

# **TENTATIVE PROGRAM OUTLINE**

## **24<sup>TH</sup> INTERNATIONAL CONFERENCE ON NONFERROUS METALS**

**15<sup>th</sup> December 2020**

- **15 MIN SLOT for each oral presentation**
- **MOVIES OR CLIPS ARE STRICTLY RESTRICTED**

10:30 a.m.

**BENEFICIATION OF BAUXITE ORE: AN APPROACH TOWARDS SUSTAINABILITY OF INDIAN ALUMINIUM INDUSTRY**

Vivek Kumar<sup>1</sup>, Amol Mankar<sup>2</sup> and Dillip Kumar Parida<sup>1</sup>

<sup>1</sup>Hindalco Industries Limited, Mines Division, Lohardaga, Jharkhand

<sup>2</sup>Hindalco Innovation Centre, Belagavi, Karnataka

10:45 a.m.

**PROCESS OF SCANDIUM EXTRACTION FROM INDIAN RED MUD**

SonaliThawrani, JyotiPendram, RajnikantBorkar, MayurTirpude, Upendra Singh, AnupamAgnihotri

Jawaharlal Nehru Aluminium Research Development and Design Centre, Nagpur

11:00 a.m.

**DEVELOPMENT OF SUSTAINABLE APPLICATIONS OF PHOSPHOGYPSUM GENERATED AT BIRLA COPPER, DAHEJ**

Pappulal Dhobi<sup>1</sup>, Bhaskar Joshi<sup>2</sup>, Nishit Dave<sup>3</sup>, PK Banerjee<sup>4</sup>

<sup>1,2</sup>Hindalco Innovation Centre – Copper, Hindalco Industries Ltd, Dahej, Gujarat

<sup>3</sup>Phosphoric Acid Plant – Birla Copper, Hindalco Industries Ltd, Dahej, Gujarat

<sup>4</sup> Hindalco Industries Limited, Mumbai

11:15 a.m.

**EXTRACTION OF CRITICAL ELEMENTS FROM WASTES OF NONFERROUS INDUSTRIES AT CSIR-NML**

Abhilash, Pratima Meshram

CSIR-National Metallurgical Laboratory, Jamshedpur, Jharkhand India, 831007

11:30 a.m

**IMPACT OF PROCESS PARAMETERS ON ALUMINA FEED STRATEGY**

Rajeev Kumar Yadav, ShanmukhRajgire, Amit Gupta

Aditya Birla Science and Technology Company (P) Ltd, Taloja, Maharashtra

11:45 a.m.

**REDUCING COLLOIDAL IRON IMPURITY IN BAYER LIQUOR**

Amol U. Mankar, Sagar S. Pandit, Vikram B. Usulkar, Rajanikant N. Jadhav

Hindalco Innovation Centre – Alumina, Hindalco Industries Limited, Belagavi, Karnataka

12:00 p.m.

**POT FAILURE CONTROL IN ALUMINIUM SMELTING**

ShaileshBisen, VimalBabu, ArvinhdRavindhran, Mirza Wahid

Vedanta Limited, Jharsuguda, Odisha

12:15 p.m.

**SCIENTIFIC DISPOSAL OF HAZARDOUS WASTE (SPENT POT LINING) GENERATED FROM ALUMINIUM SMELTER ON A SUSTAINABLE BASIS AS A WASTE TO WEALTH APPROACH**

K V Kulkarni, PS Hari, KhushbooPriya, Monesh Pandey

BALCO

12:30 p.m.

**FUNCTIONALIZED IRON BASED METAL ORGANIC FRAMEWORK FOR SELECTIVE REMOVAL OF LANTHANUM FROM EFFLUENTS**

Shivendra Sinha<sup>1</sup>, D.Mishra<sup>1</sup>, S.Shekhar<sup>1</sup>, K.K.Sahu<sup>1</sup>, S. De<sup>2</sup>

<sup>1</sup>CSIR-National Metallurgical Laboratory, Jamshedpur, India

Academy of Scientific and Innovative Research, New Delhi, India

<sup>2</sup>IIT- Kharagpur, India

12:45 p.m.

**BORON TREATMENT OF EC GRADE ALUMINIUM: MECHANISM OF BORIDE FORMATION AND ITS EFFECT ON BORIDE SETTLING IN MOLTEN ALUMINIUM**

LDV GunaSekhar, UttamSahu, Lokesh Kumar Sharma, Deepak Prasad

BALCO

**1:00-2:15 p.m. LUNCH BREAK**

2:15 p.m.

**HIGH PURITY P0404 METAL PRODUCTION AT MAHAN ALUMINIUM**

P.Sahu, LSV Karun, SudhirSahani, Vinay Agrawal, B.BabuChamarty, Sanku Pal

Hindalco Industries Ltd, Mahan Aluminium, Singrauli, Madhya Pradesh

2:30 p.m.

**SUCCESSFUL JOURNEY OF 65032 BILLET ALLOY DEVELOPMENT & CUSTOMER QUALIFICATION**

RamyaDatrika, K.Roy, RRSahoo, Samuel Bleslin Stalin, Rathinavel A, A.Sood

Vedanta Limited, Jharsuguda, Odisha

2:45 p.m.

**NOVEL METHOD OF POTASH RECOVERY FROM INDIAN GLAUCONITIC ROCK**

SaurabhShekhar, S. Sinha, D. Mishra, A. Agrawal, K. K. Sahu

Academy of Scientific and Innovative Research, New Delhi, India

CSIR-National Metallurgical Laboratory, Jamshedpur - 831007, India

3:00 p.m.

**TREATMENT OF HIGH IMPURITY DUST GENERATED IN MITSUBISHI SMELTER**

L K Reddy<sup>1</sup>, Bhavin Desai<sup>1</sup>, Chandrakala Kari<sup>1</sup>, Vishal Kinikar<sup>2</sup>, Kumar Parekh<sup>2</sup>, Anil Maurya<sup>2</sup>, Anil Kumar Singh<sup>2</sup>, Kaushik Vakil<sup>2</sup>, S Kankanand<sup>2</sup>

<sup>1</sup> Aditya Birla Science & Technology Co Pvt Ltd, Navi Mumbai, Maharashtra

<sup>2</sup> Hindalco Industries Limited (Unit: Birla Copper), Dahej, Gujarat

3:15 p.m.

**MECHANICAL & ELECTRICAL PROPERTY ENHANCEMENT OF WIRE RODS THROUGH GRAIN REFINEMENT**

Yogesh Bohra, JalajVerma, RRajalaxman, Vedanta Limited, Jharsuguda, Odisha

3:30 p.m.

**ALUMINIUM RECYCLING IN INDIA**

Anil Kumar R, Immanuel Raju Kola, Anas N S, Papparao Mondli, KalyaniHumne,

VNSUV Ammu, R N Chouhan, A Agnihotri

JNARDDC, Nagpur

3:45 p.m.

**A STUDY ON IRON REMOVAL FROM ALUMINIUM MELT USING FLUX REFINING**

Prasad Nuka, AnirbanGiri, Chenna Rao Borra, Vilas Tathavadkar

Aditya Birla Science and Technology Company Pvt. Ltd

4:15 p.m.

**NUMERICAL INVESTIGATIONS OF FILM CONDENSATION AND TRANSPORT PHENOMENA FOR MAGNESIUM METAL PHASE CHANGES IN ELECTROTHERMAL PROCESS CONDENSER**

Krishna Kumar, Suchandan K Das, Manoj Kumar

CSIR-National Metallurgical Laboratory, Jamshedpur, Jharkhand India, 831007

Academy of Scientific and Innovative Research, New Delhi, India

4:30 p.m.

**ENERGY SAVING POTENTIAL IN INDIAN ALUMINIUM INDUSTRY**

K. J. Kulkarni, S. K. Thokal, M. J. Chaddha, A. Agnihotri

JNARDDC, Nagpur

4:45 p.m

**Study on Dross formation mechanism: minimize dross formation, increase recovery of metal and utilizing dross as value added product useful for modern industries**

LDV Guna Sekhar<sup>1</sup>, Lokesh Kumar Sharma<sup>2</sup>, Deepak Prasad<sup>3</sup>

Balco, India

5:00 p.m

**Development of “Furnace Operating Management System(FOMS)” Mobile App –A step towards Digitalization**

Gaurav Kumar Priyanka Priyadarshini Vedanta Limited, Jharsuguda, Odisha

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**5:15 p.m. SHORT ORAL PRESENTATIONS(10 min. max)**

**DIGESTION KINETICS OF EAST COAST BAUXITE**

P Pradhan, M J Chaddha, S B Rai, K J Kulkarni, A Agnihotri

Jawaharlal Nehru Aluminium Research Development & Design Centre, India

**THERMODYNAMIC STUDY OF ZINC PRECIPITATION AS ZINC PHOSPHATE FROM PROCESSED LEACH LIQUOR OF ZINC DROSS**

RajanikantChoudhari, S.Sinha, D.Mishra, S.Shekhar, K.K.Sahu  
CSIR-National Metallurgical Laboratory, Jamshedpur, India

**EXTRACTION OF MANGANESE FROM LEAN GRADE PYROLUSITE ORE**

SaurabhShekhar, S. Sinha, D. Mishra, A. Agrawal, K. K. Sahu  
CSIR-National Metallurgical Laboratory, Jamshedpur - 831007, India

**PROSPECTING AND EXTRACTION OF MOLYBDENUM FROM SECONDARY RESOURCES**

Pratima Meshram, Vikas Bharti, Abhilash  
CSIR-National Metallurgical Laboratory, Jamshedpur - 831007, India

6:00 p.m. **PROGRAM ENDS**