

2020

ИННОВАЦИОННЫЕ ПРОЦЕССЫ КОМПЛЕКСНОЙ ПЕРЕРАБОТКИ ПРИРОДНОГО И ТЕХНОГЕННОГО МИНЕРАЛЬНОГО СЫРЬЯ (Плаксинские чтения – 2020)

ПРОГРАММА МЕЖДУНАРОДНОЙ КОНФЕРЕНЦИИ

I INNOVATIVE PROCESSES OF COMPLEX
TREATMENT OF NATURAL AND MAN-MADE
MINERAL RAW MATERIALS
(Plaksinsky Readings – 2020)

PROGRAM OF INTERNATIONAL CONFERENCE

АПАТИТЫ

CONFERENCE AGENDA

	September 22- Tuesday
ASSEMBLY HALL, Mining Institute KSC RAS (Apatity)	
ASSEMBLY HALL, Institute of Comprehensive Exploitation of Mineral Resources, IPKON	
RAS (Moscow)	
10 ⁰⁰ -10 ³⁰	Conference opening
10 ³⁰ -16 ⁴⁰	Plenary reports
13 ⁰⁰ -14 ⁰⁰	Lunch
	Workshops
	September 23– Wednesday
ASSEMBLY HALL, Mining Institute KSC RAS (Apatity)	
CONFERENCE	CE HALL, IPKON RAS (Moscow)
9 ⁰⁰ -11 ⁰⁰	Modern mineral processing technologies
ASSEMBLY	HALL, Mining Institute KSC RAS (Apatity)
ASSEMBLY	HALL, IPKON RAS (Moscow)
11 ¹⁵ -17 ³⁰	Flotation, gravity, magnetic and electromagnetic separation
ASSEMBLY	HALL, Institute of Chemistry and Technology of Rare Elements and Mineral
Raw Materi	als (Apatity)
	CE HALL, IPKON RAS (Moscow)
9 ⁰⁰ -17 ⁰⁰	Processing of secondary mineral resources. Environmental and economic
	aspects
13 ⁰⁰ -14 ⁰⁰	Lunch
	September 24– Thursday
	HALL, Mining Institute KSC RAS (Apatity)
ASSEMBLY HALL, IPKON RAS (Moscow)	
9 ⁰⁰ -15 ⁰⁰	Comprehensive mineral processing, hydrometallurgical processes
	HALL, Institute of Chemistry and Technology of Rare Elements and Mineral
	als (Apatity)
	CE HALL, IPKON RAS (Moscow)
9 ⁰⁰ -11 ⁰⁰	Technological mineralogy. Disintegration and ore preparation
13 ⁰⁰ -14 ⁰⁰	Lunch
	HALL, Mining Institute KSC RAS (Apatity)
	HALL, Institute of Comprehensive Exploitation of Mineral Resources (Moscow)
15 ⁰⁰ -16 ⁰⁰	Final meeting of Plaksin Readings 2020 Conference.
	Discussion. Summary
September 25 – Friday	
CONFERENCE HALL, Mining Institute KSC RAS (Apatity)	
9 ⁰⁰ -11 ⁰⁰	Supporting environmental economic and social impacts of mining activity

September 22– Tuesday

ASSEMBLY HALL, Mining Institute KSC RAS (Apatity)
ASSEMBLY HALL, Institute of Comprehensive Exploitation of Mineral Resources,
IPKON RAS (Moscow)

1000-1030	Conference opening. Greetings
$\frac{10^{00} - 10^{30}}{10^{30} - 11^{00}}$	Chanturia V.A. Innovative technologies for complex and deep processing of mineral
10 11	raw materials with complex material composition
11^{00} - 11^{30}	Weisberg L.A. Digital technologies and big data in mineral processing (Saint-
11 -11	Petersburg - online)
11 ³⁰ -11 ⁵⁰	Coffee break
$\frac{11^{50}-11^{20}}{11^{50}-12^{20}}$	Dmitrak Yu.V. Development of innovative methods and equipment for determining
11 -12	
12 ²⁰ -12 ⁵⁰	the dynamic parameters of milling loading for fine rock grinding (Apatity)
12 -12	Ozhogina E.G., Kotova O.B. Technological mineralogy: predictive assessment of the
4050 4400	quality of unconventional mineral raw materials, prospects for use (Moscow, IPKON)
$\frac{12^{50}-14^{00}}{14^{00}-14^{20}}$	Lunch
1400-1420	Nikolaev A.I., Krivovichev S.V. The role of the Kola chemical-technological cluster
20 40	in the transition from a resource-based economy to an innovative one (Apatity)
14^{20} - 14^{40}	Bogovich A.N. Increasing the competitiveness of the Olenegorsky GOK JSC through
	the introduction of innovative technologies (Apatity)
14^{40} - 15^{00}	Kalugin A.I. The current state of technologies to process apatite-nepheline ore from
	the Khibiny deposits (Apatity)
15^{00} - 15^{20}	Kurkov A.V., Anufrieva S.I., Rogozhin A.A. Molecular Recognition Technology - an
	advanced direction for selective metal extraction (Moscow, IPKON)
15^{20} - 15^{40}	Matveeva T.N. Current state and prospects for expanding the range of flotation
	reagents for the extraction of precious metals from refractory mineral raw materials
	(Apatity)
$\frac{15^{40} - 16^{00}}{16^{00} - 16^{20}}$	Coffee break
16^{00} - 16^{20}	Aleksandrova T.N., Liberwirt H. Selective disintegration and separation of mineral
	raw materials: theory, methods, practical implementation (Apatity)
16 ²⁰ -16 ⁴⁰	Orekhova N.N., Shadrunova I.V., Zelinskaya E.V., Volkova N.A. Resources of the
	Urals and Siberia's mining-induced mineral raw materials: main research results,
	prospects for their development (Moscow, IPKON)
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MODERN MINERAL PROCESSING TECHNOLOGIES

September 23- Wednesday

ASSEMBLY HALL, Mining Institute KSC RAS (Apatity) CONFERENCE HALL, IPKON RAS (Moscow)

Moderators:

Chanturiya E.L. Dr.Eng., prof. **Tereshchenko S.V.** Dr.Eng., prof.

International Conference "Plaksin Readings-2020" September 21-26, 2020, Apatity, Russia

900_915	Rasskazov I.Yu., Rasskazova A.V., Konareva T.G., Lavrik A.V., Sorokin A.A.
	Research of the processes of staged heap leaching of valuable components
	from off-balance and low-grade ores of the Malmyzhsky porphyry copper
	deposit (Khabarovsk)
915-930	Petrov I.M. Technological and economic aspects of processing of rare earth raw ores
	(Moscow)
930-945	Opalev A.S. Ways to improve the quality of iron ore concentrates at ferruginous
	quartzite processing enterprises (Apatity)
9^{45} - 10^{00}	Tereshchenko S.V., Shibaeva D.N., Shumilov P.A., Vlasov B.A., Bulatov V.V.
	Analysis of the influence of the geometric parameters of the radiometric
	separator transportation device on the flotation productivity (Apatity)
10^{00} - 10^{15}	Shigaeva V.N., Buzunova T.A., Nazarenko L.N. Study of the beneficiation of
	feldspar from the Kedrovoe deposit (Yekaterinburg)
10^{15} - 10^{30}	Gazaleeva G.I. Problems in processing of non-metallic raw materials containing fine
	slimes (Yekaterinburg)
10^{30} - 10^{45}	Turetskaya N.Yu., Prokopyev S.A., Prokopyev E.S., Emelyanova K.K., Kadesnikov
	I.V., Kopylov S.A. Screw separation in iron ore processing technology
	(Irkutsk)
10^{45} - 11^{00}	Pestryak I.V., Morozov V.V., Zhargalsaykhan E. Substantiation of the scheme of
	cyclic water rotation during flotation-biohydrometallurgical processing of
	middlings (Moscow)
11^{00} - 11^{15}	Coffee break

FLOTATION, GRAVITY, MAGNETIC AND ELECTROMAGNETIC SEPARATION <u>September 23– Wednesday</u>

ASSEMBLY HALL, Mining Institute KSC RAS (Apatity)
ASSEMBLY HALL, Institute of Comprehensive Exploitation of Mineral Resources,
IPKON RAS (Moscow)

Matveeva T.N., Dr.Eng, prof. Opalev A.S., PhD in Eng Kurkov A.V., Dr.Eng.

11 ¹⁵ -11 ³⁰	Yuriev A.I., Lesnikova L.S., Umysheva A.A., Miller A.A. Assessment of the
	flotation activity of the components of the host copper-nickel rocks (case
	study of the Talnakh dressing plant) (Norilsk)
11^{30} - 11^{45}	Kondratyev S.A. Influence of the degree of oxyethylation of physically sorbed
	collectors on the recovery of the useful component and the quality of the
	flotation concentrate (Novosibirsk)
11^{45} - 12^{00}	Gavrilova T.G., Kondratyev S.A. Development of the mechanism of sulfide
	flotation activation by heavy metal ions (Novosibirsk)
12^{00} - 12^{15}	Tsitsilina D.M. Flotation of apatite ore with nickel oleate (Novosibirsk)
12^{15} - 12^{30}	Zavyalov S.S., Morozov Yu.P. Study of the regularity of the separation of sulfide
	ore from the Shatyrkul deposit by dry gravity beneficiation methods
	(Yekaterinburg)
12^{30} - 12^{45}	Penkov P.M., Khamidulin I.Kh. Study of accumulative turbulization centrifugal
	separation (Yekaterinburg)

12^{45} - 13^{00}	Shevchenko A.S., Morozov Yu.P., Shautenov M.R., Khamidulin I.Kh. Combined
12 -13	technology for processing tungsten-containing tailings (Yekaterinburg)
13 ⁰⁰ -14 ⁰⁰	Lunch
14^{00} - 14^{15}	Viduetsky M.G., Garifulin I.F., Maltsev V.A., Purgin A.P., Panshin A.M., Izbrecht
1, 1,	P.A., Golovko F.P., Nesmelov V.Yu., Yochev I .SCH. Column flotation
115 130	machines: evolution (Yekaterinburg)
14 ¹⁵ -14 ³⁰	Elnikova S.P. Determination of the probability of particle destruction during
1 430 1 445	crushing "in a layer" (Yekaterinburg)
14 ³⁰ -14 ⁴⁵	Ostapenko S.P., Mesyats S.P. Investigation of the hydration of the minerals
	surface by the computer modeling (Apatity)
14 ⁴⁵ -15 ⁰⁰	Golets M., Smolko Schwarzmeier N., Nordberg H. Application of synthetic
	anionic collectors to improve the performance of apatite direct flotation
00 15	(Sweden)
15^{00} - 15^{15}	Lebedok A.V., Markworth L. Effective technology of pneumatic flotation. The
	potential of technical modernization of the flotation process for apatite-
	containing ores (Apatity)
15^{15} - 15^{30}	Romashev A.O., Kuznetsov V.V. Development of a methodological approach to
	determining the flotation beneficiation parameters (Apatity)
15^{30} - 15^{45}	Semyanova D.V. Study of the relationship between the structure of the collector's
	hydrocarbon fragment and its tensiometric characteristics with the collecting
	ability) (Apatity)
15 ⁴⁵ -16 ⁰⁰	Getman V.V., Karkeshkina A.Yu. Application of polyvinylcaprolactam in the
00 15	flotation beneficiation of sulfide ores (Moscow, IPKON)
16 ⁰⁰ -16 ¹⁵	Coffee break
16^{00} - 16^{15}	Timofeev A.S. Method for determining the concentration of ferrosilicon in
-15 -25	suspension for the process of heavy-medium separation (Moscow, IPKON)
6^{15} - 16^{25}	Artemiev A.V., Mitrofanova G.V. Evaluation of the suspension effect in
1 625 1 635	flocculation processes (Apatity)
16^{25} - 16^{35}	Bazarova E.A., Chernousenko E.V., Mitrofanova G.V. Nitrogen-containing
	mono-derivatives of dicarboxylic acids as collectors for flotation of non-
16 ³⁵ -16 ⁴⁵	ferrous metal ores (Apatity) Kameneva Y.S., Chernousenko E.V. Investigation of the collecting ability of
10 -10	complexing reagents with a nitrile group during flotation of copper-nickel
	ores (Apatity)
16 ⁴⁵ -17 ⁰⁰	Lukichev S.V., Opalev A.S., Nikitin R.M., Biryukov V.V. Simulation modeling
10 17	in studies to improve the efficiency of technological flowsheets for mineral
	beneficiation (Apatity)
17^{00} - 17^{15}	Ignatkina V.A., Korzh V.R., Aksenova D.D. Effect of combinations of an oxyhydryl
·	collector and a nonionic heteropolar compound on the selectivity of calcium
	minerals flotation (Moscow, IPKON)
17^{00} - 17^{30}	Opalev A.S., Khokhulya M.S., Karpov I.V., Fomin A.V. Scientific and technical
	approach to improving the technology for producing iron ore concentrate at
	Olkon JSC (Apatity)
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PROCESSING OF SECONDARY MINERAL RESOURCES. ENVIRONMENTAL AND ECONOMIC ASPECTS

September 23- Wednesday

ASSEMBLY HALL, Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials (Apatity)

CONFERENCE HALL, IPKON RAS (Moscow)

Moderators:

Shadrunova I.V., Dr.Eng, prof. Makarov D.B., Dr.Eng., prof.

900-915	Petrova A.I. Environmental problems of processing rare earth raw ores
915-930	Lukanin A.A., Sosnovskiy S.A., Sachkov V.I., Obkhodskaya E.V. Processing of
	mining-induced titanium-containing solutions in a high-temperature spray
	reactor (Tomsk)
930-945	Vasilkova A.O., Byvaltsev A.V., Khmelnitskaya O.D., Voiloshnikov G.I.
	Development of a technology for processing mining-induced raw materials
	using ultra-low concentrations of sodium cyanide (Irkutsk)
9^{45} - 10^{00}	Ryspanov N.B., Pirmatov E.A., Mukusheva A.S., Ryspanov N.N., Fedyanin
	Yu.V. Study of percolation leaching of useful components from the
	tailings of a flotation plant
10^{00} - 10^{15}	Medyanik N.L., Ponomarev A.P., Smirnova A.V. Study of effective recoverable
	forms of zinc and copper metal cations from hydrotechnogenic mineral raw
15 20	materials (Magnitogorsk)
10^{15} - 10^{30}	Mullina E.R., Medyanik N.L., Mishurina O.A., Varnavsky D.A., Lyapkin S.D.
	Resource potential of hydraulic engineering facilities of mining and
20 45	processing enterprises of the South Urals (Magnitogorsk)
10^{30} - 10^{45}	Mishurina O.A., Medyanik N.L., Mullina E.R., Turlina A.A., Rastorguev A.E.
	Prospects and practice of using ion flotation for the selective processing of
	hydrotechnogenic formations (Magnitogorsk)
10^{45} - 11^{00}	Lavrinenko A.A., Kunilova I.V., Golberg G.Yu., Lusinyan O.G., Kravchenko
	V.N. Problems of complex processing of ash and slag waste from coal
1100 1115	combustion (Moscow, IPKON)
$\frac{11^{00} - 11^{15}}{11^{15} - 11^{30}}$	Coffee break
11 -11	Galchenko Yu.P., Kalabin G.V. Theoretical substantiation of the possibility of
	building convergent mining technologies in the development of the Arctic
11 ³⁰ -11 ⁴⁵	subsoil (Moscow, IPKON) Minenko V.G., Makarov D.V., Samusev A.L. Justification and development of a
11 -11	new class of sorbents based on electrochemically modified saponites
	(Apatity)
11^{45} - 12^{00}	Kalinkin A.M., Gurevich B.I., Kalinkina E.V., Semushin V.V. Geopolymer
11 12	materials using a mechanically activated composition based on ash from a
	thermal power plant with the addition of natural calcite (Apatity)
12^{00} - 12^{15}	Amosov P.V., Baklanov A.A. Methodological approach for assessing the level of
	the atmosphere's dust pollution based on numerical modeling (Apatity)
12^{15} - 12^{30}	Makarov D.V., Svetlov A.V., Goryachev A.A., Konina O.T., Masloboev V.A.
	Dusting of apatite-nepheline ore dressing tailings and meteorological
	parameters of the warm period in the 21 st century (Apatity)
12^{30} - 12^{45}	Mazukhina S.I., Sandimirov S.S., Masloboev V.A., Makarov D.V.
	Thermodynamic modeling of hypergenesis of copper-nickel mining and
	processing wastes under different temperatures and moisture regimes
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45 00	(Apatity)
12^{45} - 13^{00}	Barmin I. S., Morozov V. V. Improvement of the processing technology for fine-
00 15	grained tailings of the Kovdorsky GOK
13 ⁰⁰ -13 ¹⁵	Bronitskaya E.S., Kydzhy M.V., Sycheva N.A., Anufrieva S.I., Grishaev G.S.
	Preliminary assessment of the possible using deep beneficiation methods for
	the processing of mining-induced iron-containing raw materials
13 ¹⁵ -14 ⁰⁰	Lunch
14 ⁰⁰ -14 ¹⁵	Maksimova V.V., Krasavtseva E.A., Masloboev V.A. Study of interaction of fine
	fraction of loparite ore dressing tailings with water-soluble peat
	compounds (Apatity)
14 ¹⁵ -14 ³⁰	Svetlov A. V., Krasavtseva E. A. Bottom sediments of ponds of the waste water
	treatment system of a copper-nickel mine as a promising complex raw material
	(Apatity)
14^{30} - 14^{45}	Slukovsky Z.I., Dauvalter V.A. Chemical composition and mineral particles in
	bottom sediments of Lake Nyudyavr, Murmansk region
14^{45} - 15^{00}	Slukovsky Z.I. Heavy metals and forms of their occurrence in sapropel of lakes
	in the southern Karelia (Apatity)
15 ⁰⁰ -15 ¹⁵	Gerasimova L.G., Nikolaev A.I., Maslova M.V. Shchukina E.S. Prospects for the
	production and use of functional materials from the Khibiny apatite-
	nepheline concentration waste (Apatity)
15^{15} - 15^{30}	Kasikov A.G., Areshina N.S. Processing of gas cleaning products and waste
	from the Kolskaya MMC JSC (Apatity)
15^{30} - 15^{45}	Coffee break
15^{45} - 16^{00}	Chekanova Yu.V., Nikolaev A.I., Oryshchenko A.S., Artemenkov A.G.
	Evaluation of the suitability of mineral and mining-induced raw materials
	of the Kola Peninsula for welding production (Apatity)
16^{00} - 16^{15}	Kasikov A.G., Shchelokova E.A., Zheleznova M.V., Sokolov A.Yu. On the
	problem of utilization of afterburning products of carbonyl nickel
15 20	production (Apatity)
16 ¹⁵ -16 ³⁰	Manakova N.K., Suvorova O.V. Mining-induced waste from enterprises of the
20 12	Murmansk region as a raw material for thermal insulation foams (Apatity)
16^{30} - 16^{45}	Slukovskaya M.V., Mosendz I.A., Petrova A.G., Markovskaya E.F.,
	Kremenetskaya I.P., Ivanova L.A., Tereshchenko S.V., Shibaeva D.N.
	Evaluation of the effectiveness of pyroxenite-vermiculite-sungulite
	granular product for soil remediation (Apatity)
16^{45} - 17^{00}	Ksenofontov B.S., Yakushkin V.P. Possibilities of using combined flotation
	machines for processing mining-induced raw materials (Moscow)

COMPREHENSIVE MINERAL PROCESSING, HYDROMETALLURGICAL PROCESSES

September 24- Thursday

ASSEMBLY HALL, Mining Institute KSC RAS (Apatity) ASSEMBLY HALL, IPKON RAS (Moscow)

Moderators:

International Conference "Plaksin Readings-2020" September 21-26, 2020, Apatity, Russia

Lavrinenko A.A., Dr.Eng., prof. Kasikov A.G., PhD in Chemistry

900-915	Chanturia V.A., Samusev A.L., Minenko V.G., Ryazantseva M.V., Koporulina
	E.V. Selective precipitation of zirconium and rare-earth elements from
- 12 20	acidic productive solutions of eudialyte concentrate leaching (Apatity)
915-930	Kopylova A.E., Prokhorov K.V., Bogomyakov R.V. Intensification of gold
	recovery during electrochemical treatment of flotation pulp from copper-porphyry
	and gold-quartz ores (Khabarovsk)
930-945	Bagramyan V.V., Sargsyan A.A. Complex processing of perlite by microwave
	method (Yerevan)
9^{45} - 10^{00}	Tasibekov Kh.S., Bekishev Zh.Zh., Zlobina E.V., Ismailova A.G., Kishibaev K.K.,
	Tokpaev R.R., Atchabarova A.A., Nauryzbaev M.K. Obtaining activated
	carbons on the basis of wheat grain processing wastes and their use for
00 15	rhenium sorption (Kazakhstan)
10^{00} - 10^{15}	Ismailova A.G., Tasibekov Kh.S., Rashit D.R. Sorption extraction of tungsten (VI)
15 30	by modified carbon sorbents (Kazakhstan)
10^{15} - 10^{30}	Nauryzbaev M.K., Khavaza T.N., Ibraimov Z.T., Atchabarova A.A., Beknazarov
	K.I., Tasibekov Kh.S., Tokpaev R.R. Development of an integrated
20 45	technology for processing the Kazakh phosphogypsum (Kazakhstan)
10^{30} - 10^{45}	Avchukir, Kh., Burkitbayeva B.D., Tassibekov Kh.S., Nauryzbayev M.K.
	Electrodeposition of indium using protonated betainium bis-
10/5 11/00	(trifluoromethylsulfonyl)imide ionic liquid (Казахстан)
10^{45} - 11^{00}	Zlobina E.V., Troeglazova A.V., Kalina I.A. Sorption extraction and concentration
1 1 00 1 1 15	of rhenium with coal sorbents (Kazakhstan)
1100-1115	Coffee break
11 ¹⁵ -11 ³⁰	Bulaev A.G., Melamud V.S., Artykova A.V., Elkina Yu.A., Nechaeva A.V.,
	Boduen A.Ya. Leaching of non-conditioned copper-zinc concentrates with
11 ³⁰ -11 ⁴⁵	high arsenic content (Apatity)
11 -11	Svetlov A.V., Goryachev A. A. Sulfuric acid granulation of copper-nickel ore
1145-1200	dressing tailings under negative temperatures (Apatity) Chanturia V.A., Chanturia E.L., Koporulina E.V., Ryazantseva M.V., Samusev
11 -12	A.L., Minenko V.G. Influence of combined energy effects on the structural-
	l e e e e e e e e e e e e e e e e e e e
	chemical and morphological properties of mineral components and
1200_1215	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity)
12 ⁰⁰ -12 ¹⁵	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline
12 ⁰⁰ -12 ¹⁵	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical
	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity)
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	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the
12 ¹⁵ -12 ³⁰	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the method of jigging in a centrifugal field (Apatity)
$ 12^{15} - 12^{30} 12^{30} - 12^{45} $	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the method of jigging in a centrifugal field (Apatity) Tcharo H. Modeling of hydrodynamic parameters of a pile in heap leaching
12 ¹⁵ -12 ³⁰	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the method of jigging in a centrifugal field (Apatity) Tcharo H. Modeling of hydrodynamic parameters of a pile in heap leaching Yanishevskaya E.S., Melamud V.S., Bulaev A.G. Biohydrometallurgical
$ \begin{array}{c c} 12^{15} - 12^{30} \\ \hline 12^{30} - 12^{45} \\ 12^{45} - 13^{00} \end{array} $	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the method of jigging in a centrifugal field (Apatity) Tcharo H. Modeling of hydrodynamic parameters of a pile in heap leaching Yanishevskaya E.S., Melamud V.S., Bulaev A.G. Biohydrometallurgical technology for copper-nickel ore and concentrate processing
$ 12^{15} - 12^{30} 12^{30} - 12^{45} $	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the method of jigging in a centrifugal field (Apatity) Tcharo H. Modeling of hydrodynamic parameters of a pile in heap leaching Yanishevskaya E.S., Melamud V.S., Bulaev A.G. Biohydrometallurgical technology for copper-nickel ore and concentrate processing Lunch
$ \begin{array}{r} 12^{15} - 12^{30} \\ 12^{30} - 12^{45} \\ 12^{45} - 13^{00} \\ \hline 13^{00} - 14^{00} \end{array} $	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the method of jigging in a centrifugal field (Apatity) Tcharo H. Modeling of hydrodynamic parameters of a pile in heap leaching Yanishevskaya E.S., Melamud V.S., Bulaev A.G. Biohydrometallurgical technology for copper-nickel ore and concentrate processing Lunch Goryachev A.A., Makarov D.V. Processing of sulfide copper-nickel raw materials
$ \begin{array}{r} 12^{15} - 12^{30} \\ \hline 12^{30} - 12^{45} \\ 12^{45} - 13^{00} \\ \hline 13^{00} - 14^{00} \\ 14^{00} - 14^{15} \end{array} $	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the method of jigging in a centrifugal field (Apatity) Tcharo H. Modeling of hydrodynamic parameters of a pile in heap leaching Yanishevskaya E.S., Melamud V.S., Bulaev A.G. Biohydrometallurgical technology for copper-nickel ore and concentrate processing Lunch Goryachev A.A., Makarov D.V. Processing of sulfide copper-nickel raw materials by low-temperature roasting with ammonium sulfate
$ \begin{array}{r} 12^{15} - 12^{30} \\ 12^{30} - 12^{45} \\ 12^{45} - 13^{00} \\ \hline 13^{00} - 14^{00} \end{array} $	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the method of jigging in a centrifugal field (Apatity) Tcharo H. Modeling of hydrodynamic parameters of a pile in heap leaching Yanishevskaya E.S., Melamud V.S., Bulaev A.G. Biohydrometallurgical technology for copper-nickel ore and concentrate processing Lunch Goryachev A.A., Makarov D.V. Processing of sulfide copper-nickel raw materials by low-temperature roasting with ammonium sulfate Aleksandrov P.V., Imideev V.A., Medvedev A.S., Berbenev A.O., Kochurov K.I.
$ \begin{array}{r} 12^{15} - 12^{30} \\ \hline 12^{30} - 12^{45} \\ 12^{45} - 13^{00} \\ \hline 13^{00} - 14^{00} \\ 14^{00} - 14^{15} \end{array} $	chemical and morphological properties of mineral components and efficiency of acid leaching of eudialyte concentrate (Apatity) Chanturia V.A., Minenko V.G., Samusev A.L., Koporulina E.V. Alkaline decomposition of eudialyte concentrate under conditions of physicochemical and energy influences (Apatity) Luchko M.S., Fedotov P.K. Determination of technological parameters affecting the intensification of the concentration of gold-containing ores by the method of jigging in a centrifugal field (Apatity) Tcharo H. Modeling of hydrodynamic parameters of a pile in heap leaching Yanishevskaya E.S., Melamud V.S., Bulaev A.G. Biohydrometallurgical technology for copper-nickel ore and concentrate processing Lunch Goryachev A.A., Makarov D.V. Processing of sulfide copper-nickel raw materials by low-temperature roasting with ammonium sulfate

14^{30} - 14^{45}	Malinnikova O.N., Belousov F.S., Pashichev B.N., Dokuchaeva A.I. Studies of the
	sorption properties of fossil coals
14^{45} - 15^{00}	Sokolov A.Yu., Kasikov A.G., Bagrova E.G. Extraction purification of sulfuric
	acid solutions from iron with di-2-ethylhexylphosphoric acid (Apatity)

TECHNOLOGICAL MINERALOGY. DISINTEGRATION AND ORE PREPARATION <u>September 24- Thursday</u>

ASSEMBLY HALL, Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials (Apatity) CONFERENCE HALL, IPKON RAS (Moscow)

Moderators:

Ozhogina E.G., Dr.in Geology and Mineralogy, prof. Kompanchenko A.A., PhD in Geology and Mineralogy

900-915	Lavrik A.V., Lavrik N.A., Rasskazova A.V., Litvinova N.M., Konareva T.G.
	Mineral and technological features of gold from the Delken deposit
	(Khabarovsk Territory) (Khabarovsk)
9 ¹⁵ -9 ³⁰	Sosnovskiy S.A., Lukanin A.A., Sachkov V.I., Obkhodskaya E.V. Electropulse
	disintegration of gold-bearing and rare-metal ores (Tomsk)
9^{30} - 9^{45}	Chikisheva T.A., Prokopyev S.A., Prokopyev E.S., Kondratyeva M.A., Karpova
	A.G., Tukser V.I. Mineral and technological features of the sands of the
	Barun-Naryn mining-induced deposit (Irkutsk)
9^{45} - 10^{00}	Antonov A.A. Application of a thermodynamic approach to finding the conditions
	for the formation of synthetic analogues of rare mineral species - phosphates -
	copper arsenates (Apatity)
10^{00} - 10^{15}	Nikolaeva N.V., Aleksandrova T.N., Popov O., Klichovik M. Substantiation of an
	integrated approach to assessing the strength of rocks and ores (Apatity)
10^{15} - 10^{30}	Talovina I.V., Duryagina A.M., Heide G., Bravo A. Morphometric parameters of
	rocks and ores as the basis for selective ore preparation of raw materials
20 /2	(Apatity)
10^{30} - 10^{45}	Bocharov V.A., Ignatkina V.A., Abryutin D.V., Kayumov A.A., Korzh V.R. On the
	influence of the interaction mechanism of microgalvanic couples in the process
	of contact during the destruction of mineral complexes on the results of flotation
45 00	separation (Moscow)
10^{45} - 11^{00}	Pashichev B.N., Dokuchaeva A.I., Ulyanova E.V. Discovering the features of the
	microstructure of fossil coals using the entropy-complexity method (Apatity)
11 ⁻⁰⁰ -11 ¹⁵	Dokuchaeva A.I., Pashichev B.N., Dolgova M.O. Features of coals prone to
	spontaneous combustion (Apatity)

September 24- Thursday

ASSEMBLY HALL, Mining Institute KSC RAS (Apatity)
ASSEMBLY HALL, Institute of Comprehensive Exploitation of Mineral Resources,
IPKON RAS (Moscow)

 $15^{\theta\theta}$ - $16^{\theta\theta}$ Final meeting of the Plaksin Readings 2020 Conference. Discussion and Summary

SUPPORTING ENVIRONMENTAL ECONOMIC AND SOCIAL IMPACTS OF MINING ACTIVITY (SEESIMA PROJECT)

September 25 – Friday

CONFERENCE HALL, Mining Institute KSC RAS (Apatity)

Moderator:

Masloboev V.A., Dr.Eng., prof.

900-920	Chipakwe V., Karlkvist T., Rosenkranz J., Chehreh Chelgani S.
	On rationalisation of energy consumption and product properties in dry grinding
	process: role of grinding aids (Minerals and Metallurgical Engineering, Dept. of
	Civil, Environmental and Natural Resources Engineering, Luleå University of
	Technology, Luleå, Sweden)
9 ²⁰ -9 ⁴⁰	Goryachev A.A. Low-temperature roasting of copper-nickel ore with ammonium
	sulphate (Institute of North Industrial Ecology Problems KSC RAS, Apatity)
9^{40} - 10^{00}	Virpiranta H., Taskila S., Sotaniemi V., Leiviskä T., Rämö J., Tanskanen J.
	Continuous biological treatment of cold sulfate-containing mining waters (Chemical
	Process Engineering, University of Oulu, Oulu, Finland)
10^{00} - 10^{20}	Leiviskä T. Vanadium recovery from Nordic mine wastes (Chemical Process
	EngineeringUniversity of Oulu, Oulu, Finland)
10^{20} - 10^{40}	Khokhulya M.S., Fomin A.V., Alekseeva S.A., Seleznev A.O. Sokolov V.D. Pilot
	tests of separation technology for columbite ore from Zashikhinskoe deposit (Mining
	Institute of KSC RAS, Apatity)
10^{40} - 11^{00}	Ross Wakelin. An EU cross-border collaborative project on mining industry in the
	north (coordinator of the SEESIMA project, SINTEF Narvik, Norway)