

Conference Agenda
7th International Hydrogen and Fuel Cell Conference (IHFC-2018)
December 9–11, 2018
Fairfield by Marriott, Jodhpur, Rajasthan, India

Sunday, 9th December 2018

14:00 – 16:00 Hrs.	REGISTRATION
16:00 – 17:15 Hrs.	<p><u>Inaugural Session</u></p> <ul style="list-style-type: none"> • Welcome Address: Dr. R. K. Malhotra President, Hydrogen Association of India (HAI) Former Director (R&D), Indian Oil Corporation Limited (IOCL) & Director General, Federation of Indian Petroleum Industry (FIPI) • Special Address: Dr. S S V Ramakumar Director (R&D) Indian Oil Corporation Limited <ul style="list-style-type: none"> ▪ Presentation of Prof. T N Veziroglu IAHE Lifetime Achievement Award & Acceptance Speech by the Awardee • Inaugural Address: Dr. V K Saraswat, Former Secretary Defence R&D Member, NITI Aayog (National Institution for Transforming India), Government of India • Felicitation of Dignitaries • Vote of Thanks: Shri K. K. Gandhi Secretary, Hydrogen Association of India (HAI) Former Executive Director, SIAM & Convener, Centre for Auto Policy & Research
17:15 – 18:00 Hrs.	TEA BREAK
18:00 – 19:00 Hrs.	<p><u>CEO Panel on Partnerships for a Sustainable Hydrogen Energy Economy</u> Moderator : Dr R.K. Malhotra</p> <ol style="list-style-type: none"> 1. Mr. E S Ranganathan, Managing Director Indraprastha Gas Limited 2. Dr. M K Jhala, Joint Chief Controller of Explosives Petroleum & Explosives Safety Organisation 3. Dr. Rashmi Urdhwareshe, Director Automotive Research Association of India (ARAI) 4. Mr. Ross Bailey, CEO Greenlight Innovation (Canada) 5. Ms. Michelle Boos, CEO Magnum – Korea 6. Ms. Grace Quan, CEO Hydrogen in Motion
19:30 Onwards	<u>Felicitation of Sponsors & Networking Dinner</u>

Date: Monday, 10th December, 2018

09:00 – 10:00 Hrs.	Session-I: Hydrogen Availability (Supply & Production) Moderator: Dr. B Bhargava, ONGC Energy Centre <ol style="list-style-type: none">1. Mr. Alakh Prasad, Quadrogen Power Systems Inc. (Canada)2. Mr. Tom Joseph, Bethlehem Hydrogen (USA)3. Dr. Sanjiv Ratan, ZoneFlow Reactor Technologies LLC (USA)4. Mr. Jasvant Singh, Haldor Topsoe India Pvt. Ltd.5. Mr. David Bow, Nel Hydrogen (USA)
10:00 - 10:30 Hrs.	TEA BREAK
10:30 – 11:30 Hrs.	Session-II: Hydrogen Storage & Transportation Moderator: Mr. P. K. Banerjee, Executive Director, SIAM <ol style="list-style-type: none">1. Mr. Lonnie Smith, Luxfer (Canada)2. Dr. Michael Felderhoff, Max Planck Institute for Chemical Energy Conversion3. Mr. Mark Canon, Hydrogen in Motion (Canada)4. Dr. Takeo Yamaguchi, Tokyo Institute of Technology (Japan)5. Mr. Saurabh M Saxena, Ahods Technologies India Pvt. Ltd.
11:30 - 13:00 Hrs.	Session-III: Hydrogen in Stationery & Mobile Applications Moderator: Mr. Mahesh Murthy, Tata Sons Pvt. Ltd. <ol style="list-style-type: none">1. Dr. Hubert Mäncher, Magnum (Germany)2. Dr. Erik Kjeang, Simon Fraser University (Canada)3. Dr. K A Subramanian, Indian Institute of Technology Delhi4. Mr. Siddharth R. Mayur, H2e Power5. Dr. N Rajalakshmi, Centre for Fuel Cell Technology6. Dr. S J Dhingar, TVS Motors7. Dr. Sundara Ramaprabhu, Indian Institute of Technology Madras
13:00 - 13:45 Hrs.	LUNCH BREAK
13:45 - 14:45 Hrs.	Session IV: Regulatory and Policy Levers to Promote H2 Economy Moderator: Mr. Vikram Gulati, Country Head & Vice President, Toyota Kirloskar Motors <ol style="list-style-type: none">1. Dr. Paulo Emílio de Miranda, Coppe - Federal University of Rio de Janeiro2. Mr. Rajiv Sikka, Indraprastha Gas Limited3. Mr. Ross Bailey, Greenlight Innovation (Canada)4. Mr. Tom Joseph, Bethlehem Hydrogen (USA)5. Mr. Sunny Minhas, The Canadian Hydrogen Fuel Cell Association
14:45 - 15:15 Hrs.	TEA BREAK
15:15 – 16:15 Hrs.	Session V: Country / Company Perspectives: Sustainable Hydrogen Economy Moderator: Mr. N. R. Raje, Former Director (R&D), IOCL & Director, Industrial Development Services <ol style="list-style-type: none">1. Greenlight Innovation, Canada2. Hydrogen in Motion, Canada3. Nel Hydrogen, USA4. ONGC Energy Centre, India
16:15 – 17:30 Hrs	Technical Session – I Keynote Presentation: <ul style="list-style-type: none">▪ Martin Skov Skjøth-Rasmussen, Haldor Topsoe Oral Presentations:

	<ol style="list-style-type: none"> 1. Dr. Sanjiv Ratan, ZoneFlow Reactor Technologies, LLC Gearing for future in Hydrogen Generation: Innovative ZoneFlow® Structured Catalytic Reactors for Steam Reforming 2. Prof. Michael Felderhoff, Max Planck Institute for Chemical Energy Conversion Recent developments in heat storage applications with metal hydride compounds 3. Prof. Erik Kjeang, Simon Fraser University X-ray visualization of fuel cell degradation
19:00 Hrs.	Cultural Program & Networking Dinner Ajit Bhawan (India's First Heritage Hotel) Circuit House Road, Jodhpur, Rajasthan 342006
<u>Date: Tuesday, 11th December 2018</u>	
09:00 – 10:30 Hrs.	Technical Session – II Chairperson: Sh. K. K. Gandhi, Centre for Auto Policy & Research Keynote Presentation: <ul style="list-style-type: none"> ▪ Dr. Takeo Yamaguchi, Tokyo Institute of Technology Oral Presentations: <ol style="list-style-type: none"> 1. Prof. P. D. Vaidya, Indian Institute of Chemical Technology Butanol Reforming for Hydrogen Production 2. Prof. N. K. Singh, University of Lucknow Samarium Nickelates Electrocatalyst: Synthesis and electrocatalytic properties towards alkaline water electrolysis 3. Dr. Alakh Prasad, Quadrogen Technology, Canada Renewable Natural Gas and Green Hydrogen from Biogas 4. Prof. P C Ghosh, Indian Institute of Technology Mumbai Thermal Analysis of a Scaled up Coolant Flow Field Used in Automotive PEMFCs
10:30 – 11:00 Hrs.	TEA BREAK
11:00 – 12:15 Hrs.	Technical Session – III Chairperson: Dr. Sanjeev Katti, OSD-ONGC Energy Centre Keynote Presentation: <ul style="list-style-type: none"> ▪ Mr. Raymond Schmid, Nel Hydrogen Oral Presentations: <ol style="list-style-type: none"> 1. Prof. Sunil K. Maity, Indian Institute of Technology Hyderabad Mesoporous Ni-CeO₂-ZrO₂-SiO₂ composite catalyst for steam reforming of n-butanol 2. Mr. Sachin Chugh, Indian Oil Corporation Limited The Energy Conundrum – Exploring Multiple Hydrogen Pathways 3. Prof. Md. Yusuf Ansari, Aligarh Muslim University Preparation and characterization of sulfonated styrene pentablock copolymer (Nexar™) membrane for PEM fuel cell
12:15 Hrs.	Vote of Thanks & Awards <ol style="list-style-type: none"> 1. Hydrogen Quiz 2. Poster Presenters
12:30 Hrs.	Conference Ends with Lunch

List of Posters:

- 1. Priyanka Ghosh**
Portable, smart, highly proton conductive gel paste electrolyte for fuel cell application
- 2. Manoj Dahake**
Experimental Investigation of Performance and Emissions of Single Cylinder Diesel Engine using HHO and Biodiesel Blends
- 3. Rakesh N.**
Performance analysis of an electrolyte supported SOFC (Solid Oxide Fuel Cell) button cell fuelled by hydrogen
- 4. S. Padmapriya**
Hydrogen exhaling Fuel cell – proof of concept using polyaniline electrodes
- 5. Shyam Tekade**
Intensification of Hydrogen Generation through Water Splitting Reaction Using Waste Aluminum in Presence of Gallium
- 6. Rudranath Sarkhel**
Availability and Cost of Hydrogen from Chlor-alkali Units for Transport Applications in India and Vehicles that can be supported using it
- 7. Sauhard Singh**
Setting up of Genset Testing Facility for Hydrogen Application
- 8. Khantesh Agarwal**
Inkjet printed electrocatalysts for PEM fuel cells
- 9. Sweta Munshi**
Potassium magnesium mixed metal amidoborane for future fuel cell application
- 10. VenuGopal Akula**
Hydrogen Production Technologies
- 11. Subhash Rajsekhar**
Hydrogen Production through Photo-electrochemical water splitting
- 12. Paran Sarma**
Controlled use of mitigation techniques for the application of reformat hydrogen in polymer electrolyte fuel cells
- 13. Anand Sagar**
A computational analysis on the operational behaviour of open-cathode PEMFCs