



International Bauxite, Alumina & Aluminium Society (IBAAS)

In Association With

Indian Institute of Metals, Sambalpur (IIM Sambalpur Chapter)

and

**Jawaharlal Nehru Aluminium Research Development and
Design Centre (JNARDDC)**

Presents

14th International Conference & Exhibition (IBAAS-2026)

On

**GLOBAL ALUMINIUM OUTLOOK 2030: SECURE RESOURCES,
EFFICIENT ENERGY AND VALUE FROM WASTES**

Technical Program



Mayfair Hotels & Resorts, Jharsuguda (India)

September 9-11, 2026

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Organizer



Associated Organizations



Platinum Sponsor



Gold Sponsor

Silver Sponsor



14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Dinner Sponsor



Dinner Co-Sponsor



Support Sponsor



Lunch Sponsors



Lunch Co-Sponsor

Exhibitors



14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Media Partners



14th International Bauxite, Alumina, Aluminium Conference & Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient Energy and Value from Wastes”
September 9 -11, 2026

Participating Companies



14th International Bauxite, Alumina, Aluminium Conference & Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient Energy and Value from Wastes”
September 9 -11, 2026

PROGRAMME AT GLANCE

Venue: MAYFAIR Hotel & Resorts, Jharsuguda, Odisha, India

Conference Registration at Mayfair Hotel, Jharsuguda (8 th September 2026, Tuesday)				
Time	9 th September (Wednesday)	10 th September (Thursday)		
08.00-09.30	Welcome & Registration	PARALLEL SESSION I (Auditorium)	PARALLEL SESSION II (Hall 1)	PARALLEL SESSION III (Hall 2)
09.30-10.30	Inaugural Session followed by opening of Exhibition	TS-1: Digitalization	TS-2: Non-Metallurgical Bauxite-Alumina Applications	TS 3: Aluminium Smelting
Tea / Coffee Break: (10.30-11.00)				
11.00-13.00	Keynote Addresses & Presentation by Leading Experts	PARALLEL SESSION I (Auditorium) TS-1: AI Applications (Cont.)	PARALLEL SESSION II (Hall 1) TS-2 Bauxite-Alumina and Special Alumina (Cont.)	PARALLEL SESSION III (Hall 2) TS-3 Aluminium Smelting (Cont.)

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Lunch Break: (13.00-14.00)				
Visit to Exhibition Stall: (14.00 -14.30)				
Time	9 th September (Wednesday)	10 th September (Thursday)		
14.30- 15.30	Keynote Addresses & Presentation	PARALLEL SESSION I (Auditorium) TS-1: AI Applications (Cont.)	PARALLEL SESSION II (Hall 1) TS-2 Bauxite Residue (Cont.)	PARALLEL SESSION III (Hall 2) TS-3 Aluminium Smelting (Cont.)
Tea Break: (15.30-16.00)				
16.00- 18.00	Presentations of Sponsors & Supporters	PARALLEL SESSION I (Auditorium) ESG Recognition and Awards Ceremony	PARALLEL SESSION II (Hall 1) Kindly join us in the Auditorium for the ESG Recognition and Awards Ceremony	PARALLEL SESSION III (Hall 2) Kindly join us in the Auditorium for the ESG Recognition and Awards Ceremony
Dinner (19.00- onwards)				

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Time	11 th September (Friday)			12 th September (Saturday)
09.30-10.30	PARALLEL SESSION IV (Auditorium)	PARALLEL SESSION V (Hall 1)	PARALLEL SESSION VI (Hall 2)	Post- Conference Plant Visit to Aditya Aluminium Smelter, Lapanga, Odisha, India and Vedanta Aluminium (Jharsuguda, Odisha) (09.00 - 15.00)
	TS-4: AI Applications	TS-5: Bauxite Alumina	TS-6: Aluminium Smelting	
Tea / Coffee Break: (10.30-11.00)				
11.00-13.00	PARALLEL SESSION IV (Auditorium)	PARALLEL SESSION V (Hall 1)	PARALLEL SESSION VI (Hall 2)	
	TS-4: Green Aluminium	TS-5: Value Recovery from Aluminium & Power Plant Waste	TS-6 Aluminium Smelting and Alloy (Cont.)	
Lunch Break: (13.00-14.00)				
14.00-15.30	PARALLEL SESSION IV (Auditorium)	PARALLEL SESSION V (Hall 1)	PARALLEL SESSION VI (Hall 2)	
	TS-4: Aluminium Recycling	Visit to Exhibition Stalls and Networking	TS-6 Aluminium Downstream	
Tea Break (15.30-16.00)				

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

16.00- 18.00	Auditorium: Concluding Session, Prize Distribution for Best Paper Presenters and High Tea	
-----------------	--	--

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

PROGRAMME	
Venue: <u>MAYFAIR Hotel & Resorts, Jharsuguda, Odisha, India</u>	
September 8, 2026	
15.00-18.00	Conference Registration at MAYFAIR Hotel
September 9, 2026	
08.00-09.30	Conference Registration at MAYFAIR Hotel
LOCATION: AUDITORIUM	
Time (Hours)	Title
08.00-09.30	Registration & Welcome
09.30-11.00	Inaugural Function
	Chief Guest - Shri Suresh Pujari Cabinet Minister, Odisha
	Guest of Honour 1- Mr. Rajesh Kumar, CEO, Vedanta Aluminium
	Guest of Honour 2- Mr. Bibhu Mishra, Advisor HINDALCO
	Foreign Guest - Mr. Takuo Harato, Leading Alumina expert, Japan
	Guest of Honour 3- Mr. C. Chandru, CEO - Vedanta, Jharsuguda
	Guest of Honour 4- Dr. Vilas Tathavadkar, Chief Technology Officer, HINDALCO

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

	Convener of IBAAS conference
	Release of conference souvenir and opening of exhibition
	Vote of Thanks by Mr. Pradip R. Choudhury, Leading Smelter Expert Former Executive Director, NALCO
11.00-11.30	<i>High Tea</i>
KEYNOTE ADDRESSES & PRESENTATION BY LEADING EXPERTS	
11.30-11.50	Keynote Address-1 Bibhu Mishra, HINDALCO: Structural Transformation in Aluminium Industry
11.50-12.10	Keynote Address-2 Takuo Harato: Sustainability of Alumina Industry
12.10-12.30	Keynote Address-3 Pratap Sahu, Joint President, HINDALCO: Global Cooperation on Key Challenges for the Aluminium Industry
12.30-12.50	Keynote Address-4 Yves Ocello, Amber Generation: Navigating Resource Depletion and Geopolitical Volatility through Technological Agility
13.00-14.00	<i>Lunch Break</i>
14.00-14.30	<i>Visit to Exhibition Stall</i>
KEYNOTE ADDRESSES & PRESENTATION	

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

14.30-14.50	Keynote Address-5 Vibhav Upadhyay, C00, Smelter AVP Vedanta Aluminium: Aluminium Value Chain and its Application: Enabling Light weight Solutions, Energy Efficiency and Advancing ESG Goals
14.50-15.10	Keynote Address-6 NALCO
15.10-15.30	Keynote Address-7 Thanh Nguyen, Hanoi: Status of Bauxite, Alumina and Aluminium Industry of Vietnam
15.30-16.00	<i>Tea/Coffee Break</i>
PRESENTATION BY SPONSORS & SUPPORTERS	
16.00-16.30	Presentation-1 Platinum Sponsor Vedanta Aluminium - Mr. C. Chandru
16.30-16.55	Presentation-2 Gold Sponsor Tokai Cobex
16.55-17.15	Presentation-3 Silver Sponsor - PAPL
17.15-17.25	Presentation-4 Dinner Sponsor FLS- T. Senthil Kumaar, Sales & Key Account Manager, FLS
17.25-17.35	Presentation-5 Dinner Sponsor -Hemul Shah, Ashapura
17.35-17.45	Presentation-6

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

	Lunch Sponsor GEA
17.45-17.55	Presentation-7 Lunch Sponsor Vincent Electronics
17.55-18.05	Presentation-8 Arighna Sarkar, Director - Technology: One Platform, Infinite Intelligence: Rethinking Aluminium Trade by AL Circle
19.00	<i>Dinner by FLS</i> <i>(Location: MAYFAIR Hotel)</i>

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Session: Digitalisation		
THURSDAY - SEPTEMBER 10, 2026		
Location: Auditorium		
Session Chairpersons: Mr. Pradip Ranjan Choudhury Leading Smelter Expert Former Executive Director, NALCO		
Time (Hour)	Speaker	Title
09.00 - 09.15	<i>Pradip Ranjan Choudhury, Leading Smelter Expert</i>	<i>Theme Paper: Re-imagining the Aluminium Value Chain through Digitalisation</i>
09.15 - 09.30	Nitin Thapar, MMSPL, India	Digitalising the Bauxite Mine: A Blend-Optimisation Framework for Stabilising Refinery Feed Quality and Reducing Caustic and Red-Mud Burden
09.30 - 09.45	Nilajit Ghosh, Rockwell Automation India(P) Ltd.	Reimagining the Aluminium Value Chain through Industrial AI, Digitalization, and Cyber-Resilient Autonomous Operations
09.45 - 10.00	Ravi Misra, National Aluminium Company Limited, Angul, Odisha, India	Operational Excellence using Integrated Data Analytics and Reporting Platform for Fume Treatment Plants in Potlines

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

10.00 - 10.15	Saprativ Basu, Vedanta Aluminium Metal Ltd., Jharsuguda, India	Optimization of Green Anode Density (GAD) & Electrical Resistivity (ER) through AI/ML
10.15 - 10.30	Adwaith Gupta, Paanduv Applications Private Limited, Bareilly, India	Predicting keyholes in additively manufactured aluminium using a multiphase physics model of AM PravaH®
10.30 - 11.00	Tea /Coffee Break	
Session: Digitalisation And AI Application in Aluminium Industry		
Session Chairpersons: Mr. Pradip Ranjan Choudhury Leading Smelter Expert Former Executive Director, NALCO and Mr. Ashutosh Kumar, VP of Engineering, Caliche		
11.00 - 11.15	Jagadish C.A., q- Maxim LLP, Bangalore, India	Application of Exploratory Data Analysis and Predictive Modelling to Minimize Cracking and other defects in Casting Processes
11.15 - 11.30	Jitendra Ahirwar Bharat Aluminium Company, Korba, India	Technology implementation to IoT sensors

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

11.30 - 11.45	Biswajit Tewari, Hindalco Industries Ltd., Hirakud Smelter, Hirakud, India	Digital Transformation in a 60-Year-Old Industrial Plant: A Practical Approach
11.45 - 12.00	Aashutosh Cheddavi, Bharat Aluminium Company, Korba, India	AI/ML Powered Pot Reaction Early Alert Control Tool (Pre Act)
12.00 - 12.15	<i>Ashutosh Kumar, VP of Engineering, Caliche</i>	<i>Theme Paper: Application of Artificial Intelligence in the Aluminium Industry: Pathways for Predictive, Sustainable and Resilient Operations</i>
12.15 - 12.30	Saptarshi Sengupta, Hindalco Industries Limited, Lohardaga Division, India	Development of a Vision AI based solution to distinguish between Bauxite and Laterite at Samri Bauxite Mines
12.30 - 12.45	Sridhar Mishra Vedanta Aluminium Metal Limited, Lanjigarh	Improving Flash Vessel Reliability in Digestion Through Targeted Process and Equipment Improvements
12.45 - 13.00	Sushil Kumar, Hindalco Industries Limited, Lohardaga Division, India	AI Enabled Soft Sensors and CBM for Driving Operational Excellence in Bauxite Mining

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

13.00-14.00	Lunch Break	
Session: AI Application in Aluminium Industry		
Session Chairpersons: Mr. Ashutosh Kumar, VP of Engineering, Caliche and Mr. Pradip Ranjan Choudhury, Leading Smelter Expert Former Executive Director, NALCO		
14.00 - 14.30	Visit to Exhibition Stall & Networking	
14.30 - 14.45	Chiradip Roy, Hindalco Industries Limited, Belagavi, Karnataka, India	Transforming Effluent Treatment through Automation, Analytics, and Circular Resource Recovery
14.45 - 15.00	Santunu Pathy, HINDALCO - UAIL Refinery, Doraguda, India	AI Enabled Bauxite Yard Management Using Online Analyzer, Intelligent Stacking–Reclaiming, and Real Time-Laser Based Volume Control
15.00- 15.15	Ajay Upadhyay, Hindalco Industries Ltd., Muri, India	Real Time Condition Monitoring of Transformer
15.15 - 15.30	Ashish Bhadraraja, Bharat Aluminium Company, Korba, India	AI-Powered Recommendation Model for Suspicious Coils
15.30 - 16.00	Tea / Coffee Break	
16.00-18.00	ESG Recognition and Awards Ceremony	
19.00 onwards	Dinner (Location: The Orchard, Jharsuguda)	

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Session: Non-Metallurgical Bauxite-Alumina Applications		
Thursday - September 10, 2026		
Location: Hall – 1		
Session Chairpersons: Dr. Jyoti Prakash Nayak, General Manager – High Alumina Technology, TRL Krosaki Refractories Limited and Basudeb Datta		
Time (Hour)	Speaker	Title
09.00 - 09.15	<i>Jyoti Prakash Nayak, General Manager – High Alumina Technology, TRL Krosaki Refractories Limited</i>	<i>Theme Paper: Beyond the Metal: Strategic Dynamics and Emerging Paradigms in Non-Metallurgical Bauxite-Alumina Value Chains</i>
09.15 - 09.30	B. P. Misra, JASH Process Equipment Pvt. Ltd.	Challenges in designing Equipment for small Speciality Alumina refineries
09.30 - 09.45	Aakash Dalui, TRL Krosaki Refractories Limited	Sustainable Refractory Engineering: Performance Optimization and Shell Temperature Minimization by Using Dense Bauxite in ASC brick
09.45 - 10.00	Sachin Arya, Gharda Scientific Research and Foundation	Selective removal of Iron Oxide from Bauxite Ore

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

10.00 - 10.15	Alay Hemanshu Thanki, 101 Minerals (MAG-AL Electro minerals Pvt Ltd)	The Strategic Importance of Calcined Bauxite in the Refractory Industry: The Procurement Challenge Faced by the Indian Refractory Producers
10.15 - 10.30	Nils Rosenberger, Almatiss GmbH, Germany	Process–Structure–Performance Relationships in Specialty Alumina for Non-Metallurgical Applications
10.30-11.00	Tea/Coffee Break	
Session: Bauxite–Alumina and Special Alumina		
Session Chairperson: Pranab Bhattacharya, Head Alumina, Lanjigarh Vedanta		
11.00 - 11.15	Madhur Kolte, Hindalco Industries Limited, Belagavi, Karnataka, India	Beyond Fillers: Particle Size Distribution and Morphological Engineering of Aluminium Trihydrate for Advanced Polymer Composites
11.15 - 11.30	Priyanka Nayar, JNARDDC	Impact of Trace Impurities on Properties and Cost of High-Purity Alumina for Advanced Applications
11.30 - 11.45	Shankha Chatterjee, Almatiss Alumina P. Ltd, India	Sustainable Alumina Solutions for Innovative High Alumina Refractories in Iron and Steel Applications

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

11.45 - 12.00	Mridula Biswas, Hindalco Innovation Centre Alumina, Belgaum, Karnataka, India	Effect of Feed Slurry Conditions and Aspirator Flow Rate on Granulation Behaviour in Alumina Production
12.00 - 12.15	Amit Preetam Baliarsingh, NALCO Water	Evaluation of Nalco Water’s Bauxite Flowability Aid in Indian Alumina Refinery to Improve Flow Characteristics of High Moisture Bauxite
12.15 - 12.30	Pungkuntran Jaganathan, FLS	Embracing Net Zero: A Step Towards a Sustainable Future
12.30 - 12.45	Amin Darvishi, Iran Alumina Co, Jajarm, Iran	Optimization of Bauxite Mill Feed Size for Reducing Energy Consumption and Increasing Production Capacity in an Alumina Refinery
12.45 - 13.00	Visit to Exhibition Stall	
13.00 - 14.00	Lunch Break	
Session: Bauxite Residue (Br/Red Mud)		
Session Chairperson: Ms. Sangita Sadafule, Deputy CEO – Red Mud, Vedanta Limited, Lanjigarh and Basudeb Datta		

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

14.00 - 14.15	Sangita Sadafule, Dy CEO - Red Mud of Vedanta Aluminium Metal Limited - Lanjigarh	<i>Theme Paper: Bauxite Residue to Resource Advancing Circularity through Critical-Mineral Recovery, Industrial Applications and Sustainable Large-Scale Utilization</i>
14.15 - 14.30	Abhishek Shrivastava, CSIR- Advanced Materials and Processes Research Institute, Bhopal	Neutron Attenuation Analysis of Red Mud based High Dense Radiation Shielding Materials
14.30 - 14.45	Pujashree Patri, Vedanta Aluminium Metal Limited, Lanjigarh	From Bauxite Residue to Industrial Resource: Technical Qualification, ESG Value and Circular-Economy Integration in Fertiliser Granulation
14.45 - 15.00	Raghavender K, National Aluminium Company Limited (NALCO), Damanjodi, India	Analytical Characterization and Recovery Optimization of Critical Minerals in NALCO Bauxite residue (Red Mud)
15.00 - 15.15	Shabi Thankaraj Salammal, CSIR- Advanced Materials and Processes	Red Mud based Gamma and Neutron Shielding Blocks for Radiation Shielding Applications

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

	Research Institute (CSIR-AMPRI), Bhopal	
15.15 - 16.00	<i>Tea/Coffee Break</i>	
16.00-18.00	<i>Kindly join us in the Auditorium for the ESG Recognition and Awards Ceremony</i>	
19.00 onwards	<i>Dinner (Location: The Orchard, Jharsuguda)</i>	

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Session: Aluminium Smelting		
Thursday - September 10, 2026		
Location: Hall-2		
Session Chairperson: Mr. Bibhu Mishra, Advisor, Hindalco Industries Limited, India		
Time (Hour)	Speaker	Title
09.00 - 09.15	Ajay Dewangan, Hindalco Industries Ltd., Hirakud Smelter, Hirakud, India	Pot life and Energy efficiency improvement in Hirakud Low amperage pots
09.15 - 09.30	Maxime Beraud, Fives Group Aluminium, France	High-Capacity Green Anode Plants
09.30 - 09.45	Alok Singh, Hindalco Industry Limited, Renukoot, Uttar Pradesh, India	Evolution of Pot Stoppage Philosophy: From Run-to-Fail to Data-Driven Predictive Planning Based
09.45 - 10.00	Anamit Deb Gupta, Aditya Aluminium Ltd (A unit of Hindalco Industries Ltd)	Improvement in Anode Quality by Collaboration & In-house Process Optimization
10.00 - 10.15	Suryakanta Nayak, Hindalco Industries Limited (Unit -Mahan)	Impact of Refractory Health in Anode Baking Quality at higher Age

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

10.15 - 10.30	Chandresh Vaghasia, Vedanta Aluminium Metal Ltd., Jharsuguda, India	From Variability to Stability: A Systematic Approach to Improving Quality in Pre-Baked Anodes
10.30-11.00	Tea/Coffee Break	
Session: Aluminium Smelting		
Session Chairperson: Mr. Pratap Kumar Sahu, Jt. President, Hiralud Smelter, Hindalco		
11.00 - 11.15	P. Pradeep, Vedanta Aluminium Metal Ltd., Jharsuguda, India	Reduction in Stub to Carbon voltage drop of anode by influencing the cast iron chemistry
11.15 - 11.30	Santosh Kulkarni, EPIQ Machinery, Canada	Evolution of Anode Slot Cutting Machines: From Mechanical Optimization to Intelligent Automation
11.30 - 11.45	Jeremy Peat, Fiberstone Limited, Pinxton, UK	Pre- Cast Ceramic- Steel Composites for Improved Cast House Service Life
11.45 - 12.00	Jay Prakash Soni, Hindalco Industries Ltd., Hiralud Smelter, Hiralud, India	Reduction of Sodium (Na) in Butt at Hiralud Rodding Plant to Enhance Process Stability

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

12.00 - 12.15	U C Nayak, National Aluminium Company Limited (NALCO)	Optimization of Pot Operating Parameters to Mitigate Carbon Dusting in Prebake Aluminium Reduction Cells
12.15 - 12.30	Abhishek Patel Bharat Aluminium Company, Korba, India	Indigenous Re-Lining Design Implementation with Recoverable Copper Cathode
12.30 - 12.45	Vinay Kumar Tiwari, Hindalco Industries Limited (Unit -Mahan)	Design and Development of Integrated High-Pressure Oxygen Lancing System with Manifold and Lance Holder for Emergency Aluminium Potline Operations
12.45 - 13.00	Vinod Rathore Bharat Aluminium Company, Korba, India	Installation of Intelligent Flow Control Valve in Compressed Air Line
13.00-14.00	<i>Lunch Break</i>	
Session: Aluminium Smelting		
Session Chairperson: Mr. K.M. Khaji, Consultant- Aluminium Smelter		
14.00 - 14.15	Ankit Pareek, Vedanta Aluminium Metal Ltd., Jharsuguda, India	Operating Aluminium smelters beyond design amperage: Some Experiences/ Challenges of amperage increase
14.15 - 14.30	Nikhil Kumar Singh, National Aluminium	Reducing Inlet Gas Temperature of Potline to

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

	Company Limited (NALCO), Angul, Odisha, India	Improve HF Adsorption in Fume Treatment Plant
14.30 - 14.45	Shanmukh Rajgire, JNARDDC	Fuzzy Control of Superheat in Aluminium Smelting Cell
14.45 - 15.00	Biswajit Tewari, Hindalco Industries Ltd., Hirakud Smelter, Hirakud, India	From Reactive to Predictive: Data-Driven Reliability Enhancement of Rectifier
15.15 - 16.00	<i>Tea / Coffee and Visit to Exhibition Stall</i>	
16.00 - 18.00	<i>Kindly join us in the Auditorium for the ESG Recognition and Awards Ceremony</i>	
19.00 onwards	<i>Dinner (Location: The Orchard, Jharsuguda)</i>	

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Session: AI Application		
FRIDAY – SEPTEMBER 11, 2026		
Location: Auditorium		
Session Chairpersons: Mr. Ashutosh Kumar, VP of Engineering, Caliche & Mr. Pradip Ranjan Choudhury Leading Smelter Expert Former Executive Director, NALCO		
Time (Hour)	Speaker	Title
09.00 - 09.15	Gowtham Isakapatla, Hindalco Industries Limited, Belagavi, Karnataka, India	Predictive Modelling of Alumina Trihydrate Particle Size Using Machine Learning
09.15 - 09.30	Chiradip Roy, Hindalco Industries Limited, Belagavi, Karnataka, India	Integrated Red Mud Pond Management Using Digitalization and Artificial Intelligence
09.30 - 09.45	Jeeban Priyadarshan Mishra, HINDALCO - UAIL Refinery, Doraguda, India	AI-Guided Optimization of Last Growth Tank Temperature in the Precipitation Circuit of Utkal Alumina International Limited (Alumina Refinery)
09.45 - 10.00	Navnit Srivastava, Hindalco Industries Ltd., Muri, India	Smart Boiler Tube Leakage Detection System

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

10.00 - 10.15	Kapil Kumar, Hindalco Industries Ltd, Aditya Aluminium, Lapanga, Odisha, India	Towards Operator Actionable Early Warning of Anode Effects: A 60-Minute Horizon Prediction System in Aditya Potlines
10.15 - 10.30	Saurabh Kawale, Tridiagonal.ai, Pune, India	Smelter Intelligence: An AI-Enabled Operational Decision Intelligence System for Improving Current Efficiency in Aluminium Smelters
10.30-11.00	Tea/Coffee Break	
Session: Green Aluminium		
Session Chairperson: Dr. Ashok Nandi, IBAAS		
11.00 - 11.20	Adhiraj Seth, Wood Mackenzie	The Next Cycle of Aluminium Growth and Its Carbon Consequences
11.20 - 11.40	Payal Chauhan, Senior Associate, Sustainability Consultant, G13+ India, New Delhi, India	CBAM Compliance for Indian Aluminium Exporters
11.40 – 13.00	Visit to Exhibition Stall & Networking	
13.00-14.00	Lunch Break	

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Session: Aluminium Recycling		
Session Chairperson: Mr. Pradip Choudhury, Leading Smelter Expert Former Executive Director, NALCO and Mr. R. N. Chouhan, HoD (Metal Processing & Reference Materials), JNARDDC		
14.00 - 14.15	R. N. Chouhan, HoD (Metal Processing & Reference Materials), JNARDDC	Theme Paper by Session Co-Ordinator: Aluminium Recycling in India: Circular Economy Pathways
14.15 - 14.30	Toshitake Fukushima, Daiki Aluminium, India Pvt Ltd, Sri City, Andhra Pradesh	Japan's Aluminium Recycling Ecosystem and Daiki's Contribution to the Indian Recycling Sector
14.30 - 14.45	Rajesh Khatirkar, Professor, Dept. of MME, VNIT Nagpur	Production of Synthetic Slag from Aluminium Dross
14.45 - 15.00	Swapnil Gupta, Executive Director, PricewaterhouseCoopers Private Limited	The Future of Circular Aluminium: Where Global Strategy Meets National Regulation
15.00 - 15.15	Prakash Maladkar, AFECO Heating Systems	Aluminium Scrap Recycling Technology with Latest Vortex Melting Technology

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

15.15 - 15.30	Srinath P, SRF, Sri Ramakrishna Engineering College (SREC), Coimbatore, TN	Development of a Proposed Rapid Solid- State Reactive Refining Agent for Sustainable Chlorine-Free Aluminium Melt Treatment
15.30-16.00	<i>Tea/Coffee Break</i>	
16.00-18.00	<i>Concluding Session and Prize Distribution for Best Papers/ Presentation</i>	

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Session: Bauxite - Alumina		
Friday - September 11, 2026		
Location: Hall-1		
Session Chairperson: Ms. Rosalin Pradhan, Dy. Director Technical, Digitalisation, Vedanta Aluminium Ltd.		
Time (Hour)	Speaker	Title
09.00 - 09.15	Hrixeita Biswal, Vedanta Aluminium Metal Limited, Lanjigarh	Capacity Enhancement of Fine Seed Disc Filters
09.15 - 09.30	Rashmita Soren, Vedanta Aluminium Metal Limited, Lanjigarh	Process Modelling and Performance Optimization of Multi- Effect Evaporators for Enhanced Steam Utilization in an Alumina Refinery
09.30 - 09.45	Lipak Kumar Sahoo, Indian Institute of Technology Bhubaneswar	Mathematical Modelling of Alumina Precipitation
09.45 - 10.00	Amin Darvishi, Iran Alumina Co, Jajarm, Iran	Enhancement of Caustic Soda Recovery and Reduction of Red Mud Environmental Impacts through Replacement of Drum Filters with Filter Press Technology in Alumina Refining

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

10.00 - 10.15	Aaliya Mujawar, Dharti Group Kolhapur, India	Sizing the White Fused Alumina Industry: A Value–Volume Study of Global and Indian Market Dynamics, Supply Chain, and Growth Strategy
10.15 - 10.30	Chaitali Pattankude, Dharti Group Kolhapur, India	Sustainable Upgradation of Low-Grade Bauxite through Selective Hydrochloric Acid Leaching
10.30-11.00	Tea/Coffee Break	
Session: Value Recovery from Aluminium and Power Plant Wastes		
Session Chairperson: Mr. Satyanarayan Das, Consultant-Aluminium Smelter		
11.00 -11.15	Maneesh C. Srivastava, Head – R&D, Vedanta Aluminium, Jharsuguda	Theme Paper by Session Co-Ordinator: Value Recovery from Aluminium and Power Plant Wastes
11.15-11.30	Purandar Mahanta, Vedanta Aluminium Metal Ltd., Jharsuguda, India	Utilization of Skimmed Coke Waste Stream
11.30 -11.45	Mahin Sapkal, JNARDDC.	Valorization of Aluminium Extrusion Leachate for Detergent

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

		Grade Zeolite Production via Controlled Crystallization
11.45-12.00	Maheswar Behera, Consultant – Aluminium Industries	Sustainable Recycling of Raw Materials and By- Products of Smelters with Reference to Carbon, And Carbon Dust for Operation of Greener Aluminium Smelters
12.00-13.00	<i>Visit to Exhibition Stall</i>	
13.00-14.00	<i>Lunch Break</i>	
14.00-16.00	<i>Tea / Coffee Break</i>	
16.00-18.00	<i>Kindly join us in the Auditorium for Concluding Session, Prize Distribution for Best Paper Presenter and High Tea</i>	

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

Session: Aluminium Smelting		
Friday – September 11, 2026		
Location: Hall- 2		
Session Chairpersons: Mr. Pratap Kumar Sahu, Vice Chairman (IIM, Sambalpur Chapter), Jt. President, Hirakud Smelter, Hindalco and Mr. Satyanarayan Das, Consultant- Aluminium Smelter		
Time (Hour)	Speaker	Title
09.00 - 09.15	Rudraksh Kulkarni, Calderys India Refractories Limited, Nagpur, India	Revolutionizing Aluminium Furnaces with Precast Pre- Fired Refractory Technology
09.15 - 09.30	Mohammed Afnan Shaikh & Jaydeb Behera, Hindalco Industries Ltd., Hirakud Smelter, Hirakud, India	DC Energy Reduction at 235 kA Potline
09.30 - 09.45	Arvinth Ravindran Bharat Aluminium Company, Korba, India	P0406 High Purity Metal Production Capability Enhancement
09.45 - 10.00	Amber Chandrakar Bharat Aluminium Company, Korba, India	Conversion of IAP Valves to Diaphragm Valves at Potline-2 FTP

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

10.00 - 10.15	R.N. Nandy, National Aluminium Company Limited (NALCO)	Failure Analysis of Coreless Induction Furnace Refractory Lining in Anode Roding Shop of an Aluminium Smelter
10.30-11.00	Tea/Coffee Break	
Session: Aluminium Smelting and Aluminium Alloy		
Session Chairpersons: Mr. Satyanarayan Das, Consultant- Aluminium Smelter and Dr. Amit Chatterjee, Advisor - Aluminium Industry		
11.00-11.15	Prakant Sinha Bharat Aluminium Company, Korba, India	Current creep in FY25 for volume increment in FY26
11.15 -11.30	Prasana Kumar Sahoo Niharika Sahoo Hindalco Industries Ltd., Hirakud Smelter, Hirakud, India	Reliability Improvement of Compressor House Through Online Vibration Monitoring
11.30 -11.45	Anshika Singh, Bharat Aluminium Company, Korba, India	Reduction in Specific Boron Consumption in Cast House-3 from 0.93 kg/MT to 0.76 kg/MT
11.45 -12.00	Amit Chatterjee Ex-chief R & D officer- Vedanta Ltd, Aluminium Business	Theme Paper: Aluminium Alloys beat expectations in providing smart and sustainable Engineering Solution

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

12.00 -12.15	Adwaith Gupta, Paanduv Applications Private Limited, Bareilly, India	A compressible multiphase Volume of Fluid model for aluminium powder production using inert gas atomization
12.15 -12.30	Anirban Giri, Vedanta Aluminium Metal Ltd., Jharsuguda, India	Development of Al-Si-REE alloy for high temperature application
12.30 -12.45	Dushyant Gupta, Vedanta Aluminium Metal Ltd., Jharsuguda, India	Development of MR162 Alloy Billet for Micro Tube Application
12.45 -13.00	Rashmi Sahoo, Vedanta Aluminium Metal Ltd., Jharsuguda, India	Successful journey of 10kg Primary Foundry Alloy (PFA) Production in DTA Cast House
13.00-14.00	<i>Lunch Break</i>	
Session: Aluminium Downstream		
Session Chairperson: Dr. Amit Chatterjee, Advisor - Aluminium Industry		
14.00 -14.15	Siva Kumar Y V M, MAGMA Engineering India Private Limited, India	Probabilistic Property Modelling for Reliable Casting Design and Production
14.15 -14.30	Avdhoot Desai, HARDLOCK Industry Co., Ltd. Osaka, Japan	Prevention of Fastener Loosening Using HARDLOCK Nut Technology

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

14.30 -14.45	Harsh Vardhan Dubey, Bharat Aluminium Company, Korba, India	Improving Age-Hardening Response of AA6201 Rod: Role of Mg/Si Optimization and Strontium-Assisted Intermetallic Transformation
14.45 -15.00	Ankit Dureja – Head of Customer Technical Service	Primary Billets vs. Secondary Billets: Unlocking Superior Performance in High-Value Extrusion Applications
15.15 - 16.00	Tea / Coffee	
16.00-18.00	<i>Kindly join us in the Auditorium for Concluding Session, Prize Distribution for Best Paper Presenter and High Tea</i>	

14th International Bauxite, Alumina, Aluminium Conference &
Exhibition
“Global Aluminium Outlook 2030: Secure Resources, Efficient
Energy and Value from Wastes”
September 9 -11, 2026

POST CONFERENCE PLANT VISIT		
Saturday - September 12, 2026		
Departure Location: MAYFAIR Hotel		
IBAAS Coordinator: Dr. Arun Nandi; M:9748663846		
Time (hrs)	Program	
09.00	Departure from MAYFAIR Hotel - Jharsuguda by Bus (maximum 30 delegates)	
10.00	1. Arrival at Aditya Aluminium Smelter, Lapanga	2. Arrival Vedanta Aluminium, Jharsuguda, Odisha
10.00 to 14.00	Plant Induction and Safety Briefings; Smelter visit and discussions followed by Lunch	
14.00	Departure from Lapanga to Jharsuguda	Departure from Vedanta Aluminium
15.00	Arrival at MAYFAIR Hotel Jharsuguda	