model operation of Koshelev geothermal system on Kamchatka.

*Prudetsky N.D., Sokolov K.O.* Assessment of radio-physical characteristics of georadar signals when studying sloping cracks in friable deposits of a cryolite zone.

Sosnovskaya E.L., Avdeev A.N., Krinitsyn R.V. Creation and development of system of monitoring stations of rock pressure on the "Mnogovershinny" mine.

## **Agenda of the session «Problems of complex processing of mineral raw materials and new technologies of mineral processing»**

*Dzerzhinsky str., 54, of. Five*

*Assembly hall of the Khabarovsk scientific center*

*Moderators:*

**Tatiana N. Alexandrova**, Dr. of Engineering, Professor, St. Petersburg Mining University, St. Petersburg, Russian Federation

**Andrey I. Matveev**, Dr. of Engineering, Institute of Mining of the North of the Siberian Branch of the Russian Academy of Sciences, Yakutsk, Russian Federation

*Sorokin A.P., Ageev O.A., Noskova L.P.* Concentrating of noble and rare metals from brown coals of the Sergeevs field by gravity and chemical methods (The Amur region, the Russian Federation).

*Sorokin A.P., Konyushok A.A.* Caustobioliths of coal series is the large resource potential of development of the Far East economy.

*Kiyenko L.A., Voronova O.V.* Development of technology of flotation of fluorite from secondary mineral raw materials of Prymorie Territory deposits, Russian Federation.

*Voronova O.V., Kiyenko L.A.* Research of prospects of use of ultrasound in technology of secondary processing of mineral technogenic raw materials.

*Gurman M.A.* Complex processing of ferromanganese ore.

*Samatova L.A., Shepeta E.D.* Research on washability of metasomatic ores and rocks of Vostok-2 deposit.

*Shepeta E.D., Samatova L.A.* Intensification of processing of skarn scheelite ores with application of ultrasonic processing.

*Sekisov A.G., Rasskazova A.V., Litvinova N.M., Konareva T. G.* Processing of refractory sulphide and carbonaceous gold ores by their preoxidation by the water-gas emulsions prepared in electrochemical and photochemical reactors.

*Sekisov A.G., Rasskazov M.I., Rasskazova A.V., Lavrov A.Yu., Bogomyakov R.V.* Perfecting of processing gold-silver refractory ores of the complex deposit of noble metals.

*Matveev I. A., Yeremeyeva N.G., Yakovlev B.V.* Theoretical and experimental studying of correlation between hydraulic size of particles and their thickness.

*T. Hitachi* Electronic microscopy for the research of mineral resources.

*Kornilkov S.V., Kantemirov V. D., Yakovlev A.M., Titov R.S.* Sorting out of technological types of Gusevogorsk deposit titanium-magnetite ores by methods of geoinformational model operation and preliminary estimation of their washability.

*Salomatova S.I.* Effectiveness of application of centrifugal flotation for the finish stage of processing of gold ore.

*Vinokurov V.R.* Intensification of milling process in a multiple impact-grinding machine TsMVU-800.

*Lebedev I.F.* New technologies of processing of mineral raw materials in relation to North conditions.

*Zhukov A.V.* Strategic directions of the combined electro-thermal processing of coal and carbonaceous mineral raw materials for the production of high-performance synthetic power supplies and not-fuel products.

*Sekisov A.G., Libervirz H., Rasskazova A.V., Konareva T.G., Lavrov A.Yu.* Research of processes of ore preparation for column and heap leaching.



*Sekisov A.G., Korpi P., Rasskazova A.V., Litvinova N.M., Konareva T.G.* Processing of the refractory ores containing dispersed gold with preoxidation by their water-gas emulsions prepared in electro-photochemical reactors.

*Sleptsova E.S. Yakovlev B.V.* Mathematical model operation of jigging process.

*Shirman G.V.* Research of processes of disintegration of hard-washable alluvial sands.

*Medkov M.A., Krysenko G.F., Epov D.G., P.V., Avramenko V. A. Bulrush.* Complex processing of titanium-REE containing raw materials.

*Osipov D.A.* Application of minerals density stratification for a grinding in a ball mill.

*Leonenko N.A.* Integration of fibro-optical lasers in mineral raw material processing.

*Vorsina E.V., Mikheyev VA., Moskalenko T.V.* Production of sorbents from brown coals of the Haranor field at impact of electromagnetic microwave.

*Lvov E.S.* Research of gold liberation in the course of ore impact milling at the ore preparation stage.

*Lebedev I.F., Lviv E.S., Osipov D.A., Gavrilyev D.M.* Possibility of application of dry technology of preliminary gold processing of ores on the example of the Gurbey deposit.

*Ochosov O.Y., Matveev A.I.* Separation of mineral particles by density in a centrifugal-vibration concentrator when exposed to directional vibration.

*Taskin A.V., Alekseyko L.N., Ivannikov S.I., Danilov O.S., Shalanin V.A., Elkin O.I.* Simulation modeling of operation of the vibration concentrator as a basis of increase in its effectiveness at the processing of industrial coal ash waste.

*Alekseev V.S., Bانشchikova T.S.* Use of nonconventional technologies for the extraction of gold from secondary alluvial deposits of the Trans-Amur Territory.

*Ivannikov S.I., Ageev O.A., Brotherly S. Yu., Medkov M.A., Shamray E.I., Yudakov A.A.* Processing and hydrometallurgy of gold slimes.

*Ivannikov S.I., Shamray E.I., Taskin A.V., Yudakov A.A.* Prospects and possibilities of use the coal ash wastage of the power enterprises of Primorsky Krai as technogenic mineral raw materials.

*Sorokin A.P., Ageev O.A.* Technology of gold concentrates production from products of combustion of brown coals of the Erkovetsk field (The Amur region, the Russian Federation).

*Makiyenko V.M., Romanov I.O., Sokolov P.V., Atenyaev A.V., Pervakov D.G.* Research of additional technological influences when forming wear-resistant coverings with use of mineral raw materials of the Far East region.

## ***Agenda of the session «Strategic, geo-environmental and economic problems of subsurface use»***

*51 Turgenev str., of. Nineteen*

*Conference hall of the Institute of mining of the far Eastern branch of the Russian Academy of Sciences*

*Moderators:*

**Marina V. Ryl'nikova**, Dr. of Engineering, Professor, Institute of integrated development of the Russian Academy of Sciences, Moscow, Russian Federation.

**Julia A. Arkhipova**, PhD in Econ., Mining Institute the far Eastern branch of Russian academy of sciences, Khabarovsk, Russian Federation.

*Bubnova M.B.* Application of data of remote sensing for the assessment of technogenic situations in mining regions of the South of the Far East.

*Kryukov V.G.* To the issue of revival of "aged" gold areas in Priamurye (Russia).



*Kradenyh I.A.* Assessment of investment attractiveness of development of secondary deposits of Khabarovsk Krai.

*Arkhipova Yu.A.* Methods of increase in financial stability of the enterprises of nonferrous metallurgy of the Far East region of the Russian Federation.

*Sklyarova G.F.* Geological-economic and cost assessment of mineral resources of Lower Amur district with the purpose of determination of its investment importance.

*Lipina L.N., Usikov V.I.* Methodological problems of researches of natural and natural-technological systems on the example of Primorsky Krai.

*Ozaryan Yu.A.* Distant diagnostics of biotic parameters in a zone of influence of the mining enterprises of the South of the Far East.

*Chmykhalova S.V.* Quality of the useful minerals as the factor influencing formation of a tailings.

*Alexandrova T.N., Kryukov V.G., Lavrik N.A., Litvinova N.M.* To the issue of platinum of some deposit of the Far East region.

*Grib N.N., Imayev V.S., Grib G. V.* Change of local seismicity in Southern Yakutsk mining region as a result to technogenic load of the geological environment.

*Bakhturin Yu.A.* Strategic, geo-ecological and economic problems of subsurface use.

*Lomakina N.V.* Formation of long-term competitiveness of the mineral sector in the strategy of innovative development of economy.

*Sekisov G. V., Cheban A.Yu.* Mining-and-geological ore and nonmetallic mineral uniformity and its systemic and hierarchical structure.

*Gavrilov V.L., Fedorov V.I.* Production strings at the development of remote deposits of the North.

*Aitmatov I.T., Alyoshin Yu.G., Torgoyev I.A.* Geoecology and mining development of highlands.

*Kaplunov D.R., Rylnikova M.V., Radchenko D.N.* New technological mode of the mining enterprise on a closing stage of development of gold fields.

*Rylnikova M.V., Radchenko D.N.* Substation of parameters of development of tailings dams taking into account regularities of structure and properties of technogenic massifs.

*Trubetskoy K.N., Pytalev I.A., Rylnikov A.G.* Robotization of mining as basis of ecologically balanced development of a subsoil.

*Nikiforova I.L., Lavenkov V. With, Jun Yu.A.* Choice of a way of stocks excavation of veins and mineralized zones on the basis of a simulation modeling.

*Rukovich A.V.* Geological structure and coal contents of Tokkinsk coal-bearing area of southern Yakut coal basin.

*Pisarenko M.V.* Assessment of technological prepared reserves of coal fields to the rational production development.

*Melnikov N.N., Kalashnik A.I., Kalashnik N.A., Zaporozhets D.V.* Systemic structure of multilevel geomonitoring of mining and oil-gas objects of the western part of the Russian sector of the Arctic.

*Biryukov V. V., Skorokhodov V. F., Nikitin R. M.* Forecast of results of separation of mineral particles at flotation of copper-nickel ores.

*Biryukov V.V., Skorokhodov V.F., Nikitin R.M., Kitaeva A.S.* Research of process of aggregation of suspended particles at a sewage purification of the industrial enterprises.

*Smirnov Yu.G., Eagles A.O.* Features of development of underground space for creation of nuclear power plants of low power in the Arctic regions of Russia.

*Makhinova A.F., Makhinov A.N.* Problem of chemical pollution of soils and ecological safety in the process of development of mineral deposits.

*Zuev P.I.* Use of GIS for the division into districts of the mined territories.

*Nevstruev V.G., Kozlova O.V.* Geophysical and petrophysical properties of location of porphyritic objects in Sikhote-Alin.