

RUSSIAN ACADEMY OF SCIENCE
FASO OF RUSSIAN FEDERATION
URAL BRANCH OF RAS
SCIENTIFIC COUNCIL ON METALLURGY AND METAL RESEARCH OF
OXMH OF RAS
SVERDLOVSK REGION GOVERNMENT
METALLURGY OF URAL BRANCH OF RAS
URAL MINING AND METALLURGICAL COMPANY URALMEKHANOB
INSTITUTE OF METALLURGY AND METAL RESEARCH OF RAS, NAMED
AFTER A.A. BAIKOV
INSTITUTE OF ORGANIC SYNTHESIS NAMED AFTER I.YA.
POSTSOVSKY OF UB RAS
URAL FEDERAL UNIVERSITY NAMED AFTER THE FIRST PRESIDENT OF
RUSSIA B.N.YELTSIN
URAL ECOLOGICAL INITIATIVE



2017
ГОД ЭКОЛОГИИ
В РОССИИ



TECHNOGEN – 2017 CONGRESS
«Fundamental investigations and applied developing of recycling and utilization
processes of technogenic formations»

V FORUM

“Ural market of scrap, industrial and municipal wastes”

June 5-9, 2017

Yekaterinburg

Organizing committee of Congress

Co-chair:

Leontev L. I. – Chairman of the scientific council on metallurgy and metal research of OXMH of RAS, academician

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Sorokin Yu. V. – Executive director of NRC «UIM» OJSC

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Perestoronin S. V. – Minister of Industry and Science in Sverdlovsk region

Smirnov L. A. – OJSC “UIM”, academician

Solntsev K. A. – Director of Institute of Metallurgy of RAS, academician

Khadzhev S. N. – Director of Institute of Petrochemical Synthesis of RAS, academician

Charushin V. N. – Chairman of the Ural Branch of the Russian Academy of Sciences, Director of Institute of Organic Synthesis of UB RAS, academician

Chupakhin O. N. – Academic director of Institute of Organic Synthesis of UB RAS, academician

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Zinigrad M. I. – Rector of Ariel University, Israel

Kozhakhmetov S. M. – President of ENTTS “Metals and materials”, academician of Kazakhstan Academy of Sciences, Republic of Kazakhstan

Linn H. – President of «Linn High Therm GmbH», Germany

CONGRESS RULES OF PROCEDURE

June 5, 2017

Check-in and registration of Congress participants

**Participant registration at Institute of Metallurgy UB RAS
from 9⁰⁰ A.M.**

June 6, 2017, 10⁰⁰ A.M.

**Formal opening session of “TECHNOGEN-2017” Congress
(Federal state budgetary institution “Institute of metallurgy of Ural branch of Russian
Academy of Sciences”, Amundsena str, 101)
(ASSEMBLY HALL)**

Welcoming performance by:

***Manzhurov Igor Leonidovich – Director of FASO Ural territorial management
Leontev Leopold Igorevich – Academician, chairman of the scientific council on metallurgy
and metal research of OXMH of RAS, co-chair of “TECHNOGEN-2017” Congress
organizing committee***

Sessions

June 6, 2017

**The integrated section (5th section of Congress in association with 1st section of Forum V
“SCRAP-TECHNOGEN-TESTING GROUND-2017)
Environmental matter of storage, processing and utilization of secondary raw
metallic material
(Federal state budgetary institution “Institute of metallurgy of Ural Branch of Russian
Academy of Sciences”, Amundsena street 101)
(ASSEMBLY HALL)**

Moderators:

10¹⁵ – 13³⁰

**Sheshukov Oleg Yurevich – D. Sc. in
engineering, prof., director of “INMT UrFU
named after B.N. Yeltsin”, chief research
worker of IMET UB RAS**

**Startseva Olga Petrovna – chairman of RPO
“Ural Ecological Initiative”**

14³⁰ – 18⁰⁰

**Smirnov Leonid Andreevich - OJSC “UIM”,
IMET UB RAS**

**Mysik Raisa Konstantinovna – D. Sc. in
engineering, prof., INMT UrFU**

Session at 10¹⁵ – 11³⁰

1. Mysik V.F.¹, Zhdanov A.V.¹, Startseva O.P.² Metal and ecology (1 - Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, avzhd@mail.ru; 2 – “UralInfo” LLC, Yekaterinburg, Russia)

2. Korolyov A.A., Krayukhin S.A., Maltsev G.I. “Liquid-gas” phase equilibrium calculation of Pb-Ag alloy under the vacuum distillation (JSC “Uralelectromed” Verhnyaya Pyshma, Sverdlovsk region, Russia, mgi@elem.ru)
3. Romanova O.V., Rybalko O.F., Zakharov M.N., Gelchinsky B.R. Production of new composite materials on the basis of naturally-alloyed ferrous powder from technogenic waste of metallurgical industry (Institute of Metallurgy UB RAS, Yekaterinburg, Russia, pridlize@mail.ru)
4. Mysik R.K., Brusnitsyn S.V., Sulitsin A.V. Application of Ni-Mg-Ce master alloy scrap for inoculation of copper-nickel alloys (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, kafedralp@mail.ru)
5. Zagirov N.N.¹, Loginov Yu.N.², Ivanov E.V.¹. Recycling option of the wrong length copper wire (1 – Siberian Federal University, Krasnoyarsk, Russia, kafomd_1@mail.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, j.n.loginov@urfu.ru)
6. Zhilin A.S.¹, Ramazanova V.R.¹, Tokarev V.V.² Cast properties improvement for iron-nickel alloys (1 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, zh-al@yandex.ru; 2 – “First Foundry” LLC, Yekaterinburg, Russia, tvvwork@el.ru)

Coffee Break 11³⁰ – 12⁰⁰

Session continuing 12⁰⁰ – 13⁰⁰

7. Naumov K.D., Lobanov V.G., Zelyah Y.D., Yakornov S.A., Skopin D.Y. Technogenic zinc usage possibilities investigation for gold cementation (1 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, naumov.konstantin@urfu.ru; 2 – “UMMC-Holding” Corp., Verhnyaya Pyshma, Sverdlovsk region, Russia)
8. Mamyachekov S.V., Anisimova O.S., Kolmachikhin B.V., Khazieva E.B., Conception of complex processing of secondary copper waste by hydrometallurgical method (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, e.b.khazieva@urfu.ru)
9. Agapova L.Ya., Abisheva Z.S., Kilibaeva S.K., Yakhieva Zh.E., Altenova A.N., Ruzakhunova G.S. Ammonium perrenate and nickel-cobalt concentrate production from technogenic waste of heat-resistant nickel alloys (JSC “Institute of Metallurgy and Ore Benefication”, Almaty, Republic of Kazakhstan, rm.303.imo@mail.ru)
10. Zakharov M.N., Romanova O.V., Rybalko O.F., Ilinykh S.A., Dolmatov A.V., Gelchinsky B.R. Opportunity of processing and involving into production of waste from mechanical treatment product made from titan and its alloys (Institute of metallurgy UB RAS, Yekaterinburg, Russia, mr.mizani@mail.ru)
11. Podkovyrkin E.G.¹, Korshunova N.G.¹, Dengub V.V.¹, Matyukhin V.I.² Development of aggregate for fiery disposal of oily aluminum shavings and scrap (1 – OJSC “VNIIMT”, Yekaterinburg, Russia, vniimt@mail.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, matyhin53@mail.ru)
12. Lubyanoi D.A.^{1,2}, Karashkevich B.N.¹, Baryl'nikov V.V.², Shcherbin S.G.¹, Shevchenko S.Yu.³, Lubyanyaya S.V.⁴ Scientific and technological basis of different metallurgical waste processing in acid induction furnaces with further secondary steel treatment (1 – LLC “Gidromash-NK”, Novokuznetsk, Kemerovo region, Russia, 2 – Novokuznetsk Institute (Branch) of Kemerovo Federal University, Novokuznetsk, Kemerovo region, Russia, 3 – Moscow State Technical University named after N.E. Bauman, Moscow, Russia, 4 - Tomsk Polytechnic University, Tomsk, Russia, lubyanyoy@yandex.ru)

Lunch break 13³⁰ – 14³⁰

Session continuing and summarizing 14³⁰ – 16⁰⁰

13. Kenzhaliev B.K.¹, Berkinbaeva A.N.¹, Dosymbaeva Z.D.¹, Sharipov R.Kh.¹, Kolesnikov A.V.², Suleymenov E.N.¹. Opportunity of waste metal processing by electrochemical method (1 – Kazakh-British Technical University, Almaty, Republic of Kazakhstan, freedom.k@mail.ru; 2 – D. Mendeleev University of Chemical Technology of Russia, Moscow, Russia, artkoles@list.ru)
14. Tyagunov A.G., Baryshev E.E., Tyagunov G.V., Kostina T.K., Shmakova K.Yu. Application of high-temperature treatment of melts for processing of foundry waste from heat-resisting alloy (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, e.e.baryshev@urfu.ru)
15. Tsymbalist M.M.¹, Sivtsov A.V.¹, Nekrasov I.V.¹, Mahnutin A.A.² Heat exchange model in electric arc furnace (1 – Institute of metallurgy UB RAS, Yekaterinburg, Russia, 2 – PJSC “UralTechMarket”, Yekaterinburg, Russia)
16. Nechaev A.V., Nechaev A.A. Possibilities of electrochemical technologies for solving environmental problems under utilization of waste metal (scrap) from refractory metal (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, a.v.nechaev@urfu.ru)
17. Malygin M.A., Zamyatin D.S., Graf M.L. Modern metrological assurance of ferrous scrap control (FGUP “UNIIM”, Yekaterinburg, Russia)
18. Malygin M.A., Zamyatin D.S., Graf M.L. New control methods, mass and magnetic iron content determination in sludge/slag/waste (FGUP “UNIIM”, Yekaterinburg, Russia)

Coffee Break 16⁰⁰ – 16³⁰

Session summarizing 16³⁰ – 17³⁰

Participant presentations up 10 min.

Presentation of case and reports discussion up to 5 min.

Discussion on decision.

June 6, 2017

Section 1

Types, volumes and contents of technogenic formations (overburden rocks, mill tailings, slag, sludge, dusts of chemico-metallurgical processing) on the mining and smelting enterprises

(Federal state budgetary institution “The Zavaritsky institute of geology and geochemistry of the Ural branch of the Russian Academy of Sciences, Akademika Vonsovskogo str, 15)
(SCIENTIFIC COUNCIL HALL)

Online translation of section session

www.igg.uran.ru/videoportal/imet/

Moderators:

10¹⁵ – 13³⁰

Gazaleeva Galina Ivanovna – Deputy Director General for analytical work of OJSC “Uralmekhanobr”;

Sorokin Yuri Vasilevich – PhD in engineering, executive director of NRC «UIM» OJSC

14³⁰ – 18⁰⁰

Shemyakin Vladimir Sergeevich – Director general of CJSC “NPK” “Technogen”;

Loginova Irina Viktorovna – PhD in engineering, prof., research worker of INMT UrFU

Session at 10¹⁵ – 11³⁰

1. Rudnov V.S., Belyakov V.A. New binder materials from industrial waste of the Ural Region (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, rudnovV@yandex.ru, 9222283482@mail.ru)
2. Zhuravlev A.A. EAF waste gas utilization by chemical and radiate heat recovery for cost reasons of thermal and electric energy in steelmaking (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, mzhs@urfu.ru)
3. Sheshukov O.Yu., Mikheenkov M.A., Vyaznikova E.A., Bykov A.S., Vedmid L.B. Study of magnesioferrite building mechanism under the heating of Bakalsky siderites (Institute of metallurgy UB RAS, Yekaterinburg, Russia, vjaznikova@mail.ru)
4. Skvortsov L.S.¹, Serdyuk B.P.² Possibilities of cavitation hydrodynamic reactor application for waste utilization in the mining industry (1 – Regional branch RAEN “Problems of modern technology adoption”, Moscow, Russia, levskvr@gmail.com; 2 – VNIPII “stromsyryo”, Moscow, Russia, labgrunt26@rambler.ru)
5. Martynova A.A.^{1,2}, Batrakova G.M.², Shamanov V.A.², Baranyuk D.I.² Assessment of capability for application of removal energetic material wastes as addition into construction materials (1 – JSC “Scientific Research Institute of Polymeric Material”, Perm, Russia, anuta5-11@yandex.ru; 2 – Perm national research polytechnic university, Perm, Russia, eco@pstu.ru)
6. Abyzov V.A., Posadnova N.E. Phosphate binders and porous nonfired materials on the basis of aluminum wastes (South Ural state University (NRU), Chelyabinsk, Russia, uralniist@mail.ru)

Coffee Break 11³⁰ – 12⁰⁰

Session continuing 12⁰⁰ – 13⁰⁰

7. Atamonov A.V., Garkavi M.S., Kolodezhnaya E.V., Khripacheva I.S., Khozey A.B., Garkavi E.V. Application of centrifugal machinery for processing of technogenic wastes (CJSC “Ural-Omega”, Magnitogorsk, Chelyabinsk region, Russia, info@uralomega.ru)
8. Kapustin F.L., Furman E.L., Ponomarenko A.A., Kapustin A.F. Use of regeneration products of moulding mixtures for construction and refractory materials manufacturing (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, F.L.Kapustin@urfu.ru)
9. Yarusova S.B.^{1,2}, Gordienko P.S.¹, Kozin A.V.³ Matters in problems in possibilities of complex processing of boracic acid production wastes (1 – Institute of chemistry of Far eastern branch of Russian Academy of Sciences, Vladivostok, Russia, 2 – Vladivostok State University Economics and Service, Vladivostok, Russia, yarusova_10@mail.ru; 3 – Far eastern federal university, Vladivostok, Russia, prosek@mail.ru)
10. Ufimtsev V.M. Production and properties of technological lime (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, uvm38@mail.ru)
11. Biryukova A.A., Dzhienalyev T.D., Boronina A.V., Bahytuly N. Porous penetrable ceramics in production of filters for industrial gas purification (1 – JSC “Institute of Metallurgy and Ore Benefication”, Almaty, Republic of Kazakhstan, biryuk.silikat@mail.ru)
12. Boriskov F.F. Autogenic method of raw material underground leaching based on earth interior heat utilization (Institute of Mining Engineering of UB RAS, Yekaterinburg, Russia, ukrigd15@mail.ru)

Lunch break 13³⁰ – 14³⁰

Session continuing and summarizing 14³⁰ – 16⁰⁰

13. Boriskov F.F. Heap leaching with crystallizational ice strength of leaching solution for ore mineral destruction (Institute of Mining Engineering of UB RAS, Yekaterinburg, Russia, ukrigd15@mail.ru)
14. Pugin K.G. Waste management of ferroalloy industry (Perm national research polytechnic university, Perm, Russia, 123zzz@rambler.ru)
15. Pendyurin E.A. Smolenskaya L.M. Industry by-product utilization in sand pit reclamation (Belgorod state technological university named after V.G. Shukhov, Belgorod, Russia, pendyrinea@yandex.ru)
16. Tarasov P.I.¹, Zyryanov I.V.², Khazin M.L.³, Golubev O.V.⁴ Technological decisions for waste utilization of gangue material of kimberlite pits (1 – “Perspectiva-M” LLC, Yekaterinburg, Russia, tp6005@mail.ru; 2 – “Yautniproalmaz” institute, Mirny, Republic of Sakha (Yakutia), Russia, ZyryanovIV@alrosa.ru; 3 – Ural state mining university, Yekaterinburg, Russia, Khasin@ursmu.ru; 4 – Ural State University of Railway Transport, Yekaterinburg, Russia, golubev@usurt.ru)
17. Kotelnikova A.L., **Ryabinin Viktor Fedorovich**. Composition and opportunities of valuable components extraction from processing tailings of dump copper slag (Institute of Geology and Geochemistry UB RAS, Yekaterinburg, Russia, kotelnikova@prm.uran.ru)
18. **Vaisberg L.A.**, Korovnikov A.N., Trofimov V.A., Goncharova E.L. Innovational developments of REC “Mekhanobr-Tekhnika”, for improvement of screening technological cycles (REC “Mekhanobr-Tekhnika”, Saint Petersburg, Russia, korovnikov_an@nkp-mt.spb.ru)

Coffee Break 16⁰⁰ – 16³⁰

Session summarizing 16³⁰ – 17³⁰

Participant presentations up 10 min.

**Presentation of case and reports discussion up to 5 min.
Discussion on decision.**

June 6, 2017

Section 2

Physico-chemical basis and technological aspects of technogenic waste processing from ferrous industry
(Federal state budgetary institution “The Zavaritsky institute of geology and geochemistry of the Ural branch of the Russian Academy of Sciences, Akademika Vonsovskogo str, 15)
(ASSEMBLY HALL)

Online translation of section session

www.igg.uran.ru/videoportal/imet/

Moderators:

10¹⁵ – 13³⁰

Dmitriev Andrey Nikolaevich – D. Sc. in engineering, chief research worker of IMET UB RAS;

Spirin Nikolay Alexandrovich – D. Sc. in engineering, prof., head of department of “Thermal physics and informatics in metallurgy” INMT UrFU

14³⁰ – 18⁰⁰

Zhuchkov Vladimir Ivanovich – D. Sc. in engineering, prof., chief research worker of IMET UB RAS;

Zayakin Oleg Vadimovich – PhD in engineering, senior research worker of IMET UB RAS

Session at 10¹⁵ – 11³⁰

1. Leontev L.I.^{1,2}, Zhuchkov V.I.¹, Dashevky V.Ya.², Zhdanov A.V.³ Technogenic formations of ferroalloy industry (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia; 2 – Institute of metallurgy and metal research of RAS named after A.A. Baikov, Moscow, Russia; 3 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, avzhd@mail.ru)
2. Dmitriev A.N. The current status and prospects for titanium magnetite ores of Sverdlovsk region (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, andrey.dmitriev@mail.ru)
3. Makhambetov Ye.N.¹, Baysanov A.S.¹, Nabiev M.A., Shabanov E.Zh.¹, Baysanova A.M.¹, Sultamurat G.I.². Processing and use of solid technogenic waste – damping metallurgical slags for producing calcium-containing ferro-alloys (1 – Chemical and Metallurgical Institute named after J.Abishev, Karaganda, Republic of Kazakhstan, m.ye.n@mail.ru; 2 – Karaganda State Technical University, Karaganda, Republic of Kazakhstan)
4. Sorokin Yu.V.¹, Demin B.L.¹, Scherbakov E.N.¹, Smirnov L.A.^{1,2} Effectiveness of ladle furnace slag recycling in electric arc furnaces (1 – OJSC «Ural Institute of Metal», Yekaterinburg, Russia, y.sorokin@uim.ural.ru; 2 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia)
5. Demin B.L.¹, Sorokin Yu.V.¹, Scherbakov E.N.¹, Smirnov L.A.^{1,2} Thermal stabilization of self-disintegrating LF slag for refining in rotary units (1 – «Ural Institute of Metal» OJSC, Yekaterinburg, Russia, b.demin@uim-stavan.ru; 2 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia)
6. Akberdin A.A.¹, Zhuchkov V.I.², Kim A.S.¹, Sychev A.V.², Zayakin O.V.², Kel I.N.² Stabilization of self-disintegrating metallurgical slag (1 – Chemical and Metallurgical Institute named after J.Abishev, Karaganda, Republic of Kazakhstan,

akberdin.38@mail.ru; 2 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia, ntm2000@mail.ru)

Coffee Break 11³⁰ – 12⁰⁰

Session continuing 12⁰⁰ – 13⁰⁰

7. Sheshukov O.Y.^{1,2}, Nekrasov I.V.¹, Mikheenkova M.A.¹, Egiazaryan D.K.¹, Sivtsov A.V.¹, Chencov V.P.¹, Gertsberg G.E.³. Unit ladle-furnace: slag forming conditions and stabilization (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia, avari@mail.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, o.j.sheshukov@urfu.ru; 3 – LLC “Seal and C”, Berezovskiy, Sverdlovsk region, Russia, gertsberg@sealmet.com)
8. Dashevsky V.Ya.¹, Alexandrov A.A.¹, Zhuchkov V.I.², Zhdanov A.V.³, Leontev L.I.⁴. Utilization of dump slag from refined manganese ferroalloy production (1 – Institute of metallurgy and metal research of RAS named after A.A. Baikov, Moscow, Russia, vdashev@imet.ac.ru; 2 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia, ntm2000@mail.ru; 3 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, avzhd@mail.ru; 4 – Presidium of RAS, Moscow, Russia, leontev@imet.ac.ru)
9. Spirin N.A., Polinov A.A., Pavlov A.V., Onorin O.P., Logachev G.N. Environmental and technological aspects of converter slag utilization in sintering and blast-furnace production (1 – OJSC “Magnitogorsk iron and steel works”, Magnitogorsk, Chelyabinsk region, Russia, polinov.aa@mmk.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, n.a.spirin@urfu.ru)
10. Katrenov B.B., Zhumashev K.Zh., Narambekova A.K., Musina A.E. Optimal parameters determination of converter sludge dezincification with hydrochloric acid (Chemical and Metallurgical Institute named after J.Abishev, Karaganda, Republic of Kazakhstan, baur-8-3@mail.ru)
11. Naymanbayev M.A., Lokhova N.G., Batlabekova Zh.A., Barkytova B.N. Processing opportunity of zinc-containing dust from ZSMK and Severstal with ore of Shaymerden deposit (JSC “Institute of Metallurgy and Ore Benefication”, Almaty, Republic of Kazakhstan, madali_2011@inbox.ru)
12. Grudinsky P.I.¹, Dyubanov V.G.¹, Leontev L.I.¹, Kozlov P.A.². Study of zinc ferrite disintegration in the process of dust calcination in electric-arc steel smelting with lime addition (1 – Institute of metallurgy and metal research of RAS named after A.A. Baikov, Moscow, Russia, gpi_lab3@imet.ac.ru; 2 – JSC “Chelyabinsk Zinc Plant”, Chelyabinsk, Russia, pak@zinc.ru)

Lunch break 13³⁰ – 14³⁰

Session continuing and summarizing 14³⁰ – 16⁰⁰

13. Baranov A.P.¹, Chernykh V.E.², Patrushov A.E.². Zinc oxide and granulated pig iron production operation line from dusts and sludge of metallurgical industry on the basis of annular furnaces application (1 – LLC “Ural-recycling”, Satka, Chelyabinsk region, Russia, abaranov@ural-recycling; 2 – LLC “ITEM-engineering”, Irkutsk, Russia)
14. Bersenev I.S.¹, Bormotova I.G.¹, Vokhmyakova I.S.¹, Ismagilov R.I.², Naftal M.N.², Yaroshenko Yu.G.³. Utilization of iron-containing waste from magnetic concentration of Kursk Magnetic Anomaly’s oxidized ferruginous quartzites (1 – “NPVP TOREX”, Yekaterinburg, Russia, i.vohmyakova@torex-npvp.ru; 2 – “METALLINVEST” Corp., Moscow, Russia, r.ismagilov@metalloinvest.com; 3 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, yury-y@planet-a.ru)

15. Schelkanova M.S., Shevelin P.Yu., Plaksin S.V., Vovkotrub E.G., Pankratov A.A. Vanadium-containing sludge application in the synthesis of cathodes of lithium-ion power supply (Institute of High Temperature Electrochemistry of UB RAS, Yekaterinburg, Russia, shchelkanova.mariya@mail.ru)
16. Loginov Yu.N.¹, Babaylov N.A.², Pervukhina D.N.¹ The action result of the concentrated load on the briquettes which obtained from the technogenous material (1 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, j.n.loginov@urfu.ru; 2 – Institute of engineering science of UB RAS, Yekaterinburg, Russia, fupi_vs@el.ru)
17. Vysikhis A.S., Guluakov V.S., Kudinov D.Z. Unfired pellets production from wastes of Shabrovsky talcoid plant (Institute of metallurgy of UB RAS, Yekaterinburg, vas58@mail.ru)
18. Zinoveev D.V., Grudinsk P.I., Korneev V.P., Dyubanov V.G. Physico-chemical basis of red mud processing from JSC “Urals Aluminium Smelter” with pig iron and construction materials production (Institute of metallurgy and metal research of RAS named after A.A. Baikov, Moscow, Russia, ZinoveevIMET@yandex.ru)

Coffee Break 16⁰⁰ – 16³⁰

Session continuing and summarizing 16³⁰ – 18⁰⁰

19. Sheshukov O.Yu.^{1,2}, Mikheenkov M.A.¹, Lobanov D.A.¹, Ovchinnikova L.A.¹, Egiazaryan D.K.¹ Limestone Addition Effect on Phase Composition of Red Mud Reduction Roasting Products (1 – Institute of Metallurgy of the Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia, summerdanny@yandex.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, o.j.sheshukov@urfu.ru)
20. Kim V.A., **Trebukhova Tamara Alexeevna**, Kim S.V., Bivoyno D.G. New carbonaceous reducing agent “rexil carbonated coal” for metallization of iron-containing raw material (Chemical and Metallurgical Institute named after J.Abishev, Karaganda, Republic of Kazakhstan, ferrum303@mail.ru)
21. Valyavin G.G., Zaporin V.P., Stukov M.I., Mamaev M.V.¹, Smirnov L.A., Chernavin A.Yu.², Chernavin D.A.², Philatov S.V.³ Synthetic coking coal as important reserve for performance improvement of mixed coke-oven and blast-furnace production (1 – LLC “Promintekh-NKA”; 2 – OJSC “Ural Institute of Metal”; 3 – PJSC “NLMK”)
22. Vorobyov V.P.¹, Zhuravlev A.A.² Utilization matters of high-ash coal, product and sludge in thermo-chemical technologies (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia, 2 – LLC “Promintekh-NKA”, Yekaterinburg, Russia)
23. Shatokhin I.M.¹, Kuzmin A.L., Smirnov L.A.³, Bigeev V.A., Ziatdinov M.Kh.¹, Manashev I.P.¹ Complex recycling technology of metallurgical wastes by liquid-phase reduction (1 – The scientific and industrial company Etalon Ltd., Magnitogorsk, Russia; 2 – Nosov Magnitogorsk State Technical University, Magnitogorsk, Chelyabinsk region, Russia; 3 - Institute of metallurgy of UB RAS, Yekaterinburg, Russia)
24. **Ulmaganbetov Nursulan Askarovich** Performance increase of high-carbon ferrochrome production by casting in layers with aluminium deoxidation (LLC “Scientific research and engineering center “ERG”, Atkobe, Republic of Kazakhstan)
25. **Dosenkov Murat Sagitzhanovich** Neutralization of hexavalent chromium compounds in slags of refining ferrochrome (LLC “Scientific research and engineering center “ERG”, Atkobe, Republic of Kazakhstan)

Participant presentations up 10 min.

Presentation of case and reports discussion up to 5 min.

Discussion on decision.

June 6, 2017

Section 3

Physico-chemical basis and technological aspects of technogenic waste processing from non-ferrous industry
(Federal state budgetary institution “Institute of metallurgy of Ural Branch of Russian Academy of Sciences”, Amundsena str, 101)
(SCIENTIFIC COUNCIL HALL)

Moderators:

10⁰⁰ – 13³⁰

Khalezov Boris Dmitrievich – D. Sc. in engineering, senior research worker of IMET UB RAS;

Selivanov Eugene Nikolaevich – D. Sc. in engineering, head of the laboratory of IMET UB RAS

14³⁰ – 18⁰⁰

Zaykov Yuri Pavlovich – D. Sc. in chemistry, academic director of IHTE UB RAS;

Yakornov Sergey Alexandrovich – Deputy technical director of “UMMC-Holding” Corp.

Session at 10¹⁵ – 11³⁰

1. Sokolovskaya L.V., Kvyatkovsky S.A., Semenova A.S. Cake utilization of oxidized lead-zinc barite ores by thiosalt metallurgy (The Center of Physico-Chemical Methods of Research and Analysis, Almaty, Republic of Kazakhstan, kvyatkovskiy55@mail.ru)
2. Belousov M.V.¹, Berg V.G.¹, Kolesnikova M.P.² Processing experience of red mud of alumina production of Bogoslovsk aluminium smelter (1 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, metalmg@yandex.ru; nik9508@bk.ru; 2 – LLC “Palitra”, Krasnoturyinsk, Sverdlovsk region, Russia, kolesnikovamp@land.ru)
3. Loginova I.V., Shoppert A.A. Red mud as an additional source of titanium raw materials (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, loginova_irina@mail.ru)
4. Klyushnikov A.M., Musaev V.V. Hydrometallurgical recycling of oxidized copper ores of Kyzyltu deposition (OJSC “Uralmekhanobr”, Yekaterinburg, Russia, klyushnikov_am@umbr.ru)
5. Ospanov E.A.¹, Shakhalov A.A.¹, Shneerson Ya.M.², Fomenko I.V.² Technology development of non-conforming copper concentrate processing with application of hydrothermal copper sedimentation process (1 – PLC “Kazakhmys Corporation”, Almaty, Republic of Kazakhstan, Yerzhan.Ospanov@kazakhmys.kz; Aleksand.Shakhalov@kazakhmys.kz; 2 – “Hydrometallurgy” research center, Saint-Petersburg, Russia, Ims@gidrometall.ru; Fomenko@gidrometall.ru)
6. Shemyakin V.S., Skopov S.V., Mankovsky R.V., Mamonov R.S. X-ray radiometric beneficiation of Kazakhstan copper ores (CJSC “NPK” “Technogen”, Yekaterinburg, Russia, npk-technogen@mail.ru)

Coffee Break 11³⁰ – 12⁰⁰

Session continuing 12⁰⁰ – 13⁰⁰

7. Gabdullin A.N., Nikonenko E.A., Nikitina E.V., Klyuev T.M. Complex nitric-acid processing of the serpentinite from Bazhenov deposit and the high-magnesium oxidized

- nickel ore of Serov deposit (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, gan1105@mail.ru)
8. Klyushnikov A.M., Selivanov E.N., Gulyaeva R.I., Chumarev V.M. Pyrometallurgical co-processing of oxidized nickel and sulfide copper ores (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, amk8@mail.ru)
 9. Khalezov B.D.¹, Bornovolokov A.S.², Krashenin A.G.¹, Vatolin N.A. Manganese extraction from manganese vanadium converter slag after vanadium leaching (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia; 2 – PJSC “VSMPO-AVISMA Corporation”, Verkhnyaya Salda, Sverdlovsk region, Russia)
 10. Gulyaeva R.I., Shin S.N., Chumarev V.M., Selivanov E.N. Complex recycling technology of pyrites cinder (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, pcmlab@mail.ru)
 11. Egorov V.V., Makovskaya O.Yu., Napol'skikh Yu.A. Leaching of waste hydroxide sludges by complex-forming agents (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, yegorov8713@gmail.com)
 12. Gavrilov A.S.¹, Khalezov B.D.¹, Radushev A.V.², Zelenin E.A.¹, Vatolin N.A., Petrova S.A.¹ Search for methods of solution processing from oxidized nickel ore leaching (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia, Vatolin@imet.mplik.ru; bd-chalezov@yandex.ru; 2 – Institute of Technical Chemistry of UB RAS, Perm, Russia, avradu@mail.ru)

Lunch break 13³⁰ – 14³⁰

Session continuing and summarizing 14³⁰ – 16⁰⁰

13. Rusalev R.E.¹, Grokhovsky S.V.¹, Chelnokov S.Yu.¹, Sudakov D.V.¹, Rogozhnikov D.A.², Naboychenko S.S.² Complex processing of gold-antimonic concentrates of JSC “Polus” (1 – LLC “ENFMPP”, Verkhnyaya Pyshma, Russia, r.rusalev@ezocom.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, darogozhnikov@yandex.ru)
14. Lobanov V.G., Naumov K.D., Ryabukhin E.A. Matters of the gold extraction from technogenic raw material with major sludge content (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, lobanov-vl@yandex.ru)
15. Vatolin N.A.¹, Amdur A.M.², Matushkina A.N.², Fedorov S.A.² Process development of preparation and beneficiation of product containing finely dispersed gold (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia; 2 – Ural state mining university, Yekaterinburg, Russia, engineer-ektb@rambler.ru)
16. Abdybakhitova A.A., Lovanov V.G. Performance selection for auriferous tailings flotation of sorption leaching (GOK MAKMAL) (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia)
17. Gazaleeva G.I.^{1,2}, Mamonov S.V.^{1,2}, Bratygin E.V.¹, Klyushnikov A.M.¹ Beneficiation of technogenic raw materials: problems and solutions (1 – OJSC “Uralmekhanobr”, Yekaterinburg, Russia, Gazaleeva@gi@umbr.ru; 2 – UMMC Technical university, Verkhnyaya Pyshma, Sverdlovsk region, Russia)
18. Kolesnikov A.S. Thermodynamic modelling of complex processing of technogenic waste of metallurgy industry (M.O. Auezov South Kazakhstan State University, Shykment, South Kazakhstan region, Republic of Kazakhstan, kas164@yandex.ru)
19. Vaulina V.N., Radushev A.V., Chekanova L.G., Romanova A.S., Haritonova A.V. Cupric extraction from sulfate environment with Versatic acid hydrazide (Institute of Technical Chemistry of UB RAS, Perm, Russia, avradu@mail.ru)

Coffee Break 16⁰⁰ – 16³⁰

Session summarizing 16³⁰ – 17³⁰

Participant presentations up 10 min.

Presentation of case and reports discussion up to 5 min.

Discussion on decision.

June 6, 2017

Section 4

Physico-chemical basis and technological aspects of technogenic waste processing containing rare earth metals
(Federal state budgetary institution “Institute of metallurgy of Ural Branch of Russian Academy of Sciences”, Amundsena str, 101)
(LABORATORY BUILDING. CLASSROOM 248)

Moderators:

10¹⁵ – 16⁰⁰

Mamyachenkov Sergey Vladimirovich – D. Sc. in engineering, prof. of INMT UrFU

Tanutrov Igor Nikolaevich – D. Sc. in engineering, senior research worker of IMET UB RAS

Session at 10¹⁵ – 11³⁰

1. Bratygin E.V., Dmitrieva E.G., Peshkin D.S., Sikhov N.V., Vlasov I.A. Technology development of pyrometallurgical beneficiation of ilmenite concentrate from “Central” deposit (OJSC “Uralmexkhanobr”, Yekaterinburg, Russia)
2. Skachkov V.M., Pasechnik L.A., Yatsenko S.P. New synthesis technologies of aluminium alloys with high rare earth element content (Institute of solid state chemistry of UB RAS, Yekaterinburg, Russia, yms@weburg.me)
3. Perepelitsyn V.A.¹, Merzlyakov V.N.², Kochetkov V.V.², Panov E.V.³, Yagovtsev A.V.⁴ Complex processing of technogenic zirconium-containing raw material (1 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, pva-votio@bk.ru; 2 – LLC SPC “Tseolite”, Magnitogorsk, Chelyabinsk region, Russia, spc.zeplite@gmail.ru; 3 – LLC “OgneuporPromGrupp”, Magnitogorsk, Chelyabinsk region, Russia, mgo_m@mail.ru; 4 – OJSC “DINUR”, Pervouralsk, Sverdlovsk region, Russia, jagovtsev@dinur.ru)
4. Tanutrov I.N., Sviridova M.N., Potapov S.O., Lyamkin S.A. Condition study of high-temperature treatment of coal mining products and wastes with germanium extraction (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, intan38@live.ru)
5. Tanutrov I.N., Sviridova M.N., Potapov S.O. Physico-chemical properties study of optical fiber waste (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, intan38@live.ru)

Coffee Break 11³⁰ – 12⁰⁰

Session continuing 12⁰⁰ – 13³⁰

6. Tanutrov I.N., Potapov S.O., Sviridova M.N., Lyamkin S.A. Slag production by cyclone smelting of germanium-containing coal and siltite with ecological assessment of the slag (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, intan38@live.ru)
7. Smolensky Valery Vladimirovich, Novoselova A.V., Mushnikov P.N., Bove A.L., Volkovich V.A., Lukyanova Ya.M., Osipenko A.G., Dokutovich V.I., Khokhlov V.A., Karfidov E.A. Efficiency of processing of radioactive wastes in the “liquid metal – molten salt” system (1 – Institute of High Temperature Electrochemistry of UB RAS, v.smolenski@ihte.uran.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, physic-technological institute, department of rare element and nanomaterial, Yekaterinburg, Sverdlovsk region, Russia,

- v.a.volkovich@urfu.ru; 3 – JSC “State Scientific Center – Research Institute of Atomic Reactors”, Dimitrovgrad, Ulyanovsk region, osipenko@niiar.ru)
8. Timofeev K.L., Maltsev G.I., Usoltsev A.V. Selective leaching of indium from solutions zinc production (JSC “Uralelectomed”, Verkhnyaya Pyshma, Sverdlovsk region, Russia, K.T.Timofeev@elem.ru)
 9. Trifonov K.I.¹, Katyshev S.F.², Nikiforov A.F.² Exhausted electrolytic solution of zirconium production as raw material for zirconium-niobium alloys production (1 – Kovrovsk state technological academy named after V.A. Degtyarev, Kovrov, Vladimir region, Russia, kitkgta@mail.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, sfkatyshev@mail.ru)
 10. Trifonov K.I.¹, Afanasyev S.V.² Chloridate properties of ferroniobium production wastes (1 – Kovrovsk state technological academy named after V.A. Degtyarev, Kovrov, Vladimir region, Russia, kitkgta@mail.ru; 2 – Togliatti state university, Togliatti, Samarsk region, Russia, svaf77@mail.ru)

Lunch break 13³⁰ – 14³⁰

Session continuing and summarizing 14³⁰ – 16⁰⁰

11. Bochevskaya E.G.¹, Karshigina Z.B.¹, Aбыsheva Z.S.², Sargelova E.A.¹, Sharipova A.S.¹ Comprehensive processing technology of slag of phosphorous industry to produce precipitated silica and rare earth concentrate (1 – JSC “Institute of Metallurgy and Ore Benefication”, Almaty, Republic of Kazakhstan, elena_bochevskaya@mail.ru; 2 – Kazakh national research technical university after K.I. Satpayev, Almaty, Republic of Kazakhstan, abisheva_z@mail.ru)
12. Sosnovsky S.A., Sachkov V.I., Obkhodskaya E.V. Study of plasma-chemical treatment method of liquid medium under processing technogenic formation (Siberian Physical-Technical Institute named after V.D. Kuznetsov of Tomsk State University, Tomsk, Russia, assa777@mail.ru)

Coffee Break 16⁰⁰ – 16³⁰

Session summarizing 16³⁰ – 17³⁰

Participant presentations up 10 min.

Presentation of case and reports discussion up to 5 min.

Discussion on decision.

June 7, 2017

Section 6

Modern technologies: the technological and sewage water purification and the radioactive, organic, solid domestic and carbonaceous energy source waste utilization

(Federal state budgetary institution The Zavaritsky institute of geology and geochemistry of the Ural branch of the Russian Academy of Sciences, Akademika Vonsovskogo str, 15)
(ASSEMBLY HALL)

Online translation of section session

www.igg.uran.ru/videoportal/imet/

Moderators:

10⁰⁰ – 13³⁰

Gorbunova Tatyana Ivanovna – D. Sc. in chemistry, senior scientist of IOS UB RAS;

Pasechnik Liliya Alexandrovna – PhD in chemistry, senior scientist of ISSC UB RAS

14³⁰ – 18⁰⁰

Mikhailov Gennady Georgievich – Head of the department of physical chemistry of SUSU (NRU);

Selivanov E.N. – D. Sc. in engineering, head of laboratory of IMET UB RAS

Session at 10¹⁵ – 11³⁰

1. Bakunov V.S.¹, Shayakhmetov U.Sh.², Schelkov E.M.¹, Tretyakova V.S.² High-profitable eco non-waste technology of solid, domestic and industrial wastes processing (SDIW) (1 – Institute for High Temperatures of RAS; Moscow, Russia; 2 – Bashkir State University, Ufa, Republic of Bashkortostan, Russia, rusairu@ufanet.ru)
2. Smirnov B.N., Pakulin E.N., Stepanov E.A., Zagudaev A.I. Utilization of metallurgical slag for mine drainage neutralization (JSC “Uralqipromez”, Yekaterinburg, Russia, info@uralqipromez.ru)
3. Balakirev V.F.¹, Krinsky V.V.², Perminov A.V.³, Talala T.A.³ Electro-impulse deactivation of LRW (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia; 2 – South Ural State University, Chelyabinsk, Russia, krymskiivv@susu.ru; 3 – Chelyabinsk division of “Ural territorial region” of FGUP “RosRAO”, Chelyabinsk, Russia)
4. Shavaleev M.R.¹, Barbin N.M.^{1,2}, Terentev D.I.¹, Alexeev S.G.¹ Processing of radioactive graphite with oxidic-salt raw mixture Na₂CO₃-K₂CO₃-Li₂CO₃-NiO (1 – Ural institute of SFFS EMERCOM of Russia, Yekaterinburg, Russia; 2 – Urals state agrarian university, Yekaterinburg, Russia, NMBarbin@mail.ru)
5. Ufimtsev V.M., Kapustin F.L. Eco-active technologies for ash and slag utilization in russian heat-power engineering (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, uvm38@mai.ru)
6. Shoppert A.A.¹, Loginova I.V.¹, Chaikin L.I.¹, Trybetskoy S.V.² Complex fly ash processing from coal combustion (1 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, andreishop@list.ru; 2 – LLC “CHITS”, Chelyabinsk, Russia, strubetskoy@sberinvest.ru)

Coffee Break 11³⁰ – 12⁰⁰

Session continuing 12⁰⁰ – 13³⁰

7. Belozerova A.A.¹, Pechischeva N.V.¹, Chepkin A.A.², Estemiraova S.Kh.¹, Shunyaev K.Yu.¹ Application of mechanoactivated rutile for arsenic (III) and arsenic (V)

- concentrating (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia, aa_belozerova@mail.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia)
8. Dmitrieva D.V., Makovskaya O.Yu., Egorov V.V. Sewage water treatment of copper-smelting industry from ions of non-ferrous metal (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, yegorov8713@gmail.com)
 9. Krasnogorskaya N.N., Musina S.A., Nafikova E.V. Ecological efficiency increase of sewage water treatment technology by flocculating-adsorptive method (Ufa State Aviation Technical University, Ufa, Republic of Bashkortostan, Russia, musinasa@gmail.com)
 10. Mamyachenkov S.V., Egorov V.V., Makovskaya O.Yu., Starkov A.M. Sorption removal of fluorine ions, incoming with the recycling zinc-bearing materials (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, yegorov8713@gmail.com)
 11. Stepanov E.A., Ornatov V.V., Zagudaev A.I., Pakulin E.N., Smirnov B.N., JSC “Uralqipromez” experience in waste processing of electroplating industry (JSC “Uralqipromez”, Yekaterinburg, Russia, smirnov@uralqipromez.ru)
 12. Mikhailov G.G., Morozova A.G., Lonzingier T.M., Skotnikov V.A. Compositional sorbent agent for cation immobilization of heavy metals and radionuclide from technogenic waste (South Ural State University (NRU), Chelyabinsk, Russia, labchim@mail.ru)

Lunch break 13³⁰ – 14³⁰

Session continuing and summarizing 14³⁰ – 16⁰⁰

13. Sosnovsky S.A. Study of high-temperature utilization process of liquid fluorine-containing waste (Siberian Physical-Technical Institute of Tomsk State University, Tomsk, Russia, ssa777@mail.ru)
14. Kurbatova L.D.¹, Koryakova O.V.², Valova M.S.², Yanchenko M.Yu.¹ Extraction of vanadium (V) from sulfuric acid solutions (1 – Institute of solid state chemistry of UB RAS, Yekaterinburg, Russia, kurbatova@ihim.uran.ru; 2 – Institute of organic synthesis named after I.Ya. Postsovsky of UB RAS, Yekaterinburg, Russia, ir@ios.uran.ru)
15. Kulikova T.V.¹, Mayorova A.V.¹, Gorbunova T.I.², Pervova M.G.², Plotnikova K.A.² Disposal of polychlorinated biphenyls by chemical dechlorination methods (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia, imeturoran@mail.ru; 2 – Institute of organic synthesis named after I.Ya. Postsovsky of UB RAS, Yekaterinburg, Russia)
16. Gyrdasova O.I.¹, Melkozerova M.A.¹, Baklanova I.V.¹, Krasilnikov V.N.¹, Sycheva N.S.² Oxidation photocatalysts active in visible wavelength band on basis of the quasideimensional ZnO doped by cobalt and copper (1 – Institute of solid state chemistry of UB RAS, Yekaterinburg, Russia, Gyrdasova@ihim.uran.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, aqua.riious302@gmail.com)
17. Narembekova A.K.¹, Zhumashev K.Zh.², Katernov B.B.², Musina A.E.² Selective precipitation of non-ferrous sulfide from technogenic waste (1 – Karaganda State Technical University, Karaganda, Republic of Kazakhstan, cpk-kru@mail.ru; 2 – Chemical and Metallurgical Institute named after J.Abishev, Karaganda, Republic of Kazakhstan, innovaciya_zh@mail.ru)
18. Kondratev I.V., Ryazanov S.N. Application of cavitation hydrodynamic method for industrial sewage water treatment (Yekaterinburg, Russia, Kondr-igor2013@yandex.ru Bright98@mail.ru)

Coffee Break 16⁰⁰ – 16³⁰

Session summarizing 16³⁰ – 18⁰⁰

19. Kolyasnikov A.Yu.¹, Anisimov A.D.², Besenev I.S.¹ Production of agglomerate from ashes of sewage sludge burning (1 – “NPVP TOREX”, Yekaterinburg, Russia, i.bersenev@torex-npvp.ru; 2 – CJSC “Lidesm”, Saint-Petersburg, Russia)
20. Matyukhin V.I., Yaroshenko Yu.G., Matyukhin O.V., Zhuravlev S.Ya. Energy efficient technology of solid domestic waste recycling in shaft furnaces of cupola type (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, matyhin53@mail.ru)
21. Zaripov V.A., Kovalev I.S.¹, Kopshuk D.S.^{1,2}, Zyryanov G.V.^{1,2}, Charushin V.N.^{1,2}, Chupakhin O.N.^{1,2} New utilization methods of polychlorobiphenyl and phenyl polychloride (1 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, v.a.zaripov@urfu.ru; 2 – Institute of organic synthesis named after I.Ya. Postsovsky of UB RAS, Yekaterinburg, Russia, gvzyryanov@gmail.com)
22. Ordabaeva A.T., Akhmetkarimova Zh.S., Meyramov M.G., Muldakhmetov Zh.Kh. Complex processing of coal tar from LLP “SARYARKA SPETSKOKS” and waste from “ARSELOR-MITALL” metallurgical complex (LLP “Institute of organic synthesis and organic fuel chemistry RK, Karaganda, Republic of Kazakhstan, aigul_seriv_kz@mail.ru)
23. Arystanova G.A., Koyzhanova A.K., Erdenova M.B., Abubakriev A.T. Ecological aspects of heterotroph usage isolated from technogenic substrate (JSC “Institute of Metallurgy and Ore Benefication”, Almaty, Republic of Kazakhstan, guljihan@yandex.ru)
24. Tzarev N.,S., Gorbich T.A. Wastewater treatment of aggressive industry sludges (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, nstzar@mail.ru)

**Presentation of case and reports discussion up to 5 min.
Discussion on decision.**

June 7, 2017

Section 7

Technical and economic assessment of expediency of technologic waste involving into processing

in association with Round table “Investments in waste processing”

of V Interregional forum

“Ural market of scrap, industrial and municipal wastes”

(“SCRAP-TECHNOGEN-TESTING GROUND-2017”)

(Federal state budgetary institution “The Zavaritsky institute of geology and geochemistry of the Ural brach of the Russian Academy of Sciences, Akademika Vonsovskogo str, 15)
(SCINTIFIC COUNCIL HALL)

Online translation of section session

www.igg.uran.ru/videoportal/imet/

Moderators:

14³⁰ – 18⁰⁰

Romanova O.A. – D. Sc. in economics, head of division of regional industrial and economic stability of Institute of economics of UB RAS
Lekhova Galina Borisovna – Director of Ural educational scientific Centre for Innovation Business

Session at 14³⁰ – 16⁰⁰

1. Korovin G.B. Modern forms of business support in the waste processing sector (Institute of economics of UB RAS, Yekaterinburg, Russia, grig_korovin@mail.ru)
2. Chenchevich S.G., Krokchina E.A. Efficiency aspects of technogenic waste processing (Institute of economics of UB RAS, Yekaterinburg, Russia, 516s@mail.ru)
3. Morozov O.Yu., Tolstova Yu.I. Exhaust gas utilization of agglomerative industry (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, a.kolotun@mail.ru; ytolstova@mail.ru)
4. Ismagilova G.V., Kasyanov V.A., Kelchevskaya N.R. R&D efficiency under technology adoption of technogenic raw material utilization (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, n.r.kelchevskaya@urfu.ru)
5. Ismagilova G.V.¹, Kelchevskaya N.R.¹, Rukhlyadeva M.S.² Innovations in the sector of industry waste utilization as economic diversification basis of single-industry cities (1 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, n.r.kelchevskaya@urfu.ru; 2 – LLC “Palitra”, Krasnoturinsk, Sverdlovsk region, Russia, palitra-firm@rambler.ru)

Coffee Break 16⁰⁰ – 16³⁰

Session continuing and summarizing 16³⁰ – 18⁰⁰

6. Strovsky V.E., Kubarev M.S. Eco-economic effect formation under waste utilization (Ural state mining university, Yekaterinburg, Russia, rinis@mail.ru; kubarev@mail.ru)
7. Vegner-Kozlova E.O.^{1,2}, Guman O.M.³ Small business as one of the important factors of passage to the standards of sustainable development in the process of technogenic field development (1 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, 2 – Institute of economics of UB RAS, Yekaterinburg, Russia, katya.human@mail.ru; 3 – Ural state mining university, Yekaterinburg, Russia, guman2007@mail.ru)

8. Matveeva Ya.A. Eco efficiency assessment of sociable responsible industrial activity (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, 117995679@mail.ru)

Participant presentations up 10 min.

Presentation of case and reports discussion up to 5 min.

Discussion on decision.

June 7, 2017

CONFERENCE OF YOUNG SCIENTIST

Science and technologies of technogenic waste utilization with maximum extraction of components and organization of non-waste production

(Federal State Autonomous Educational Institution of Higher Education «Ural Federal University named after the first President of Russia B.N.Yeltsin», Yekaterinburg, Mira str, 28, X-402)

Moderators:

Sheshukov Oleg Yurevich – D. Sc. in engineering, director of “INMT UrFU named after B.N. Yeltsin”

Kapustin Fedor Leonidovich – Deputy director on scientific and innovational activity of INMT UrFU

Vedmid Larisa Borisovna – PhD in chemistry, senior scientist of IMET UB RAS

Session at 10⁰⁰ – 12⁰⁰

1. Vedmid L.B. Ecological policy as factor of sustained development of the country (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, elarisa100@mail.ru)
2. Kengaliev B. K.¹, Surkova T. Yu.¹, Yulusov S.B.¹, Pirmatov E.A.², Dulenin A.P.² Rare-earth concentrate production from technogenic mineral formations. (1 – JSC «Institute of Metallurgy and Beneficiation», Almaty, Kazakhstan, tu-surkova@mail.ru; 2 – Stepnogorsk Mining and Chemical Combine, Stepnogorsk, Kazakhstan)
3. Skachkova O.V., Pasechnik L.A., Skachkov V.M., Pyagai I.N., Medyankina I.S., Surikov V.T., Yatsenko S.P., Sabizyarov N.A. Sorptive extraction of yttrium from hydrochloric solutions (Institute of solid state chemistry of UB RAS, Yekaterinburg, Russia, Chem.Springer@yandex.ru)
4. Mushnikov P.N.^{1,2}, Smolensky V.V.^{1,2}, Shishkin V.Yu.¹, Khokhlov V.A.¹ Study of mixing effect on uranium cathode deposition on the liquid cadmium electrode (1 – Institute of High Temperature Electrochemistry of UB RAS, Yekaterinburg, Russia, P.Mushnikov@ihte.uran.ru, 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia)
5. Posvyaschennaya A.K., Volgina T.N. Liquid-phase disposal of ethylmercurchloride pesticide (National Research Tomsk Polytechnic University, Tomsk, Russia, soch94@mail.ru)
6. Zhuchkov V.I., Kel I.N. Waste utilization of ferroalloy industry (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, dunnington@mail.ru)
7. Kalinina E.V., Sarapulova T.A., Umpelev V.D. Disposal methods of wastes from potassium fertilizer production (Perm national research polytechnic university, Perm, Russia, kalininaelena1@rambler.ur)
8. Medyankina I.S., Pasechnik L.A., Yatsenko S.P., Skachkov V.M., Surikov V.T. Fluoradation process features of siliceous-containing technogenic waste (Institute of solid state chemistry of UB RAS, Yekaterinburg, Russia, lysira90@mail.ru)
9. Tyushnyakov S.N., Selivanov E.N. Electrothermal processing of zinc-containing slag and ashes from metallurgical treatment (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, pcmlab@mail.ru)
10. Kostina D.A.¹, Anisimova O.S.² Study of ashes processing from electric-arc melting in ammonium-chloride solutions (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, dar.kostina2013@yandex.ru)
11. Zagvozdkin A.A., Kolmachikhina O.B., Lobanov V.G. Gold concentrate processing with utilization of harmful agents from exhaust gas (Ural Federal University named after the

first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, alexprey@icloud.com,
olga.cuprum@gmail.com; lobanov-vl@yandex.ru)

Coffee Break 12⁰⁰ – 12³⁰

Session continuing and summarizing 12³⁰ – 14⁰⁰

12. Kritsky A.V., Karimov K.A., Elfimova L.G., Naboychenko S.S. Hydrometallurgical processing of copper-nickel converter matte (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, sibwin13@rambler.ru)
13. Kritsky A.V., Karimov K.A., Naboychenko S.S. Hydrometallurgical processing of pyritous copper concentrate (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, sibwin13@rambler.ru)
14. Kritsky A.V., Rogozhnikov D.A., Naboychenko S.S. Hydrometallurgical processing of pyritic slag (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, sibwin13@rambler.ru)
15. Kritsky A.V., Karimov K.A., Naboychenko S.S. Cementing purification of copper-containing waste (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, sibwin13@rambler.ru)
16. Karimov K.A., Kritsky A.V., Naboychenko S.S., Kolmachikhina O.B., Rogozhnikov D.A. Autoclave precipitation of Iron from zinc sulfate solutions (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, sibwin13@rambler.ru, elg-mtf@yandex.ru; olga.cuprum@gmail.com)
17. Pikulin K.V.¹, Galkova L.I.¹, Selivanov E.N.¹, Sitdikov F.G.² The extraction of tungsten from spent catalysts of petroleum organic synthesis (1 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia, pcmlab@mail.ru, 2 – CJSC “PTP “Rezonans”, Yekaterinburg, Russia, rez@sky.ru)
18. Rychkov V.N., Kirillov E.V., S.V. Kirillov, Bunkov G.M., Botalov M.S., Smyshlyaev D.V. REE extraction efficiency increase from phosphogypsum (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, e.kirillov.umn@gmail.com)
19. Rychkov V.N., Kirillov E.V., Kirillov S.V., Bunkov G.M., Botalov M.S., Smyshlyaev D.V. Scandium extraction from wastes of nickel ore processing (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, e.kirillov.umn@gmail.com)
20. Rychkov V.N., Kirillov E.V., S.V. Kirillov, Bunkov G.M., Titova S.M. Scandium recovery from red mud by carbonate assist (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, e.kirillov.umn@gmail.com)
21. Sheshukov O. Yu.^{1,2}, Mikheenkov M. A.², Egiazaryan D. K.², Ovchinnikova L. Yu.², Lobanov D.A.². Chemical Stabilization Features of Ladle Furnace Slag in Ferrous Metallurgy (1 – Institute of Metallurgy of UB RAS, Yekaterinburg, Russia, silast@mail.ru, 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, o.j.sheshukov@urfu.ru)
22. Sheshukov O. Yu.^{1,2}, Mikheenkov M. A.¹, Lobanov D.A.¹ Reduction of Environmental Pressure by Giving Cementing Material Properties to the Ferrous Slags. (1 – Institute of Metallurgy of UB RAS, Yekaterinburg, Russia, silast@mail.ru; 2 – Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, o.j.sheshukov@urfu.ru)
23. Sumarokova L.S., Kapustina F.L., Ufimtsev V.M. Granulation as utilization method of ashes and slag waste from heat power industry (Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia, sumarokova-94@mail.ru; f.l.kapustin@urfu.ru)
24. Gerasimova E.S.¹, Kapustin F.L.¹, Rogante Massimo², Kochnev D.S.¹ Granite dust is the possible component of the dry construction mixtures (1 – Ural Federal University named

after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia,
e.s.gerasimova@urfu.ru; 2 – Rogante Engineering Office, Civitanova Marche, Italy)

Participant presentations up 7 min.

Presentation of case and reports discussion up to 3 min.

Discussion on decision.

Excursion to Center of additive technologies and CUC

June 7, 2017

V Interregional forum

“Ural market of scrap, industrial and municipal wastes”
 (“SCRAP-TECHNOGEN-TESTING GROUND-2017”)

Sustainable growth – platform for forming waste processing industry

FULL PROGRAMM OF V INTERNATIONAL FORUM “URAL MARKET OF SCRAP,
 INDUSTRIAL AND MUNICIPAL WASTES” (“SCRAP.TECHNOGEN.TESTING
 GROUND-2017”)

June 6, 2017

9.00 – 10.00	Participant registration
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10.00 Formal opening session of “TECHNOGEN-2017” Congress at ASSEMBLY HALL of Institute of metallurgy of Ural branch of Russian Academy of Sciences (Yekaterinburg, Amundsena str, 101)

Welcoming performances:

9.00 – 10.07	Manzhurov Igor Leonidovich – Director of FASO Ural territorial management
10.07 – 10.15	Leontev Leopold Igorevich – Academician, chairman of the scientific council on metallurgy and metal research of OXMH of RAS, co-chair of “TECHNOGEN-2017” Congress organizing committee

10.15 – 13.30 SCIENTIFIC COUNCIL HALL of Institute of metallurgy of Ural branch of Russian Academy of Sciences (Yekaterinburg, Amundsena str, 101)

The integrated section of Forum and Congress “Environmental matter of storage, processing and utilization of secondary raw metallic material”

10.15 – 13.30	First session of section <u>Moderators:</u> Sheshukov Oleg Yurevich., D. Sc. in engineering, prof., director of “INMT UrFU named after B.N. Yeltsin”, chief research worker of IMET UB RAS; Startseva Olga Petrovna, chairman of RPO “Ural Ecological Initiative”, committee member on environmental management and ecology of Chamber of Commerce and Industry of Russian Federation
10.00 – 10.15	Mysik Viktor Fedorovich, Zhdanov Alexandr Vitalevich, associate professors of UrFU department, Startseva Olga Petrovna, RPO “Ural Ecological Initiative” <i>“Metal and ecology”</i>
10.15 – 10.30	Korolyov A.A., Krayukhin S.A., Maltsev G.I., JSC “Uralelectromed” UMMC, Verhnyaya Pyshma <i>“Liquid-gas” phase equilibrium calculation of Pb-Ag alloy under the vacuum distillation</i> ”
10.30 – 10.45	Romanova O.V., Rybalko O.F., Zakharov M.N., Gelchinsky B.R., IMET UB RAS <i>“Production of new composite materials on the basis of naturally-alloyed ferrous powder from technogenic waste of metallurgical industry”</i>
10.45 – 11.00	Mysik Raisa Konstantinovna, Brusnitsyn S.V., Sulitsin A.V., UrFU <i>“Application of Ni-Mg-Ce master alloy scrap for inoculation of copper-nickel alloys”</i>
11.00 – 11.15	Zagirov N.N., Ivanov E.V., Siberian FD, Krasnoyarsk, Loginov Yu.N., UrFU <i>“Recycling option of the wrong length copper wire”</i>
11.15 – 11.30	Zhilin A.S., Ramazanova V.R., Tokarev V.V., “First Foundry” LLC, Yekaterinburg <i>“Cast properties improvement for iron-nickel alloy”</i>
11.30 – 12.00	Coffee Break
12.00 – 13.00	Session continuing
12.00 – 12.15	Naumov K.D., Lobanov V.G., Zelyah Y.D., Yakornov S.A., Skopin D.Y., UrFU, OJSC “UMMC” <i>“Technogenic zinc usage possibilities investigation for gold cementation”</i>

12.00 – 12.30	Mamyachekov S.V., Anisimova O.S., Kolmachikhin B.V., Khazieva E.B., UrFU <i>“Conception of complex processing of secondary copper waste by hydrometallurgical method”</i>
12.30 – 12.45	Agapova L.Ya., Abisheva Z.S., Kilibaeva S.K., Yakhieva Zh.E., Altenova A.N., Ruzakhunova G.S., JSC <i>“Institute of Metallurgy and Ore Benefication”</i> , Almaty, Republic of Kazakhstan, <i>“Ammonium perrhenate and nickel-cobalt concentrate production from technogenic waste of heat-resistant nickel alloys”</i>
12.15 – 13.00	Zakharov M.N., Romanova O.V., Rybalko O.F., Ilinykh S.A., Dolmatov A.V., Gelchinsky B.R., IMET UB RAS, <i>“Opportunity of processing and involving into production of waste from mechanical treatment product made from titan and its alloys”</i>
13.00 – 13.15	Podkovyrkin E.G., Korshunova N.G., Dengub V.V., Matyukhin V.I., OJSC <i>“VNIIMT”</i> , Yekaterinburg, UrFU <i>“Development of aggregate for fiery disposal of oily aluminum shavings and scrap”</i>
13.15 – 13.30	Lubyanoi D.A., LLC <i>“Gidromash-NK”</i> , Novokuznetsk, Novokuznetsk Institute (Branch) of Kemerovo Federal University, Karashkevich B.N., LLC <i>“Gidromash-NK”</i> , Novokuznetsk, Baryl'nikov V.V., Novokuznetsk Institute (Branch) of Kemerovo Federal University, Shcherbin S.G., LLC <i>“Gidromash-NK”</i> , Novokuznetsk, Shevchenko S.Yu., Moscow State Technical University named after N.E. Bauman, Lubyanyaya S.V., Tomsk Polytechnic University <i>“Scientific and technological basis of different metallurgical waste processing in acid induction furnaces with further secondary steel treatment”</i>
13.30 – 14.30	Lunch break
14.30 – 17.30	Second session of section <u>Moderators:</u> Smirnov Leonid Andreevich, academician, OJSC <i>“UIM”</i> , IMET UB RAS Mysik Raisa Konstantinovna, D. Sc. in engineering, prof., INMT UrFU
14.15 – 14.30	Kenzhaliev B.K., Berkinbaeva A.N., Dosymbaeva Z.D., Sharipov R.Kh., Kolesnikov A.V., Suleymenov E.N., Kazakh-British Technical University, Almaty, Republic of Kazakhstan, D. Mendeleev University of Chemical Technology of Russia, Moscow <i>“Opportunity of waste metal processing by electrochemical method”</i>
14.30 – 14.45	Tyagunov A.G., Baryshev E.E., Tyagunov G.V., Kostina T.K., Shmakova K.Yu., UrFU <i>“Application of high-temperature treatment of melts for processing of foundry waste from heat-resisting alloy”</i>
14.45 – 15.00	Tsymbalist M.M., Sivtsov A.V., Nekrasov I.V., Mahnutin A.A., IMET UB RAS, PJSC <i>“UralTechMarket”</i> , Yekaterinburg <i>“Heat exchange model in electric arc furnace”</i>
15.00 – 15.15	Nechaev A.V., Nechaev A.A., UrFU <i>“Possibilities of electrochemical technologies for solving environmental problems under utilization of waste metal (scrap) from refractory metal”</i>
15.15 – 15.30	Malygin M.A., Zamyatin D.S., Graf M.L., FGUP <i>“UNIIM”</i> , Yekaterinburg <i>“Modern metrological assurance of ferrous scrap control”</i>
15.30 – 15.45	Malygin M.A., Zamyatin D.S., Graf M.L., FGUP <i>“UNIIM”</i> , Yekaterinburg <i>“New control methods, mass and magnetic iron content determination in sludge/slag/waste”</i>
15.45 – 16.00	Maltseff Igor, general director of ARDEN EQUIPMENT VOSTOK. <i>“Clampshell bucket for work with scrap and other materials”</i>
16.00 – 16.15	Ten Yue Alexey, general director of LLC <i>“Hua Hong – Rus”</i> <i>“HUAHONG GROUP technologies for scrap and other industrial waste processing”</i>
16.00 – 16.30	Coffee break

16.30 – 17.30	Session summarizing. Presentation of case and reports discussion. Discussion on decision.
17.30	Section and first working day termination

June 7, 2017

Plenary meeting program of V International forum, June 7, 10.00 – 17.40

Topic of plenary meeting: *“Current state and trends in sphere of production and consumer waste management in Russia and UFD”*

Moderators: Nekrasov Vitaly Mikhailovich, president of NPO “Centrvtortsvetmet” (Interregional center of secondary non-ferrous metallurgy), chairman of TC 462 “Secondary non-ferrous metal” and Sobolev Ivan Sergeevich, chairman of social council in association with Ural administration of Rostekhnadzor, managing director of OJSC “SUAL”, operational manager of OJSC “SUAL”, president of LLC “SUAL-Holding, Ural”

9.00 – 10.00	Participant registration of Forum plenary meeting
10.00 – 13.15	Plenary meeting program of V International forum (Assembly hall of IMET UB RAS) Break: coffee break at 11.30 – 12.00
10.00 – 10.15	Vinnitsky Vladimir Ilich, region representative in Public chamber of Russian Federation, vice president of Public chamber of Sverdlovsk region. <i>“Purpose and objectives of PC RF and Sverdlovsk region PC in sphere of production and consumer waste management”</i>
10.15 – 10.25	Speaker from Rosprirodnadzor department in UFD <i>“State supervision in sphere of waste management”</i>
10.25 – 10.40	Speaker from Ministry for natural resources and the environment of Sverdlovsk region <i>“Exercise of powers of Ministry for natural resources and the environment of Sverdlovsk region in production and consumer waste management in 2017”</i>
10.40 – 10.55	Glazyrin Stepan Vladimirovich, head of Department of operative control, communal infrastructure development and solid municipal waste management of Ministry of energy and housing and communal services of Sverdlovsk region. <i>Presentation topic is under developemnt</i>
10.55 – 11.05	Kazakova Viktoriya Vladimirovna, deputy minister of industry and science of Sverdlovsk region <i>“Industrial policy of Sverdlovsk region in sphere of industrial waste”</i>
11.05 – 11.15	Speaker from EMERCOM Russia <i>“EMERCOM forecast, ecological and economic risks”</i>
11.15 – 11.30	Kozlovskikh Dmitry Nikolaevich, deputy director of FS for surveillance on consumer rights protection and human wellbeing in Sverdlovsk region <i>“State sanitary-epidemiological supervision for factors and methods of collection, utilization, neutralization, transportation, storing and burial of production and consumer waste in new legislative conditions”</i>
11.30 – 12.00	Coffee break
12.00 – 12.10	Soloboev Ivan Sergeevich, chairman of social council in association with Ural administration of Rostekhnadzor, managing director of OJSC “SUAL”, operational manager of OJSC “SUAL”, president of LLC “SUAL-Holding, Ural” <i>“Problem aspects of completion strategy for environmental security in Ural district”</i>
12.10 – 12.20	Zhdanov Alexaner Vitalevich, , associate professor of “Iron and alloy metallurgy” department UrFU <i>“Sustainable growth of scrap-processing sphere as guarantee of high-quality raw material providing in metallurgy”</i>
12.20 – 12.35	Pyatkov Dmitry, lead analyst of Metals&Mining Intelligence (MMI) <i>“Scrap</i>

	<i>consumption forecast of ferrous metals in Russia in 2017</i>
12.35 – 12.50	Maslennikov Oleg Vladimirovich, managing director of “Istok” Corporation (RUSLOM) <i>“Methods of aluminum price forecast”</i>
12.50 – 13.00	Ageev Nikolay Segreyevich, technical director of GC “TradeActivResource”. <i>“Effective technologies for secondary raw material processing (scrap, SWM, wood material and electrical waste) as contribution in savings of natural resources”</i>
13.00 – 13.15	Terra Fabien, DANIELI HENCHEL, Danieli Centro Recycling <i>“Innovative solutions for recycling and high reliability of the company”</i>
13.15 – 14.15	Lunch break

Session continuing of Forum, June 7, 14.15 – 17.30

Section: *“Activity in sphere of production and consumer waste management in new legislative conditions”* June 7, 14.15 – 17.00

Moderators: Svalov Egor Anatolevich, chairman of Ecology and Environmental Management committee of Yekaterinburg municipal administration

Maslennikov Oleg Vladimirovich, managing director of “Istok” Corporation (RUSLOM)

14.15 – 14.30	Smyshlyaeva Vera Alexandrovna, acting division manager of state environmental appraisal and cost engineering of Rosprirodnadzor department in Ural FD <i>“Aspects of licensing of the activities for waste management”</i>
14.30 – 14.45	Svalov Egor Anatolevich, chairman of Ecology and Environmental Management committee of Yekaterinburg municipal administration <i>“Yekaterinburg experience in sphere of production and consumer waste management in new legislative conditions”</i>
14.45 – 15.00	Mysik Viktor Fedorovich, associate professor of “Iron and alloy metallurgy” department UrFU <i>“Need for harmonization of Russian ecologic legislation in sphere of scrap-processing in accordance to international rules”</i>
15.00 – 15.15	Orlova Olga Nikolaevna, director of SPI SR “Center of ecological monitoring and control” <i>“Need for data provision to overall regional land register of production and consumer waste”</i>
15.15 – 15.30	Alexandrova Elena Takhilovna, interim acting director of FSBI “CLATM of UFD” <i>“Laboratory analysis and technical metrology for factories working in sphere of production and consumer waste management”</i>
15.30 – 15.45	Fomin Oleg Leonidovich, chief specialist of licensing division, exhibition activity development and interregional cooperation <i>“Production waste processing in Sverdlovsk region: assessment of prospects and present-day situation”</i>
15.45 – 16.00	Matsyuk Vladimir Anatolevich, director of LLC “Megapolisresurs” <i>“Technical and organizational aspects of processing for electronic waste and chemical current source”</i>
16.00 – 16.15	Maslennikov Oleg Vladimirovich, managing director of “Istok” Corporation (RUSLOM) <i>“Video guides and video courses for express-education”</i>
16.15 – 16.25	Korovina Elvira Borisovna, deputy director for scientific and methodical work of Pervouralsk metallurgical college <i>“Compliance with modern requirements to training for professions of elementary and intermediate vocational professional education for metallurgy”</i>
16.25 – 16.40	Moiseev Viktor Stepanovich, director of Revda multidisciplinary training college <i>“Traditional practices and modern educational technologies for training of high-qualified specialists for present and future”</i>
16.40 – 17.00	Coffee break

Session continuing, June 7 17.00 – 17.40

17.00 – 17.40	Summarizing of fist working day. Discussion on decision.
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	Award ceremony of laureates of national technological award “Big Ural – 2017” for realized relevant eco-projects. Agreement execution.
17.40	Termination of section and second day work

Round table: *“Investments in waste processing”*, June 7, 14.15 – 16.40

Moderators: Lekhova Galina Borisovna, director of Ural Scientific-Educational Centre for Innovation Business,

Startseva Olga Petrovna, Forum organizer, chairman of RPO “Ural Ecological Initiative”, committee member on environmental management and ecology of CCI RF

The work of Round table provides presentations of representatives from region support infrastructure and businesspersons who successfully advance the cause for processing and utilizing of industry waste.

14.15 – 14.30	Lekhova Galina Borisovna, director of Ural Scientific-Educational Centre for Innovation Business, <i>“Investment-attractive project, what is it?”</i>
14.30 – 14.45	Akhangelsky Vyacheslav Nikolaevich, executive director of Small and Medium-sized Enterprise Union of Sverdlovsk region <i>“Support and development of import substitution technologies in MSB sphere”</i>
14.45 – 14.55	Malozemova Julia Olegovna, director of the executive committee SRO PO “Business Russia” <i>“Which investors can support projects for waste processing”</i>
14.55 – 15.10	Levkin Alexander Yurevich, general director of LLC “Tzarist privilege” <i>“Key parameter of investment attractiveness for patent portfolio of enterprise”</i>
15.10 – 15.25	Sheshukov Oleg Yurevich, director of Institute of New Materials and Technologies of UrFU <i>“Pyrometallurgical methods of metal-containing waste processing from metallurgical production”</i>
15.25 – 15.35	Zyrkaev Vladislav Grigorevich, CSJC RPE “FAN” <i>“Technological approaches to titanium-containing waste utilization in SRPC-VISMA”</i>
15.35 – 15.45	Abroschikov Vitaly Leonidovich, Fomin Alexander Viktorovich, LLC “GelLA” <i>“Dump slag utilization with production of nickel-cobalt-containing matte and finish materials for urban development”</i>
15.45 – 15.55	Smokvin Alexander Alexandrovich, LLC “FerroInvest” <i>“Smelting of scrap iron for its further usage as raw material for instrument manufacturing”</i>
15.55 – 16.05	Kazimirovskikh Alisa Yurevna, representative of Innovation Promotion Fund in Sverdlovsk region <i>“Support programs for innovative projects”</i>
16.05 – 16.20	Berseneva Anna Mikhailovna, director, NCO Fund “Yekaterinburg center for business development”, Solovyov Dmitry Anatolevich, acting chairman of Industrial Policy and Business Development Committee <i>“Possible support for enterprises on the municipal level”</i>
16.20 – 16.30	Emshanova Natalia Sergeevna, Sverdlovsk venture fund <i>“Support programs for venture funds”</i>
16.30 – 16.40	Startseva Olga Petrovna, chairman of RPO “Ural Ecological Initiative” <i>“Eco projects support as essential component for sustainable growth”</i>
16.40 – 17.00	Coffee break

Session continuing, June 7, 17.00 – 17.40

17.00 – 17.40	Summarizing of fist working day. Discussion on decision. Award ceremony of laureates of national technological award “Big Ural – 2017” for realized relevant eco-projects. Agreement execution.
17.40	Termination of section and second day work

June 8, 2017

Program of general plenary meeting of “TECHNOGEN-2017” congress, 8 June, 10.00 – 17.00

9.00 – 10.00	Participant registration of congress plenary meeting
	<i>Welcoming performance by (read out):</i> Charushin Valery Nikolaevich , academician, chairman of the Bureau UB Panshin Andrey Mikhailovich , D.sc. in engineering, technical director of “Ummc-Holding” Corp. Drozdov Nikolay Nikolayevich , D.Sc. in biology, PhD in geography, vice-chairman of committee for culture of Russian Federation Public Chamber, chairman of IEM “Terra Viva” and IUEMB, academician of RANS, member of organizing committee for the year of ecology in Russian Federation in 2017 Alexeev Sergey Mikhailovich , chairman of the natural resources and environmental management of CCI RF
10.15 – 10.30	Welcome speech by Government of Sverdlovsk region
10.30 – 10.45	Welcome speech by Legislative Assembly of Sverdlovsk region
10.45 – 11.00	Vinnitsky Vladimir Ilich, region representative in Public chamber of Russian Federation, vice president of Public chamber of Sverdlovsk region. <i>Welcome speech for Forum participants.</i>
11.00 – 11.15	Leontev Leopold Igorevich, Chesnokov Yuri Anatolevich, IMET UB RAS <i>“Environmentally friendly technology of municipal and technogenic waste processing with application of metallurgical processes”</i>
11.15 – 11.30	Kvyatkovsky S.A., Kozhakhmetov S.M., Semenova A.S., JSC «Institute of Metallurgy and Ore Beneficiation», Ospanov Erzhan Arystanbekovich, Kazakhmys Corporation LLC, Almaty, Republic of Kazakhstan <i>“Technogenic materials on the Kazakhstan enterprises processing copper and polymetallic ore and prospects for their complex usage”</i>
11.30 – 11.45	Kudryavtsev Vladislav Vasilevich, general manager of European-Russian business-association “ERBA”, Moscow <i>“Closed cycle of SMW processing”</i>
11.45 – 12.00	Smirnov Leonid Andreevich, Sorokin Yuri Vasilevich, Demin B.L., Zaynullin L.A., OJSC “Ural institute of metal” <i>“Modern technologies and equipment for utilizing and processing of technogenic waste from metallurgical production”</i>
12.00 – 12.15	Kornilkov Sergey Viktorovich, Antoninova N.Yu., Rybnikov P.A., institute of mining engineering of UB RAS, Dmitriev A.N., IMET UB RAS <i>“Technologically-ecological aspects of technogenic-mineral formation processing from mining enterprises”</i>
12.15 – 12.30	Panchenko Vladislav Yakovlevich, chairman of Council of Russian fund for fundamental research <i>Presentation topic is under specifying</i>
12.30 – 12.45	Maltseff Igor, general director of ARDEN EQUIPMENT VOSTOK <i>“Best technical decisions for different waste stream from French concern ARDEN EQUIPMEN”</i>
12.45 – 13.00	Ten Yue Alexey, general director of LLC “Hua Hong – Rus” <i>“Modern technologies from largest china concern HUAHONG GROUP for scrap and other industrial waste processing”</i>
13.00 – 13.15	Terra Fabien, DANIELI HENCHEL, Danieli Centro Recycling <i>“Innovative solutions for recycling and high reliability of DANIELI HENCHEL company”</i>

13.15 – 13.30	Vaisberg Leonid Abramovich, REC “Mekhanobr-Tekhnika”, Saint Petersburg <i>“Modern technologies for production and consumer waste processing”</i>
13.30 – 14.30	Launch break
14.30 – 14.45	Melentev Geliy Borisovich, Joint Institute for High Temperatures of RAS, Moscow, Malinina E.N., Elchin D.S., Egorkin S.V., Vdovina O.K., Institute of mineralogy, geochemistry, crystal chemistry of rare metals of Ministry of Natural Resources and Environment of RF, Moscow <i>“Methodology and results of eco-geochemical charting for naturally-technogenic hydroecological systems of various specialized mining complexes”</i>
14.45 – 15.00	Chupakhin O.N., Gorbunova Tatyana Ivanovna, Saloutin V.I., Charushin V.N., Institute of organic synthesis named after I. Ya. Postovsky of UB RAS <i>“Problems of ecology and polychlorinated biphenyl elimination”</i>
15.00 – 15.15	Pasechnik Liliya Alexandrovna, Yatsenko Sergey Pavlovich, Skachkov V.M., Medyankina I.S., Surikov V.T., Skryabneva L.M., Sabizyarov N.A., Institute of solid state chemistry of UB RAS <i>“Hydrothermal synthesis of magnetic phases on the basis of red mud with simultaneous alkali recycle in alumina production”</i>
15.15 – 15.30	Romanova Olga Alexandrovna, Institute of economics of UB RAS <i>“Methodological aspects for environmentally-friendly forming of space”</i>
15.30 – 15.45	Mamonov Sergey Vladimirovich, OJSC “Uralmekhanobr” <i>“Technologies of technogenic waste processing from ore and smelting enterprises”</i>
15.45 – 16.00	Yakornov Sergey Alexandrovich, Panshin A.M., Kozlov P.A., Ivakin D.A., “UMMC-Holding” Corp., Verkhnyaya Pyshma <i>“The current state of EAF dust processing in Russia and abroad”</i>
16.00 – 16.15	Startseva Olga Petrovna, chairman of RPO “Ural Ecological Initiative”, committee member on environmental management and ecology of CCI RF. <i>“Ecological, economic and legislative aspects of industry for production and consumer waste processing”</i>
16.15 – 16.30	Leontev Leopold Igorevich, Selivanov Eugene Nikolaevich, Institute of metallurgy of UB RAS <i>“State and directions for the development of technologies for making environmentally friendly non-ferrous production”</i>
16.45 – 17.00	Congress work summarizing (presentations by heads and moderators of the all congress venues)
16.30 – 16.33	Sheshukov Oleg Yurevich, D. Sc. in engineering, prof., director of INMT UrFU, Startnseva Olga Petrovna, chairman of RPO “Ural Ecological Initiative”
16.33 – 16.36	Smirnov Leonid Andreevich, academician, OJSC “UIM”, IMET UB RAS, Mysik Raisa Konstantinovna, D. Sc. in engineering, prof. of INMT UrFU
16.36 – 16.39	Gazaleeva Galina Ivanovna, deputy director general for analytical work of OJSC “Uralmekhanobr”, Sorokin Yuri Vasilevich, PhD in engineering, executive director of NRC «UIM» OJSC
16.39 – 16.42	Shemyakin Vladimir Sergeevich, director general of CJSC “NPK” “Technogen”, Loginova Irina Viktorovna, PhD in engineering, prof., research worker of INMT UrFU
16.42 – 16.45	Dmitriev Andrey Nikolaevich, D. Sc. in engineering, chief research worker of IMET UB RAS, Spirin Nikolay Alexandrovich, D. Sc. in engineering, prof., head of department of “Thermal physics and informatics in metallurgy” INMT UrFU
16.45 – 16.48	Zhuchkov Vladimir Ivanovich, D. Sc. in engineering, prof., chief research worker of IMET UB RAS, Zayakin Oleg Vadimovich, PhD in engineering, senior research worker of IMET UB RAS
16.48 – 16.51	Khalezov Boris Dmitrievich, D. Sc. in engineering, senior research worker of

	IMET UB RAS, Selivanov Eugene Nikolaevich, D. Sc. in engineering, head of the laboratory of IMET UB RAS
16.51 – 16.54	Zaykov Yuri Pavlovich, D. Sc. in chemistry, academic director of IHTE UB RAS, Yakornov Sergey Alexandrovich, deputy technical director of “UMMC-Holding” Corp.
16.54 – 16.57	Mamyachenkov Sergey Vladimirovich, D. Sc. in engineering, prof. of INMT UrFU, Tanutrov Igor Nikolaevich. D. Sc. in engineering, senior research worker of IMET UB RAS
16.57 – 17.00	Gorbunova Tatyana Ivanovna, D. Sc. in chemistry, senior scientist of IOS UB RAS, Pasechnik Liliya Alexandrovna, PhD in chemistry, senior scientist of ISSC UB RAS
17.00 – 17.03	Mikhailov Gennady Georgievich, head of the department of physical chemistry of SUSU (NRU), Selivanov Eugene Nikolaevich, D. Sc. in engineering, head of laboratory of IMET UB RAS
17.03 – 17.06	Romanova O.A., D. Sc. in economics, head of division of regional industrial and economic stability of Institute of economics of UB RAS
17.06 – 17.09	Sheshukov Oleg Yurevich, D. Sc. in engineering, director of “INMT UrFU, Kapustin Fedor Leonidovich, deputy director on scientific and innovational activity of INMT UrFU, Vedmid Larisa Borisovna, PhD in chemistry, senior scientist of IMET UB RAS
17.09 – 17.12	Nekrasov Vitaly Mikhailovich, president of NPO “Centrvtortsvetmet” (Interregional center of secondary non-ferrous metallurgy), chairman of TC 462 “Secondary non-ferrous metal”, Sobolev Ivan Sergeevich, PhD in economics, chairman of social council in association with Ural administration of Rostekhnadzor, managing director of OJSC “SUAL”, operational manager of OJSC “SUAL”, president of LLC “SUAL-Holding, Ural”
17.12 – 17.15	Maslennikov Oleg Vladimirovich, managing director of “Istok” Corporation (RUSLOM), Moscow, Svalov Egor Anatolevich, chairman of Ecology and Environmental Management committee of Yekaterinburg municipal administration
17.15 – 17.18	Lekhova Galina Borisovna, director of Ural Scientific-Educational Centre for Innovation Business
17.18 – 17.21	Startseva Olga Petrovna, Forum organizer, chairman of RPO “Ural Ecological Initiative”, organizer of I-V International forum “Ural market of scrap, industrial and municipal wastes” (“SCRAP. TECHNOGEN. TESTING GROUND”)
17.21 – 17.30	Leontev Leopold Igorevich, academician, chairman of the scientific council on metallurgy and metal research of OXMH of RAS, co-chair of I-III “TECHNOGEN” Congress
17.30 – 17.50	Diploma and memorable gifts awarding for the best section reports
C 18.00	House supper

June 9, 2017

BUSINESS DELEGATION VISITS TO KAMENSK-URALSKY AND POLEVSKOY
Program of business delegation visit to Kamensk-Uralsky organized for participants of
RPO “Ural Ecological Initiative” Forum, June 9**

Team leader: Startseva Olga Petrovna, chairman of RPO “Ural Ecological Initiative”

6.10 – 6.20	Participant assembly for business delegation visit
6.20	Departure to Kamensk-Uralsky from “Yekaterinburg-central” hotel
6.20 – 8.30	Road to Kamensk-Uralsky
8.30 – 8.45	View on the sludge field №1 of OJSC “UAP”
8.45 – 9.00	Moving to OJSC “Kamensk-Uralsky metallurgical plant”
9.00 – 10.30	Visit to scrap metal ground of OJSC “KUMZ” and unique rolling complex
10.30 – 11.00	Coffee break
11.00 – 11.15	Moving to LLC “SUAL-Silicon-Ural”
11.15 – 12.00	Moving to the largest ecological project of 2017 in Sverdlovsk region – to gas treatment complex of LLC “SUAL-Silicon-Ural”
12.00 – 12.40	Launch break
12.40 – 13.00	Moving to CJSC “Pyatkov and Co”
13.00 – 14.00	Foundry visit of bell-casting factory CJSC “Pyatkov and Co”
14.00 – 14.15	Moving to municipal administration of Kamensk-Uralsky for the first group
14.15 – 14.45	Meeting of the first group with Shmykov Alexey Viktorovich, Mayor of Kamensk-Uralsky
14.00 – 15.00	Visit of the second group to Museum of Local Lore named after I.Ya. Styazhkin
15.00 – 16.00	Moving of the first group to Museum of Local Lore named after I.Ya. Styazhkin. Way out of the second group.
16.00 – 16.15	Moving of the whole delegation to “Tet-a-tet” cafe
16.15 – 17.30	Dinner in “Tet-a-tet” café
17.30 – 20.00	Road to Yekaterinburg
20.00	Arrival in Yekaterinburg. End of V International forum.

Program of business delegation visit may be changed

Excursion at PJSC “Seversk Tube Works” (Polevskoy), organized by IMET UB RAS for participants of the “TECHNOGEN-2017” Congress, June, 9**

Work group leader: Chesnokov Yuri Alexandrovich, director of IMET UB RAS

8.30	Departure from “Yekaterinburg-Central” hotel
9.30	Departure from IMET UB RAS (Amundsena str, 101)
9.30 – 11.00	Road from Yekaterinburg to Polevskoy with a tour guide
11.00	Excursion program start at Seversk Tube Works
11.00 – 15.00	Providing briefing for OHSE
	Excursion at Museum Complex “Seversk blast-furnace”
	Electric furnace shop (scrap stockyard, EAF, ladle furnace, vacuum vessel, continuous-casting machine)
	Launch at factory dining room
	Meeting and discussion with Ozornin Vadim Eugenevich, deputy chief engineer, chief environmental service of the factory
15.00	Departure from Polevskoy
16.30	Arrival in Yekaterinburg, End of the “TECHNOGEN-2017” Congress.

***You can register for visiting Kamesnk-Uralsky and Polevskoy at the registration. Seats at the excursion-trip are limited. We cannot include in list more excursionist, if the excursion groups are full (each for 30 member).*

June 8, 2017
Plenary meeting
(OJSC “Uralmekhanobr”, Yekaterinburg, Khokhryakova str, 87)
(ASSEMBLY HALL)

Participant registration from 9⁰⁰ A.M.

Session at 10⁰⁰ – 13³⁰

- Opening remarks
 - Welcoming performance by (read out):
 - **Charushin Valery Nikolaevich** (academician of RAS, presidium chairman of the UB RAS. Director of Institute of Organic Synthesis named after I. Ya. Postsovsky of UB RAS);
 - **Panshin Andrey Mikhailovich** (Technical director of “Ummc-Holding” Corp.)
 - **Kuznetsov Alexey Vladimirovich** (Minister of Natural Resources and Environment of Sverdlovsk region)
- Welcome speech by Government of Sverdlovsk region
Welcome speech by Legislative Assembly of Sverdlovsk region
Vinnitsky Vladimir Ilich, Representative of Sverdlovsk region in Public chamber of Russian Federation; Vice president of Public chamber of Sverdlovsk region. Welcome speech for Forum participants.
Welcoming performance by
Bulatov Konstantin Valeryevich, Director General of OJSC “Uralmekhanobr”

PLENARY REPORTS

Time limit: 15-minute reports

10³⁰ – 13³⁰

1. **Afonin Yuri Vyacheslavovich**, first deputy chairman of State Duma’s natural resources, property and land relations committee. *Speech topic is under specifying.*
2. **Petrov Vyacheslav Vitalyevich**, Kuznetsov A.V. Exercise of powers by Ministry natural resources and environment of Sverdlovsk region for production and consumer waste management in 2017 (*Ministry natural resources and environment of Sverdlovsk region*)
3. **Leontev Leopold Igorevich**^{1,2}, Chesnokov Yu.A.² Environmentally friendly technology of municipal and technogenic waste processing with application of metallurgical processes (*1 – Presidium of RAS, Moscow, Russia, leo@presidium.ras.ru; 2 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia, garlics@list.ru*)
4. Kvyatkovsky S.A.¹, Kozhakhmetov S.M.¹, **Ospanov Erzhan Arystanbekovich**², Semenova A.S.¹ Technogenic materials on the Kazakhstan enterprises processing copper and polymetallic ore and prospects for their complex usage (*1 – JSC «Institute of Metallurgy and Ore Beneficiation», kvyatkovskiy55@mail.ru; 2 – Kazakhmys Corporation LLC, Almaty, Republic of Kazakhstan*)
5. **Nikonov Sergey Vladimirovich**, committee chairman for agricultural policy and environmental resources management of Legislative Assembly of Sverdlovsk region. *Speech topic is under specifying.*
6. **Kudryavtsev Vladislav Vasilevich**, general manager of European-Russian business-association “ERBA” “*Closed cycle of SMW processing*”
7. **Smirnov Leonid Andreevich**^{1,2}, Sorokin Yu.V.¹, Demin B.L.¹, Zaynullin L.A.¹ Modern technologies and equipment for utilizing and processing of technogenic waste from metallurgical production (*1 – OJSC “Ural institute of metal”, Yekaterinburg, Russia, iium@ural.ru; 2 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia; 3 – OJSC “VNIIMT”, Yekaterinburg, Russia*)
8. **Kornilkov Sergey Viktorovich**¹, Antoninova N.Yu.¹, Rybnikov P.A.¹, , Dmitriev A.N.², Technologically-ecological aspects of technogenic-mineral formation processing from

mining enterprises (1 – Institute of mining engineering of UB RAS, Yekaterinburg, Russia, 2 – Institute of metallurgy of UB RAS, Yekaterinburg, Russia)

9. **Panchenko Vladislav Yakovlevich**, Chairman of Council of Russian fund for fundamental research. *Presentation topic is under specifying*
10. **Kazakova Viktoriya Vladimirovna**, deputy minister of industry and science of Sverdlovsk region. *Presentation topic is under specifying*
11. **Svalov Egor Anatolevich**, chairman of Ecology and Environmental Management committee of Yekaterinburg municipal administration “*Yekaterinburg experience in work under the new conditions*”

Launch break 13³⁰ – 14³⁰

Session continuing 14³⁰ – 17⁵⁵

12. **Melentev Geliy Borisovich**¹, Malinina E.N.², Elchin D.S.², Egorkin S.V.², Vdovina O.K.², Methodology and results of eco-geochemical charting for naturally-technogenic hydroecological systems of various specialized mining complexes (1 – Joint Institute for High Temperatures of RAS, Moscow, Russia; 2 – Institute of mineralogy, geochemistry, crystal chemistry of rare metals of Ministry of Natural Resources and Environment of RF, Moscow, Russia)
13. **Vaisberg Leonid Abramovich**, Modern technologies for production and consumer waste processing (REC “Mekhanobr-Tekhnika”, Saint Petersburg, Russia, korovnikov_an@npk-mt.spb.ru)
14. Chupakhin O.N., **Gorbunova Tatyana Ivanovna**, Saloutin V.I., Charushin V.N., Problems of ecology and polychlorinated biphenyl elimination (Institute of organic synthesis named after I. Ya. Postovsky of UB RAS, Yekaterinburg, Russia, gorbunova@ios.uran.ru)
15. **Pasechnik Liliya Alexandrovna**, Yatsenko Sergey Pavlovich, Skachkov V.M., Medyankina I.S., Surikov V.T., Skryabneva L.M., Sabizyarov N.A. Hydrothermal synthesis of magnetic phases on the basis of red mud with simultaneous alkali recycle in alumina production (Institute of solid state chemistry of UB RAS, Yekaterinburg, Russia, pasechnik@ihim.ru)
16. **Romanova Olga Alexandrovna** Methodological aspects for environmentally-friendly forming of space (Institute of economics of UB RAS, Yekaterinburg, Russia, econ@uran.ru)
17. **Mamonov Sergey Vladimirovich**^{1,2} Technologies of technogenic waste processing from ore and smelting enterprises (1 – OJSC “Uralmekhanobr”, Yekaterinburg, Russia, Mamonov_SV@umbr.ru); 2 – UMMC Technical university, Verkhnyaya Pyshma, Sverdlovsk region, Russia)
18. **Yakornov Sergey Alexandrovich**, Panshin A.M., Kozlov P.A., Ivakin D.A. The current state of EAF dust processing in Russia and abroad (“UMMC-Holding” Corp., Verkhnyaya Pyshma. Sverdlovsk region, Russia, pak@zinc.ru)
19. **Startseva Olga Petrovna** Ecological, economic and legislative aspects of industry for production and consumer waste processing (RPO “Ural Ecological Initiative”, Yekaterinburg, Russia, urall0m@mail.ru)
20. Leontev L.I., Selivanov Eugene Nikolaevich State and directions for the development of technologies for making environmentally friendly non-ferrous production (Institute of metallurgy of UB RAS, Yekaterinburg, Russia, pcmlab@mail.ru)

- **Session work summarizing** (3-minute presentations of session moderators)
- **Diploma and memorable gifts awarding for the best section reports**

House supper from 18⁰⁰

June 9, 2017

EXCURSION DAY

Excursion at PJSC “Seversk Tube Works” (Polevskoy)

Departure from “Yekaterinburg-Central” hotel at 8³⁰

Departure from IMET UB RAS (Amundsena str, 101) at 9³⁰

Road from Yekaterinburg to Polevskoy with a tour guide

Excursion program start at Seversk Tube Works at 11⁰⁰

- Providing briefing for OHSE
- Excursion at Museum Complex “Seversk blast-furnace”
- Electric furnace shop (scrap stockyard, EAF, ladle furnace, vacuum vessel, continuous-casting machine)
- Launch at factory dining room
- Meeting and discussion with Ozornin Vadim Eugenevich, deputy chief engineer, chief environmental service of the factory

Departure from Polevskoy at 15⁰⁰

Arrival in Yekaterinburg at 16⁰⁰ – 16³⁰

Cameras allowed only on the territory of Museum Complex “Seversk blast-furnace”

You can register for visiting Kamesnk-Uralsky and Polevskoy at the registration.

Unfortunately, seats at the excursion-trip are limited. We cannot include in list more excursionist, if the excursion groups are full (each for 30 member).

There is an option for Yekaterinburg visitors to make an excursion around the town at sixth or seventh of June, if there will be 10-15 members wishing to participate.

Congress is held with the purpose for analyzing of current situation at industrial plants, for grounding of new fundamental and applied directions of scientific researches on technogenic waste processing and utilization from RAS institutes, SRI, HEI and enterprises, for database creating of the new advancing technologies.

Arrival of the conference participants at June 5, 2017

- “Yekaterinburg-Central” hotel 3*, (Yekaterinburg, Malysheva str, 74) from airport by bus №1 (bus stop “Belinsky Library”), from railway station by trolleybus №1, 9 (bust stop “Tsentralnaya Gostinitsa”).

Congress participant registration

June 6, 2017, from 9⁰⁰ A.M. local time, on the venue for section sessions – at Institute of metallurgy of the Ural Branch of RAS, Yekaterinburg, Amundsena str, 101;

June 7, 2017, from 9⁰⁰ A.M. local time, on the venue for section sessions – at Institute of metallurgy of the Ural Branch of RAS, Yekaterinburg, Amundsena str, 101; “Ural Federal University named after the first President of Russia B.N.Yeltsin”, Yekaterinburg, Mira str, 19;

June 7, 2017, from 9⁰⁰ A.M. local time, on the venue for plenary meetings at OJSC “Uralsmekhanobr”, Yekaterinburg, Khokhryakova str, 87;

Transportation to sessions of participants living at “Yekaterinburg-Central” hotel is made by bus from hotel and back.

For other participants:

Transportation to IMET UB RAS (bus stop “Institutskaya – akademika Vonsovskogo”);

- From railway station (North bus station) by bus № 21;
- From South bus station by bus №50, trolleybus № 14, express bus № 054 and № 014;
- From airport by bus № 1, by public taxi bus to railway station and further by bus №21;
- From city center (metro “Ploschad 1905 goda”, metro “Geologicheskaya”) by bus № 50, express bus № 054 and № 014.

Transportation to OJSC “Uralsmekhanobr” (bus stop metro “Geologicheskaya”):

- From railway station (North bus station) metro to station “Geologicheskaya”;
- From South bus station by bus №50 and №57, by trams № 4 and № 15;
- From airport by bus №1, by public taxi bus to railway station and further by metro to “Geologicheskaya” station;
- From city center (metro “Ploschad 1905 goda”) by bus № 50 and № 57.

Organizing committee will provide resettlement of participant who warn Organizing committee about visit. Moreover, the Yekaterinburg hotel can be reserved individually.

For the speaker attention! Presentations should be provided on USB-flash or CDs.

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