

XIV International Congress of Steelmakers and metal producers

**17-21 on October
2016 city of**

**Elektrostal
Moscow region**



Scientific council on metallurgy and metal science department of chemistry and sciences of the Russian Academy of Sciences Content

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Schedule of the Congress

17 October:

14.00 - 20.00 - Registration of participants of the Congress (Hall of the Main Building, Park Hotel "Yakhont")

With 17.30 arrival and accommodation in the chosen category, members of Congress who chose to stay Park Hotel "Yakhont"

19.00 - Dinner for participants **residing** in the territory of the Park Hotel "Yakhont" (restaurant complex, hall «Swedish line» 2nd floor)

October 18 :

8.00-9.00 - Breakfast for participants living in Park-hotel "Yakhont" (restaurant complex, hall «Swedish line» 2nd floor)

9.05 - 9.20 - Transfer from the train / railway station to the Zakharovo Park Hotel "Yakhont" for participants **not staying** at the hotel.

9.00-10.00 - Registration of Congress participants (1st floor Congress Hall Park Hotel "Yakhont").

10.00 - 11.35 - Plenary Session - first part (2nd floor Congress Hall "Hyacinth" Hall)

11.35-11.55 - coffee break (Foyer 2nd floor of Congress Hall)

11.55-13.00 - Plenary session - 2nd part (2nd floor of Congress Hall, Hall "Hyacinth")

13.00-14.00 - Lunch (restaurant complex, hall «Swedish line» 2nd floor)

14.00-16.00 - Plenary session Part 3 (2nd floor, Congress Hall, "Hyacinth" Hall)

16.00-16.15 - coffee break (Foyer 2nd floor of Congress Hall)

16.15 - 18.15 - Plenary session of the 4th (2nd floor of Congress Hall, "Hyacinth" Hall)

19.00 - 21.00 - Dinner for participants **residing** in the territory of the Park Hotel "Yakhont" (restaurant complex, hall «Swedish line» 2nd floor)

19.00 - Transfer from the barrier at a checkpoint Park Hotel "Yakhont" to the train / railway station Zakharov, the participants **do not**

19.00 - Transfer from the barrier at a checkpoint Park Hotel "Yakhont" to the train / railway station Zakharov, the participants **do not live** on site.

*** October 19:**

8.00-9.00 - Breakfast for participants **residing** in the territory of the Park Hotel "Yakhont" (restaurant complex, hall «Swedish line» 2nd floor)

9.05 - 9.20 - Transfer from the train / railway station to the Zakharovo Park Hotel "Yakhont" for participants **not staying** at the hotel.

9.30 - 11.00 - Meetings of the sections (2nd floor Conference hall, meeting room number 22, number 23, number 24)

11.00-11.20 - coffee break (Foyer 2nd floor of Congress Hall)

11.30 - 13.00 - Meetings of the sections (2nd floor Conference hall, meeting room number 22, number 23, number 24)

9.30 - 12.30 - Excursion to the factory JSC "Metallurgical Plant" Electrostal "(*Section" casting and crystallization of steel "and" Energy-saving, resource-saving and environment steelmaking "*). The bus leaves from the barrier at a checkpoint Park Hotel "Yakhont")

13.00-14.00 - Lunch for participants **residing** in the territory of the Park Hotel "Yakhont" (restaurant complex, hall «Swedish line» 2nd floor)

14.15 - 18.30 - Meetings of the sections (2nd floor Conference hall, meeting room number 22, number 23, number 24)

14.30 - 18.00 - Excursion to the factory JSC "Metallurgical Plant" Electrostal " *Section (" ladle metallurgy ", " New materials and special electrometallurgy "*). The bus leaves from the barrier at a checkpoint Park Hotel "Yakhont "

16.00 - 16.15 - Coffee break (Foyer 2nd floor of Congress Hall)

16.15 - 18.30 - Meetings of the sections (2nd floor Conference hall, meeting room number 22, number 23, number 24)

19.00 - Transfer from the barrier at a checkpoint Park Hotel "Yakhont" to the train / railway station Zakharov, the participants **do not live** on site.

19.00 - 23.00 - Friendly dinner (2nd floor of Congress Hall, "Hyacinth" Hall)

22.00 - Transfer from the barrier at a checkpoint Park Hotel "Yakhont" to the train / railway station Zakharov, the participants **do not live** on site. (**Last w / d from the station. Zaharovo departure time 22.55**)

The 20th of October

8.00-9.30 - Breakfast for participants **residing** in the territory of the Park Hotel "Yakhont" (restaurant complex, hall «Swedish line» 2nd floor)

9.05 - 9.20 - Transfer from the train / railway station to the Zakharovo Park Hotel "Yakhont" for participants **not staying** at the hotel.

9.30 - 11.00 - Meetings of the sections (2nd floor Conference hall, meeting room number 22, number 23, number 24)

9.30 - 12.30 - Excursion to the factory JSC "Metallurgical Plant" Electrostal "(*section" Metallurgy of steel "*). The bus leaves from the barrier at a checkpoint Park Hotel "Yakhont "

11.00-11.20 - coffee break (Foyer 2nd floor of Congress Hall)

11.30 - 13.00 - Meetings of the sections (2nd floor Conference hall, meeting room number 22, number 23, number 24)

13.00-14.00 - Lunch for participants **residing** in the territory of the Park Hotel "Yakhont" (restaurant complex, hall «Swedish line» 2nd floor)

14.00 - 16.30 - Meetings of the sections (2nd floor Congress Hall, "Malachite" Hall)

16.30 - 17.00 - Coffee break (Foyer 2nd floor of Congress Hall)

17.00 - 18.00 - Plenary session, discussion of results of XIV Congress of Steelmakers, awarding prizes for the best reports. (2nd floor of Congress Hall, "Malachite" Hall)

18.00 - 19.00 - General Meeting of the Interregional public organization, report the Chairman of the Board, election of the Chairman of the Board, election of Board members (2nd Floor Conference Hall, Hall "Malachite").

19.00 - 21.00 - Dinner for participants **residing** in the territory of the Park Hotel "Yakhont" (restaurant complex, hall «Swedish line» 2nd floor)

19.00 - Transfer from the barrier at a checkpoint Park Hotel "Yakhont" to the train / railway station Zakharov, the participants **do not live** on site.

October 21, 2016 Departure of the participants of the Congress.

Work Regulations.

Speech at the Plenary Session - 20 minutes.

Speaking at meetings of the sections, as well as the discussion of the reports determined sections of the leaders.

Speech section leaders at the closing plenary - 10 minutes.

Organizing Committee of XIV International Congress of Steelmakers and metal producers:

Co-Chairs: Prof. KL Kosirev, Ph.D. EV Shilnikov

Organizing committee members : LM Axelrod, D. Ameling, Barashenkov AY, Bige VA, Brody AA Grigorovich KV, GA Dorofeev, Semin AE, AA Sisev, Elansky G. NA, Zaitsev AI, Lamuhin AM Leontyev LI Ravnushkin VA Paderin SN, Parshin VM Snitko YP Shevelev LN , Hughes OV

Work of sections 19 and 20 October 2016

Section 1. Metals steel. Chairpersons: prof. Bige VA Kabanov IV, Ph.D. Ravnushkin VA, prof. Semin AE

Section 2. The special electrometallurgy steel and alloys. Section leaders: prof. Paderin SN, prof. Roshchin VE

Section 3. Ladle metallurgy of steel and cast iron. Section leaders: Corresponding Member. Russian Academy of Sciences, prof. Grigorovich KV, prof. Zaitsev AI, Ing. Moore SP

Section 4. Casting and crystallization began. Chairpersons: D.Sc. Parshin VM, Ing. Urin SP

Section 5. Energy efficiency, resource conservation and ecology steelmaking Chairpersons: Ph.D. Dorofeev GA, Ing. Penkov SI, prof. Shevelev LN

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+7 (963) 971-59-46 Baranenko Maria A.

PROGRAM**plenary session of 18 October**

10.00. KL Kosirev, EV Shilnikov. Opening remarks and welcome.

10.10. DP Butsaev, Deputy Prime Minister of the Moscow region. Investment, innovation and the development of industry in the region.

10.25. Elektrostal Head of the city administration: The unity of the city of Elektrostal and "Elektrostal" factory, the current situation and prospects.

10.35. EV Shilnikov. Origin and development of the process of production of high-quality stainless steel at the plant "Elektrostal" - 100 years of scientific and technological progress.

11.05. LI Leontiev, VI Bugs, VY Dashevskii, MV Kostina. The possibilities of import substitution in the mining and metallurgical complex.

11.35- 11.55. Coffee tea break.

11.55. D. Ameling (Germany). World steel production.

12.30. LA Smirnov, Terry Perles, AL Smirnov. Global trends in the use of vanadium and vanadium complex development prospects in the Russian Federation

13.00.14.00. Dinner

14.00. F. Kongoli, Reducing Energy Consumption in Steel Production.

14.30. AI Logacheva. New materials and technologies in special electrometallurgy.

15.00. VS Oak, KL Kosirev, AV Oak, AN Romachkin, GN Elansky. Condition, prospects and value of production of large ingots in Russia. *State Research Center of JSC "NPO" TSNIITMASH "MAMI.*

15.30. KV Grigorovich. Metallurgy twenty-first century: the current state and direction of development. *Institute of Metallurgy and Materials. AA Baykova Russian Academy of Sciences (RAS IMET).*

16.00. LN Shevelev. The current level of greenhouse gas emissions in the Russian steel industry and future direction of their reduction. *FSUE "TsNIIchermet them. IP Bardeen "*

16.30. DV Stalin, VA Botstein, AV Yudin. LLC "ITC" ROSENERGOSTAL "- engineering designer, supplier of equipment for modern steelmaking. *State Enterprise" Ukrainian Scientific and Technical Center of Metallurgical Industry "Energostal" , LLC "Engineering Center" ROSENERGOSTAL "*

17.00. LM Axelrod. Refractory for steel production: composition, availability, durability, economy, ecology.

17.20. AA Brody, NH Muhatdinov. The Russian ferrous metallurgy in 2017-2020 gg. *FSUE "TsNIIchermet them. IP Bardeen "*

17.40. OV Hughes, AM Sedykh, TM Petrakov. The trend in the industrial and economic indicators of metallurgical and pipe companies of Russia.

18.00. KL Kosirev. The discussion on the reports and results of the first work of the Congress.

19.00. Dinner.

17.00 VE Roshchin. The physical concept of restoration / metal oxidation theory. *South Ural State University (NIU)*.

GA 17.20 Dorofeev VM Parshin. New resource-saving concepts in the production of steel. *The group of companies "FERRO-TECHNOLOGY", FSUE TsNIIchermet them. IP Bardin*.

17.40 D.A.Ponomarenko, A.Yu.Vorobëv. Implementation of R & D and other innovation in the new economy.

Section 1. Steel Metallurgy.

October 19th

9.30 - GN Elansky. Professor V.A.Kudrin: scientific and pedagogical schools. *IPO "Steelmakers' Association* ;

9.45 GN Elansky. . Iron in the animate and inanimate nature of the *NGO "Association of Steelmakers'* ;

10.00 - VN Kovalev. Analysis of the efficiency of production of iron and steel in the unit with bubbling melted slag (ABSHR). *NPP "Energoterm system"* ;

10.15 - EM Rebikov, DG Elansky. Removing items from the metal in the smelting of steel in electric arc furnaces DC foundry. *NUST "MISA"* ;

10.30 - J. Lueckhoff1, J. Apfel, J. Buttler. Material flexibility in the Raw description electric steel-making. *Primetals Technologies' Germany GmbH* ;

10.45 - EA Kondratiev VV Gorbunov. The main range of products for iron and steel production Bogdanovich OAO "Refractories". *Bogdanovichskoe of "Fireproof"* ;

11.30 - Nahl Ozgur Serkan Dolapchiolu, Stefano Miani, Riccardo Gottardi, Hans-Jörg Krassnig. Filling a tub in chipboard with telescopic design Arch. *Of INTECO Melting and Casting Technologies' GmbH* ;

11.45 - Panteykov SP, LP Semerunina. On peculiarities of thermal work bottom blocks multichannel converters combined blast. *Dneprodzerzhinsk State Technical University* ;

12.00 - SP Panteykov, ES Panteykova. On the temperature state of the refractory bottom of the BOF at his slagging. *Dneprodzerzhinsk State Technical University* ;

12.15 - SP Panteykov. Blast furnace - the future of steelmaking unit. Chast1.Domna descendant syroductnyh ancient furnaces for the production of steel and ductile iron. *Dneprodzerzhinsk State Technical University* ;

12.30 - SP Panteykov. The evolution of open-hearth steel making process. *Dneprodzerzhinsk State Technical University* ;

12.45 - DA Ponomarenko, AY Vorobyov. The new generation of control systems for BOF and EAF production. *Ltd. IBMT* ;

14.15 - AG Hoods, SP Burmasov AV Murzin, L. Smirnov, EG Zhitlukhin. Theoretical Foundations and efficiency technologies integrated DSP carburizing intermediate graphite and silicon carbide. *FGAOU IN "The Ural Federal University. First President of Russia BN Yeltsin ", PJSC "Seversky Pipe Plant "FGBUN Institute of Metallurgy, Ural Branch of Russian Academy of Sciences* ;

14.30 - LA Smirnov, SA Spirin, VA Ravnushkin, NM Snyatinovskaya, SV Filatov, AI Dagman. Influence of silica concentration in the iron on the technological characteristics of the converter process. *JSC "Ural Institute of Metals", OJSC "Novolipetsk Steel"* ;

14.45 - VA Ravnushkin, AB Dobuzhskaya, LA Smirnov, SA Spirin. Formation of non-metallic inclusions during carburization steel intermediate high- and low-ash carburizers. *JSC "Ural Institute of Metals"*

15.00 - DG Elansky, P. van der Feld, A. Opferman. Energy supply and operation of chipboard. *NUST «MISA», the Badische Stahl Engineering GmbH* ;

15.15 - Botnikov SA Getting clean steel oxide non-metallic inclusions in the modern EAF. *The branch of JSC "OMK-Steel" in Vyksa*

15.30 - AA Babenko, LA Smirnov, LY Mikhailova, MV Ushakov, SA Spirin. Theoretical Foundations and smelting technology in oxygen converters and DSP at magnesian slag. *Federal State Institution of Science Institute of Metallurgy, Ural Branch of Russian Academy of Sciences, JSC "Ural Institute of Metals", Ural Federal University. First President of Russia BN Yeltsin* ;

16.00 - AP Vozchikov, KN Demidov, T. Borisov, V. Nosenko, A. Filatov. Application vysokomagnezialnyh flux "Flyumag" in steelmaking. *OOO "Russian Mining Chemical Company"* ;

16.15 - OY Sheshukov, VP Ermakova, VG Smirnova, IV Nekrasov, LA Marshuk. The process parameters and microstructure of the steel smelting 20GL-cast and heat treated condition. *IMET UB RAS* ;

16.30 - AA Protopopov AA Arsenyev, GA Dorofeev, VA Yerofeyev. ORIEN process and its simulation. Tula State University, *LLC "NPMP Intermet service"* ;

16.45 - LE Shchukin, AE Semin, GA Filippov. Doping steel 10H8NMVBF nitrogen in order to improve service properties. *NUST "MISA", FSUE "TsNIIchermet them. IP Bardin "* ;

17.00 - VA Bige, Y. Kolesnikov, DS Sergeev MV Potapov, AV Pischaskina Technological evaluation of the restructuring of the metal charge steel-making units. *FGBOU IN "MSTU. GI Nosov "* ;

17.15 - AV Savin, VE Nikolsky, AA Moses, PG Smirnov. The new experience of creating shaft kilns for lime production with controlled parameters. *JSC "Concern "inkjet technology "* ;

17.30 - P. Zipp, J. Apfel. Modernization with Increased EAF power by input the primetals technologies. *Primetals Technologies' Germany GmbH*;

17.45 - S.V.Muruev, EV Shilnikov, S.N.Paderin, EV Butsko. Methods of predicting the carbon content at the end of the oxidation period of melting chromium-nickel stainless steel in an arc furnace 20T.

The 20th of October

14.00 - E.M.Rebikov, DG. Elansky. The behavior of a number of elements of the metal in the smelting of steel in electric arc furnace DC foundry. *National Research Technological University "MISA"*;

14.15 - DV Stalin, Ryzhavsky AZ, Zimoglyad AV, Yudin A.V.Tehnicheskies solutions LLC "ITC" ROSENERGOSTAL "on reconstruction of gas exhaust ducts konfektorov 350-400 tons. " *Ukrainian Scientific and Technical Center of Metallurgical Industry "Energostal", LLC "Engineering center" ROSENERGOSTAL "*;

14.30 - VA Sinelnikov, GA Dorofeev. In the future meet Demidov metal from the past. *The Academy of Technological Sciences, group of companies "FERRO-TECHNOLOGY"*;

14.45 - VI Dmitrienko EV Protopit AV Dmitrienko. Experience in the use of manganese ore in the modern EAF process. *"Siberian State Industrial University"*;

15.00 - MV Krasnyansky, J. L. Katz, AS Tyufyaev, M.H.Gadzhiev, M.A.Sargsyan, DI Yusupov. A plasma arc heating periclase refractory. *JSC AHK "VNIIMETMASH" NUST "MISA" High Temperatures RAS.*

15.15 - AA Protopopov AA Arsenyev, GA Dorofeev, VA Yerofeyev ORIEN process and its simulation. *Tula State University, Tula State University, LLC "NPMP Intermet service", Tula State University;*

15.30 - Stefano De Monte. Coils electromagnetic stirring. *Ergolines the Lab s . R . L .;*

15.45 - MA Zhigarev. Modern metallurgical complex for the production of high-quality steel and rolled . *Ltd. "Tulachermetstal"*;

16.00 - A. Zaitsev. Integrated non-metallic inclusions and progress in modern metallurgy and materials science began. *FSUE "Central Research Institute of Ferrous Metallurgy. IP Bardeen "*;

16.15 - LA Smirnov, SA Spirin, VA Rovnushkin, NM Snyatkovskaya, S. Filatov, AI Dagman. Influence of the concentration of silicon in iron nizkomargantsevistom on technological parameters of the converter process. *JSC "Ural Institute of Metals", Ekaterinburg, OAO "Novolipetsk Steel.*

16.30 - LA Smirnov, VA Rovnushkin, DS Shulmin, A. Oryshchenko, G. Yu Kalinin V.G.Milyuts. The effect of temperature on the solubility of nitrogen in steel hromonikelmargantsevistoy. *JSC "Ural Institute of Metals", Ekaterinburg, FSUE "CRI" Prometheus ", St. Petersburg*

16.45 - AA Kozhukhov, VI Kozhukhova. On the question of assessing the ability of steelmaking slag foaming. *Stary Oskol Technological Institute (branch) NUST "MISA".*

Section 2. New materials and special electrometallurgy.

October 19th

9.30 - IV Kabanov, EV Butsko, KV Grigorovich AM Arsenkin. Conditions for the existence of sulfide phases in alloys of iron-nickel-based. *JSC "Metallurgical Plant" Electrostal ", Federal State Unitary Enterprise" Institute of Metallurgy and Materials "to them. AA Baykova Russian Academy of Sciences (RAS IMET);*

9.45 - SV Moore, A. Murueva, TA Topilin, AV Tarasov. Features smelting technology in an arc furnace superalloys DPPTU DC-6 at JSC *"Metallurgical Plant" Electrostal "*;

10.00 - S. Moore, VV Musatov, IP Zhelavskaya, AS Urin. Development control procedures by the content of the ferrite phase induction remelting welding wire and strip in an argon atmosphere. *JSC "Metallurgical Plant" Electrostal "*;

10.15 - AI Ilyinsky, IV Kabanov, EN Abashkin. Comparative results of the production of electro-metal remelting metal in old furnaces EDO series and a new furnace KONSARK. *JSC "Metallurgical Plant" Electrostal "*;

10.30 - Michael Kubin, Cherian Alexander, Mathias Koba, Harald Holtsgruber. Production of heavy forging ingots weighing up to 250 tons by ESR: the experience of operation of the plant and the method of optimization technology. *«Of INTECO melting and casting technologies GmbH»;*

10.45 - IV grouse, VA Golubtsov, RG Usmanov, VG Milyuts, VV Tsukanov. The effectiveness of modifying steel complex with strontium modifiers. *LLC «NPPgroup», CRISM "Prometheus"*;

11.30 - LA Smirnov, VA Rovnushkin, AB Dobuzhskaya, SA Spirin. Features of formation of non-metallic inclusions in the modification of high-carbon steel REM. *JSC "Ural institute of metals"*;

11.45 - LA Smirnov, VA Rovnushkin, DS Shulmin, AS, Oryshchenko, GY Kalinin, VG Milyuts. The effect of temperature on the solubility of nitrogen in hromonikel manganese steel. *JSC "Ural Institute of Metals" IMET UB RAS, FSUE "CRI" Prometheus "*;

12.00 - IM Shatohin, MH Ziatdinov, VA Bige, IR Manash. Experience in the development, production and application of low carbon ferrochrome of High-SHS method. *Ltd. "STPP" Etalon ", MSTU. GI Nosov;*

12.15 - Roland Filer, Michael Mayer, Michael Kubin, Robert Pierer. The new development - 2-level system for the production of

materials with improved properties in special furnaces and melting furnaces for melting. *I of NTECO melting and casting technologies GmbH*;

12.30 - KA Zubarev, GI Kotelnikov, AE Semin, S. Neretin. Analysis deoxidation iron calcium curve. *NUST "MISA"*;

12.45 - VS Tsepelev, YN Starodubtsev, VY Belozherov VV Konashkov, VV Vyuhin, SA Somov, AI Taushkanova. Preparation melts on an iron prior to amorphization. *Ural Federal University named after the first Russian President Boris Yeltsin, Scientific and Production Enterprise "Gammamet", OJSC Vyksa Steel Works*.

The 20th of October

9.30 - AA Alexandrov, VY Dashevskii, LI Leontiev. The solubility of oxygen in the molten system Fe-Co, containing chromium, vanadium and boron. *Institute of Metallurgy and Materials. AA Baykova RAS*;

9.45 - OV Zayakin, VI Tipsters, VA Salina, AA Babenko. Obtaining nickel - and chromium ferroalloys from domestic raw materials. *Institute of Metallurgy, Ural Branch of Russian Academy of Sciences*;

10.00 - NK Tursunov, AE Semin, EA Sanokulov. Investigation of dephosphorization and desulfurization in the melting of steel 20GL in an induction furnace. *NUST "MISA", DP "LMZ"*;

10.15 - GA Dorofeev, PR Yantovsky, EY Barsukov, JM Stepanov. A new feature of artificial composite materials for steel production.

10.30 - VV Stepanovskikh. Standard samples for spectral analysis of steel, designed JSC "Institute of Reference Materials". *JSC "Institute of Reference Materials"*;

10.45 - KO Titov G.I.Kotelnikov. . Interaction of hydrogen with metal and metal matrix micro-cavities *National Research Technological University "MISA"*;

11.30 - SN Paderin, VT Burtsuev. . Thermodynamics deoxidation molten system Fe-Ni-Co-Al- Ti and the determination of oxygen activity by EMF *JSC "Metallurgical Plant" Electrostal "FGBUN IMET RAS*;

11.45 - AA Dednev, MA Kisselman, DV Maslov, SM Nehamin, AG Eugene, AI Shcherbakov, SA Krylov, AA Makarov. Getting High-Carbon Steels by Electroslag remelting under pressure. *OOO "NPF KOMTERM", FSUE "VIAM"*;

12.00 - NA Kozyrev AA Umansky, R.E.Kryukov, PD Sokolov. Development of new formulations cored wires in order to increase the performance of the deposited layer. *VPO "Siberian State Industrial University"*;

12.15 - GA Dorofeev, PR Yantovsky, EJ Barsukov, JM Stepanov. A new feature of artificial composite materials for steel production. *The group of companies "FERRO-TECHNOLOGY"*;

12.30 - Koba Matthias. Production of heavy ingots weighing up to 250 tons ESR technology: operating experience of installation and method for optimizing the technology. *Of INTECO melting and casting technologies GmbH*;

12.45 - AN Malginov. Production of pipes main circulation pipeline NPP of solid and hollow forging ingots. *JSC "NPO" TSNIITMASH "*;

14.00 - IR Manash. Experience in the production and use of High-low-carbon ferrochrome FHN10 SHS method. *NTP "Standard"*;

14.15 - AV Ryabov. Bessvintsovistye clean easily workable steel. Manufacturing. *VPO "YUUGU"*;

14.30 - DS Tolstoy. Increasing the complex properties of hull steel by reducing maintenance and optimization of the morphology of nonmetallic inclusions. *JSC "NPO" TSNIITMASH "*;

14.45 - MH Ziatdinov. SHS technology of composite ligatures. *Tomsk State University*;

15.00 - EG Zhitlukhin, SP Burmasov, LE Dresvyankina, AG Hoods, AV Murzin. Comparative analysis of the morphology of the inclusions in the modification of calcium in a vacuum steel. *FGAOU IN "The Ural Federal University. First President of Russia BN Yeltsin ", PJSC" Seversky Pipe Plant "*;

15.15 - EV Shilnikov, S.N.Paderin. The development of the theory of solubility of oxygen in liquid metals Ni, Co, Fe, Mn, Cr and solutions systems Ni-Co-Fe-Mn- Cr-O. *JSC "Metallurgical Plant" Electrostal "*.

Section 3. The ladle metallurgy of steel and iron

October 19th

9.30 - Andreas Harter, Andrea Pezza, Jose David Martinez Cerezo. New approaches in designing ladle and circulating vacuum installations, including the oxygen blowing. *Primetals Technologies Germany GmbH*;

9.45 - Alexander Kovalenko, AV Gursky, AA Kondrukevich, NS tenant, E. Yu Zhiboedov, Kusch SV Riaby DV Yakovlev AI Influence heat radiation metal mirror tundish thermal fatigue of the metal casing of ladle bottom. *PJSC "Yenakiyev Steel plant», Corwintec Europe Ltd, MUCTR. Mendeleev; LLC "VPO" Steel "; SHEE DonSTU*;

10.00 - Novikov VA, Novikov SV Kulikov AP, Oak VS, Shchepkin IA Efimov Sergey Afanasiev SY . Improving the technology of smelting and secondary treatment of structural steels for nuclear power plants responsible products of *JSC "NPO" TSNIITMASH ", LLC" OMZ Special Steels "*;

10.15 - VA Murysev, SA Somov, SA Workers. Improvement in the ladle slag regime for aluminum killed steel grades. *JSC "Vyksa Steel Works" Vyksa. The branch of JSC "OMZ Steel" in Vyksa*;

works , vyksa, iite dralici oi jsc OMK-Steel iii vyksa;

10.30 - EV Protopopov, MV Temlyantsev, KE Maksakova, EM Zapolskaya. A study of carbon-decarburization ladle refractories. *FGBOU IN "Siberian State Industrial University";*

10.45 - LA Smirnov, DS Shulmin, VA Ravnushkin. The study features dephosphorization processes vanadium iron-carbon melts. *JSC "Ural institute of metals";*

11.30 - AA Babenko, VI Tipsters, AV Sychev, VP Ermakova, VG Smirnova, MF Vituschenko. Manufacturing sparingly boron steel pipe 17G1SU grade X80 strength. *IMET UB RAS, Ural Federal University. First President of Russia BN Yeltsin, JSC "ArcelorMittal Temirtau";*

11.45 - OY Sheshukov, IV Nekrasov, MA Mikheenkoy, DC Egiazaryan, DA Lobanov, OV Neugodnikov, BA Ivanov. . Experience in the use of aluminum-alumina flux in the ladle treatment "bezalyuminievyh" became *IMET UB RAS ;*

12.00 - IM Shatohin, MH Ziatdinov, VA Bige, IR Manash. Experience in the development, production and application of low carbon ferrochrome of High-SHS method. *Ltd. "STPP" Etalon ", MSTU. GI Nosov;*

12.15 - Roland Filer, Michael Mayer, Michael Kubin, Robert Pierer. The new development - the system level 2 for the production of materials with improved properties in special furnaces and melting furnaces for melting. *Of INTECO melting and casting technologies GmbH ;*

12.30 - KA Zubarev, GI Kotelnikov, AE Semin, KV Grigorovich. Prediction condensate mass of nickel-copper alloys in the refining of vacuum . *NUST "MISA"*

12.45 - BF Belov, AI Trotsan, IL Brodetsky, IV Grouse, VA Golubtsov. Classification and optimization silikobariya alloys for ladle treatment of steel. *Institute of Problems of Materials Science, OOO NPP "Technology".*

The 20th of October

9.30 - AV Gayvoronskiy, NV Pavlova. Investigation of the effect of microalloying steel wheel with calcium and barium in the modification of non-metallic inclusions. *JSC "Vyksa Steel Works";*

9.45 - AV Artamonov, MS Garkavi, EV Kolodezhnaya, VA Bige, AV Pischaskina. The use of fluidized lime centrifugal-impact grinding for metal ladle desulfurization. *JSC "Ural-Omega," FGBOU IN "MSTU. GI Nosov ";*

10.00 - OY Sheshukov, IV Nekrasov, MA Mikheenkoy, DC Egiazaryan, Lobanov DA Stabilization of refining slag by adjusting their phase composition and giving them the properties of mineral binders. *IMET UB RAS, FGAOU HPE «Ural Federal University named after the first President of Russia Boris Yeltsin, Yekaterinburg, JSC" NSMMZ "; LLC "Seal and K";*

10.15 - OY Sheshukov, IV Nekrasov, SN Bonar, DC Egiazaryan, MM Timbalist, 10.30 - AV Sivtsov. Sulfide Capacity aluminous slag furnace steel processing and activity of oxygen anions. *IMET UB RAS, 2 - FGAOU HPE «Ural Federal University named after the first Russian President Boris Yeltsin;*

10.45 - EG Zhitlukhin, SP Burmasov, LE Dresvyankina, AG Hoods, AV Murzin Comparative analysis of the morphology of the inclusions in the modification of calcium in a vacuum steel. *FGAOU IN "The Ural Federal University. First President of Russia BN Yeltsin ", PJSC "Seversky Pipe Plant ";*

11.30 - AV Gayvoronskiy, NV Pavlova. Investigation of the effect of microalloying steel wheel with calcium and barium in the modification of non-metallic inclusions. *JSC "Vyksa Steel Works";*

11.45 - DV Gorkusha, D. O. Terebikina, OA Komolova, KV Grigorovich. The use of computer simulation simulators in ladle metallurgy. *NUST "MISA", JSC "OMK-Steel" IMET RAS. AA Baykova;*

12.00 - LA Smirnov, VA Ravnushkin, GN Yunin, AB Dobuzhskaya, SA Spirin Features of formation of non-metallic inclusions in the modification of high-carbon steels REM. *JSC " Ural Institute of Metals ", JSC " EVRAZ ZSMK ";*

12.15 - EV Protopopov, MV Temlyantsev, KE Maksakova, EM Zapolskaya. A study of carbon-decarburization ladle refractories. *FGBOU IN "Siberian State Industrial University";*

1230 VL Kiverin, IS Kuklin, AG Ziganshin, AA Talanov. . Calcium injection wire for treatment of metallurgical melts *JSC "Chepetsk Mechanical Plant";*

12.45 GG Mikhailov, LA Makrovets, LA Smirnov, LE Dresvyankina. Thermodynamics of the processes of refining and modifying steel alkaline earth and rare earth elements. *JSC "Ural Institute of Metals"*

14.00 A.Harter, A.Pezza, J.David Martinez Cerezo . Approaches vacuum for the New Degassing plants the VD / the VOD and the RH / the RH-the OB. *Primetals Technologies' Germany GmbH ;*

14.15 AD Lopatenko, S.A.Botnikov, AE Semin. Refining processes study in the manufacture of steel pipe to improve the quality of the finished product. *NUST "MISA", a branch of JSC "OMK-Steel"*

14.30 ; OJ Sheshukov, DC Egiazaryan, AV Sivtsov, MM Timbalist, IV Nekrasov, PP Orlov. . Mode AC arc combustion and structural characteristics of the slag ladle metallurgy *IMET UB RAS, FGAOU HPE «Ural Federal University named after the first Russian President Boris Yeltsin;*

14.45 IV grouse, VA Golubtsov, RG Usmanov, VG Milyuts, Tsukanov VV, Efficiency modifying steel complex with strontium modifiers. *LLC «NPPgroup», FSUE CRI SM «Prometheus».*

Section 4. Casting and crystallization began.

19 on October

- 14.15 - Thomas Lengauer, Irene Watzinger, Bernd Linzer, Josef Watzinger. Unique production superfine sheet on the ALP. *Primetals Technologies' Germany GmbH*;
- 14.30 - L. Olivo - Ergolines Lab Srl , Area Science Park, F. Mantovani - Ergolines Lab Srl, Area Science Park, I. Mazza - Ergolines Lab Srl, Area Science Park, S. Spagnul - Ergolines Lab Srl, Area Science Park. The new system of laser and ultrasound scans to monitor the thickness of the mold powder. *Of INTECO melting and casting technologies GmbH*;
- 14.45 - Paul Krajewski, Sebastian Mihelik, Michael Ridler. Segment casting - an attractive alternative to steel casting into molds. «*Of INTECO TBR casting technologies GmbH*»;
- 15.00 - DS Tarvid, VV Oxalis, SN Pavlenko. The formation of the internal structure of continuous billet caster tonkoslyabovoy. *JSC "VSW"*;
- 15.15 - VN Selivanov, A. Filippov. Analysis of the results of experimental studies of slag formation in the mold caster using a mathematical model. *The Magnitogorsk State Technical University. GI Nosov, OJSC "MMK"*;
- 15.30 - KN Vdovin, EA Melnychuk, V. Tochilkin. Development of the casting process technology and the development of steel elements tundish slab caster. *Magnitogorsk State Technical University. GI Nosov, OJSC "MMK"*;
- 15.45 - ES Salzman, SL Urin, EV Kavalevich, BB Vlasenko, BS Baranov. Molds for alloyed steel from cast iron with vermicular graphite. *Elektrostal Polytechnic Institute (EPI) - a branch of MAMI, Metallurgical Plant "Electrostal"*;
- 16.00 - AV Klyuchkin, AY Sychev, VI Kazakov, IV Turikov. The development of SCO production of granulated casting steel slab continuous caster in the conditions of PJSC "Severstal" (Cherepovets). *PJSC "Severstal"*;
- 16.15 - AM Stolyarov, SV Didovich, DV Yurechko. Testing of various slag-forming mixtures of the continuous casting of steel pipe. *FGBOU IN "MSTU. GI Nosov ", OJSC" MMK "*;
- 16.30 - AA Safronov, AS Embalaev, AS Loskutov, VA Morgunov, V. Tazetdinov. "Operational management of production efficiency NLZ based on multi-level automation systems and manufacturing execution system (MES-system) in EAF of" PATH ", *JSC" NPO "TSNIITMASH", JSC "PATH", JSC "Eternit"*;
- 16.45 - VA Shablovsky, NF Anischenko, VM Parshin, VP Clack, MV Ryzhov, AV Klyuchkin. The main criteria for selection of insulation and slag-forming mixtures for tundish caster. *DonNiICherMet, Ltd "NTP" Techmet ", " TsNIChM ", LLC" ATMZ ", PJSC" Severstal "*;
- 17.00- AS Ivanyuk, SL Urin, IV Kabanov, AN Nesterov. Osvoenie and perfection of technology of foundry casting bar stock of heat-resistant cast alloys. *JSC "Metallurgical Plant" Electrostal "*;
- 17.15 - VA Shablovsky, AV Klyuchkin, AN Seraphim. Methods of testing the SCO operating parameters in the mold for casting steel caster. *"Donnichermet", PJSC "Severstal", OOO NTP "Techmet"*;
- 17.30 - IV Lebedev, E. Lorey, M. Radovic. Installing SCO automatic feeding to the crystallizer of CCM . «*FEEDER FLUX*» *COFERMIN Rohstoffe GmbH & Co. KG, IMERYS Metalcasting Germany GmbH*;
- 17.45 - SI Shakhov, AS Smolyakov, EV Egarmin, RI Kerimov Reconstruction of the existing CCM Baku Steel Company for the purpose of casting round billets for the needs of the pipe industry. *JSC AHK "VNIIMETMASH"*.

The 20th of October

- 9.30 - ES Zakirov, RI Nurullin, DA Gurtovoiy. Experience of introduction of the modifier p-20 for the treatment of steel 35L at the foundry PJSC "KAMAZ". *Foundry PJSC "KAMAZ"*;
- 9.45 - SP Korshikov, AA Casings. Determination of the possibility of reducing pollution become globular inclusions, ensuring stable casting in CCM. *JSC Oskol Electric Steel Works, Sary Oskol Technological Institute (branch) NUST "MISA"*;
- 10.00 - AB Kotelnikov, AA Vopenruk, NO Blokhin, WAKABAYASHI Takashi, MD Ryazan, TV Novikov VF Parfentev, DP Ryazan . Ways of improving the stability of the quality of billets and increase resource exploitation copper sleeves mold caster. *Ltd. "joint venture" Mishima-Mashprom », Shinko Metal Products Co., Ltd , SUE" Casting and Rolling Plant "*.
- 10.15 - KN Anisimov, AM Toptygin, AM Longinov, MP Gusev, SV Zarubin. Mathematical modeling of the profile of the gap between the wall of the mold and the billet. *FSUE Chermet them. IP Bardina; NPF "Corado"; MSTU. Bauman;*
- 10.30 - AA Vopneruk, AB Kotelnikov, NO Blokhin, RF Iskhakov, K. Yamamoto. Factors constraining resource copper plates of continuous casting machines and methods to improve the durability. *Ltd. JV "MMP", ZAO "NPP" Mashprom " the Mishima Kosan Co is ., Ltd is .;*
- 10.45 - A. Kovalenko, AV Gursky, AA Kondrukevich, NS tenant, E. Yu Zhiboedov, SV Kusch, DV Riaby Al Yakovlev. Effect of heat radiation metal mirror tundish thermal fatigue of the metal casing of ladle bottom. *PJSC "Yenakiyevo Steel Plant», Corwintec Europe Ltd is , MUCTR. Mendeleev; LLC "VPO" Steel "*;
- 11.30 - DV Morov, SA ees VA Erfgin, SM Improving monitoring and control through technology roll and sheet products in the timber industry. *The branch of JSC "OMK-Steel", JSC "VSW"*;
- 11.45 - Shablovsky VA Anischenko NF, Parshin VM, VP Clack, Ryzhov MV, AV Klyuchkin The main criteria for selection of insulation and

slag-forming mixtures for tundish caster. *DonNiCherMet* "; LLC "NIP "Iechmet"; FSUE "ISNiChermet them. IP Bardeen "; LLC "AIMZ "; PJSC "Severstal ";

12.00 - A friend. Improvement of quality and productivity slab casting process using braking and electromagnetic stirring. "ABB";

12.15 - AA Korobov. Sealing of casting components. *JSC "Rosmetallkomplekt"*;

12.30 - DA Provorotov. Complex equipment for continuous casting of steel and alloys, new solutions . *NPP "Vulkan-TM"*;

12.45 - GB Kashakashvili, O. Soskovets, IG Kashakashvili, BG Kashakashvili, DD Svanadze. The advanced technology of smelting, refining and casting steel using a single unit. *Georgian Technical University*.

Section 5. Energy efficiency, resource conservation and ecology steelmaking

October 19th

14.00 - VP Tsybmal, VI Kozhemyachenko, IA Rybenko, AA Olennikov, AG Padalko Background and principles of self-organizing jet emulsion metallurgical vessel. *Siberian State Industrial University*;

14.15 - IM Shatohin, VA Bige, VL Kuzmin, OB Bobrova, NM Amangeldy, NS Zuparov. Technology co-complex processing of metallurgical slag and sludge. *Ltd. STPP "Etalon", FGBOU IN "MSTU. GI Nosov "*;

14.30 - VE Roshchin, SP Salikhov, KO Potapov. Output of steel in electric furnaces from predvosstanovlennyyh complex ores and industrial waste - an alternative to their domain redistribution process. *South Ural State University (NIU)*;

14.45 - MV Lapin, VV Belousov, T. Ivanova, VS Trofimova, AN Kalitaev. Optimization of costs for the purchase of ferrous scrap as a factor in increasing the efficiency of the steel plant. *OJSC "MMK", FGBOU IN "MSTU. GI Nosov "*;

15.00 - AE Anikin GV Galevsky, VV Rudnev SG Galevsky. Metallization oksidzhelezosoderzhaschih metallurgical wastes. *Siberian State Industrial University, National University of the mineral resource "Mountain"*;

15.15 - AV Murueva, IV Kabanov, TA Topilin. Resource saving technology of smelting casting superalloys with the involvement of trained and refined rejects. *JSC "Metallurgical Plant" Electrostal "*;

15.30 - VG Dyubanov, PA Kozlov, LI Leontiev. . Process waste steelmaking and processing *IMET RAS, JSC "Chelyabinsk Zinc Plant"*;

15.45 - AG Chizhikov, AE Semin. Automated complex for acceptance of ferrous scrap; *NUST "MISA"*;

16.00 - GA Dorofeev, VA Sinelnikov. Possibilities of improving the steel-making process based on technology ORIEN. *The group of companies "FERRO-TECHNOLOGY", the Academy of Technological Sciences of the Russian Federation*;

16.15 - Nehamin SM, MM Krutyansky, EM Rebikov, DV Maslov, I. Novokhatskiy arc steelmaking furnace DC - improving resource efficiency foundries. *OOO "NPF KOMTERM"*;

16.30 - AE Dushyn, EF Skin, AE Semin. Development of technology for processing vanadium metallootseva to give a doped metal-roll. *NUST "MISA"*;

16.45 - AA Alpatov, LM Simonyan. The study of zinc and lead extraction process of electric steel dust. *NUST "MISA"*;

17.00 - GA Dorofeev, PR Yantovsky, KG Smirnov YM Stepanov. Metallurgical characteristics ORIEN process. *The group of companies "FERRO-TECHNOLOGY"*;

17.15 - GA Dorofeev, PR Yantovsky, JM Stepanov. Features carbon behavior in the process of electric smelting in the application of high-briquettes Synticom. *Group "FERRO-TECHNOLOGY" companies*;

17.30 - GA Dorofeev, PR Yantovsky, JM Stepanov. Features EAF energy when entering Synticom during smelting. *The group of companies "FERRO-TECHNOLOGY"*;

17.45 - DV Stalin, MN Shvets, VA Botstein, AV Yudin, V. Slutsky. Effective system of gas extraction and gas cleaning electric furnace, produced and supplied by LLC "ITC" Rosenergostal. " *SE" Ukrainian Scientific and Technical Center of Metallurgical Industry "Energostal"*.

The 20th of October

9.30 - SA Botnikov Improving monitoring and control through technology roll and sheet products in the timber industry. *Casting-rolling plant of the branch of JSC "OMK-Steel"*;

9.45 - EV Protopopov, SN Kuznetsov, LA Ganzer, SV Feiler. Analysis of the material and heat balances in the processing of municipal solid waste in the converter units. *FGBOU IN "Siberian State Industrial University"*;

10.00 - SN Kuznetsov, EV Protopopov AV Ameline, SV Feiler. Development of converter smelting technology with elements of the liquid-phase recovery in the processing of a technogenic waste. *FGBOU IN "Siberian State Industrial University", JSC "EVRAZ Consolidated West Siberian Iron & Steel Works"*;

10.15 - AA Korostylev. Reducing pollution became non-metallic inclusions in the processing of cored wire with barium-containing filler . *VPO "Steel"*.

