TECHNICAL SESSIONS

MONDAY, JUNE 10

10:00 Welcome address and opening
Manat Tolymbekov, Director, Chemical-Metallurgical Institute

10:10 Address of MINT RK
Asset Issekeshev, Minister of Industry and New Technologies

10:15 Address of INFACON
Nic A. Barcza, Chairman ICFA

10:20 Address of Almaty City Mayor
Akhmetzhan Yessimov, Mayor of Almaty

10:25 Address of NC CPMRM RK
Abdurasul Zharmenov, CEO

10:30 On the role of ferroalloys in steelmaking
prof. Lauri Holappa, Aalto University

10:50 Aspects of DC chromite smelting at MINTEK – an overview
Isabel Geldenhuys, MINTEK, Head: Commercial Applications

11:10 Establishment of innovative production and renovation of in-progress production as basis for strategic positioning of TNC KAZCHROME JSC on global chromium alloys market
Murat Kospanov, Head of Department, TNC KAZCHROME JSC

11:30 Coffee break

SESSION 1
Chromium Alloys Production and Operation
Chair: Thomas Magnussen, Vatvedt Technology AS

12:00 Production of low carbon ferrochrome with the low content of phosphorus using the complex reducer, E. Akimov

12:10 The thermal diffusivity of raw materials for ferromanganese production, M. Iliazeck

12:30 Operational improvement of a submerged arc furnace in Kashima works (KF-1), H. Takahashi

13:00 Improved safety for manganese alloy smelting, P. Eidem
Production of SiO gas in the silicon process, L. Bae

13:30 Lunch break

Reductants
Chair: Lauri Holappa, Aalto University

14:30 Reductibility and electric resistance of carbonaceous materials within ferroalloy smelting processes, Jh. Naumalubov

15:00 Method of complex estimation of manganese raw materials, A. Zhdanov
Experimental study of rate of silica fume formation from active oxidation of liquid silicon, M. Naas

15:30 Carbon reductant for silicon metal production, V. Kim
Effect of CaF on the reduction rate of MnO in CaO-SiO2-MnO slag by SiMn-melt, I. Park

16:00 Coffee break

Other Ferro Alloys Fundamentals
Chair: Gudrun Saevarsdottir, Reykjavik University

16:30 Extraction of iron from Bakalsiderite by means of selective reduction in a complex oxide crystal lattice, S. Sakhlev
Mathematical model for fast computation of erosion profile in submerged arc furnace with freeze lining, D. Hu

17:00 A new process to produce 300 series stainless steel with electro-silicothermic method, C. Petanin
Evaporation of silicon as the basis for its sublimation purification, V. Malyshev

17:30 Selective extraction of metals from complex ores, A. Roshchin

17:45 Process optimization model for FEFM and SIFM production, H. Oterdoom
Process Modeling and testing methods for evaluating ferroalloy furnace off gas waste energy, L. Bae

End of day
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1: Chromium Alloys Production and Operation</th>
<th>Session 2: Manganese Alloys Production and Operation</th>
<th>Session 3: Ferronickel Production and Operation, Fundamentals</th>
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<tbody>
<tr>
<td>10:00</td>
<td>Stainless production in Albania, N. Redl</td>
<td>Purity requirements for Mn-alloys for producing high manganese TRIP and TWIP steels, J. Safarian</td>
<td>Nickel pig iron production from laternic nickel ores, O. Yuce</td>
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<td>10:30</td>
<td>Iron ore for the recovery of chromium and iron oxide in high carbon ferrochrome slag to obtain chromium and iron in the form of valuable metal, C. Harman</td>
<td>Properties of chromite ores from Ferbasa and their effect on Cr-losses to slag during HCFeCr production at Ferbasa, E. Ringdalen</td>
<td>The recovery of ferro-nickel from saprolite ores using reduction roasting, P. Hayes</td>
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<td>Innovative electric smelter solutions of the SMS GROUP for the ferroalloys and Si-metal industry, R. Degel</td>
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<td>Effect of air usage on the purity of manganese, V. Mirza</td>
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<td>Modelling and simulation, fundamentals</td>
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<td>Carbothermic reduction of Silica in nitrogen and nitrogen-hydrogen mixture, G. Ostrovski</td>
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POSTER SESSION
TUESDAY, JUNE 11, 16:00 – 16:30 (coffee break)

Other Ferro Alloys Fundamentals
30. Characterization and reduction of high-silicon iron ore by CO gas, S. Maroufi
31. High temperature phase equilibria in nickel-containing oxide and silicate systems relevant to ferro-nickel production, P. Hayes
32. Phase diagram structure of the system Cr-Fe-Al and Cr-Fe-Si, Ye. Shabanov
33. Theoretical and practical aspects of smelting new complex alloy - alumosilicomanganese with calcium, A. Baisanov
34. Self-propagating high-temperature synthesis of ferroalloys, V. Zhuchkov
35. Modelling and Simulation
36. Water model study on mixing time in shaking ladel, N. Shanqiang
37. Andalusite as slag conditioner in ferrochrome production: A case study in techno-economic modeling, M. Erwee
38. Energy mapping of industrial ferroalloys plants, M. Tangstad
39. Ferronickel off-gas system waste energy recovery: options and applications, L. Els
40. Optimization of physicochemical characteristics of chromium ferro-alloys, V. Zhuchkov
41. Energy mapping of industrial ferroalloys plants, M. Tangstad
42. Metallurgical silicon from high purity sand - critical issues and potential development, V. deOliveira
43. Recycling
44. The recovery of manganese and generation of a valuable residue from ferromanganese slags by a hydrometallurgical route, J. Steenkamp
45. Metalurgical silicon from high purity sand - critical issues and potential development, V. deOliveira
46. Waste of the ferroalloy production are raw materials for the chemical branch of industry, Kh. Kuzeibekova

IMPORTANT NUMBERS
Congress Technical Programme & Exhibition
Dr Sergey Kim, Congress Secretary
+7 701 727 95 04
+7 700 498 31 94

GENERAL INFORMATION
Congress venue
Almaty Towers business-complex
Address: Baizakov 280, 050057, Almaty
Registration & Information Desk
The desk is open in the congress venue as follows:
Sunday, June 9 10:00-17:00
Monday, June 10 10:00-18:00
Tuesday, June 11 10:00-18:00
Wednesday, June 12 10:00-12:00
Name Badge
Your personal name badge is your entrance ticket to all sessions and other activities of the congress. Please wear this badge at all times.
Color codes are as follows:
- GREEN: Delegate
- ORANGE: Organizer
- BLUE: Accompanying person
Transportation:
Early morning bus transportation from Hotel Otrar and Hotel Kazhol departs as follows:
Monday, June 10 at 09:00
Tuesday, June 11 at 09:00
Wednesday, June 12 at 09:00
Evening transportation to congress Hotels/Gala Dinner after sessions:
Sunday, June 9 at 20:30
Monday, June 10 at 18:00
Tuesday, June 11 at 18:00
Wednesday, June 12 at 18:00
Smoking
Smoking is not allowed inside the congress venue.
Insurance
The congress organizers cannot accept liability for personal injuries sustained, for loss of, or damage to property belonging to congress participants (or accompanying persons), either during or as a result of the congress. Please check the validity of your own travel insurance.
Liability
The Congress Organization acts as agent only in securing hotels, transport and travel services and shall in no event be liable for acts or omissions in the event of injury, damage, loss, accident, delay of irregularity of any kind whatsoever during arrangements organized through contractors or the employees of such contractors in carrying out services. Hotel, tour and transportation services are subject to the terms and conditions under which they are offered to the public in general. The Congress Organization reserves the right to make changes where deemed necessary without prior notice to parties concerned. All disputes are subject to resolution by Kazakhstan Law.
Speaker Preparation Room
Available for use by all presenters during congress hours from Monday to Wednesday. Audio-visual coordinator in attendance. Location: Second floor - VIP-room.
Speakers’ Breakfast
Information session for speakers of the day. Each morning from Monday to Wednesday at 9:30 in Lunch area 2 on the second floor.
SOCIAL PROGRAMME and PROGRAMME FOR ACCOMPANYING PERSONS

Invitations will be required for Gala Dinner. No admittance will be possible without presentation of the corresponding invitation. Additional tickets, if available, can be enquired at the registration desk.

TECHNICAL TOURS

THURSDAY, JUNE 13, 2013
Technical tour to Aktobe Ferroalloy Plant
Unique DC-furnace shop includes four 24-MVA furnaces for high-carbon ferrochrome smelting. The tour includes charter flight Aktobe-Almaty-Almaty, transportation and dinner.
Departure from Almaty airport 10:00
Arrival to Aktobe 12:30
Departure from Aktobe airport 20:00
Arrival to Almaty 22:35
Transportation to hotels will be arranged.
NOTE:
Transportation from hotels Rahat-Palace, Otrar and Kazzhol departs 8:30
Please have your passport/ID and Congress name badge with you at all times.

THURSDAY, JUNE 13, 2013
Technical tour to Aksu Ferroalloy Plant (Pavlodar)
Aksu Ferroalloy Plant is the world’s biggest producer of chrome ferroalloys.
Shop No. 1 includes 8 × 33 MVA furnaces producing SiMn, SiCr and high-carbon FeCr
Shop No. 6 includes 4 × 63 MVA furnaces of unique unit capacity producing high-carbon FeCr.
The tour includes charter flight Almaty-Pavlodar-Almaty, transportation and dinner
Departure from Almaty airport 10:00
Arrival to Pavlodar 11:40
Departure from Pavlodar airport 20:00
Arrival to Almaty 21:45
Transportation to hotels will be arranged.
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SUNDAY, JUNE 9
19.00-20.30 Welcome Reception at Almaty Towers (cocktails) - Lunch Area 1.
Dress code: Casual
Price: Included in the registration fee for delegates and accompanying persons.
Evening transportation to congress Hotels after Welcome reception.

MONDAY, JUNE 10
20.00-22.00 Official reception at Almaty Towers Ballroom
Dress code: Business suit
Price: Included in the registration fee for delegates and accompanying persons.
Evening transportation to congress Hotels after Official reception.

TUESDAY, JUNE 11
19.00-23.00 Gala dinner in Reception House Restaurant - Grand Ballroom “Whitshall”
Dress code: Dark suit
Price: $130.00 per person (incl. vat).
Transportation from official congress Hotels (Otrar, Kazzhol, Rahat Palace) departs at 18:30.
Return transportation to official congress Hotels departs at 23:15.

TOURS FOR ACCOMPANYING PERSONS

JUNE 9-13, 2013
Almaty City tour
Almaty city sightseeing and tour to Green Hills Koktobe
Turgen falls
The Big Almaty Lake
Tour to Medeo resort – the world’s highest skating rink (1733 meters above sea level)
Tour to Shymbulak – picturesque gorge and mountain ski resort 2380 meters above sea level
"OTRAR-travel"

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E-mail: otrar@group.kz  www.group.kz

ALMATY, KAZAKHSTAN 73, GOGOL STREET

You may register for Accompanying Persons Tour at registration desk in the Congress Venue. Otrar Travel agency manager in attendance throughout the Congress.