



The 3rd International Bauxite, Alumina & Aluminium Conference was successfully held at Hotel NOVOTEL Varun Beach, Visakhapatnam, Andhra Pradesh, India in association with CHALIECO, China & JNARDDC, India between Nov. 27-29, 2014. Inspired by the Hon'ble Prime Minister's Campaign "Make in India", the theme of the Symposium was "Technological Improvements & Market Developments in Aluminium Industry with Special Reference to Value Added Products of Bauxite, Alumina and Aluminium". Over 200 participants from 15 countries (about 35 delegates from outside India) participated in the symposium.

This Symposium was inaugurated by Tom Albanese, CEO of Vedanta Resources on 27th November, 2014 in Visakhapatnam. Mr. Albanese talked about the Indian aluminium sector that has the potential to grow into a billion dollar industry. India is lagging behind in exploring bauxite resources even though environmental friendly technologies are available all around the world. He also added that dedicated industrial parks for aluminium industries should be developed. At the opening ceremony, Mr. Niu Heng, Senior Manager of CHALIECO talked about the bright future of aluminium industries in India; a country that has vast raw material resources compared to China, which is facing acute shortage of quality bauxite.

At the inaugural function, an award ceremony was organised to recognise the outstanding work carried out by various organisations in the field of bauxite, alumina & aluminium. The President of IBAAS presented mementos and certificates to following organisations:

- 1) Environmental Management. Belgaum, HINDALCO – For their sustained efforts and development of Internationally Acclaimed Rehabilitation and Reclamation of Red Mud Ponds.
- 2) Alumina Refining. Nalco, Damanjodi – Being the trendsetter in alumina quality and marketing

- 3) Alumina Refining, Vedanta Refinery, Langigarh – First refinery successfully constructed without assistance from “Integrated Technology Suppliers” based on Engineering Company (Worley Parsons) thus paving way for more options and speedy implementation.
- 4) Aluminium Smelting, CHALIECO, China – First Asian Country to develop & commercialize Internationally acclaimed Smelter Technology
- 5) Downstream Operations, Century Extrusions Limited (CEL), Kharagpur – Has made significant contributions to Indian Defence (for application in Bramhos Super Sonic Cruise Missile) by producing extrusions with different tempers and forging stocks as Import substitute.
- 6) Research & Development JNARDDC, Nagpur – JNARDDC has done significant work in the area of environment and waste management for the aluminium industry.

During the three day conference, about 55 presentations on various aspects of bauxite, alumina & aluminium were delivered and intense discussions took place on latest developments of this industry. IBAAS and CHALIECO actively addressed various issues associated with the development of this industry and shared latest R&D achievements in this field.

Some of the interesting papers presented during IBAAS 2014 symposium are listed below:

- The Bauxite Index - Value-in-Use Considerations in Bauxite Pricing by Bill Dalton of CM Group, Australia*
- Beneficiation of High Silica Bauxite Ores of India by Mukesh Kumar, Sesa Sterlite Limited, India*
- Mineralogy of Indian Bauxite and Red mud and its Implication in Optimizing Alumina Production Process by Istvan Sajo, Hungary*
- The Next Generation – Bauxite-Alumina Industry by Michael Shenton, CEO, Prima Resources, Australia*
- Sustainable Indian Alumina Refinery for the 2020's by H. Mahadeven, IBAAS, India*
- Present International Market of Alumina-Aluminium and NALCO's Strategy by Soma Mondal, NALCO, India*
- R&D in Aluminium Industry by Anupam Agnihotri, Director JNARDDC*

- Global market balances for alumina – An outlook to 2023 by Puneet Paliwal, CRU, India*
- Caustic Soda for the Alumina Refineries - An overview by Ramakant Bhat, Tricon*
- To Yield or Not to Yield by Andrew Furlong et.al., WorleyParsons, Australia*
- An Alternative Advanced Alumina for Advanced Refractory Ceramics by Arnaud Lafaurie, et.al., ALTEO, France*
- Carbothermic Processes to Replace the Hall-Heroult Process by Yaghoub Sayad-Yaghoubi, Calsmelt Pvt. Ltd, Australia*
- SAMI High Capacity Energy Saving Aluminum Reduction Cell Technology Development and Application by Zhou Dongfang , SAMI, China*
- Improving Process Efficiency in Anode Rodding Shops by Manfred Beilstein et.al., Outotec, Germany*
- Study of Energy Saving for Large Reduction Cell by Yan Feiya, GAMI, China*
- Waste Disposal Management in Aluminium Industry by Lu Yi, Jingjin, et.al. Environmental Protection Inc., China*
- Make in India - How Downstream Aerospace Aluminium Manufacturing can lead to Jobs and Economic Growth by Subramanian Arumugam, Almex USA Inc., U.S.A*
- High purity Aluminium: Technology Challenges by K.Balasubramanian, NFTDC, India*
- Growing applications of aluminium in transportation and the implications for the Indian downstream sector by Shanker Gopalkrishnan, Madras Consultancy Group, India*
- Indigenization of aluminium alloys for space applications: Challenges, current status and visions by Koshi M. George, VSSC (ISRO), India*

The conference was well organised and widely appreciated for excellent technical papers, presentations and cultural event. The IBAAS 2014 was sponsored by companies like WorleyParsons, Australia and Jingjin Environmental Protection Equipment Co. Ltd., China; Co-sponsored by Sesa Sterlite, India, Carborundum Universal and Almex USA and Supported by Cytec Industries, USA, ALMATIS, NALCO, India and Glencore. An exhibition of the Aluminium Industry was organised at the venue of Symposium during the conference. About 8 exhibitors including CHALIECO, WorleyParsons Services Pty Ltd, Australia, Weir Minerals (India) Private Limited, Unimark International, Precision Light and Air Pty Ltd "Process Analysers", Australia participated in this exhibition showcasing latest developments in the field.