



8th International Hydrogen and Fuel Cell Conference (IHFC-2019)
December 8th-10th, 2019
 Ramada Plaza by Wyndham Palm Grove, Juhu - Mumbai, India
Conference Program

Sunday, 8th December 2019

15:00 – 16:00 Hrs.	REGISTRATION
16:00 – 17:15 Hrs.	Inaugural Session <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 HY CONTEST 2019 Award ▪ To be announced by Mr. Alok Sharma, Organizing Secretary – IHFC 2019 & Treasurer, HAI • Inaugural Address: Dr. Anil Kakodkar Former Chairman–Atomic Energy Commission of India (AECI) Former Director–Bhabha Atomic Research Centre (BARC) • Felicitation of Dignitaries • Vote of Thanks: Shri K K Gandhi Secretary, Hydrogen Association of India (HAI) Former Executive Director, SIAM & Consultant, TVS Group
17:15– 17:45 Hrs.	TEA BREAK
17:45 – 18:45 Hrs.	CEO Panel on Partnerships for a Sustainable Hydrogen Energy Economy Moderator: Mr. Santosh Kamath - KPMG <ol style="list-style-type: none"> 1. Dr. S S V Ramakumar, Director (R&D) Indian Oil Corporation Limited 2. Mr. Vikram Gulati, Country Head & Vice President Toyota Kirloskar Motor Pvt. Ltd. 3. Mr. E S Ranganathan, Managing Director Indraprastha Gas Limited 4. Mr. Ross Bailey, CEO Greenlight Innovation (Canada) 5. Mr. Sturle Harald Pedersen, Chairman Greenstat Hydrogen Asia 6. Ms. Grace Quan, CEO Hydrogen in Motion
18:45 – 19:00 Hrs.	Inauguration of Posters & Exhibition Stall
19:30 Onwards	Networking Dinner

Date: Monday, 9th December 2019

09:00 – 10:15 Hrs.	Session-I: Hydrogen Availability (Supply & Production) Moderator: Dr. Sanjeev Katti – DG ONGC Energy Centre <ol style="list-style-type: none">1. Mr. Tom Joseph, Bethlehem Hydrogen (USA)2. Dr. Sanjiv Ratan, ZoneFlow Reactor Technologies LLC (USA)3. Mr. Jasvant Singh, Haldor Topsoe India Pvt. Ltd.4. Mr. Raymond Schmid, Nel Hydrogen (USA)5. Mr. Ajay Singh, Global Energy Development (Tokyo)6. Mr. Sukhmeet Singh, A2P Energy
10:15 – 11:00 Hrs.	Special Session - The Canadian Hydrogen & Fuel Cell Association <ol style="list-style-type: none">1. Mr. Ross Bailey, CEO, Green Light Innovation2. Ms. Grace Quan, CEO, Hydrogen In Motion Inc.3. Dr. Steven Holdcroft, Professor, Simon Fraser University4. Mr. Sunny Minhas, Global Business Dev. Manager, Intertek Testing
11:00 - 11:25Hrs.	TEA BREAK
11:25-11:30	Special Address by Consulate, Switzerland
11:30 – 12:30 Hrs.	Session-II: Hydrogen Storage & Transportation Moderator: Sh. K K Gandhi, Hydrogen Association of India <ol style="list-style-type: none">1. Mr. Sandeep Bhasin, Luxfer Uttam (India)2. Dr. Daishu Hara, NEDO (Japan)3. Mr. Mark Cannon, Hydrogen In Motion (Canada)4. Dr. Andreas Züttel, EPFL (Switzerland)5. Dr. Swati Neogi, Indian Institute of Technology, Kharagpur6. Mr. Rajiv Sikka, IndianOil-Adani Gas Pvt. Ltd.7. Mr. Ravi Subramaniam, Air Products and Chemicals Inc.
12:30 - 13:30 Hrs.	Session-III: Hydrogen in Stationery & Mobile Applications Moderator: Sh. P K Banerjee, Society of Indian Automobile Manufacturers <ol style="list-style-type: none">1. Mr. Jitendra Goyal, Toyota Kirloskar Motor Pvt. Ltd.2. Mr. Mahesh Murthy, TATA Motors3. Dr. K A Subramanian, Indian Institute of Technology Delhi4. Mr. Siddharth R. Mayur, H2e Power5. Mr. Neelkanth V. Marathe, Automotive Research Association of India
13:30 - 14:30 Hrs.	LUNCH BREAK
14:30 - 15:45 Hrs.	Session IV: Regulatory and Policy Levers to Promote H2 Economy Moderator: Dr. R K Malhotra, Federation of Indian Petroleum Industry <ol style="list-style-type: none">1. Mr. P. Kumar, Petroleum & Explosives Safety Organization2. Mr. Ross Bailey, CEO, Greenlight Innovation3. Mr. Tom Joseph, Bethlehem Hydrogen (USA)4. Mr. Chandrashekhar Chincholkar, KPIT Technologies5. Mr. Sunny Minhas, Intertek Testing (Canada)
15:45 - 16:15 Hrs.	TEA BREAK
16:15 – 17: 15Hrs.	Session V: Country / Company Perspectives: Sustainable Hydrogen Economy Moderator: Mr. Alok Sharma, Indian Oil Corporation Limited <ol style="list-style-type: none">1. Mr. Devender Singh - Exergiphy, Australia2. Dr. D Parvatalu - ONGC Energy Centre, India3. Mr. Rolf Huber - H2 Energy AG, Switzerland4. Mr. Raymond Schmid - Nel Hydrogen, USA

Date: Tuesday, 10th December 2019

09:00 – 10:40 Hrs.	Technical Session-I Session Chair and Keynote Presentation: Mr. Ross Bailey , Greenlight Innovation (Canada) Fuel Cell for Heavy Duty Applications Oral Presentations: <ol style="list-style-type: none">Mr. Mahesh Murthy, TATA Motors Fuel Cell Journey: Opportunities, Challenges and Perspectives to AchieveMr. Edward C. Heydorn, Air Products and Chemicals Inc. General Presentation on HydrogenProf. Swati Neogi, Indian Institute of Technology Kharagpur Theoretical analysis of design of Type 3 Composite CylinderDr. Surendra Saxena, University of Florida (USA) Co-production of Green Hydrogen and MetalDr. P K Patro, Bhabha Atomic Research Centre (BARC) Materials issues in the hydrogen production by HTSE
10:40 – 11:00 Hrs.	TEA BREAK
11:00 – 12:30 Hrs.	Technical Session-II Session Chair & Keynote Presentation: Dr. Sanjiv Ratan , ZoneFlow Reactor Technologies LLC (USA) Structured Catalyst System-Gearing for the Future in Steam Reforming Oral Presentations: <ol style="list-style-type: none">Prof. Akula Venugopal, Indian Institute of Chemical Technology (IICT) Hydrogen production by photocatalytic H₂O splittingProf. N K Singh, University of Lucknow Water electrolysis by polyvinylpyrrolidone sol-gel routeDr. P. D. Vaidya, Institute of Chemical Technology Mumbai H₂ production via sorption-enhanced reforming processesDr. R. K. Lenka, Bhabha Atomic Research Centre Microstructure development and performance evaluation of solid oxide cellMr. Sachin Chugh, Indian Oil Corporation Limited (R&D Centre) Strategizing LT-PEM FC operation on refinery hydrogen
Poster Paper Presentation: <ul style="list-style-type: none">A S Ramadhas: Vehicle Testing Fuels & Emissions Department, Indian Oil Corporation LimitedAmit Kumar Chaurasia: Indian Institute of Technology RoorkeeAshutosh Garg: Indian Institute of Technology RoparBishnu Choudhary: CSIR-Institute of Minerals and Materials Technology BhubaneswarKhantesh Aggrawal: Indian Institute of Science, BangaloreS Anil Kumar: Department of Chemical Engineering, BITS PilaniSujeesh S: Bhabha Atomic Research CentreSunil Sachdev: Solar Energy, Indian Oil Corporation Limited	
12:30 -1245 Hrs.	Vote of Thanks & Awards Hydrogen Quiz & Felicitation of Poster Presenters
12.45 Hrs.	Conference Ends with Lunch