Special Sessions of IBAAS – 2018

Apart from general topics on Bauxite, Alumina and Aluminium, it is planned to have the following special sessions to be coordinated by leading experts during the IBAAS 2018 symposium:

1. **Low Grade Bauxite:** As high-quality bauxite resources are fast depleting, it is necessary to use low alumina and high silica ore in the refinery and conserve the available resources. This special session will review various Beneficiation processes available in the world for removal of silica and increase alumina content and suggest the ways. The challenges in processing these low-grade bauxites in the refinery will be another area of this session. Leading organisations and companies like IBM, IIMT, AKW, Germany, MBE, Kolkata and representatives of VEDANTA, HINDALCO, NALCO & JNARDDC, ABSTCPL are invited and recommendations will be submitted to Ministry of Mines.

2. **Non-Metallurgical Bauxite & Alumina**- ***Coordinator Dr. Richard Flook & IBAAS team***

   The special alumina segment covers the use of bauxite and alumina to produce products for non-metallurgical markets. These products include refractory and ceramic raw materials, aluminium chemicals, cement raw materials, abrasives, ceramic proppants and flame retardants.

3. **Raw Materials for Alumina and Aluminium Production** - ***Coordinator Mr. Vinod Sood of IBAAS with HINDALCO (Mr. Sanjay Agarwal), VEDANTA, NALCO & UNIMARK***

   The basic raw material for processing bauxite like caustic soda is becoming costlier day by day resulting in the increase of alumina production cost. Further the supply of carbon raw materials for smelter is becoming serious concern for primary aluminium producers. Companies dealing with the production of these materials for aluminium industry are invited and raw materials security for this industry can be worked out.

4. **Value from Wastes** - ***Coordinator Dr. Pradeep Banerjee of HINDALCO with Primary Aluminium Producers, International companies, R&D centres & JNARDDC etc.***

   This is another vital area for Aluminium plants, where industrial solutions are yet to be found for bauxite residue, Spent Pot Lining, Dross, Sludges, Fly ash etc. generated during alumina and aluminium production. Dr. Banerjee of HINDALCO has agreed to coordinate this important session in cooperation with various R&D centres including NEERI, aluminium industry,experts and Chinese companies, who have developed the technology.

5. **Pot Failures** – ***Coordinator Mr. A.T. Mathew of HINDALCO & Mr. V. Balasubramanyam of NALCO***

   This is one of the major debacles in smelters and it is sometimes difficult to predict. All the technical reasons will be analysed and solutions for these can be enumerated in this session.

6. **Energy Conservation in Smelters** – ***Coordinator Mr. Abhijit Pati of VEDANTA with NALCO, HINDALCO & The Aditya Birla Science and Technology Company***

7. **Aluminium Downstream: One full day special session** – ***Coordinator Mr. Shanker Gopalkrishnan of Madras Consultancy Group in cooperation with HINDALCO, NALCO, JNARDDC & The Aditya Birla Science and Technology Company with the following sub-topics:***

- **Flat rolled products** -Technology, Markets & Market Development (auto sheet, can body/end stock, defence/aero-space)
- **Foil** - Sub-set of FRP
- **Extrusions** - Markets & market development, technology (automotive/rail transport, electrical/electronic, high-rise buildings)
- **Forgings** - Sub-set of extrusions - markets & technology - automotive
- **Recycled Aluminium** - Technology upgradation, recycled aluminium billets, environmental aspects
- **Aluminium Dross Recovery** - Markets and technology - white dross, black dross, on-site/off-site processing, salt cake disposal, etc.

This special session expands the scope to select areas of fabrication, with a view to encourage further development in aluminium downstream demand.