

CONFERENCE PROGRAM
10th International Hydrogen and Fuel Cell Conference (IHFC-2023)
December 3rd-5th Dec, 2023
Hotel Ramada, Varanasi, India

Sunday, 3 rd December 2023	
11:00 – 16:00 Hrs.	Registration
16:00 – 17:30 Hrs.	<p>Inaugural Session</p> <p>Welcome Address: Dr. R K Malhotra President, Hydrogen Association of India (HAI) Adjunct Professor of Practice (APoP), Indian Institute of Technology Delhi Former Director General, Federation of Indian Petroleum Industry (FIPI) Former Chairman, Indian Oil Corporation Limited</p> <p>Theme Address Prof. K K Pant Director, Indian Institute of Technology Roorkee</p> <p>MOU Signing – (i) HAI & GH2 (ii) HAI & JH2A</p> <p>Inaugural Address Dr. V K Saraswat Member, NITI Aayog, (National Institution for Transforming India), GoI Former Secretary Defence R&D Former Director General, Defence Research and Development Organization Former Chief Scientific Advisor to the Indian Minister of Defence</p> <p>Vote of Thanks Shri Alok Sharma Conference Chair, 10th IHFC and Treasurer HAI, Executive Director, Centre for High Technology, MoP&NG, Government of India</p>
17:30-18:00 Hrs	Tea Break
18:00-19:15 Hrs.	<p>CEOs/ Leadership Panel: Moving towards Hydrogen Economy</p> <p>Session Moderator : Dr R K Malhotra President, Hydrogen Association of India</p> <ol style="list-style-type: none"> 1. Mr. R K Singhal, Director (Business Development), GAIL (India) Limited 2. Mr. S Bharathan, Director (Refineries), Hindustan Petroleum Corp. Ltd. 3. Mr. Sanjay Khanna, Director (Refineries), Bharat Petroleum Corp. Ltd. 4. Mr. Rajiv Agarwal, Director (Technical), Engineers India Limited 5. Dr. Eiji Ohira, New Energy Development Organization, Japan 6. Mr. Rajesh Kohli, Executive Director, Bharat Heavy Electrical Limited
19:30 Onwards	Networking Dinner

Monday, 4th December 2023

07:30 – 08:30 Hrs.	Registration
08:30 – 09:30 Hrs.	Panel – I: Hydrogen Production – Grey, Blue to Green Moderator & Chair: Sh. Alok Sharma, Executive Director, CHT, MoP&NG, GoI <ol style="list-style-type: none">1. Mr. Sumitro Chakraborti, Ankur Scientific Energy Technologies Pvt. Ltd.2. Mr. Sanjiv Ratan, Zone Flow Reactor Technologies, USA3. Prof. S Dasappa, IISc Bangalore4. Mr. Nishaanth Balashanmugam, Green Hydrogen Organisation (GH2)5. Mr. Utkarsh Mehta, ACME Cleantech Solutions Private Limited6. Mr. T S Venkataraman, Esvin Advanced Technologies Limited7. Mr. Ravi, ONGC Energy Centre
09:30 – 09:45 Hrs.	Q&A / Interaction with Audience
09:45 – 10:15 Hrs.	Tea Break
10:15 – 11:15 Hrs.	Panel-II: Hydrogen – Storage, Supply & Distribution and Infrastructure Session Moderator: Sh. Bharat Newalkar, Bharat Petroleum Corporation Ltd. <ol style="list-style-type: none">1. Mr. Savir Julka, Director, INOX INDIA LIMITED2. Mr. Sandeep Bhasin, Uttam Cylinders Pvt. Ltd.3. Dr. Sumanth Addagarla, Virayaa Green Energy4. Mr. Rama Subramanian, High Energy Batteries5. Mr. Shishir Agarwal, Shigan Nexgen Technologies LLP6. Dr. Renny A M, Bharat Petroleum Corporation Limited
11:15 – 11:30 Hrs.	Q&A / Interaction with Audience
11:30 – 12:30 Hrs.	Panel III: Hydrogen Applications – Fuel Cell & H2IC Moderator & Chair: Sh. K K Gandhi, Secretary, Hydrogen Association of India <ol style="list-style-type: none">1. Mr. Kazuki Yamamura, Japan Hydrogen Association (JH2A)2. Mr. Sudhir Pathak, Hero Future Energies3. Dr. Anuradda Ganesh, Cummins India Limited4. Mr. Siddarth Mayur, h2e Power Systems Pvt. Ltd.5. Mr. R T Desai, Horiba India6. Mr. Vipul Shah, Bosch Limited7. Mr. Sachin Chugh, IndianOil R&D Centre
12:30 – 12:45 Hrs.	Q&A / Interaction with Audience
12:45– 13:30 Hrs.	LUNCH
13:30 – 14:30 Hrs.	Panel IV: Safety Regulatory and Policy Issues to promote H2 Economy Moderator & Chair: Sh. J P Gupta, MD, Greenstat Hydrogen India Pvt Ltd. <ol style="list-style-type: none">1. Mr. V K Mishra, PESO, Government of India2. Mr. George Anthony, Bosch Limited3. Mr. Vinayak Marathe, Phillip Townsend Associates, Inc.4. Mr. P K Banerjee, Society of Indian Automotive Manufacturers5. Mr. N K Pande, Joint Director, OISD6. Mr. Makrand Lad, Volvo Group Trucks Technology
14:30 – 14:45 Hrs	Q&A / Interaction with Audience
14:45 – 15:00 Hrs.	Tea Break
15:00 – 16:00 Hrs.	Special Overseas Session: British High Commission
16:15 Hrs.	Ganga Aarti on Cruise with High Tea for IHFC 2023 Participants*

Tuesday, 5th December 2023

09:00 – 10:15 Hrs.	Technical Session – I Chairperson: Sh. Debasis Bhattacharyya, Executive Director, IndianOil Oral Presentations: <ol style="list-style-type: none">1. Mr. Sanjiv Ratan, ZoneFlow Reactor Technologies, LLC2. Mr. K C Vora, Professor Emeritus, COEP3. Dr. S Mishra, ICT Bhubaneswar4. Dr. Bharati Panigrahy, HP Green R&D5. Prof. Subrata Panda, Indian Institute of Technology BHU6. Mr. Sunil Gage, HORIBA India
10:15 – 10:45 Hrs.	Tea Break
10:45 – 12:15 Hrs.	Technical Session – II Chairperson: Sh. Debasis Bhattacharyya, Executive Director, IndianOil Oral Presentations: <ol style="list-style-type: none">1. Ms. Priyanka Sahasrabudhe, Ador Powertron2. Mr. Vinayak Marathe, Phillips Townsends Associates Inc.3. Mr. Ramachandra Gite, AVL India4. Mr. Navneet Bhatia, Universal Hydrogen5. Mr. Romesh Sharma, Nuberg Engineering6. Mr. Mohammed Idirish Ansari, VGE Systems
12:15 – 1300 Hrs.	Closing Session Special Address Prize Distribution Vote of Thanks
13:00 Hrs.	Lunch

- For accompanying persons and spouse Rs.500/- to be deposited at registration counter and also take your Ganga Aarti Coupon

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<p>Panel Presentation with Display</p>	<ol style="list-style-type: none"> 1. Performance comparison of Plate and Membrane Humidifier for Proton Exchange Membrane (PEM) Fuel Cell Stacks P Venkata Varaha Mahadesh - Virayaa Green Energy Systems Pvt Ltd 2. Long Duration GH₂ Energy Storage Debashish Dutta, Bhabha Atomic Research Centre 3. Hydrogen Jet Injection in Cross Flow Configuration Ankur Kumar and Anubhav Sinha, Indian Institute of Technology BHU 4. PEM Water Electrolysis Debashish Dutta, Bhabha Atomic Research Centre 5. Aqueous Phase Reforming of Methanol over Hydrotalcite Catalysts: A Novel Approach to Hydrogen Generation Meeta Sharma, Indian Oil Corporation Limited 6. The disruption on the horizon: Green Hydrogen in India and its future Praseed Sahu – Gas Authority of India Limited (GAIL) 7. Design, Development and Demonstration of Metal Hydride based Hydrogen Storage and Compression System through simulation and experimentation Rahul Garg - Bharat Petroleum Corporation Limited (BPCL) 8. Performance Evaluation of High Temperature Polymer Electrolyte Membrane Fuel Cell M. Ashwin – Indian Institute of Technology Hyderabad (IITH) 9. Analytical approach in favor of Fuel Cell Grade Hydrogen towards National Green Hydrogen Mission Dheer Singh, Indian Oil Corporation Limited, Research & Development Centre (IOC R&D Centre) 10. Experimental study on effect of HCNG on the performance and emissions of an HD Gas Engine Sanjeev Kr. Singh, Indian Oil Corporation Limited, Research & Development Centre (IOC R&D Centre) 11. Hydrogen Internal Combustion Engine (H₂ICE) Activities at IndianOil: A Step Towards Decarburization Sauhard Singh, Indian Oil Corporation Limited, Research & Development Centre (IOC R&D Centre) 12. Futuristic Green Hydrogen from Biomass: Review of Advanced Technology & Catalysis Dr. Ritesh Mittal, Engineers India Limited 13. Pilot scale biohydrogen production from 1st and next generation feed: Co-production of high value biomolecules in a biorefinery approach Dr. Sanjukta Subudhi, The Energy and Resources Institute (TERI)
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