

# 3RD INTERNATIONAL HYDROGEN & FUEL CELL CONFERENCE



**Hydrogen Association of India**

WITH SUPPORT FROM INTERNATIONAL JOURNAL OF HYDROGEN ENERGY (IJHE), OFFICIAL JOURNAL OF THE IAHE, USA

Abstracts Invited & last date of submission is Sept.30th, 2014

**Date:**  
7<sup>th</sup> – 9<sup>th</sup> December 2014

**Venue:**  
The Lalit, Laxmi villas palace  
Udaipur Opposite Fateh  
Sagar Lake, Udaipur, India

**Registration & Fees:**  
From 1st September 2014  
Rs.12000 /- (US \$250)  
Upto 31st August 2014  
Early bird Rates: Rs.9000/- (US \$200)

**Note:**  
Limited Seats only Allotment on "First Come First Serve" basis

## CONTACT POINT

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**Note:** Pre-registration information is available at contact point. Program details and highlights will be issued soon.

**Please pay by crossed Cheque/DD drawn in favor of Hydrogen Association of India - A/c 31132125420**  
Payable at Faridabad, For Electronic Transfer : **State Bank of India**, IOC Complex, Faridabad Branch Code - 10449 & IFSC Code- SBIN0010449

## HYDROGEN ASSOCIATION OF INDIA

Hydrogen Association of India (HAI) is dedicated to the promotion of Hydrogen – Production, Storage, Transportation, Distribution, Fuel dispensing related technologies across India. It shares a relationship with International Association for Hydrogen Energy – USA (IAHE).

HAI comprises of Members from leading companies from the Oil & Gas sector, Gas equipment makers, Gas production and distribution companies, Major Hydrogen consumer and other associations and forums. HAI enjoys support of government bodies – MNRE, OISD, PESO, BIS among others.

HAI tracks national and internal developments surrounding all business aspects of Hydrogen, and direct it's adoption as an Green future fuel for mobility & energy storage. It brings altogether developments about Hydrogen to the public and member.

### HAI current programs include –

- Declaration of Hydrogen as a Fuel
- Development and approval of infrastructure for High pressure gas storage and transport (above 550 Bar)
- HCNG (Hydrogen mixed CNG).
- Promoting advancements for expansion of the Hydrogen economy.

## THE KEY PERSONS ASSOCIATED WITH HYDROGEN ASSOCIATION OF INDIA (HAI)

<b>President</b>	: <b>Dr. R. K. Malhotra</b> , Director (R&D) Indian Oil Corporation Limited
<b>Vice-President</b>	: <b>Mr. Arun Nemani</b> , Vice President – India Intelligent Energy India Pvt. Ltd
<b>Addl. Vice-President</b>	: <b>Mr. Ravi Subramanian</b> Air Products & Chemicals Inc.
<b>General Secretary</b>	: <b>Mr. K. K. Gandhi</b> , Executive Director (Tech.) Society of Indian Automobile Manufacturers
<b>Joint Secretary</b>	: <b>Mr. Rajeev Bhalla</b> , Vice President (Mktg.) MVS Engineering Limited
<b>Treasurer</b>	: <b>Dr. A. A. Gupta</b> , General Manager Indian Oil Corporation Limited

Participants in this conference would automatically become member of HAI for 2015-16

**ACCOMMODATION AT THE LaLIT**  **Rs.9000/-**  
(Inclusive of all taxes)  
(Single Occupancy per Night)

for single occupancy which includes pick & drop facility from Airport, Breakfast and wi-fi. **Rs. 9500/-** for double occupancy including all the above mentioned facilities)



**Hydrogen Association of India**

Indian Oil Corporation R&D Centre,  
Faridabad-121007, India  
www.hai.org.in



**International Association for Hydrogen Energy (IAHE)**

With support from International Journal of Hydrogen Energy (IJHE) Official Journal of the IAHE, USA

## Topics to be Covered

### Hydrogen Production Technologies

- Natural Gas SMR, Methanol cracking
- Water Electrolysis.
- Ammonia cracking (Hydrogen rich gas)
- Bio Hydrogen
- Photo catalysis
- Thermo chemical



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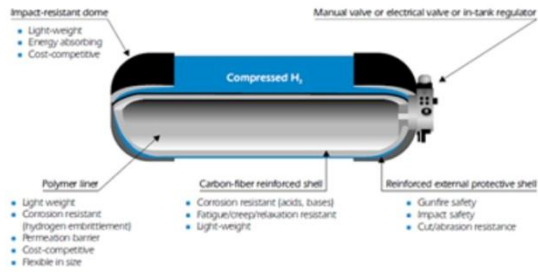


### Hydrogen Purification

- PSA separation
- Membrane separation
- Metal membrane separation
- Catalytic de-oxidation

### Hydrogen Storage

- Medium pressure vessels
- High pressure tubes & cylinders
- Metal Hydride storage
- ASME type III/type IV storage



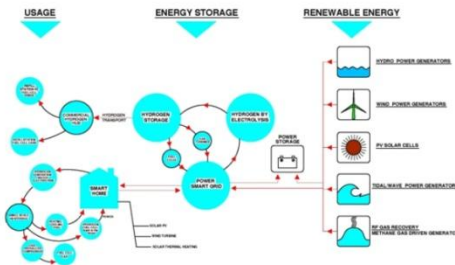
### Hydrogen Powered Fuel Cells- Zero Pollution Power

- Fuel cell Types- Technologies
- Hydrogen delivery options for fuel cells powered stations
- Applications- Telecom Towers



### Hydrogen from Renewable Resources

- Wind energy to water electrolysis
- Solar energy to water electrolysis
- Bio mass gasification- methane production- Hydrogen production



### Safety & Regulatory Issues



### Hydrogen Fuel Infrastructure

- GH2-LH2 Transportation
- High pressure transportation
- Hydrogen Dispensing Stations



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