



TECHNICAL PROGRAM

DAY-1: 6th July 2018

8:30AM onwards	REGISTRATION
10:00	Opening remarks
10:05	Lighting of the Ceremonial Lamp
10:10	Welcome Address: Shri Atul Bhatt , <i>Chairman, Conference Advisory Committee & CMD, Mecon</i>
10:15	Address by Dr. T K Chand , <i>CMD, NALCO followed by his felicitation and release of his book on Aluminium by Hon'ble Chief Guest</i>
10:25	Chief Guest's Address : Shri Anil Gopishankar Mukim , <i>Secretary, Ministry of Mines, Government of India</i> <i>Felicitations of Secretary, Ministry of Mines, Government of India</i>
10:40	Felicitations : Shri Santosh Sharma , <i>CMD, Hindustan Copper followed by his address</i>
10:50	Felicitations: Shri Rahul Sharma , <i>Director, Corporate Strategy, Vedanta followed by his address</i>
11:00	Felicitations: Shri Bibhu Mishra , <i>Head, Manufacturing Centre of Excellence, Hindalco followed by his address</i>
11:10	Felicitations: Dr. Biswajit Basu , <i>Dy Chief Technology Officer & Head, Aditya Birla Science & Technology Co Pvt Ltd followed by his address</i>
11:20	Felicitations: Dr. Anupam Agnihotri , <i>Director, Jawaharlal Nehru Aluminium Research Design & Development Centre followed by his address</i>
11:30	Presentation of the Technological Excellence Award(Institutional) to MECON [Shri P K Sarangi, Director(Technical)]
11:35	Vote of thanks and presentation of Mementos
11:40-12:00	HIGH TEA <i>(Sponsored by Himadri Speciality Chemical, Kolkata)</i>
12:00-13:45	THEME SESSION <i>(Chairman-Dr. B.D.Pandey)</i>
TS-1	Aluminium-Lithium (Al-Li) Alloys : retrospectives & perspectives for Aerospace Applications- Dr. N Eswara Prasad , <i>Director, DMSRDE, DRDO, Kanpur</i>
TS-2	Emerging Technology and R & D opportunities in Non-ferrous Industries : Dr. Biswajit Basu , <i>ABSTC</i>
TS-3	Titanium Sponge Production in India – current status : Dr. Chaganti R V S Nagesh , <i>DMRL, Hyderabad</i>
TS-4	Resource Efficiency : key to the sustainability of the Indian Aluminium and Copper Industry : Dr. P K Banerjee , <i>President & CTO, HINDALCO Industries</i>
13:45-14:30	LUNCH

14:30-16:30

INTERNATIONAL PAPER SESSION - I

(Chairman- Shri Bibhu Mishra, HINDALCO Industries)

- IT-1** Outotec Pretium Digital Solution for Alumina Calcination :
Steffen Haus , Senior R&D Engineer , Metals , Energy and Water BU, Outotec
- IT-2** Production and Performance of Slotted Anodes
Giovanni Magaratto , Managing Partner , T.T. Tomorrow Technology S.P.A.
- IT-3** Flash Smelting -Technology Overview 2018
Ms. Satu Jyrkönen , Technology Director, Flash Smelting, Outotec
- IT-4** Filtration and refractory
Nicklas Kaecker , Technical Manager, Drache Umwelttechnik GmbH
- IT-5** The Properzi Unique Experience and Technology for the Production of Aluminium Rod and Ingots: **Dr. Eng. Alberto Ghisetti** , Continuus Properzi , S.P.A
- IT-6** DER Plants for producing nonferrous rod: a new way of thinking and considering the OpEx and CapEx: **Carmelo Maria Brocato** , Vice President DCMK – Aluminium & Copper WRMs, Danieli & C. Officine Meccaniche S.P.A .

16:30-16:45

TEA BREAK

16:45-17:45

INTERNATIONAL PAPER SESSION - II

(Chairman- Dr. P K Banerjee, Hindalco Industries)

- SS-1** Thyssenkrupp – Engineering Partner of choice for the Minerals & Metals Industry (Sponsored Presentation): **Pallab Dev** - Vice President - Sales & Proposals, Thyssenkrupp Industrial Solutions (India) Private Limited
- SS-2** Precimeter technology for molten level and flow control
Jonatan Lindstrand , Precimeter Control AB
- SS-3** Skamol Insulation Systems
Peter Kimo , Senior Vice President, Industry Division, Skamol A/S

17:45 Summary of Day-1 Proceedings

17:55 Announcements followed by preparatory break for 30 minutes

18:30 Bus leaves for Mecon Community Hall, Shyamali

19:00 onwards **Cultural Program:** Classical dances based on Bollywood songs followed by Live Musical programme

19:30 onwards **COCKTAIL & DINNER**

22:00 **BUS LEAVES FOR HOTEL CHANAKYA BNR VIA MAIN ROAD**

END OF DAY-1

DAY-2: 7th July 2018

9:00-9:45

POSTER SESSION

(Judges: To be declared on spot)

- PS-1** Electrochemical deposition behaviour of tellurium from alkaline solution - **Abhijit Kumar**, NIT, Jamshedpur
- PS-2** An energy efficient leaching of Cu, Ni and Co from complex sulphides using oxygen enriching material - **S.Sinha**, CSIR-NML, Jamshedpur
- PS-3** Recovery of mixed rare earth oxide and fine powder of metallic iron from spent NdFeB magnet of wind turbines - **Aarti Kumari**, CSIR-NML, Jamshedpur
- PS-4** Characterization and Recovery of Metals from ESP dust of an Indian Copper Plant - **Vikash Bharti**, Central University of Jharkhand, Ranchi
- PS-5** Trace Metal Determination in High Purity Copper by Spectroscopy
B. Ranga Rao, ABSTC Taloja, Navi Mumbai, Maharashtra

9:45 onwards

TECHNICAL SESSION- I *(Chairman: Dr. B.K.Satpathy)*

9:50-10:10

Keynote Speaker: Phosphatic resources : a valuable wealth of rare earths - **Dhruva Kumar Singh**, **Materials Group, BARC, Mumbai**

10:10-10:30

Bauxite requirements and sustainability of Alumina Refineries
Ashok Nandi, IBAAS

10:30-10:50

Platinum group elements (PGE) occurrence & future prospective in ultramafic and associated rocks from Ikauna area in Madaura Igneous complex, Bundelkhand massif, Central India
P K Singh, Directorate of Geology & Mining, Lucknow

10:50-11:10

PAT Scheme normalization factors for Indian aluminium smelter plants - **A. Agnihotri, JNARDDC**

11:15-11:30

TEA BREAK

11:30-13:50

TECHNICAL SESSION-II

11:30-11:50

Waste Heat recovery from Anode bake furnace- First time in history of Anode Baking Furnace – **Sushil Kumar, Hindalco Industries, Renukoot**

11:50-12:10

Study of the use of Boric Acid to improve the ARR values in carbon anodes - **Vivek Saxena, Vedanta, Jharsuguda**

12:10-12:30

Digitization in Pot Tending Machine - **Asheesh Verma, Hindalco Industries, Mahan Aluminium, Singrauli**

12:30-12:50

Reduction in UTS variation by Process Parameter Optimization in Aluminium Wire Rod - **Amandeep Sood, Vedanta, Jharsuguda**

12:50-13:10

Safe Practices in Anode Baking Furnace refractory maintenance – **Vinay Agrawal, Mahan Aluminium**

13:10-13:30

Effect of Solidification Pattern on Mechanical properties of Aluminium Wire - **Goutam Dey, Vedanta, Jharsuguda**

13:30-13:50

Role of IoT Solutions in Non-ferrous Metal Production – Utpal Das,
GAZELLE INFORMATION TECHNOLOGIES

11:30-13:50

TECHNICAL SESSION-III

11:30-11:50

High Alumina aggregates with improved thermo-mechanical properties from Indian bauxite without beneficiation - **H S Tripathi, CSIR-CGCRI, Kolkata**

11:50-12:10

Processing of Red Mud for extraction of TiO₂ - **Pratima Meshram, CSIR-NML, Jamshedpur**

12:10-12:30

Studies on Physical Beneficiation & Characterization for Extraction of Rare Earths from Bauxite Residue - **Upendra Singh, JNARDDC**

12:30-12:50

Extraction of manganese and production of value added products from high iron containing manganese sludge - **Saurabh Shekhar, CSIR-NML, Jamshedpur**

12:50-13:10

Improving Magnetite Reduction in Slag Cleaning Furnace - **Chandrakala Kari, ABSTC, Taloja**

13:10-13:30

Development of Magnesium Metal Production Technology at CSIR-NML, Jamshedpur - **Manoj Kumar, CSIR-NML, Jamshedpur**

13:30-13:50

Recycling stainless steel dust to produce value added product – **Sanjay Prasad, CSIR-NML, Jamshedpur**

13:50-14:30

LUNCH BREAK

14:30 – 16:30

TECHNICAL SESSION – IV (MAIN HALL)

14:30-14:50

Some critical commissioning related issues for an Alumina Refinery **Vijay Potti, M N Dastur & Company (P) Ltd**

14:50-15:10

Dynamic modeling of slag-matte-gas reactions during processing of copper matte in Peiree-Smith Converter **Akshay Rao, IIT-Bombay**

15:10-15:30

Flux refining of crude /sponge magnesium produced from silicothermic process **Krishna Kumar, CSIR-NML, Jamshedpur**

15:20-15:40

Thermo-chemical simulation and smelting studies on production of phosphorous free manganese slag from siliceous manganese ore - **N S Randhawa, CSIR-NML, Jamshedpur**

15:40-15:55

Mesophase: Its effect on Pitch Quality & Aluminium Production - **C Sanyal, Himadri Chemical Limited**

15:55-16:10

Non Ferrous Metals Mining and its Beneficiation – Optimization of production cost through adoption of latest technologies / alternate technologies (Hydrometallurgy)- **Shri Kumud Anand, Manager, MECON, GMMB Division**

16:15 – 16:45

VALEDICTORY SESSION

17:00

PROGRAMME CONCLUDES WITH TEA/COFFEE