

CONFERENCE PROGRAM
9th International Hydrogen and Fuel Cell Conference (IHFC-2022)
December 4th–6th, 2022, The Lalit New Delhi, India

Sunday, 4th December 2022 Regal Hall, The Lalit New Delhi	
16:00 – 19:00 Hrs.	Registration
19:00 – 19:30 Hrs.	Guest Lecture Shri Amar Nath, Additional Secretary, Department of Administrative Reforms and Public Grievances, Ministry of Personnel, Public Grievances and Pensions, Government of India
19:30 Onwards	Networking Dinner
Monday, 5th December 2022 Crystal Ball Room, The Lalit New Delhi	
08:30 – 09:30 Hrs.	Registration
09:30 – 10:30 Hrs.	Inaugural Session Welcome Address Dr. R K Malhotra President, Hydrogen Association of India (HAI) Professor of Practice (Adjunct), Indian Institute of Technology Delhi Former Director General, Federation of Indian Petroleum Industry (FIPI) Former Chairman & Director (R&D), Indian Oil Corporation Limited (IOCL) Theme Address Dr. SSV Ramakumar Vice-President, Hydrogen Association of India Director (R&D), Indian Oil Corporation Limited Address by Guest of Honour Shri Pankaj Jain Secretary, Ministry of Petroleum & Natural Gas, Government of India Special Address on International Perspective Mr. Neil Gray Member of the Scottish Parliament Scottish Government's Minister for Culture, Europe and International Development Film on H2 in India Inaugural Address Dr. V K Saraswat Member, NITI Aayog, (National Institution for Transforming India), Government of India Former Secretary Defence R&D Former Director General, Defence Research and Development Organization Former Chief Scientific Advisor to the Indian Minister of Defence Vote of Thanks Shri Alok Sharma Organizing Secretary, 9 th International Hydrogen and Fuel Cell Conference (IHFC-2022) Executive Director, Centre for High Technology, Ministry of Petroleum & Natural Gas (GoI)
10:30 – 10:50 Hrs.	Tea Break

10:50 – 11:10 Hrs.	<p>Plenary Lecture Mr. Rajendra Petkar, President & Chief Technical Officer, TATA Motors</p>
11:10 – 12:00 Hrs.	<p>Leadership Panel – Moving towards Hydrogen Economy Moderator & Chair: Dr. SSV Ramakumar, Director (R&D), IndianOil</p> <ol style="list-style-type: none"> 1. Mr. Rajesh Kumar Srivastava, Chairman & Managing Director, ONGC 2. Mr. S Bharathan, Director – Refineries, HPCL 3. Mr. Sanjay Khanna, Director – Refineries, BPCL 4. Mr. Peeyush Mohit, Chief Operating Officer, O2 Power 5. Mr. C V Raman, Maruti Suzuki India Limited
12:00 – 12:45 Hrs.	<p>Special Session: Women Working for Hydrogen Economy Moderator & Chair: Ms. Vartika Shukla, Chairperson & Managing Director, Engineers India Limited</p> <ol style="list-style-type: none"> 1. Ms. Sukla Mistry, Indian Oil Corporation Limited 2. Ms. Pamela Tikku, International Centre for Automotive Technology 3. Ms. Prachi Gupta, Arup, Hong Kong 4. Dr. Shivani Sharma, Hitachi Energy
12:45 – 13:45 Hrs.	<p>Panel – I: Hydrogen Production: Let’s Discuss Other Colours of Hydrogen Moderator & Chair: Mr Alok Sharma, Executive Director, Centre for High Tech., MoP&NG</p> <ol style="list-style-type: none"> 1. Mr. Eiji Ohira, New Energy & Industrial Technology Development, Japan 2. Mr. Ashok Chaudhari, Ankur Scientific Energy Technologies Pvt. Ltd. 3. Mr. Sanjiv Ratan, Zone Flow Reactor Technologies, USA 4. Prof. Shantanu Roy, Indian Institute of Technology Delhi 5. Mr. M Venkatesh, Larsen & Toubro Limited
13:45 – 14:30 Hrs.	Lunch
14:30 – 15:30 Hrs.	<p>Panel – II: Hydrogen Production: Green Hydrogen Moderator & Chair: Dr. J P Gupta, Managing Director, Greenstat Hydrogen India Pvt.</p> <ol style="list-style-type: none"> 1. Mr. Amresh Mahajan, O2 Power 2. Mr. Mark Townsend, Arup 3. Dr. Martin Lux, KFW Development Bank 4. Mr. Sudhir Pathak, Hero Future Energies 5. Mr. Vivek Prasad, Enfinity Global
15:30 – 16:30 Hrs.	<p>Special Overseas Session - I (Australia) Moderator & Chair: Ms. Sarah Storey, Deputy High Commissioner, Australian High Commission</p> <ol style="list-style-type: none"> 1. Mr. Alexander Clavien, LAVO Hydrogen 2. Ms. Malini Dutt, Investment NSW 3. Prof. Gursel Alici, University of Wollongong
16:30 – 16:45 Hrs.	Tea Break
16:45 – 17:30 Hrs.	<p>Special Panel on Hydrogen for De-carbonization Moderator & Chair: Dr. Anjan Ray, Director, CSIR- Indian Institute of Petroleum Dehradun</p> <ol style="list-style-type: none"> 1. Mr. Sujan Hazra, TATA Steel 2. Mr. Abhay Bakre, Bureau of Energy Efficiency (BEE) 3. Mr. Sangeet Jain, LanzaTech

17:30 – 18:30 Hrs.	<p>Special Overseas Session - II (United Kingdom) Moderator: Mr. Milind Godbole, Senior Adviser (Energy) and India Hydrogen Lead – Department for International Trade, British Dy. High Commission</p> <ol style="list-style-type: none"> 1. Nilay Ball, LRQA (Session Chair) 2. Mr. Octavian Partenie, Howden, United Kingdom 3. Mr. Nick Ash, Arup, United Kingdom 4. Mr. Tushar Agarwal, Siemens Ltd. 5. Mr. Arun Saligrama, Nasmyth Group Ltd, United Kingdom 6. Mr. Sanjay Jain, Bladon Micro Turbine 7. Mr. S K Mongia, Strongfield Technologies Ltd., United Kingdom
18:30 – 19:30 Hrs.	Break
19:30 Onwards	<p>Guest Lecture by Dr. Anil Kumar Jain Former Secretary, Ministry of Coal, Government of India Former Special Secretary Environment and Adviser (Energy), NITI Aayog</p> <p>Gala Dinner</p>
<p>Tuesday, 6th December 2022 Crystal Ball Room, The Lalit New Delhi</p>	
09:30 – 10:30 Hrs.	<p>Panel-III: Hydrogen – Storage, Supply and Distribution Moderator & Chair: Sh. K.K. Gandhi, Secretary, Hydrogen Association of India</p> <ol style="list-style-type: none"> 1. Mr. Jean-Christophe Poussin, FIBA Technologies Inc., USA 2. Prof. Swati Neogi, Indian Institute of Technology Kharagpur 3. Mr. James Khong, Galaxy FCT, Malaysia 4. Dr. Neel Sirosh, Catec, USA 5. Prof. Pratibha Sharma, Indian Institute of Technology Bombay 6. Mr. Sanjay Pandita, Reliance Jio BP
10:30 – 11:30 Hrs.	<p>Panel IV: Hydrogen Application for Mobility Moderator & Chair: Sh. P K Banerjee, Executive Director, Society of Indian Automobile Manufacturers</p> <ol style="list-style-type: none"> 1. Mr. Sadagopan Krishnan, Ashok Leyland 2. Mr. Tapan Sahoo, Maruti Suzuki India Limited 3. Prof. K A Subramanian, Indian Institute of Technology Delhi 4. Mr. Rolf Behrndt, GIZ Germany
11:30 – 11:45 Hrs.	Tea Break
11:45 – 12:45 Hrs.	<p>Panel V: Fuel Cell Moderator & Chair: Mr. Sturle Pedersen, Chair of the Board, Greenstat Hydrogen India Pvt. Ltd.</p> <ol style="list-style-type: none"> 1. Mr. Thorsten HickMann, Eisenhuth GmbH & Co. KG 2. Mr. Devon Leroux, Greenlight Innovation 3. Mr. Siddarth Mayur, h2e Power Systems Pvt. Ltd. 4. Prof. Atul Bhargav, Indian institute of Technology Gandhinagar 5. Mr. Kedar Murthy, Nuvera Fuel Cells, USA

12:45 – 13:45 Hrs.	<p>Panel VI: Safety, Regulatory and Policy Issues to promote H2 Economy Moderator & Chair: Dr. Chitra Rajagopal, Director of CoE, Indian Institute of Technology Delhi</p> <ol style="list-style-type: none"> 1. Dr. R Venugopal, Petroleum & Explosive Safety Organization (PESO) 2. Mr. Rajeev Singh, Bureau of Indian Standards (BIS) 3. Mr. Tobias Winter, Indo German Energy Forum 4. Mr. Ranjan Srivastava, Oil Industry Safety Directorate (OISD) 5. Ms. Ankita Kumari / Mr. Mark Neller (VC), Arup, Singapore
13:45 – 14:30 Hrs.	<p>Lunch</p>
14:30 – 15:45 Hrs.	<p>Technical Session – I Session Chair and Keynote Presentation : Dr. Sanjiv Ratan, Director, ZoneFlow Reactor Technologies, USA</p> <p>Oral Presentations:</p> <ol style="list-style-type: none"> 1. Dr. Vinayak Marathe, Phillips Townsends Associates Inc. 2. Prof. Prakash D. Vaidya, Institute of Chemical Technology, Mumbai 3. Prof. N K Singh, University of Lucknow 4. Prof. Subrata Panda, Indian Institute Technology (IIT) Varanasi 5. Mr. Saurabh Mohan Saxena, AHODS Technologies 6. Mr. A M Renny, Bharat Petroleum Corporation Limited
15:45 – 16:00 Hrs.	<p>Tea Break</p>
16:00 – 17:30 Hrs.	<p>Technical Session – II Session Chair & Keynote Presentation: Dr. Umish Srivastva, Chief General Manager, Indian Oil Corporation Limited</p> <p>Oral Presentations:</p> <ol style="list-style-type: none"> 1. Mr. Gernot Hacker, AVL List GmbH, Graz 2. Mr. Savir Julka, INOX India Limited 3. Mr. Suni Gage, HORIBA India 4. Dr. S A Srinivasan, High Energy Batteries Limited 5. Mr. Soumik Banerjee, Mitsubishi Heavy Industries (MHI) 6. Mr. Sunil Kumar, Thermo Fisher Scientific India Pvt. Ltd.
17:30 – 18:15 Hrs.	<p><u>Valedictory Session</u> Welcome by Dr R K Malhotra, President, Hydrogen Association of India Special Address by Mr. Sunil Kumar Joint Secretary (Refineries), Ministry of Petroleum & Natural Gas, Government of India Valedictory Address by Padma Bhushan Dr. Kirit Shantilal Parikh Chairman, Integrated Research and Action for Development (IRADe), New Delhi Former Member, Planning Commission, Government of India Former (Founder) Director (Vice Chancellor), Indira Gandhi Institute of Development Research (IGIDR)</p>

Posters Presentations

1	"A Techno-Economic perspective of Hydrogen Delivery Infrastructure and Hydrogen Production by Natural Gas with Production by Natural Gas with and without Carbon Sequestration" Indian	Indian Institute of Technology Ropar	Sukriti Sharma
2	Fabrication and Electrochemical Evaluation of Fuel Flexible Electrode supported Gd doped La ₂ Ce ₂ O ₇ electrolyte based SOFCs	CSIR—Institute of Minerals and Materials Technology, Bhubaneswar	Bishnu Choudhary, Laxmidhar Besra, Shahid Anwar
3	Montmorillonite nano clay incorporated polysulfone-based nanocomposite anion exchange membranes for fuel cell application	Indian Institute of Technology Roorkee	Amit Suhag, Tushar Kanti Maiti, Sujay Chattopadhyay
4	Waste to hydrogen approach: Simultaneous hexavalent chromium removal and hydrogen evolution using aluminium oxidation	Indian Institute of Technology Madras	G. Anusha, Divya Priya, Nambi I M
5	Prospects and Challenges of Green Hydrogen Economy in India	Research & Development. Bharat Petroleum Corporation Limited	Rahul Garg
6	Hydrogen based IC engines: an overview on recent developments and challenges	HP Green R&D Centre, Hindustan Petroleum Corporation Limited	M. Muralidharan
7	A Review on Fuel Cell Product Development and Systematic Approach for Commercial Vehicle Applications	Technical Centre, Ashok Leyland	Dr. Karthikeyan Subramanian
8	Proton Exchange Membrane Fuel Cell (PEMFC) Electrocatalyst	Indian Institute of Science (IISc) Bangalore	Adarsh Ajith Naik
9	Development Hydrogen Testing Infrastructure	AVL India Pvt. Ltd.	Kailash Godara
10	Our approach towards everlasting end to end hydrogen solutions	Jabroyd India Pvt. Ltd.	Dr. Preeti Chugh
11	Fuel Cell Stack Development	Shree Harshi Infoway	Vamsi Krishna
12	H ₂ Infrastructure Development	Nuberg Engineering Ltd	Arun Tyagi