



2019

**PROBLEMS AND PROSPECTS
OF EFFECTIVE PROCESSING
OF MINERAL RAW MATERIALS
IN THE 21ST CENTURY**
(Plaksinsky Readings – 2019)



**PROGRAM
OF INTERNATIONAL CONFERENCE**
09-14 September 2019

IRKUTSK

**Problems and prospects of effective processing
of mineral raw materials in the 21st century**

PROGRAM

PLENARY LECTURES

<i>10 September 2019 - Tuesday</i>	
<i>Conference Hall of the Irkutsk National Research Technical University, Irkutsk</i>	
11⁰⁰-11³⁰	<i>Chanturiya V.A.</i> (Russia) The current state and key development trends of the Russian high-tech industry's mineral resource base
11³⁰-12⁰⁰	<i>Cyril O'Connor</i> (South Africa) Global challenges facing the mineral processing industry
12⁰⁰-12²⁰	<i>Dvoichenkova G.P., Chanturiya V.A.</i> (Russia) Modern trends in increasing the efficiency of separation processes of hard-to-beneficiate diamond-bearing raw materials
12²⁰-12⁴⁰	<i>Fedotov K.V., Senchenko A.E., Kulikov Y.V.</i> (Russia) Special features of processing of copper-containing ores of the Udokan deposit
12⁴⁰-13⁰⁰	<i>Vaisberg L.A., Korovnikov A.N.</i> (Russia) New technologies and machines for vibration classification of bulk materials by size
13⁰⁰-14⁰⁰ - Lunch	
14⁰⁰-14²⁰	<i>Voiloshnikov G.I., Dementiev V.E.</i> (Russia) Development and application of new technologies and equipment for gold extraction
14²⁰-14⁴⁰	<i>Kotova O.B., Ozhogina E.G.</i> (Russia) Comprehensive assessment of mining wastes from the standpoint of technological mineralogy
14⁴⁰-15⁰⁰	<i>Matveeva T.N., Ivanova T.A.</i> Scientific substantiation and perspective application of new reagents increasing Au extraction from refractory ores
15⁰⁰-15²⁰	<i>Shadrinova I.V., Zelinskaya E.V.</i> (Russia) Perspective methods and technologies for technogenic mineral processing
15²⁰-15⁴⁰	<i>Gazaleeva G.I.</i> (Russia) Features of the deep processing of mineral and technogenic raw materials containing thin sludge
15⁴⁰-16⁰⁰	<i>Kurkov A.V., Anufrieva S.I., Rogozhin A.A.</i> (Russia) Technological support for the processing of novel types of mineral raw materials
16⁰⁰-16²⁰	<i>Bogdanov A.V., Kachor O.L.</i> (Russia) Development of technology for the processing of colloidal sludge-lignin sediments of JSC "BCBC")

Session "Flotation, gravity, magnetic and electromagnetic separation"

Moderators: Bogdanov A.V. - Doctor of Technical Sciences, Professor,
Matveeva T.N. - Doctor of Technical Sciences
Tiutiunin V.V. - Candidate of Technical Sciences, Associate Professor

<i>11 September 2019 - Wednesday</i>	
LARGE CONFERENCE HALL	
9⁰⁰-9³⁰	<i>Cyril T O'Connor</i> (South Africa) The processing of platinum group minerals (PGMs) in South Africa
9³⁰-9⁴⁵	<i>Filippov L.O., Filippova I.V., Foucaud Y., Badawi M.</i> (France, Russia) On the modeling and optimization of the reagents suite for the flotation separation of calcium minerals

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9 ⁴⁵ -10 ⁰⁰	<i>Kondratyev S.A.</i> (Russia) Development of methods for selecting perspective collector reagents
10 ⁰⁰ -10 ¹⁵	<i>Ismagilov R.I., Golenkov D.N., Shelepov E.V., Ignatova T.V.</i> (Russia) Modern ways to increase the efficiency of processing of non-oxidized ferruginous quartzites
10 ¹⁵ -10 ³⁰	<i>Matveeva T. N., Gromova N. K., Lantsova L. B.</i> (Russia) The mechanism of selective flotation of sulfide minerals with the use of diethyldithiocarbamate and plant modifier in gold-antimony ore processing
10 ³⁰ -10 ⁴⁵	<i>Yushina T.I. Purav Bayanmunkh, Delia Yanes Kalim Sebastian Amangers Baljinnyam</i> (Russia, Mongolia) Improving the efficiency of flotation of porphyry copper ores with the use of additional collectors on the basis of acetylene alcohols
10 ⁴⁵ -11 ⁰⁰	<i>Mikhlin Y.L., Likhatski M.N., Shcherbanyuk A.M., Antsiferova S.A., Markosyan S.M.</i> (Russia) Studies on the effect of surface gaseous nanostructures on wetting and flotation of sulfide minerals (with Gorevski Pb-Zn ore as example)
11 ⁰⁰ -11 ¹⁵	<i>Semyanova D.V.</i> (Russia) Studying of connection of hydrocarbon fragment with flotation activity of collector and taking into account the work mechanism of its physical sorption forms
11 ¹⁵ -11 ³⁰	<i>Getman V.V., Karkeshkina A.Y., Ivanova T.A.</i> (Russia) Expediency of using water-soluble polymers as new flotation reagents
11 ³⁰ -11 ⁴⁵	<i>Karkeshkina A.Y., Getman V.V., Ryazantseva M.V.</i> (Russia) Investigation of physical and chemical properties of new and traditional tin collectors
11 ⁴⁵ -12 ⁰⁰	<i>Sosipatorov A.I., Chikin A.Yu.</i> (Russia) Research and development of technology of flotation enrichment of gold-carbonaceous ores with the use of the depressor reagent of carbonaceous matte
12 ⁰⁰ -12 ¹⁵	<i>Usmanova N.F., Markosyan S.M., Tymoshenko L.I., Pasyuga D.V.</i> (Russia) Application of humate reagent as a depressor in flotation of copper-nickel ores
12 ¹⁵ -12 ³⁰	<i>Solozhenkin P.M.</i> (Russia) The development of antimony production in Russia on the basis of innovative technologies
12 ³⁰ -12 ⁴⁵	<i>Bogudlova A.I., Voiloshnikov G.I.</i> (Russia). Flotation of sulfide gold ore using partially oxidized potassium butyl xanthate
12 ⁴⁵ -13 ⁰⁰	<i>Algebraistova N.K., Komarova E.S., Prokopyev I.V.</i> (Russia) Optimization of the flotation reagent mode of gold ore
13⁰⁰-14⁰⁰ – Lunch	
14 ⁰⁰ -14 ¹⁵	<i>Turysbekov D., Semushkina L., Narbekova S., Kaldybaeva Zh., Mukhamedilova A.M.</i> (Kazakhstan) Technology for separation of copper-lead concentrate without using cyanide
14 ¹⁵ -14 ³⁰	<i>Kayumov A.A., Ignatkina V.A., Aksenova D.D., Belokrys M.A., Malofeeva P.R.</i> (Russia) Study to increasing floatoactivity sulfides non-ferrous metals in the presence of sodium thiosulphate
14 ³⁰ -14 ⁴⁵	<i>Bocharov V.A., Ignatkina V.A., Kayumov A.A., Korzh V.R.</i> (Russia) Influence of structural features of iron sulfides to disclosure and separation of minerals in ores of non-ferrous metals
14 ⁴⁵ -15 ⁰⁰	<i>Titkov S.N., Konobeevskich A.V., Afonina E.I.</i> (Russia) Development of potash ore processing technology

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15 ⁰⁰ -15 ¹⁵	<i>Prokhorov K., Poltareckay A.</i> (Russia) The effect of electrochemical control to selective flotation of copper and iron from complex ore
15 ¹⁵ -15 ³⁰	<i>Viduetsky M., Garifulin I., Maltsev V., Purgin A., Panshin A.</i> (Russia) Flotation concentration of zinc cakes on the devices of KFM series
15 ³⁰ -15 ⁴⁵	<i>Viduetsky M., Garifulin I., Yochev I., Maltsev V., Purgin A.</i> (Russia, Bulgaria) Experience and prospects for the use of flotation machines of KFM series at the enterprises of the Republic of Bulgaria
15 ⁴⁵ -16 ⁰⁰	<i>Chinova M.I., Dresvyankina T.P., Mamonov S.V.</i> (Russia) The improvement of beneficiation technologies polymetallic ore
16 ⁰⁰ -16 ¹⁵	<i>Gurman M.A., Poltaretskaya A.E.</i> (Russia) Research on copper and precious metals recovery from porphyry copper ore
16 ¹⁵ -16 ³⁰	<i>Mamonov S.V., Orlov S.L., Volkova S.V.</i> (Russia) Natural and technological features of ores deposit "Bosymchak" (Kyrgyzstan)
16 ³⁰ -16 ⁴⁵	<i>Pateyuk S.A., Hatkova A.N., Nikitina L.G.</i> (Russia) Technology of processing of boric acid production wastes
16 ⁴⁵ -17 ⁰⁰	<i>Khokhulya M.S., Fomin A.V., Alekseeva S.A., Karpov I.V.</i> (Russia) Justification and development of technological solutions to increase the recovery of hematite at the processing plant of "OLKON" JSC
17 ⁰⁰ -17 ¹⁵	<i>Lavrinenko A.A., Sysa P.A., Agarkov I.I.</i> (Russia) Prospects of application of superconducting materials in enrichment of fine-grained weakly magnetic ores
17 ¹⁵ -17 ³⁰	<i>Diev D.N., Lepekhin, V.M., Makarenko M.N., Surin, M.I., Shutova D.I.</i> (Russia) Applying superconductors to achieve highly-efficient mineral resources processing
17 ³⁰ -17 ⁴⁵	<i>Pelevin A.E., Mushketov A.A.</i> (Russia) Mineral dressing of magnetite ores in alternating magnetic field
17 ⁴⁵ -18 ⁰⁰	<i>Tiutiunin V., Pugach A.</i> (Russia) Gravity separation modelling using finite elements method for mineral concentrators
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9 ⁰⁰ -9 ¹⁵	<i>Lebedev I.F.</i> (Russia) Experimental studies of preliminary dry beneficiation of gold ores
9 ¹⁵ -9 ³⁰	<i>Turetskaya N.Y., Prokopyev E.S., Ivanova K.K., Prokopyev S.A., Kharchistov V.A.</i> (Russia) Study of the possibility of using spiral separation for the additional extraction of gold from the flotation tails of gold recovery factory the Drazhnoye deposit
9 ³⁰ -9 ⁴⁵	<i>Ivanova K.K., Prokopyev S.A., Prokopyev E.S., Turetskaya N.Y.</i> (Russia) Obtaining high-quality iron concentrate using the spiral separation method
9 ⁴⁵ -10 ⁰⁰	<i>Alekseeva S.A., Chernousenko E.V., Neradovskii Yu.N., Tereshchenko S.V.</i> (Russia) Research of separation of titanium-magnetite ore from the Kolvitskoe deposit
10 ⁰⁰ -10 ¹⁵	<i>Golovizina A.A., Imangulov S.M., Balandina T.Yu., Sharin P.P.</i> (Russia) Thermoadhesion sorting — research results and application opportunities
10 ¹⁵ -10 ³⁰	<i>Popadin E.G., Dvoichenkova G.P., Timofeev A.S., Imangulov S.V.</i> (Russia) Process improvement directions dense media separation of diamond-containing raw materials in terms of processing refractory kimberlite ores

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10 ³⁰ -10 ⁴⁵	<i>Kovalchuk O.E., Dvoichenkova G.P., Yakovlev V.N.</i> (Russia) Increasing extraction abnormally luminescent diamonds a method of modifying their surface properties
10 ⁴⁵ -11 ⁰⁰	<i>Samsonenko T.E., Prokopiev S.A., Prokopiev E.S., Kharchistov V.A., Chikisheva T.A.</i> (Russia) The results of pilot tests to obtain draft gravity concentrate from tails in one CIP Eastern Siberia using spiral concentrator
11 ⁰⁰ -11 ¹⁵	<i>Savitsky L.V., Timofeev A.S., Chernysheva E.N.</i> (Russia) Experimental results research on the causes of loss of ferrosilicon in the schemes of heavy-medium separation of diamond-containing raw materials
11 ¹⁵ -11 ³⁰	<i>Matveev I.A., Yakovlev B.V., Ereemeeva N.G.</i> (Russia) Simulation of particle motion in an inclined plane under the action of water flow
11 ³⁰ -11 ⁴⁵	<i>Morozov Yu.P., Shevchenko A.S., Bitimbayev M.Zh.</i> (Russia, Kazakhstan) Improving the schemas and modes of electrochemical treatment in the processing of large-related raw materials
11 ⁴⁵ -12 ⁰⁰	<i>Matveeva T.N., Gromova N.K.</i> (Russia) Formation of the adsorption layer of IM-50 and TOFA reagents on cassiterite at tin tailings flotation
12 ⁰⁰ -12 ¹⁰	<i>Voroshilov F.A., Kantaev A.S.</i> (Russia) Concentrate processing of Vovchansky ilmenite with ammonium hydrogen difluoride
12 ¹⁰ -12 ²⁰	<i>Filippova I.V., Filippov L.O., Lubimova T.P., Fattalov O.O.</i> (France, Russia) Intensification of the flotation separation of potash ore using ultrasound treatment
12 ²⁰ -12 ³⁰	<i>Ignatkina V.A., Aksenova D.D., Lygach A.V., Shepeta E.D., Samatova L.A.</i> (Russia) The problem of flotation of calcium-bearing minerals and its solutions
12 ³⁰ -12 ⁴⁰	<i>Ignatov D.O., Belokryz M.A., Ignatkina V.A.</i> (Russia) Study of the surface wetting and floatability of sulfide minerals
12 ⁴⁰ -12 ⁵⁰	<i>Konovalov I.A.</i> (Russia) The effect of aging precipitation of xanthate on the flotation performance of sulfide
12 ⁵⁰ -13 ⁰⁰	<i>Gavrilova T.G.</i> (Russia) Xanthate precipitates as activators of sulphides flotation



Session "Complex processing of mineral raw materials. Hydrometallurgical processes"

Moderators: Domracheva V.A. - Doctor of Technical Sciences, Professor

Sedelnikova G.V. – Doctor of Technical Sciences, Professor

Trusova V.V. – Candidate of Technical Sciences, Associate Professor

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9 ⁰⁰ -9 ¹⁵	<i>Sedelnikova G. V., Romanchuk A. I., Bogomolov V. A., Ibrahimova N.V., Vladykin A.Yu.</i> (Russia) Raw material base, condition and prospects of copper porphyry ore processing abroad and in Russia
9 ¹⁵ -9 ³⁰	<i>Golenkov D.N., Chanturiya A.V., Shelepov E.V., Ignatova T.V.</i> (Russia) Expansion of mineral resource base of iron ores due to the involvement of oxidized ferruginous quartzites in the processing
9 ³⁰ -9 ⁴⁵	<i>Mishurina O., Medyanik N., Mullina E., Turlina A.</i> (Russia) Revising the investigation of metallurgical raw materials alternative sources

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9 ⁴⁵ -10 ⁰⁰	<i>Musaev V.V., Klyushnikov A.M., Galimov R.R.</i> (Russia) Optimization of processing of refractory gold-bearing ores from the Kamenskoe deposit
10 ⁰⁰ -10 ¹⁵	<i>Komlev M.Yu., Mullov V.M., Yevdokimov A.V., Bogorodsky Ye.V.</i> (Russia) The experience of industrial development of the technology intensive cyanidation of the gravity concentrate pilot with the use of plants «August»
10 ¹⁵ -10 ³⁰	<i>Minenko V.G., Ryazantseva M.V., Novikova N.G.</i> (Russia) The effect of various acids on the leaching efficiency of eudialyte concentrate
10 ³⁰ -10 ⁴⁵	<i>Chanturiya E.L., Chanturiya V.A., Minenko V.G., Samusev A.L.</i> (Russia) Use of energy impacts for intensifying acid leaching of eudialyte concentrate
10 ⁴⁵ -11 ⁰⁰	<i>Kozlov A.A., Epiforov A.V., Nemchinova N.V.</i> (Russia) Carbon sorption technology of gold recovery from sulfuric acid solutions after atmospheric oxidation leaching of gold-copper flotation concentrates
11 ⁰⁰ -11 ¹⁵	<i>Boldyrev A.V., Balikov S.V., Emelyanov Yu.E.</i> (Russia) Pressure oxidation of double refractory gold-bearing sulphide concentrates
11 ¹⁵ -11 ³⁰	<i>Epiforov A.V., Lukyanov A.A., Nabiulin R.N., Balikov S.V.</i> (Russia) Thiocyanate gold leaching of cakes after pressure oxidation of refractory sulfide concentrates
11 ³⁰ -11 ⁴⁵	<i>Nabiulin R.N., Bogorodsky A.V., Balikov S.V.</i> (Russia) Research and development of the technology for gold-copper flotation concentrate processing by low-temperature atmospheric oxidation
11 ⁴⁵ -12 ⁰⁰	<i>Kuimov D.V., Teut A.O., Fedko M.A., Mezentseva S.V.</i> (Kazakhstan) Electrochlorination results of the resistant gold-bearing ore in the continuous closed cycle at the enlarged laboratory unit
12 ⁰⁰ -12 ¹⁵	<i>Chanturia V.A., Koporulina E.V., Minenko V.G., Samusev A.L.</i> (Russia) The influence of energy impacts on the structural and chemical transformations of the surface of eudialyte during leaching
12 ¹⁵ -12 ³⁰	<i>Chanturiya V.A., Bunin I.Zh., Ryazantseva M.V., Minenko V.G., Samusev A.L.</i> (Russia) The modification of the structural – chemical and technological properties of eudialyte under the impact of high-power electromagnetic pulses (HPEMP)
12 ³⁰ -12 ⁴⁵	<i>Naimanbayev M.A., Kenzhaliyev B.K., Lochova N.G., Baltabekova Zh.A.</i> (Kazakhstan) Extraction of rare-earth metals from extraction phosphoric acid with the application of new type cationites
12 ⁴⁵ -13 ⁰⁰	<i>Fomchenko N.V., Muravyov M.I., Uvarova T.K., Melamud V.S.</i> (Russia) Influence of sulfide minerals content in concentrates on the leaching rate of copper and zinc by a biosolution
13⁰⁰-14⁰⁰ – Lunch	
14 ⁰⁰ -14 ¹⁵	<i>Belykh M.P., Petrov S.V., Khmelnitskay O.D., Byvaltsev A.V., Belkova N.L.</i> (Russia) Biochemical treatment of preg-robbing carbonaceous gold-bearing ores and concentrates
14 ¹⁵ -14 ³⁰	<i>Koblova P.O., Voiloshnikov G.I., Musin E.D.</i> (Russia). Heap leaching of sorption-active carbonaceous ores
14 ³⁰ -14 ⁴⁵	<i>Antropova I.G., Alekseeva E.N., Budaeva A.D.</i> (Russia) Prospects of comprehensive mineral processing of synnyrite by applying of natural magnesium-containing additives
14 ⁴⁵ -15 ⁰⁰	<i>Khomoksonova D.P., Budaeva A.D., Antropova I.G.</i> (Russia) Oxidizing roasting of molybdenum concentrate with brucite

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15 ⁰⁰ -15 ¹⁵	<i>Sumilova L.V., Myazin V.P. (Russia) Production line for separation of uranium ores into grades and extraction of uranium and molybdenum by hydrometallurgy</i>
15 ¹⁵ -15 ³⁰	<i>Buzunova T.A., Shigaeva V.N. (Russia) Beneficiation research of rare-metal ores of the Kovdor deposit anomalous zone</i>
15 ³⁰ -15 ⁴⁵	<i>Byvaltsev A.V. (Russia) The features of preg-robbing carbonaceous gold-bearing ores processing</i>
15 ⁴⁵ -16 ⁰⁰	<i>Voiloshnikova N.S., Voiloshnikov G.I., Soloveenko N.P., Grigorieva I.I. (Russia). Adsorption gold recovery using medium-base resin</i>
16 ⁰⁰ -16 ¹⁵	<i>Kholiqulov D.B., Boltaev O.N., Munosibov Sh.M. (Uzbekistan) Extraction of nickel from the mother liquor of copper production</i>
16 ¹⁵ -16 ³⁰	<i>Krylova L.N., Seliverstov A.F. (Russia) Features of the dissolution and decomposition of ozone in the leaching of metals from sulphides</i>
16 ³⁰ -16 ⁴⁵	<i>Lesnikova L.S., Yuryev A.I., Umysheva A.A. (Russia) The final stage of the reconstruction of the Talnakh concentrator</i>
16 ⁴⁵ -17 ⁰⁰	<i>Chanturia V.A., Samusev A.L., Minenko V.G. (Russia) The effect of ultrasound on the leaching of gold from refractory concentrates</i>
17 ⁰⁰ -17 ¹⁵	<i>Lukyanov A.A., Bogorodskiy A.V., Seleznev A.N., Balikov S.V. (Russia) Gold recovery from sulphide gold-copper flotation concentrates using thiocyanate-based solvents</i>
17 ¹⁵ -17 ³⁰	<i>Polygalov S. E., Shadrina E. A., Kolmachikhina O. B., Lobanov V. G. (Russia) Kinetic features of the dissolution of silver in nitric acid in the presence of hydrogen peroxide</i>
17 ³⁰ -17 ⁴⁵	<i>Zharlikov M., Gurova M. (Kazakhstan) Study of possible gold and silver losses during their assay-gravimetric determination in activated gold-bearing carbons</i>
17 ⁴⁵ -18 ⁰⁰	<i>Sleptsova E.S. (Russia) Jigging extraction of gold from magnetic concentrate using a pole-alternating magnetic field</i>
18 ⁰⁰ -18 ¹⁵	<i>Kovalenko K.A. (Russia) About the mechanism of the interaction of arsenic (III) with manganese ore</i>



Session "Processing of technogenic raw materials. Environmental and economic aspects"

Moderators: Shadrinova I.V. - Doctor of Technical Sciences, Professor,

Zelinskaya E.V. - Doctor of Technical Sciences, Professor,

Burdonov A.E. – Candidate of Technical Sciences, Associate Professor

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PANORAMIC HALL

9 ⁰⁰ -9 ¹⁵	<i>Zelinskaya E.V., Kurina A.V. (Russia) Underground brine processing aspects</i>
9 ¹⁵ -9 ³⁰	<i>Razmakhnin K.K., Khatkova A.N. (Russia) Natural zeolites of Eastern Transbaikalia in technologies for ensuring the environmental safety of mining areas</i>
9 ³⁰ -9 ⁴⁵	<i>Shadrinova I.V., Kolodezhnaya E.V., Garkavi M.S., Artamonov A.V. (Russia) To the question of slag enrichment of waste processing plants</i>
9 ⁴⁵ -10 ⁰⁰	<i>Abdrakhmanova R.N., Orehkova N.N. (Russia) The choice of technogenic raw materials as the precipitant for the SAVMIN-process</i>

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10 ⁰⁰ -10 ¹⁵	<i>Gorlova O.E.</i> (Russia) Justification of combined technologies of processing of technogenic metal-containing mineral raw materials
10 ¹⁵ -10 ³⁰	<i>Vlasova V.V.</i> (Russia) Mechanoactivation as a way to intensify technological properties of ash and slag waste
10 ³⁰ -10 ⁴⁵	<i>Ultrakova A.A., Baltabekova Zh.A., Onayev M.I., Kasymzhanov K.K.</i> (Kazakhstan) Recycling of titanium-magnesium production waste
10 ⁴⁵ -11 ⁰⁰	<i>Yusupov T.S., Shumskaya L.G., Kirillova E.A., Urakaev F.Kh.</i> (Russia) Study of the possibilities of cassiterite extracting from man-made materials
11 ⁰⁰ -11 ¹⁵	<i>Semushkina L., Turysbekov D., Narbekova S., Mukhanova A., Bilyalova S.</i> (Kazakhstan) Processing of technogenic gold-containing raw materials using a modified reagent
11 ¹⁵ -11 ³⁰	<i>Medyanik N., Mishurina O., Mullina E., Varnavsky D.</i> (Russia) Revising the technogenic deposits recycling in ore mining and processing enterprises
11 ³⁰ -11 ⁴⁵	<i>Ulyanova E.V., Malinnikova O.N., Pashichev B.N.</i> (Russia) Physical and chemical features of coal during thermal transformation
11 ⁴⁵ -12 ⁰⁰	<i>Lavrinenko A.A., Kunilova I.V., Golberg G.Yu., Lusinyan O.G., Kravchenko V.N., Shimkunas Ya.M.</i> (Russia) Investigation of comprehensive treatment processes of ash from brown coalsburning on thermal power plants
12 ⁰⁰ -12 ¹⁵	<i>Pestriak I.V.I, Morozov V.V.I, Erdenetuya Ochir</i> (Russia, Mongolia) Development and optimization of a closed cycle of water rotation in terms of expanding the resource base of water supply sources
12 ¹⁵ -12 ³⁰	<i>Lavrinenko A.A., Popov E.M.</i> (Russia) The foundation of environmental friendliness of anthracite breeze using for fuel briquettes production
12 ³⁰ -12 ⁴⁵	<i>Krasavtseva E.A., Svetlov A.V., Goryachev A.A., Makarov D.V., Masloboev V.A.</i> (Russia) Removal of fluoride ions from the wastewater
12 ⁴⁵ -13 ⁰⁰	<i>Petrov S.V., Olberg Ye.P., Petrov V.F.</i> (Russia) Methods of reduction of sodium cyanide consumption in processing of complex gold-bearing ores and concentrates
13⁰⁰-14⁰⁰ - Lunch	
14 ⁰⁰ -14 ¹⁵	<i>Mullina E.R., Medyanik N.L., Leont'eva E.V., Mishurina O.A., Rastorguev A.E.</i> Thermochemical processing technology of old flotation tailings
14 ¹⁵ -14 ³⁰	<i>Kameneva Yu.S., Chernousenko E.V., Vishnyakova I.N., Mitrofanova G.V.</i> (Russia) Flotation extraction of sulphides from stored waste of enrichment of copper-nickel ores
14 ³⁰ -14 ⁴⁵	<i>Seleznev A.N., Balikov S.V., Shketova L.Ye.</i> (Russia) Processing of off-balance gold-sulphide, polymetallic ores and tailings using the heap bacterial oxidation method
14 ⁴⁵ -15 ⁰⁰	<i>Bulaev A.G., Melamud V.S., Boduen A.Ya.</i> (Russia) Acid leaching of non-ferrous metals from old flotation tailings of copper-zinc ores
15 ⁰⁰ -15 ¹⁵	<i>Makovskaya O.Yu., Polshina T.D.</i> (Russia) Arsenic removing from waste water by composite inorganic sorbent
15 ¹⁵ -15 ³⁰	<i>Kachor O. L., Bogdanov A. V.</i> (Russia) Directions of processing and liquidation of accumulated arsenic technogenic fields of mining and processing industry
15 ³⁰ -15 ⁴⁵	<i>Kienko L.A., Voronova O.V.</i> (Russia) Flotation of fluorite from secondary raw materials using collectors of different composition

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15 ⁴⁵ -16 ⁰⁰	<i>Voronova O.V., Kienko L.A. (Russia) Analysis of the effect of ultrasonic treatment of pulp on the kinetics of fluorite flotation in the enrichment of technogenic tailings</i>
16 ⁰⁰ -16 ¹⁵	<i>Shepeta E.D., Winches V.A., Samatova L.A. (Russia) Use of PneufloR flotation machine for enrichment of tungsten-containing tailings</i>
16 ¹⁵ -16 ³⁰	<i>Artemev A.V., Mitrofanova G.V. (Russia) Study of acid-base properties of apatite to justify the choice of organic flocculants</i>
16 ³⁰ -16 ⁴⁵	<i>Goryachev A.A., Krasavtseva E.A., Laschuk V.V., Ikkonen P.V., Smirnov A.A., Makarov D.V., Masloboev V.A. (Russia) Studies of tailings of loparite ores enrichment</i>
16 ⁴⁵ -17 ⁰⁰	<i>Burdonov A.E., Barahtenko V.V., Zelinskaya E.V. (Russia) Processing of alumina-containing raw materials by photometric separation for use in the electrolysis process</i>
17 ⁰⁰ -17 ¹⁵	<i>Karshigina Z., Absemetov M., Abisheva Z., Bersenev S., Baczewska E. (Kazakhstan) Produced waters of oil and gas fields - a source of lithium production</i>
17 ¹⁵ -17 ³⁰	<i>Shirman G.V., Matveev A.I., Matveev I.A., Yermeeva N.G., Ochosov O.Yu. (Russia) Improving the efficiency of clay sand processing</i>
17 ³⁰ -17 ⁴⁵	<i>Mezenin A.O., Dmitriev S.V., Cherkasova M.V. (Russia) The electrical separation in the practice of processing of mineral and technogenic raw materials</i>
17 ⁴⁵ -18 ⁰⁰	<i>Zaytsev A. (Russia) Estimation of the amount of capital costs of gold deposits</i>
18 ⁰⁰ -18 ¹⁵	<i>Stefunko M.S. (Russia) Peculiarities of the formation of technogenic waters in the development of copper-pyrite deposits</i>



Session «Technological mineralogy. Disintegration and ore preparation»

*Moderators: Ozhogina E.G. - Doctor of Geological and Mineralogical Sciences, Professor,
Fedotov P.K. - Doctor of Technical Sciences, Associate Professor,
Vlasova V.V. - Candidate of Technical Sciences, Associate Professor*

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9 ⁰⁰ -9 ¹⁵	<i>Lavrik A.V., Litvinova N.M., Lavrik N.A., Rasskazova A.N. (Russia) A complex approach to the detection of noble metals</i>
9 ¹⁵ -9 ³⁰	<i>Likhnikovich E.G., Ozhogina E.G., Fatov A.S. (Russia) Mineralogical rationale for the use of hydro-pyro-metallurgical reduction of rare metals ore processing technology</i>
9 ³⁰ -9 ⁴⁵	<i>Vlasov I.A., Mushketov A.A., Manbetova G.R. (Russia) Material composition and mineral dressing of tempered preheated iron ore from the «Gara Djebilet» deposit</i>
9 ⁴⁵ -10 ⁰⁰	<i>Chikisheva T.A., Prokopyev S.A., Prokopyev E.S., Karpova A.G., Tukuser V.I. (Russia) Mineralogical studies of associated copper mineralization at Pravourmiiskoe tin ore deposit (Khabarovsk region)</i>
10 ⁰⁰ -10 ¹⁵	<i>Miroshnikova A.P., Mizernaya M.A., Naumov E.A. (Kazakhstan, Russia) Gold concentration features in the ores of the Vasilkovskoye deposit (North Kazakhstan)</i>
10 ¹⁵ -10 ³⁰	<i>Makarskiy I.V., Tarasova L.G., Nikitin D.N. (Russia) Instrumental method of monitoring the safety of diamond products</i>

**Problems and prospects of effective processing
of mineral raw materials in the 21st century**

10 ³⁰ -10 ⁴⁵	<i>Kasymova D.B., Adilkanova M.A., Mamyachenkov S.V., Kushakova L.B.</i> (Kazakhstan) Study of the specific characteristics of the method for processing of gold-copper ores depending on copper content and its compounds
10 ⁴⁵ -11 ⁰⁰	<i>Podkamenniy J.A., Dvoichenkova G.P.</i> (Russia) Increasing the extraction of diamonds from metasomatically altered kimberlite ores through the use of ultrasonic and electrochemical effects in the separation cycle on sticky tables
11 ⁰⁰ -11 ¹⁵	<i>Timofeev A.S.</i> (Russia) Express method of estimating particles isometricity to control the quality of ferrosilicon
11 ¹⁵ -11 ³⁰	<i>Malyarov P.V., Kovalev P.A., Dolgov A.M.</i> (Russia, Ukraine) To the question of selecting crushing scheme taking into account the specifics of disintegration processes of mineral raw materials in drum mills
11 ³⁰ -11 ⁴⁵	<i>Gerasimov A.M., Lazareva V.V.</i> (Russia) Indirect method of assessing the mineral part of coal liberate during its disintegration
11 ⁴⁵ -12 ⁰⁰	<i>Lvov E.S.</i> (Russia) Studies of the disintegration of gold-bearing ores by multiple dynamic impacts
12 ⁰⁰ -12 ¹⁵	<i>Nikolaeva N.V., Aleksandrova T.N.</i> (Russia) Increasing the efficiency of comminution in beneficiation of nonferrous and precious metals ores using computer simulations
12 ¹⁵ -12 ³⁰	<i>Khurelchuluun I., Morozov V.V., Kruglov V.N.</i> (Mongolia, Russia) Application of visiometric analysis of ore for automated control of the crushing process
12 ³⁰ -12 ⁴⁵	<i>Osipov D.A.</i> (Russia) Change of the technological properties of gold in the process of grinding in a drum ball mill
12 ⁴⁵ -13 ⁰⁰	<i>Vishnyakov A.V., Fedorov Yu.O.</i> (Russia) Modernization of equipment and improvement of methods for X-ray radiometric separation (XRRS) research and testing
13⁰⁰-14⁰⁰ - Lunch	
14 ⁰⁰ -14 ¹⁵	<i>Kulikov V.I., Fedorov Yu.O.</i> (Russia) New opportunities and prospects for ore preconcentration by X-ray radiometric separation (XRRS)
14 ¹⁵ -14 ³⁰	<i>Fedotov P.K.</i> (Russia) Use of interparticle destruction of ores at the deposits of Kazakhstan
14 ³⁰ -14 ⁴⁵	<i>Rostovtsev V.I.</i> (Russia) Perfection of ore preparation on the basis of modification of physical-mechanical properties of mineral raw materials by energy impacts
14 ⁴⁵ -15 ⁰⁰	<i>Domracheva V.A., Trusova V.V., Ostapchuck D.E.</i> (Russia) Brown coal sorbents for the extraction of mercury from technogenic raw materials
15 ⁰⁰ -15 ¹⁵	<i>Alekseev V.N., Sokolov V.I., Chyzhyk Y.F.</i> (Russia, Ukraina) Methods of intensification of the process of grinding of ores in drum mills
15 ¹⁵ -15 ³⁰	<i>Potemkin V.A., Romashev A.O.</i> (Russia) Study of the effect of pulp rheological characteristics on the efficiency of separation processes
15 ³⁰ -15 ⁴⁰	<i>Sycheva N.A., Zhukova V.E., Nekrasova M.A., Shuvalova Yu.N., Rassulov V.A., Iospa A.V.</i> (Russia) Mineralogical and technological projections of kaolinite
15 ⁴⁰ -15 ⁵⁰	<i>Gorbatova E.A., Pirogov B.I., Rakov L.T., Kolkova M.S.</i> (Russia) Features evaluation of the magnetic properties of titanomagnetites from disseminated ores of Medvedevskoye deposit
15 ⁵⁰ -16 ⁰⁰	<i>Razmyslov I.N.</i> (Russia) Technological mineralogy of bauxite (The Middle Timan)