19th INTERNATIONAL CONFERENCE ON NON-FERROUS METALS-2015

Organized by

CORPORATE MONITOR

July 10-11, 2015
Bhubaneswar, Odisha, India
July 10, 2015

8:45 a.m.    Registrations

10:00 a.m.   Inaugural Session (Details being separately circulated)

11:30 a.m.   Inaugural Tea/Coffee

11:55 a.m.   Theme Paper Session

- **Aluminium Industry- Need for Innovation Driven Business**: Dr Mukesh Kumar, President & Group Head-Technology & Innovation, Vedanta Limited
- **A Presentation of Rare Earth Minerals & Metals**: Dr R N Patra, CMD, IREL
- **Aluminium – The Future Metal for India**: Satish Pai, Dy Managing Director, Hindalco Industries Ltd.
- **The Copper Conundrum**: S Nanda, Director(Operations), Hindustan Copper Ltd.

13:35     Lunch

**International paper Session**: 14:30 onwards

- **Energy In Alumina Refining - Setting New Limits**
  Alessio Angelo Scarsella¹, Sonia Noack¹, Edgar Gasafi¹, Cornelis Klett², Andreas Koschnick¹, ¹Outotec, Brisbane, Australia

- **The role of Rio Tinto Alcan’s Technology Transfer Approach and Client Engagement in Successful Commissioning of Hindalco’s Greenfield Utkal Refinery in Odisha, India.**
  RTA: Sudhir Kumar, Yves Perret, Didier Livadaris, Antonio Pucci and from Utkal: Vijay Sapra, Shabdendu Mohan, Uttam Giri

- **Introduction of a new fully hydrometallurgical process for the recovery of precious metals from copper electro-refining anode slimes**
  S. Kurki*, K. Lillkung, H. Virtanen (Outotec-Finland)

- **Anode Issues during Smelter Capacity Creep**
  Jean-Claude Fischer¹, Raymond Perruchoud¹, Matthieu Arlettaz¹, Werner Fischer¹, René Von Kaenei², Jacques Antille², Louis Bugnion², ¹R&D Carbon Ltd, ²KAN-NAK SA

- **MIREA – the online real-time solution for verifying the electrical quality of your anodes**: Pierre Escarbelt, ECL
Technical Program-ICNFM 2015

• **Production and Performance of Slotted Anodes**
  Giovanni Magarotto, TT *Tomorrow Technology, Italy*

  **Break for Tea at 16 40**

• **Collector bars design and copper insert** : René von Kaenel, Jacques Antille, Louis Bugnion; KAN-NAK Ltd., *Route de Sion 35, 3960 Sierre, Switzerland*

• **Quality Aerospace Products beyond the limits with the Danieli Hot and Cold Rolling Mills Complex** ; Tommaso Settimo, Danieli, Italy, Enrico Restuccia, Danieli Italy, Nitin Bohre, Danieli India, William Tami, *Danieli Italy*

• **Aluminium Industry Innovation: Ultrasonic Grain Refining**
  Kiran Manchiraju, Qingyou Han and Michael Powell
  *Southwire Company, LLC; One Southwire Drive; Carrollton, GA 30119*
  *Purdue University; 610 Purdue Mall; West Lafayette, IN 47907*

  **Program concludes at 17 55**
  **Cultural Program, Cocktails and Dinner from 19 00 hrs onwards**
July 11, 2015

9:40 a.m. onwards

**Satellite Session:** TECHNOLOGICAL INNOVATIONS FOR NON-FERROUS METAL INDUSTRY

- **Technology Plays Vital Role for Operational Excellence:** A presentation by Hindalco Industries (Unit: Birla Copper)
- **Rio Tinto Alcan’s HyDens Technology for Alumina Refinery Decanters and Washers:** Alain Boivin, Guy Peloquin, Kostas Hatzikyriakidis, Jean-Marc Rousseaux, Antonio Pucci
- **Outotec’s Solutions for Automatic Bath Removal in the Rodding Shop, Bath Cooling and Bath Processing up to Preparation of Anode Cover Material:** Manfred Beilstein and Tony Hudson (Outotec-finland)
- **Application of Rio Tinto Alcan’s HyDens™ Technology to Hydrate Gravity Classifiers:** Alain Boivin, Guy Peloquin, Daniel Manche, Jean-Marc Rousseaux, Carine Dubuisson

Tea at 11-10 a.m

PARALLEL TECHNICAL SESSION BEGINS AT 11-30 A.M

**Room-A:**

1. **Cathode Lining Modification for Energy Reduction in Hirakud’s 85kA Smelter:** Amit Gupta, Amit Jha, Mahesh Sahoo, J Jinil and J P Nayek from Aditya Birla Science and Technology Company and Hindalco Industries, Hirakud
2. **Theory & Application of Weibull Distribution for Prediction of Aluminium Reduction Cell Life:** A Palchowdhury, NALCO, Angul
3. **Aluminium Hard Alloys and Process Control:** M Rathakrishnan, BALCO
4. **Thermal resistant Aluminium Conductors:** R N Chouhan, P Mahendiran, P R Dungore, VNSUV Ammu, G Shukla, A Agnihotri, JNARDDC, Nagpur
5. **Development of Speciality Alumina Chemicals- NALCO’s experience:** P V R Murthy and B Pradhan, Mines & Refinery Complex, NALCO, Damanjodi
6. **Sustainability – Mitsubishi Converting Furnace at Birla Copper:** Sanjay Sarkar, Anil Singh, H K Singh, Nirmal Ghosh, Vishal Kinikar, Hindalco Industries Limited (Unit: Birla Copper)
7. **Grain refining of Aluminium – What is best for whom and how to optimize:** Arup K Saha, Minex Metallurgical Company Limited
Room-B:

1. Flotation of wolframite with phosphoric acid ester collector: Adsorption, electrokinetic and Infrared studies: K Srinivas, T Sreenivas, R Venugopal and R R Venkatkrishnan, MPD, BARC, Begumpet, Maaden Phosphate Company, Arar City and Dept of Fuel and Mineral Engg, ISM, Dhanbad

2. Distribution of Selenium during separation of Slag and Matte: Bhavin Desai, Vilas Tathavadkar, Somnath Basu, Aditya Birla Science and Technology Company and IIT, Mumbai

3. Extraction of Alumina and Silica from NALCO Fly Ash using Sulphuric Acid in the presence of Sodium Fluoride: A K Tripathy, C K Sarangi, B C Tripathy, K Sanjay, I N Bhattacharya, B K Mohapatra, P K Behera and B K Satpathy, CSIR-IMMT, Bhubaneswar and NALCO, Bhubaneswar

4. Extraction of Vanadium Pentoxide from Vanadium Sludge: Pratima Meshram, Jyotsna Kumari, Abhilash, B D Pandey, CSIR-NML, Jamshedpur

5. Synthesis and adsorption properties of porous activated alumina: Barsha Dash, Geetanjali Mishra and I N Bhattacharya, CSIR-IMMT, Bhubaneswar

6. Direct electrolytic refining of waste copper scraps and fabrication rejects for production of copper powder: N S Randhawa, Manoj Kumar, L K Sao, Gulzar Hussain, D C Sau, CSIR-NML, Jamshedpur and NIT, Srinagar

7. Electrodeposition of Manganese in the presence of sodium lauryl sulphate: Subrat Kumar Padhy, Sushil Ranjan Bhatta, Bankim Chandra Tripathy, M K Ghosh, I N Bhattacharya, Hydro & Electrometallurgy Department, CSIR-IMMT, Bhubaneswar & Academy of Scientific and Innovative Research(AcSIR), CSIR, Chennai

Lunch at 150 p.m.

Parallel Technical Session Contd : Post Lunch from 2 40 p.m.

Room A:


2. Titanium Alloys for Aerospace Applications: B Saha, D B Anant Sagar, M S K Rao, Dr. N Eswara Prasad, RCMA(Materials), CEMILAC,DRDO, Hyderabad

3. Optimization of Vacuum Filtration of Calcite Rich Ore slurry using statistical experimental scheme and analysis: Md Serajuddin and T Sreenivas, MPD, BARC, Hyderabad

4. Effect of Tween 80 on Electrochemical Deposition of Cobalt from Sulphate Solutions: Prinuk Patnaik, S R Bhatta, B C Tripathy, M K Ghosh, I N Bhattacharya, R K Paramguru, CSIR-IMMT, Bhubaneswar and Academy of Scientific and Innovative Research(AcSIR), Chennai
Room B:

1. **Study of Dissolution kinetics of dolime in Electrothermal magnesium slag**: Krishna Kumar, Manoj Kumar, Kalpatru Gharami, N S Randhawa, D C Sau, CSIR-NML, Jamshedpur
2. **Bio-process using hot spring silicate bacterium to upgrade alumina in NALCO fly ash**: Sangeeta Raut, Sudip Kumar Sen, Madan Mohan Das, R R Dash, P K Behera and B K Satpathy, Gandhi Institute of Engineering Technology, Gunupur, Rayagada and NALCO, Bhubaneswar
3. **Solvent Extraction of Y(III) from Chloride solution with a bifunctional ionic liquid extractant**: Niharbala Devi, Department of Chemistry, Institute of Technical Education and Research, Siksha ‘O’ Anusandhan University, Bhubaneswar
4. **Study of Ce(III) extraction from dilute nitric acid media using PC88A**: Sujata Mishra, Department of Chemistry, Institute of Technical Education and Research, Siksha ‘O’ Anusandhan University, Bhubaneswar

**POSTER PRESENTATIONS**

9.00 – 10:20 am on July 11 at Room-B

( this can be for 10 minutes each)

1. **Production of Geopolymer based construction material from Pond Ash**: An Industrial Waste: Muktikanta Panigrahi, Dept of Civil Engineering, Gandhi Institute of Engineering and Technology, Gunupur
2. **An Advanced Geopolymer from High Carbon Ferrochrome Slag (HCFCS)**: Sanjeev Kumar Gupta, Dept of Civil Engineering, Gandhi Institute of Engineering and Technology, Gunupur
3. **Modern Approach to Sustainable Aluminium Extraction**: Ankeet Pati, Shahid Baig, UG III, IGIT Sarang
4. **Environmental friendly procedure developed for extracting silver**: Smruti Dash, Snigdha Gochhayat, Met Engg Department, IGIT, Sarang
5. **Chromium Recycling**: Biswajit Mishra, UG-III, IGIT, Sarang
6. **Effects of multi roller burnishing on non-ferrous metals – A study on surface roughness and hardness**: Amrit Mohanty, Chinmaya Nanda, Guruprasad Mishra, IGIT, Sarang
7. **Re-can**: Ankit Ranjan Pati, Shahid Baig, IGIT, Sarang
8. **Extraction of Non-ferrous fractions from Industrial waste by BioHydrometallurgy**: Biraja Prasad Tripathy, Metallurgical and Materials Engg Dept, IGIT, Sarang

Valedictory Session and award presentations from 16:10 hrs onwards
Program concludes with tea at 17:00 hours