

MONDAY, 9 SEPTEMBER		
11:00-13:00	Round table «Aluminium: New horizons for industrial design»	Big Hall, 2nd fl.
13:00-17:00	Exhibition Booths installation	Exhibition Hall №1
16:00-18:00	Congress and Exhibition registration	Exhibition Hall №1
TUESDAY, 10 SEPTEMBER		
08:00-10:00	Congress and Exhibition registration	Exhibition Hall №1
09:30-10:00	Presentation of the Exhibition	Exhibition Hall №1
10:00-10:45	<i>Congress and Exhibition opening ceremony</i>	Hall
11:00-14:50	Plenary session of the Conference «Aluminium of Siberia»	Hall №3
11:00-13:00	Panel discussion «Personnel is the keys for everything; how can a young person prepare for the unknown?»	«Amphitheatre», 3rd fl.
14:30-16:45	Final of the National Championship on Technological Strategy in Mechanical Engineering «Mechanical Cup»	Grand Hall №4, 4th fl.
13:30-17:10	Section «Casting and new materials»	«Amphitheatre», 3rd fl.
14:00-16:00	Round table «Problems of engineering education: challenges and reality»	Grand Hall №2, 2nd fl.
16:00-18:00	Round table «Ecology and recycling of metallurgical wastes»	Grand Hall №3, 2nd fl.
14:30-17:30	Round table «Engineering of the production of equipment for the aluminum industry»	Big Hall, 2nd fl.
15:30-17:30	Section «Aluminium reduction technology»	Hall №3
09:00-18:00	Exhibition	Exhibition Hall №1
18:30-21:00	<i>Opening reception</i>	Ceremonial Hall, Grand Hall

WEDNESDAY, 11 SEPTEMBER		
09:00-17:20	Section «Alumina production»	Big Hall, 2nd fl.
09:00-17:40	Section «Aluminium reduction technology»	Hall №3
09:00-17:40	Section «Casting and new materials»	«Amphitheatre», 3rd fl.
09:00-17:00	Section «Metallurgy of non-ferrous metals»	Grand Hall №3, 2nd fl.
09:00-16:50	Section «Beneficiation technology of non-ferrous, rare and precious metals ores»	Grand Hall №2, 2nd fl.
10:00-12:30	Technical seminar «Prosoft-Systems's automation solutions for industrial enterprises and power industries»	Middle Hall
12:00-14:00	Seminar of the company RCC LABTEST «Equipment for analysis of composition and properties in metallurgical and mining and chemistry industries»	Small Hall
15:00-17:00	Round table «Development of aluminium reduction cell»	Small Hall
09:00-17:30	Exhibition	Exhibition Hall №1
18:00-21:30	<i>Cultural trips:</i> <ul style="list-style-type: none"> ● Siberian Extreme ● Boat cruise on the Yenisei river 	Departure from business center «Siberia»

THURSDAY, 12 SEPTEMBER		
09:00-17:00	Section «Alumina production»	Big Hall, 2nd fl.
09:00-10:30	Section «Aluminium reduction technology»	Hall №3
10:50-17:10	Section «Carbon materials»	Hall №3
09:00-10:20	Section «Casting and new materials»	«Amphitheatre», 3rd fl.
10:40-15:10	Section «Pressure treatment of aluminium and alloys»	«Amphitheatre», 3rd fl.
15:30-17:50	Section «Metal science of aluminium and alloys – Biront’s memory readings»	«Amphitheatre», 3rd fl.
09:00-13:30	Section «Metallurgy of non-ferrous metals»	Grand Hall №3, 2nd fl.
09:00-12:30	Section «Metallurgy of precious metals»	Grand Hall №2, 2nd fl.
13:00-17:40	Section «Metallurgy of rare metals»	Grand Hall №2, 2nd fl.
09:00-15:10	Conference «Mineral and raw materials sources of non-ferrous and precious metals»	Middle Hall
10:00-12:00	Seminar of the company «IMC Group» «Modern analytical equipment for production and scientific researches»	Small Hall
13:00-17:30	Round table «12 Quality Gates»	Small Hall
09:00-16:00	Exhibition	Exhibition Hall №1
18:00-21:30	<i>Boat cruise on the Yenisei river</i>	Departure from business center «Siberia»

FRIDAY, 13 SEPTEMBER		
	<i>Excursions:</i>	Departure from business center «Siberia»
08:00-18:00	Achinsk alumina refinery	
09:00-12:30 10:30-14:00	Krasnoyarsk aluminium smelter	
08:30-12:00 13:00-16:00	Krasnoyarsk Non-ferrous metals plant	
08:30-12:30 12:30-16:30	Scientific Research Center «POLYUS GOLD Krasnoyarsk»	
09:00-15:00	National Park «Stolby»	

Program of the XXVI Conference «Aluminium of Siberia»

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PLENARY SESSION

10 SEPTEMBER

Hall № 3

Chairmen: Dr., Prof. **P.V. Polyakov**, Siberian Federal University
PhD **V.Yu. Buzunov**, RUSAL ETC

Time	Title	Organization	Speaker
11:00-11:30	RUSAL's Technological Sustainability & Development	RUSAL	V. Mann
11:30-12:20	Problems and Technical Measures in the Development of China's Primary Aluminum Industry	Northeastern University, Shenyang	Zhaowen Wang
12:20-12:50	Charting a Promising Path: The Evolving Landscape of India's Aluminum Industry	Jawaharlal Nehru Aluminium Research development and design centre	Anupam Agnihotri
12:50-13:50	LUNCH		
13:50-14:20	GAMI's Practice in the Design and Construction of Alumina Projects	CHALIECO GUIYANG BRANCH / Guiyang Aluminium & Magnesium Design & Research Institute Co., Ltd	Ronghua Li
14:20-14:50	Current state and development of inert anodes	Northeastern University, Shenyang	Z. N. Shi

18:30-21:00	Opening reception	Ceremonial Hall, Grand Hall
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SECTION «ALUMINA PRODUCTION»

11 SEPTEMBER
Big Hall

Session 1. New projects and process improvement

Chairmen: PhD **A.V. Panov**, RUSAL ETC
A.I. Stepanenko, Gormashexport

Time	Title	Organization	Speaker
09:00-09:30	Optimization and analysis of alumina refinery design strategy	CHALIECO GUIYANG BRANCH / Guiyang Aluminium & Magnesium Design & Research Institute Co., Ltd	Zhenyong Luo
09:30-09:50	Solving the issue of bauxite ore sticking in the receiver cones of wet mills at Rusal Krasnoturyinsk	RUSAL ETC LLC	D.V. Rudakov
09:50-10:10	Improvement of the sinter slurry classification design at Rusal Kamensk-Uralsky	RUSAL ETC LLC	O.A. Nechaev
10:10-10:30	Modern trends in the design of radial thickeners	Gormashexport	A.A. Sokolova
10:30-10:50	Improvement of the flow for using process steam by autoclave trains at BAZ	RUSAL ETC LLC	D.V. Ovsyuchenko
10:50-11:10	BREAK		
11:10-11:30	Development and implementation of an energy-efficient aluminate liquor heater design for desilication area at RUSAL Achinsk JSC	RUSAL Achinsk	V.E. Bavchenkov
11:30-11:50	Increased utilisation rate of calcined alumina heat	RUSAL ETC LLC	B.V. Bratslavskiy

Session 2. Special grades of alumina and hydrate

Chairmen: **A.A. Smirnov**, RUSAL ETC
Dr. A.A. Shoppert, Ural federal University

12:00-12:20	Feasibility of reprocessing leachates from alumina production	RUSAL ETC LLC	A.V. Knyazev
12:20-12:40	Development of UC RUSAL's products based on highly dispersed precipitated aluminium hydroxide	RUSAL ETC LLC	A.S. Volobueva
12:40-13:00	Possibilities of the quantitative phase analysis for determination of polymorphic modifications in the composition of special grades of aluminium hydroxide produced by RUSAL Achinsk	RUSAL ETC LLC	V.V. Gak
13:00-14:00	LUNCH		

Session 3. Alumina R&D – theory, laboratory and pilot tests

Chairmen: **O.A. Nechaev**, RUSAL ETC
A.N. Pivovarov, RUSAL ETC

Time	Title	Organization	Speaker
14:00-14:20	Increasing productivity and intensification of the aluminium hydroxide recovery process from alkaline liquors in alumina production	RUSAL ETC LLC	D.V. Rudakov
14:20-14:40	Development of a comprehensive technology for processing loparite-containing tailings of the Lovozersky GOK processing plant to produce nepheline concentrate	«Giredmet» JSC	I. L. Fureev
14:40-15:00	Development of beneficiation process for Goryachaya Mt. Ore	RUSAL ETC LLC	A.A. Bliznets
15:00-15:20	Development of hydrochemical enrichment technology for SUBR bauxite to reduce the carbonate content	RUSAL ETC LLC	M.N. Pechyonkin

15:20-15:40	BREAK		
15:40-16:00	Practical results and perspectives for dry beneficiation of substandard ores and technogenic wastes by pneumatic separation method	Gormasheexport	A.I. Stepanenko
16:00-16:20	Gravity enrichment of the VKB grade bauxite from the North Urals bauxite mine	RUSAL ETC LLC	A.N. Pivovarov
16:20-16:40	Reduce sintering of high-ferrous nepheline ores	RUSAL ETC LLC	A.G. Suss
16:40-17:00	Recovery and recycling of lime component in complex processing of aluminosilicates	Saint-Petersburg Mining University	R.I. Maksimova
17:00-17:20	Conditioning of limestone-nepheline aggregate composition when using alkali-free raw material additives	Saint-Petersburg Mining University	R.V. Kurtenkov
17:20-17:40	Reduction of alkali loss during sintering of rating pulps of alumina production	Siberian federal university	N.V. Vasyunina

**12 September
Big Hall**

Chairmen: **D.V. Rudakov, RUSAL ETC**
M.N. Pechyonkin, RUSAL ETC

Time	Title	Organization	Speaker
09:00-09:30	Green, Low Carbon Manufacturing Technology and Equipment in Alumina Production	Shenyang Aluminum and Magnesium Engineering and Research Institute Company Limited	Chen Yuguo
09:30-09:50	Novel method of bauxite treatment using eletroreductive Bayer process	Ural Federal University	A.A. Shoppert
09:50 - 10:10	Calculation and experimental determination of phase equilibria with participation of gibbsite in partial sections of $\text{Na}_2\text{O} - \text{K}_2\text{O} - \text{Al}_2\text{O}_3 - \text{H}_2\text{O}$ system	Saint-Petersburg Mining University	A.T. Fedorov

10:10 - 10:30	Development of the method and creation of a unit for assessing effectiveness of various antiscalants in alumina production processes	RUSAL ETC LLC	D.S. Andreeva
10:30- 10:50	Product line of Global Chemical LLC. Chemical reagents for aluminum production	«Global Chemical» LLC	S.P. Zhidkoblinov, A.I. Krivyakov
10:50 - 11:10	BREAK		

Session 4. Digitalization of alumina production

Chairmen: PhD **V.O. Golubev**, RUSAL ETC
M.A. Sonnov, Fidesys

Time	Title	Organization	Speaker
11:10- 11:30	Digital technologies in alumina production service	RUSAL ETC LLC	V.O. Golubev
11:30- 11:50	Experience in applying numerical simulation of multiphase flows for the mining industry	AO «SIMULATION AND DIGITAL TWINS»	A.E. Morev
11:50- 12:10	Experience of using the vibroacoustic control method to determine the loading of bauxite mills	RUSAL ETC LLC	I.V. Blednykh
12:10- 12:30	Digital laboratory. The practice of using domestic CAE Fidesys software in the mining and metallurgical industry	Fidesys	M.A. Sonnov
12:30- 12:50	CFD simulation to improve the efficiency of airlift agitator in precipitators	RUSAL ETC LLC	D.S. Mayorov
12:50- 13:40	LUNCH		
13:40- 14:00	Program for calculation of ionic composition of equilibrium aluminate solutions in alumina production	Saint-Petersburg Mining University	A.T. Fedorov
14:00- 14:20	Simulation of an energy-efficient evaporator for anhydrous soda extraction at JSC RUSAL Achinsk	RUSAL ETC LLC	D.G. Chistyakov

14:20-14:40	CFD simulation to identify and mitigate the causes of wear in heating tubes of natural circulation evaporators	RUSAL ETC LLC	M.E. Blyum
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Session 5. Environment and waste utilization

Chairmen: PhD **A.V. Panov**, RUSAL ETC

PhD **A.G. Suss**, RUSAL ETC

Time	Title	Organization	Speaker
14:40-15:00	Transforming coal fly ash into a valuable metallurgical resource	CSIR-Institute of Minerals and Materials Technology	Kali Sanjay
15:00-15:20	Effect of reduced magnetite red mud addition on leaching of Boehmitic bauxite	Ural Federal University	M.M. Diallo
15:20-15:40	BREAK		
15:40-16:00	Analytical support for reprocessing red mud for production of scandium oxide, scandium-containing aluminium hydrate, and zirconium concentrate	RUSAL ETC LLC	T.G. Golovanova
16:00-16:20	Method for determination of PM2.5 and PM10 particles in emissions from calciners on the example of FRIGUIA bauxite and alumina complex	RUSAL ETC LLC	A. Bozhko
16:20-16:40	Price or value? The benefits of cooperation with a proven domestic manufacturer	Vzljot	M.Yu. Povarnitsyn
16:40-17:00	Section summary. Awarding of winners in the «Best report» nomination		

SECTION «ALUMINIUM REDUCTION TECHNOLOGY»

10 SEPTEMBER

Hall № 3

Chairmen: Dr., Prof. **P.V. Polyakov**, Siberian Federal University
PhD **V.Yu. Buzunov**, RUSAL ETC

Session 1. Modernization and retrofitting of the aluminium production

Time	Title	Organization	Speaker
15:30-16:10	Analysis of scientific and technical achievements in the aluminium industry (TMS 2024 materials)	Siberian federal university	P.V. Polyakov
16:10-16:40	Introduction on GAMI's High Amperage Potline Technologies	CHALIECO GUIYANG BRANCH / Guiyang Aluminium & Magnesium Design & Research Institute Co., Ltd	Song He
16:40-17:00	New inert anode technology solutions and products	RUSAL ETC LLC	A.O. Gusev
17:00-17:20	Start-up of RA-400 at the Tayshet Aluminum Smelter	RUSAL ETC LLC	I.I. Puzanov

18:30-21:00	Opening reception	Ceremonial Hall, Grand Hall
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11 SEPTEMBER

Hall № 3

Chairmen: **A.S. Zherdev**, SibVAMI JSC
Prof., Dr. V.A. Kryukovskiy, «RAM» JSC

Time	Title	Organization	Speaker
09:00-09:20	EGA Enhancements in Emergency Bypass Busbar Development and Readiness for Emergency Scenarios	Emirates Global Aluminium	A. Arkhipov
09:20-09:40	Modernisation of the ARMFS system using high-amperage technologies	RUSAL ETC LLC	P.A. Betev
09:40-10:00	RUSAL CAD for RA-550 technology as part of the environmental modernisation of aluminium smelters	SibVAMI JSC	N.L. Agapova
10:00-10:20	Research and application of electrolytic aluminum energy saving technology	Zhengzhou Jingwei Technology Industrial Co., LTD	Li Yingwu
10:20-10:40	BREAK		

Session 2. Improvement of the current technologies

Chairmen: **Prof. Bingliang Gao**, «Northeastern University, Shenyang, China
I.I. Puzanov, RUSAL ETC

Time	Title	Organization	Speaker
10:40-11:00	Key Problems of alumina dissolution in aluminum reduction cells	Northeastern University, Shenyang	Bingliang Gao
11:00-11:20	Successful implementation of a project on increasing amperage by 17 kA up to 330 kA on OA-300 pots at a RUSAL smelter	RUSAL ETC LLC	D.M. Semiyandinov
11:20-11:40	Monitoring system for electrolytic reduction technology	RUSAL ETC LLC	V.V. Chesnyak
11:40-12:00	Influence of porosity structure on Søderberg anode consumption	Siberian federal university	S.A. Zykov
12:00-13:00	LUNCH		

13:00-13:20	Protective coatings for annealed anode blocks of aluminium cells	RUSAL ETC LLC	N.V. Klimkina
13:20-13:40	Use of artificial cooling to reduce emissions from Soderberg anode surface	RUSAL ETC LLC	V.R. Shmal
13:40-14:00	Impact of provisional mechanical activation on the dissolution rate of alumina in an industrial cell	Siberian federal university	O.V. Yushkova

Session 3. Environmental technologies and labor protection

Chairmen: **I.I. Rebrik**, RAM, JSC
Dr. B.P. Kulikov, Siberian federal university

Time	Title	Organization	Speaker
14:00-14:20	New approaches to the solution of long-time environmental issues	Siberian federal university	B.P. Kulikov
14:20-14:40	Decarbonization and green development of electrolytic aluminum in China	China Green Metal Certification Center	Pei Wang
14:40-15:00	BREAK		
15:00-15:20	RUSAL's GTC for the RA-550 technology as part of the Environmental Retrofitting of the Aluminium Smelters	SibVAMI JSC	A.D. Shemet
15:20-15:40	Separation of secondary cryolite process flows to produce regeneration cryo-lite with a cryolite ratio of 2.8-3.2 and flotation cryolite with a cryolite ratio of 2.3-2.4	RUSAL ETC LLC	A.A. Gavrilenko
15:40-16:00	Using sulphur hexafluoride for prebaked anode reduction cell hood integrity control	RUSAL ETC LLC	A.G. Bozhko
16:00-16:20	3DESA - progressive technology for dust collection with bag filters	DESA Co. Ltd	V.V. Chekalov
16:20-16:40	Innovative technology of sulphur utilisation with commercial production	RUSAL ETC LLC	A.A. Gushchinskiy

16:40-17:00	Technology for the calcium fluoride production from potroom liquors and solid waste	RUSAL ETC LLC	L.V. Gavrilenko
17:00-17:20	Assessing the influence of magnetic fields of different types from cells on the operating staff in potrooms	RUSAL ETC LLC	E.Yu. Radionov
17:20-17:40	Measurement of gaseous HF using the FTIRGAS 22 in-line IR-Fourier analyzer	Evrotechlab Co.Ltd.	V.V. Shevchenko

12 SEPTEMBER
Hall № 3

Session 4. Lifetime of aluminium reduction cells cathodes

Chairmen: Dr., Prof. **A.V. Proshkin**, RUSAL ETC
Dr. **A.L. Yurkov**, «Volzhsky Abrasive works» JSC

Time	Title	Organization	Speaker
09:00-09:20	Current state and development perspectives of unshaped lining materials technology	RUSAL ETC LLC	A.V. Proshkin
09:20-09:40	Using composite material to extend cathode lifespan and increase electromagnetic stability of cell operation	RUSAL ETC LLC	E.R. Shaydulin
09:40-10:00	Laboratory corrosion testing of silicon carbide and silicon nitride materials and issues related to improving corrosion resistance	JSC «Volzhsky Abrasive works»	A.L. Yurkov
10:00-10:20	The influence of physical and chemical parameters of nitride bonded silicon carbide refractory products on corrosion resistance	JSC «Volzhsky Abrasive works»	O.Yu. Danilova
10:20-10:30	Section summary. Awarding of winners in the «Best report» nomination		

Poster session

Title	Organization	Speaker
Determination of the continuous alumina feeding parameters	Siberian federal university	D.Yu. Varyukhin
Electrolytic refining of Al-Fe alloy through a diaphragm	Siberian federal university	I. M. Moiseenko

SECTION «CARBON MATERIALS»

12 September

Hall №3

Chairmen: Yu.A. Frantsev, RUSAL ETC
PhD V.A. Safin, Siberian Federal University

Session 1. Enlargement and modernization of carbon paste and prebaked anodes production capacities

Time	Title	Organization	Speaker
10:50-11:10	The analysis on process and equipment selection for baked anode plant	CHALIECO GUIYANG BRANCH / Guiyang Aluminium & Magnesium Design & Research Institute Co., Ltd	Shangqing Cheng
11:10-11:30	Firebriks for RIEDHAMMER's anode baking furnaces	«BOROVICHI REFRACTORIES PLANT», JSC	V.V. Skurikhin
11:30-11:50	Refractory materials manufactured by Kazogneupor 2015 LLP for anode baking furnaces in Russia and CIS countries	REFACTOR, Ltd	I.A. Serbikov
11:50-12:10	Experience with the use of screw-tooth crushers for crushing carbon materials	Gormasheexport	A.I. Stepanenko
12:10-13:00	LUNCH		

Session 2. Improvement of the technology of aluminium cells anodes production

Time	Title	Organization	Speaker
13:00-13:20	Current Status and Development Trends of Anode Production Technology for Aluminum in China	Shenyang Aluminum and Magnesium Engineering and Research Institute Company Limited	Liu Chaodong

13:20-13:40	Enhancing the quality of annealed anodes at Sayanogorsk aluminium smelter	RUSAL ETC LLC	A.V. Sivkov
13:40-14:00	An alternative method of controlling the particle size distribution of the total charge, controlling the dosing of the binder pitch according to the apparent density of the green anode	RUSAL ETC LLC	K.Yu. Perminov
14:00-14:30	Anode Quality Control – Theory & Practice	Consultant, Germany / Kazakhstan	F. Morawietz
14:30-14:50	Anode non-destructive testing package and anode butts inspection system	RUSAL ETC LLC	I.I. Puzanov
14:50-15:10	Unification of requirements and inspection charts for anode blocks	RUSAL ETC LLC	M.V. Lepp
15:10-15:50	BREAK		

Session 3. Development of the raw materials base for the electrodes industry

Time	Title	Organization	Speaker
15:50-16:10	Carbon black as components of lithium-ion batteries	Center of New Chemical Technologies BIC	O.V. Potapenko
16:10-16:30	Matrix synthesis of macroporous carbon materials	Center of New Chemical Technologies BIC	O. A. Knyazheva
16:30-16:50	Aromatic concentrates from coal as a feedstock for carbon materials production	Siberian federal university	V.A. Safin
16:50-17:10	Section summary. Awarding of winners in the «Best report» nomination		

Poster session

Title	Organization	Speaker
Practice of industrial use of coal electrodes with through axial holes in smelting of metallurgical-grade silicon	Irkutsk National Research Technical University	N. V. Nemchinova

SECTION «CASTING TECHNOLOGY AND NEW MATERIALS»

10 SEPTEMBER
«Amphitheatre», 3rd fl.

Session 1. New materials and treatment technology

Chairmen: **A.Yu. Krokhin**, «RAM» JSC
Martijn Vos, «RAM» JSC

Time	Title	Organization	Speaker
13:30-13:50	Strength, electrical conductivity and thermal stability of aluminum-based composite conductors	Saint Petersburg State University	M.Yu. Murashkin
13:50-14:10	Structure and mechanical properties of non-heat treatable sheet alloy Al–2wt.%Cu–1.5wt.%Mn (Mg, Zn, Fe, Si)	NUST MISIS	N. A. Belov
14:10-14:30	Study of the formation of mechanical properties during the production of electrical foil from new alloys of the ALTEC system	Siberian State Industrial University	A.A. Levagina
14:30-14:50	Development of Al–Zn–Ca casting aluminum alloy with high thermal conductivity for industrial electronics and electric vehicle industry	NUST MISIS	A.A. Lyskovich
14:50-15:10	The influence of tin Sn and calcium Ca additions on the structure and mechanical properties of new generation Al-Cu(-Si) alloys	NUST MISIS	T.K. Akopyan
15:10-15:30	Efforts in joint R&D and industrialization of technical achievements in the aluminum industry of SAAC	Shandong Advanced Aluminum Community	Zheng Yunzhi
15:30-15:50	BREAK		
15:50-16:10	Mechanical and corrosion properties of Al-Ca alloy for high pressure die casting	ILMiT LLC	D.O. Fokin

16:10-16:30	Structure and properties of «natural composites» based on the Al-Ca-Ce-Zn system	NUST MISIS	E.A. Naumova
16:30-16:50	Products of research and production center «magnetic hydrodynamics» from small-section ingots obtained in an electromagnetic field	Research and Production Center of Magnetic Hydrodynamics, LLC	G.P. Usynina
16:50-17:10	Aluminum is a raw material for the development of promising technologies for creating new powder materials	Institute of Solid-State Chemistry UB RAS	V.G. Shevchenko

18:30-21:00	Opening reception	Ceremonial Hall, Grand Hall
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11 September
«Amphitheatre», 3rd fl.

Session 2. Aluminium recycling

Chairmen: Dr. Prof. **S.V. Belyaev**, Siberian Federal University
Dr. Prof. **V.N. Timmofeev**, Siberian Federal University,
RPC of Magnetic Hydrodynamics, LLC

Time	Title	Organization	Speaker
09:00-09:30	Current status and problems of aluminum recycling in Japan on the example of the automotive industry	Tohoku University, Japan	S. V. Komarov
09:30-09:50	About the possibility of waste-free processing of foundry slag	Siberian federal university	N. S. Dombrovskiy
09:50-10:10	Processing of aluminium slag	RUSAL ETC LLC	A.B. Krechetov
10:10-10:30	Recycling Al-Si alloys with high iron contamination	Jawaharlal Nehru Aluminium Research Development & Design Centre	R. N. Chouhan

10:30-10:50	Processing of enrichment screenings and secondary slag from aluminum separation areas	DAR.RU	D.A. Platonov
10:50-11:10	Upscaling recycling alloys with ultrasonic melt treatment	«RAM» JSC	M. Vos
11:10-11:30	BREAK		

Session 3. Equipment and technology for melt processing

Chairmen: Dr., Prof. **S.V. Belyaev**, Siberian Federal University
 Dr., Prof. **V.N. Timmofeev**, Siberian Federal University,
 RPC of Magnetic Hydro-dynamics, LLC

Time	Title	Organization	Speaker
11:30-11:50	Industrial Application of Ultrasonic Vibrations to Direct-chill (DC) Casting of Aluminum Alloys : Potential and Limitations	Tohoku University, Japan	S. V. Komarov
11:50-12:10	High Efficient Impeller for Aluminum Melt Purification	Tohoku University, Japan	S. V. Komarov
12:10-12:30	Implementing experience of electrical technological equipment and promising developments in the field of electromagnetic (EMS) application technologies	Research and Production Center of Magnetic Hydrodynamics, LLC	M.Yu. Khatsayuk
12:30-13:20	LUNCH		

Session 4. Modern methods for quality control, modelling and application of machine education

Chairmen: PhD **V.N. Baranov**, Siberian Federal University

PhD **V.F. Frolov**, RUSAL ETC LLC

Time	Title	Organization	Speaker
13:20-13:40	Using math simulation to develop foundry tooling for continuous casting of slabs	RUSAL ETC LLC	I.A. Strombskoy
13:40-14:00	Theory and practice of designing moulds for casting slabs from aluminium alloys	RUSAL ETC LLC	I.I. Bukelmanov
14:00-14:20	Recent experiences with computer vision technology in casting production	«RAM» JSC	A.N. Alabin
14:20-14:40	Application of artificial intelligence in casting production	RUSAL ETC LLC	N.E. Lashchukhin

Session 5. Aluminium alloys casting technology

Time	Title	Organization	Speaker
14:40-15:00	New design of trough for improving the quality of aluminum wire rod	Rezonance Ltd.	V.A. Goremykin
15:00-15:20	Impact of casting parameters on magnesium macroliquation in slabs of 5xxx series aluminium alloys	«RAM» JSC	I.V. Kostin
15:20-15:40	BREAK		
15:40-16:00	On the possibility of combining casting and homogenization processes when casting large-sized ingots from Al-Mg system alloys	Kamensk Uralsky Metallurgical Works, JSC	P.L. Kokovin
16:00-16:20	RUSAL's pilot casting complex an integrated approach to innovation: from concept to implementation	RUSAL ETC LLC	S.N. Konovalov

16:20-16:40	RUSAL Casting Systems — a Russian industrial solution for foundries	RUSAL ETC LLC	N.E. Lashchukhin
16:40-17:00	Improving the purity of aluminium alloy castings by using scull in the casting wheel	RUSAL ETC LLC	A.N. Alabin
17:00-17:20	Casting of passenger wheels from Al-Ni-Fe alloy	ILMiT LLC	D.O. Fokin
17:20-17:40	Separation coating for metal moulds of low-pressure casting of aluminium alloys	Casting and Mechanical Plant SKAD Ltd	M.M. Antonov

12 SEPTEMBER
«Amphitheatre», 3rd fl.

Session 6. Modification of aluminium alloys

Chairmen: Dr. **N.A. Belov**, NUST MISIS
PhD **A.N. Alabin**, «RAM» JSC

Time	Title	Organization	Speaker
09:00-09:20	Manufacturing technology of the Al-Ti-B system modifier	Siberian Federal University	S.V. Belyaev
09:20-09:40	Investigation of the method of obtaining modifying rods from secondary waste of aluminum alloys by the method of ingotless rolling-extrusion	Siberian Federal University	S.B. Sidelnikov
09:40-10:00	Modifying flux for casting passenger vehicle wheels	ILMiT LLC	D.O. Moiseev
10:00-10:20	Advanced master alloys for cast aluminum alloys	Siberian Federal University	O.V. Yushkova
10:20-10:40	BREAK		

17:30-17:50	Section summary. Awarding of winners in the «Best report» nomination	«Amphitheatre»
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SECTION «PRESSURE TREATMENT OF ALUMINIUM AND ALLOYS»

12 SEPTEMBER
«Amphitheatre», 3rd fl.

Chairman: Prof. Dr. **S.B. Sidelnikov**, Siberian Federal University

Session 1. Aluminium alloys with Sc

Time	Title	Organization	Speaker
10:40-11:00	Features of the behavior of Al-Mg-Sc system alloys in the manufacture of large-sized sheets and plates	Kamensk Uralsky Metallurgical Works, JSC	B.V. Ovsyannikov
11:00-11:20	Investigation of the effect of hot rolling temperature on mechanical properties of sheets in high-magnesium aluminum alloys with Sc, Zr, Hf and Er additives	«Samara Metallurgical Plant» JSC	K.A. Malkin

Session 2. Technology of thermal deformation treatment of aluminium alloys

Time	Title	Organization	Speaker
11:20-11:40	Extruform Technology — the contemporary standard for aluminium rod production equipment	RUSAL ETC LLC	A.V. Salnikov
11:40-12:00	Influence of regulations of the technological cycle for the production of cold-rolled roles of aluminum alloys Al-Cu-Mg systems for grain size and mechanical properties	Kamensk Uralsky Metallurgical Works, JSC	K.T. Isyakaev
12:00-12:20	Selection of thermomechanical treatment modes for the purpose of optimizing the production cycle of pressing aluminum deformable alloys	Kamensk Uralsky Metallurgical Works, JSC	N.A. Kalinina
12:20-13:10	LUNCH		

13:10-13:30	Improving the «strength-electrical conductivity» relationship of the Al-Fe aluminum alloys system by casting into an electromagnetic crystallizer and using combined deformation processing	Ufa University of Science and Technology	M.Yu. Murashkin
13:30-13:50	Study of the influence of ingotless rolling-extrusion, annealing and drawing on the properties of heat-resistant conductor wire of Al-(Ce,La,Zr)-Fe system alloys	Siberian Federal University	V.A. Bergardt

Session 3. Modelling of deformation treatment processes

Time	Title	Organization	Speaker
13:50-14:10	Modeling of the rolling process clad sheets from AMG6 alloy	Kamensk Uralsky Metallurgical Works, JSC	A.V. Degtyarev
14:10-14:30	Modeling of the process of combined rolling and pressing of cast Mg90 grade magnesium semi-finished products in the QForm software package	Siberian Federal University	A.V. Parubok
14:30-14:50	Development of model of recrystallization texture evolution during rolling of aluminum alloys	Siberian State Industrial University	E.V. Aryshensky
14:50-15:10	Computer simulation of combined processes for the production car wheels	Siberian Federal University	Yu.V. Baykovskiy
15:10-15:30	BREAK		

17:30-17:50	Section summary. Awarding of winners in the «Best report» nomination	«Amphitheatre»
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**SECTION «METAL SCIENCE OF ALUMINIUM AND ALLOYS –
 BIRONT'S MEMORY READINGS»**

12 SEPTEMBER
«Amphitheatre», 3rd fl.

Chairmen: Dr., Prof. **V.P. Zhreb**, Siberian federal university
 PhD **E.S. Lopatina**, Siberian federal university

Time	Title	Organization	Speaker
15.30-15.50	Tests for corrosion resistance to molten aluminum of refractory concrete with anti-wetting additives	REFACTOR, Ltd	M.A. Petrova
15:50-16:10	RUSAL ETC Experience in production of standard samples of aluminium and aluminium alloys	RUSAL ETC LLC	A.B. Krechetov
16:10-16:30	Automated analysis of aluminum alloys structure	SIAMS Company	T.A. Sivkova
16:30-16:50	Application of artificial intelligence in the creation of new materials	Innopolis University	D.E. Shevelev
16:50-17:10	Innovative system for automatic analysis of microstructure quality of 6xxx series alloys billets for extrusion	RUSAL ETC LLC	I.V. Gerasimov
17:10-17:30	Equipment for analysis of metals and minerals	«Melytec» LLC	O.N. Zobnina
17:30-17:50	Section summary. Awarding of winners in the «Best report» nomination		«Amphitheatre»

Poster session

Title	Organization	Speaker
Synergistic recycling of steel tool dust with secondary aluminum	University of Belgrade	V.D. Manojlović
Development prospects of a grain refiner for aluminum alloys based on lanthanum	Siberian federal university	L.E. Tanachev
Effect of holding time of the treated melt 1379s on the growth of primary silicon crystals	Siberian federal university	N.A. Stepanenko

• XXVI CONFERENCE «ALUMINIUM OF SIBERIA» •
METAL SCIENCE OF ALUMINIUM AND ALLOYS – BIRONT'S MEMORY READINGS •

Investigation of the properties of cold-resistant alloy imported steel for welded-cast quarry excavators, selection of a domestic analogue and their comparison	Siberian Federal University	A.G. Khokhlov
New technical solutions for producing sheet stamped parts from aluminum alloy 1580	Siberian Federal University	M.V. Voroshilova

- XVII CONFERENCE «METALLURGY OF NON-FERROUS, RARE AND PRECIOUS METALS» NAMED AFTER CORRESPONDING MEMBER OF THE RAS G.L. PASHKOV • XVI CONFERENCE «GOLD OF SIBERIA» •

**Program of the XVII Conference
«Metallurgy of non-ferrous, rare and precious metals»
named after Corresponding Member
of the RAS G.L. Pashkov**

XVI Conference «Gold of Siberia»

Section «BENEFICIATION TECHNOLOGY OF NON-FERROUS, RARE AND PRECIOUS METALS ORES»	30
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- XVI CONFERENCE «GOLD OF SIBERIA» •
- BENEFICIATION TECHNOLOGY OF NON-FERROUS, RARE AND PRECIOUS METALS ORES •

SECTION «BENEFICIATION TECHNOLOGY OF NON-FERROUS, RARE AND PRECIOUS METALS ORES»

11 SEPTEMBER
Grand Hall №2, 2nd floor

Chairmen: PhD **N.K. Algebraistova**, Siberian Federal University
 PhD **E.A. Burdakova**, Siberian Federal University

Time	Title	Organization	Speaker
09:00-09:20	Assessment of the impact of physical and mechanical ore properties on the process plant performance	Polyus Krasnoyarsk JSC	A.N. Pugach
09:20-09:40	Processing of low-nickel pyrrhotite dump waste product of the Talnakh concentrator	PJSC “MMC “Norilsk Nickel”	L.S. Lesnikova
09:40-10:00	Prediction modelling for process plant performance based on chemical composition of the feed material	Polyus Krasnoyarsk JSC	A.O. Strizhnev, E.V. Cherkashina
10:00-10:20	Geological and petrographic summary of the Ilyinsky site, Upper Yenashim ore cluster	Polyus Krasnoyarsk JSC	D.A. Ryabova
10:20-10:40	Modeling the process of leaching from copper-nickel ore enrichment tailings by au-tochthonous microflora	Institute of Chemistry and chemical technology SB RAS	Yu.L. Gurevich
10:40-11:00	BREAK		
11:00-11:20	Calaverite ore heap leaching specifics	Polyus Krasnoyarsk JSC	L.L. Tikhonov
11:20-11:40	Complex processing of gold placers in the south of the Far East	Institute of Chemistry Far Eastern Branch, RAS	M.A. Medkov
11:40-12:00	The potential for biotechnological methods to enhance the quality of lead concentrates	Siberian Federal University	I.V. Prokopyev

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- XVI CONFERENCE «GOLD OF SIBERIA» •
- BENEFICIATION TECHNOLOGY OF NON-FERROUS, RARE AND PRECIOUS METALS ORES •

12:00-12:20	Identification and investigation of the new crystal structure of the valleriite-tochilinite morphotropic series	Institute of Chemistry and chemical technology SB RAS	D.V. Karpov
12:20-13:20	LUNCH		
13:20-13:40	Performance evaluation of using collectors combinations in the collective flotation of lead-zinc ores	Siberian Federal University	A.A. Plotnikova
13:40-14:00	Decomposition of rocks for elemental analysis	Institute of Chemistry Far Eastern Branch, RAS	M.A. Medkov
14:00-14:20	Automated X-ray analysis of mineral composition of ores and concentrates in process control	Siberian Federal University	I.S. Yakimov
14:20-14:40	Old gold-bearing dumps and methods of involving them in recycling	IRGIREDMET, JSC	S. V. Gruba
14:40-15:00	Application of optical-electronic measurement techniques in tasks of diagnostics of multiphase flows	Kutateladze Institute of Thermophysics of the SB RAS	I.K. Kabardin
15:00-15:20	BREAK		
15:20-15:40	Methods for studying the local hydrodynamic structure of multiphase flows	Kutateladze Institute of Thermophysics of the SB RAS	I.K. Kabardin
15:40-16:00	Issues of rare earth elements control in ores, enrichment products, and products of metallurgical treatment	VNIItsvetmet Affiliate of the RSE «NC CPMRM RK»	A.A. Ermoshkina
16:00-16:20	Application of FlowVision domestic software system for simulation of technological processes in mining industry	TESIS Ltd.	K.A. Semenov
16:20-16:30	Discussion of Poster session		
16:30-16:50	Section summary. Awarding of winners in the «Best report» nomination		

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- XVI CONFERENCE «GOLD OF SIBERIA» •
- BENEFICIATION TECHNOLOGY OF NON-FERROUS, RARE AND PRECIOUS METALS ORES •

Poster session

Title	Organization	Speaker
To the issue of flotation enrichment potential ore of Raisinskoye deposit	Siberian Federal University	N.I. Konnova
Flotation testing of the ore sample of the windbreak ore occurrence	Siberian Federal University	N.I. Konnova

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- XVI CONFERENCE «GOLD OF SIBERIA» • METALLURGY OF NON-FERROUS METALS •

SECTION «METALLURGY OF NON-FERROUS METALS»

11 SEPTEMBER
Grand Hall №3, 2nd floor

Chairmen: PhD **L.V. Krupnov**, PJSC «MMC «Norilsk Nickel»

PhD **R.S. Voinkov**, JSC Uralelektromed

Time	Title	Organization	Speaker
09:00-09:20	Commercial antimony recovery by vacuum distillation	JSC Uralelektromed	S.V. Sergeichenko
09:20-09:40	Study on reaction characteristics of fluidized reduction roasting of laterite nickel ore under coal gas action	Institute of Engineering Thermophysics, Chinese Academy of Sciences	Siqi Zheng
09:40-10:00	Application of carbon containing secondary materials at pyrometallurgical operations of Nornickel Polar Division	PJSC «MMC «Norilsk Nickel»	P.G. Paymushkin
10:00-10:20	Properties and characteristics of mineral valleriite	Institute of Chemistry and chemical technology SB RAS	A.A. Karacharov
10:20-10:40	The using of mechanical water purification technology for metallurgical plants	SPC PROMVODOCHISTKA	A.V. Barynkin
10:40-11:00	BREAK		
11:00-11:20	Recovery of lead from oxygen and sulfide compounds in alkaline melts, in relation to technologies for processing secondary and mineral raw materials	Siberian Federal University	M.V. Chekushin
11:20-11:40	Production of commercial antimony through sodium antimonate treatment	JSC Uralelektromed	R.S. Voinkov
11:40-12:00	Study of properties of intermediate layer formed in Vanyukov furnace while processing nickel-containing copper feed	PJSC «MMC «Norilsk Nickel»	L.V. Krupnov

12:00-12:20	Development of high purity tellurium production technology	UMMC Technical University	V.A. Kochin
12:20-12:40	Specifics of cobalt production at Kola MMC's remanufacturing facility	Tananaev Institute of Chemistry - Subdivision of the Federal Research Centre «Kola Science Centre of the RAS»	A.G. Kasikov
12:40-13:40	LUNCH		
13:40-14:00	On the role of engineering companies and technological sovereignty	«Gormasheexport» JSC	A.A. Shchetinin
14:00-14:20	Technological audit and optimization of thickening and water recycling schemes	«Gormasheexport» JSC	A.A. Sokolova
14:20-14:40	Use of quartzite in copper-nickel fine matte pyrometallurgy	PJSC «MMC «Norilsk Nickel»	P.V. Malakhov
14:40-15:00	Synthesis of hybrid nanoparticles CuFe ₂ O ₄ /Au and CuO/Au with using the anion-exchange resin precipitation method	Siberian Federal University	A. Y. Pavlikov
15:00-15:20	Copper concentrates hydrothermal enrichment technology	Ural Federal University	A.V. Kritskii
15:20-15:40	BREAK		
15:40-16:00	Exploration and Processing of Critical Minerals – Potential of CSIR	CSIR-Institute of Minerals and Materials Technology	Kali Sanjay
16:00-16:20	Critical Minerals: Recovery of Ta, Nb, and Ni metal from secondary industry waste	Jawaharlal Nehru Aluminium Research Development and Design Centre	Upendra Singh
16:20-16:40	Molten Salt Electrowinning of Magnesium, Rare Earths, Recycling of Spent Lithium Ion Batteries: Capabilities And Opportunities	CSIR - Central Electro-chemical Research Institute	K. Ramesha
16:40-17:00	Measurement of parameters of molten metals	Sidermag, LLC	E.S. Shubin

- XVII CONFERENCE «METALLURGY OF NON-FERROUS, RARE AND PRECIOUS METALS» ●
- XVI CONFERENCE «GOLD OF SIBERIA» ● METALLURGY OF NON-FERROUS METALS ●

17:00-17:20	Possibilities of mass spectrometry with glow discharge in the analysis of metals and alloys	RCC LABTEST	A.E. Kamenshchikov
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12 SEPTEMBER
Grand Hall №3, 2nd floor

Chairmen: Dr. Prof. **N.V. Oleinikova**, Siberian Federal University
P.V. Malakhov, PJSC «MMC “Norilsk Nickel”»

Time	Title	Organization	Speaker
09:00-09:20	Iron removal from zinc-containing solutions in the form of jarosite	Nietz Technologies	S.Y. Polezhaev
09:20-09:40	Ash & slag utilization in pyrometallurgy of Norilsk Polar Division	PJSC «MMC «Norilsk Nickel»	V.V. Velichko
09:40-10:00	Experience with the use of screw-tooth crushers in ore preparation processes for clay-containing raw materials	«Gormasheport» JSC	A.A. Stepanenko
10:00-10:20	Preparation and investigation of the photocatalytic activity of nanocomposites based on nickel and silver ferrite	Siberian Federal University	V.E. Razvozzhaeva
10:20-10:40	Impact of the temperature level on extraction recovery of copper from the PLS generated from Kazakhstani copper ores heap leaching process	VNIItsvetmet Affiliate of the RSE «NC CPMRM RK»	N.Ye. Yakushev
10:40-11:00	Development of high purity selenium production technology	UMMC Technical University	S.A. Krauhin
11:00-11:20	BREAK		
11:20-11:40	Kinetic study of lead extraction from polymetallic concentrates	Tajik technical University by name of M.S. Osimy	Z.H. Gaibullaeva
11:40-12:00	A study on the photocatalytic activity of nickel-ferrite/zinc oxide magnetic composites	Siberian Federal University	A.A. Marchenko

- XVII CONFERENCE «METALLURGY OF NON-FERROUS, RARE AND PRECIOUS METALS» •
- XVI CONFERENCE «GOLD OF SIBERIA» • METALLURGY OF NON-FERROUS METALS •

12:00-12:20	Obtaining and investigation of photocatalytic properties of nickel-gold ferrite nanocompo-sites	Siberian Federal University	M. E. Fedosenko
12:20-12:40	Synthesis of ultra-small NiMnO ₃ nanoparticles using probe sonication: the effect of the solvent on the size and morphology of the particles	Siberian Federal University	A. E. Krolikov
12:40-13:00	Practice, methods and tools for calculating, monitoring and reducing the carbon footprint of operations and products	DAR.RU	D.A. Platonov
13:00-13:15	Opportunities for the supply of equipment from Chinese manufacturers and leading global manufacturers for analytical control at all stages of the production of non-ferrous and precious metals	«Energolab» LLC	M.I. Melnik
13:15-13:20	Discussion of Poster session		
13:20-13:30	Section summary. Awarding of winners in the «Best report» nomination		

Poster session

Title	Organization	Speaker
Environmentally friendly sphalerite treatment in acid water solution	Institute for Technology of Nuclear and Other Mineral Raw Materials	M.D. Bugarčić
Leaching of lead from intermediate products of zinc metallurgy	Institute for Technology of Nuclear and Other Mineral Raw Materials	D.Z. Anđić

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- XVI CONFERENCE «GOLD OF SIBERIA» • METALLURGY OF PRECIOUS METALS •

SECTION «METALLURGY OF PRECIOUS METALS»

12 SEPTEMBER
Grand Hall №2, 2nd floor

Chairmen: Dr. **N.V. Belousova**, Siberian Federal University
 Dr. **O.V. Belousov**, Institute of Chemistry and chemical technology SB RAS

Time	Title	Organization	Speaker
09:00-09:20	The use of biotechnology to solve environmental and technological problems of gold mining	IRGIREDMET, JSC	M.P. Nepomniashchikh
09:20-09:40	Development of technology for high pressure hydrometallurgical processing of gold-containing material with preliminary atmospheric oxidation using recycled high pressure oxidation products	Nietz Technologies	R.R. Anohin
09:40-10:00	Increasing the intensity of bio-oxidation of refractory gold-bearing concentrate	Research Center of Biotechnology RAS	A.G. Bulaev
10:00-10:20	Ammonium sulfite leaching of silver chloride cementate	JSC Uralelektromed	P.A. Klishina
10:20-10:40	Hydrothermal production of nanomaterials based on noble metals and their composites with nickel	Institute of Chemistry and chemical technology SB RAS	R.V. Borisov
10:40-11:00	BREAK		
11:00-11:20	Comparison of titanium and platinum dissolution rates under autoclave oxidizing conditions	Institute of Chemistry and chemical technology SB RAS	A.A. Akimenko
11:20-11:40	Development of a synthesis technique and characterization of conductive inks based on highly-concentrated silver organosols	Institute of Chemistry and chemical technology SB RAS	M. Yu. Flerko
11:40-12:00	Study of regeneration of vacuum filters ceramic sections using different washing compositions	Polyus Krasnoyarsk JSC	M.V. Tropin

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- XVI CONFERENCE «GOLD OF SIBERIA» • METALLURGY OF PRECIOUS METALS •

12:00-12:10	Discussion of Poster session
12:10-12:30	Section summary. Awarding of winners in the «Best report» nomination

Poster session

Title	Organization	Speaker
On the question of the forms of existence of palladium(II) complexes in sulfate-chloride solutions	MIREA – Russian Technological University	M.A. Evtyukhin

SECTION «METALLURGY OF RARE METALS»

12 SEPTEMBER
Grand Hall №2, 2nd floor

Chairmen: Dr. **V.I. Kuzmin**, Institute of Chemistry and chemical technology SB RAS
 Member of RAS **A.A. Voshkin**, Kurnakov Institute of General and Inorganic Chemistry of the RAS

Time	Title	Organization	Speaker
13:00-13:20	Deep eutectic solvents – promising extractants	Kurnakov Institute of General and Inorganic Chemistry of the RAS	A.A. Voshkin
13:20-13:40	Development of a comprehensive technology for processing lithium mica ores	«Giredmet» JSC	I.L. Fureev
13:40-14:00	Scandium extraction from sulfuric acid solutions in systems with di (2-ethylhexyl) phosphoric acid	Institute of Chemistry and chemical technology SB RAS	N.A. Grigorieva
14:00-14:20	Results of industrial implementation of improved extraction technology for metallic indium extraction	Chelyabinsk Zinc Plant CZP, JSC	A.E. Vasilyeva
14:20-14:40	Obtaining lithium carbonate from the «black mass» of lithium-ion batteries	Siberian Federal University	S. A. Aleinikov
14:40-15:00	The main minerals are Nb and REE in high-grade ores of the Tomtor deposit	V.S. Sobolev Institute of Geology and Mineralogy SB RAS	E.V. Lazareva
15:00-15:20	BREAK		
15:20-15:40	Anion resin exchange synthesis of indium(III) and tin(IV) hydrosols for producing transparent conductive films	Institute of Chemistry and chemical technology SB RAS	N.P. Fadeeva
15:40-16:00	Extraction of gallium from aluminum smelting carbon dust	Siberian Federal University	Ya.V. Kazantsev

- XVII CONFERENCE «METALLURGY OF NON-FERROUS, RARE AND PRECIOUS METALS» •
- XVI CONFERENCE «GOLD OF SIBERIA» • METALLURGY OF RARE METALS •

16:00-16:20	Assessment of prospects for chemical enrichment of rare metal ores of the Tomtor deposit	Institute of Chemistry and chemical technology SB RAS	O.A. Epov
16:20-16:40	Use of ion-exchange processes in the technology of mining and production of rare and radioactive metals (experience and developments of VNIPIPT JSC)	Design & Survey and Research & Development Institute of Industrial Technology, JSC	A.V. Tatarnikov
16:40-17:00	Bimetallic rare metal alkoxides - precursors for the production of metal and oxide systems	MIREA – Russian Technological University	K. O. Lyasnikov
17:00-17:20	Scheme of extraction cascades for the extraction of heavy group lanthanides by binary extractants	Institute of Chemistry and chemical technology SB RAS	S.N. Kalyakin
17:20-17:30	Discussion of Poster session		
17:30-17:40	Section summary. Awarding of winners in the «Best report» nomination		

Poster session

Title	Organization	Speaker
A deep eutectic solvent based on dialkylphosphinic acid in Nd(III) extraction	Kurnakov Institute of General and Inorganic Chemistry of the RAS	Yu.A. Zakhodyaeva

- VII CONFERENCE « MINERAL AND RAW MATERIALS SOURCES OF NON-FERROUS AND PRECIOUS METALS»
- MINERAL AND RAW MATERIALS SOURCES OF NON-FERROUS AND PRECIOUS METALS •

PROGRAM OF THE VII CONFERENCE «MINERAL AND RAW MATERIALS SOURCES OF NON-FERROUS AND PRECIOUS METALS»

SECTION «MINERAL AND RAW MATERIALS SOURCES OF NON-FERROUS AND PRECIOUS METALS»

12 SEPTEMBER
Middle Hall

Chairman: Dr., Prof. **V.A. Makarov**, Siberian Federal University

Time	Title	Organization	Speaker
09:00-09:20	State and outlooks for development of the gold mineral resource base of the Russian Federation	Central Research Institute of Geological Prospecting for Base and Precious Metals	D.A. Korchagina
09:20-09:40	The ratio of solid chemical elements and gases in minerals and rocks as a geochemical indicator	Siberian Federal University	M.M. Labushev
09:40-10:00	Positioning of large fluidogenic deposits (Gorevskoe, Ak-Sug, Olympiadneskoye) in regional geophysical fields	Siberian Federal University	S.M. Makeev
10:00-10:20	Nature of secondary geochemical halos of the Temir ore field and prospects for identifying new ore-bearing areas	Siberian Federal University	A. D. Martynova
10:20-10:40	Chemical composition of gold in particle-size fractions of placers of the Amylo-Sistigkhem district: genetic conclusions (Western Sayan)	Siberian Federal University	A.M. Sazonov
10:40-11:00	BREAK		
11:00-11:20	Riphean-Vendian-Cambrian stratigraphic level of stratiform polymetallic deposits framing the Siberian Platform	Siberian Federal University	P.A. Karyagin

- VII CONFERENCE « MINERAL AND RAW MATERIALS SOURCES OF NON-FERROUS AND PRECIOUS METALS»
- MINERAL AND RAW MATERIALS SOURCES OF NON-FERROUS AND PRECIOUS METALS ●

11:20-11:40	Ore mineralization of intrusive rocks of the Kiya- Shaltyrsky massif (Kuznetsky Alatau)	Siberian Federal University	L.T. Koulemou
11:40-12:00	Modern possibilities of studying minerals and processes in synchrotron radiation experiments	Siberian Federal University	D.V. Khlystov
12:00-12:20	New opto-geometrical analysis methods for technological mineralogy	SIAMS Company	E.Yu. Nurkanov
12:20-12:40	Geomechanical safety of mining under the water layer of deposits in the Norilsk ore district	Saint-Petersburg Mining University	E.E. Odintsov
12:40-13:40	LUNCH		
13:40-14:00	New technological solutions for the use of hyperspectral data for the detection of hydrothermal metasomatic rocks as indicators of minerals	A.P. Karpinsky Russian Geological Research Institute	A.A. Kirsanov
14:00-14:20	SEM studies of the metallurgical plant sedimentation tank sediments	Siberian Federal University	B.M. Lobastov
14:20-14:40	Ecologically balanced geotechnology for the development of trends and technogenic georesources	RTC Geotechnology, LLC	A.V. Vasiliev
14:40-15:00	Belite sludge from Achinsk alumina refinery as a mineral colouring raw material	Siberian Federal University	V.G. Mikheev
15:00-15:10	Conference summary. Awarding of winners in the «Best report» nomination		