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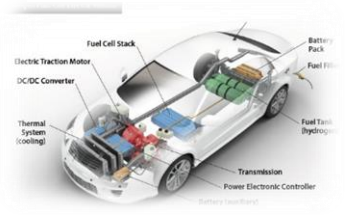
International Conference on Hydrogen and Fuel Cell Technology

for Mobility & Power Generation Applications – V 2.0
17th to 19th January 2022 (Virtual Platform)

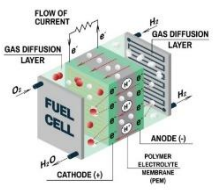
Patron

Dr. Reji Mathai
Director - ARAI



Chief Guest

Shri. Arun Goel
Secretary, Ministry of Heavy Industries



Convener

Dr. Sushil S. Ramdasi
Deputy Director, ARAI

Participation from International Experts - USA, BRAZIL, AUSTRALIA, SWITZERLAND, GERMANY, NORWAY, ISRAEL, SWEDEN

Conference Overview

ARAI, in association with SAEINDIA Western Section, is organizing International Conference on Hydrogen and Fuel Cell Technology for Automotive, Stationary & Power Generation Applications from 17th - 19th January 2022 on Virtual Platform.

It is high time to accelerate research and start commercializing Fuel Cell Electric Vehicles. Fuel Cells are multidisciplinary systems and inherently multi-scale in space and time. The main agenda of this Fuel Cell Technology Conference is to highlight advancements in the areas,like green hydrogen generation and storage, hydrogen as a fuel in IC Engines, advancements in fuel cell, futuristic hydrogen mobility, etc. with an aim to provide sustainable and acceptable transition for hydrogen mobility in the global automotive market as well as research.

Distinguished Speakers, Panel Discussion Chairmen & Panelists

Key Note Speakers

Mr. Sturle Harald Pedersen
Green stat Hydrogen, Norway
Chairman, Green stat Hydrogen India Pvt. Ltd.

Mr. Steven Woolley
Group CTO Mobility, Reliance Industries, New Energy Group Reliance, India

Mrs. Åse Bye
Business Manager Stationary Applications, PowerCell Sweden AB & PowerCell, Norway

Dr. Ashish Lele
Director,
National Chemical Lab (NCL), India

Dr. Prof Suresh Bhargava
Director for CAMIC, RMIT University, Melbourne, Australia

Dr. Sarbjit Giddey
Research Group Leader, CSIRO, Melbourne, Australia

Mr. Brendan Norman
CEO and Founder, H2X, Australia / Malaysia

Mr. Roy Segev
Director, Business Development, Ballard, Israel

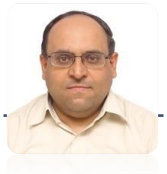
Dr. N. Saravanan
CTO Ashok Leyland Ltd, India

Dr. Andreas Mai
Co-CEO & CTO
Hexis AG, Switzerland

Panel Discussion Chairmen & Panelists

Dr. S. S. V. Ramakumar
Director, R&D, IOCL
(Chairman)

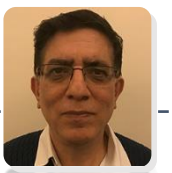
Dr. Gerhard
Former CTO, Electro Chem, Sao Paulo, Brazil



Mr. Vikram Gulati
Country Head & EVP, Toyota Kirloskar Motors Ltd.

Dr. Aniruddha Kulkarni
Fortescue Future Industries, Melbourne, Australia

Mr. Sandeep Bhasin
Senior Vice President, Luxfer India



Mr. Ravi Kaul
Director, Luxfer India

Mr. Rajendra Petkar
CTO, Tata Motors Ltd &
ARAI President
(Chairman)

Dr. K. Ramya
Head CFCT, ARCI Chennai, India

Dr. Balaji Srinivasan
Head of Engineering, Robert Bosch India Ltd.

Dr Sachin Damle
Lead Technology Planning and Integration, Cummins Technologies India Pvt. Ltd.

Mr. Siddhartha Mayur
Managing Director -H2E Power System, India / USA & Hexis, Switzerland

Dr. R. K. Malhotra
President, Hydrogen Association of India
Former Director General
Federation of Indian Petroleum Industry
(Chairman)

Dr. Reji Mathai
Director - ARAI

Mr. Sachin Agarwal
Senior Vice President (R&D / Technology), VECV Ltd. India

Mr. Chandrashekhar Chincholkar
SR. ADVISOR (STRATEGIC) – ELectric Mobility/CLEANTECH,KPIT, Technologies

Mr. Rajnath Ram
Adviser (Power & Energy)
NITI Aayog

Technical Session Speakers

Dr. Sushil S. Ramdasi
Deputy Director,
In Charge - Power Train Design, ARAI

Dr. Gustavo Doubek
Asst Prof., University of Campinas, Sao Paulo, Brazil

Dr. Lukas Virnich
Product Manager, FEV Germany

Mr. Niraj Shah
Manager, FEV India

Ms. Eva Pelster
Application Engineering,
MathWorks, Germany

Detailed Schedule

Day One – 17 January 2022 (Monday)

Session	Topic	Speaker	Time
	Welcome Address	**Dr. Reji Mathai, Director – ARAI**	15:00 – 15:10
	Inauguration	**Shri. Arun Goel, Secretary, MOHI**	15:10-15:25
	Vote of Thanks	**Mr.Sanjay S.Nibandhe,** Sr. D. D., ARAI & Chairman SAEINDIA-WS	**15:25-15:30**
Keynote Session 1	Hydrogen Safety Policy and Regulatory Framework Development from Scandinavian Countries	**Mr. Sturle Harald Pedersen**, Green stat, Norway, Chairman Green stat Hydrogen India Pvt. Ltd.	15:30 -16:00
Keynote Session 2	Hydrogen Energy Road Map for India and Investments in that direction	**Mr. Steven Woolley,** Group CTO Mobility, Reliance Industries, New Energy group Reliance, India	16:00 – 16:30
Keynote Session 3	Solid Oxide Fuel Cell Technology for Power Generation Applications	**Dr Andreas Mai**, CO-CEO & CTO. HEXIS AG, Switzerland	16:30 -17:00
	Networking Break for Tea / Coffee (15 Minutes)		
Keynote Session 4	Advances in hydrogen PEM fuel cell systems and applications, challenging current power generation systems.	**Mrs Åse Bye**, Business Manager Stationary Applications Power Cell, Norway	17:15 -17:45
Keynote Session 5	Indigenous development of PEM fuel Cell technology from Indian Perspectives	**Dr Ashish Lele**, Director National Chemical Lab (NCL), India	17:45 – 18:15
Keynote Session 6	An Integrated Stack and BOP optimisation Techniques for Improvisation in Fuel Cell Engine Performance	NUVERA, USA	18:15 – 18:45
	Networking Break for Tea / Coffee (15 Minutes)		
Panel Discussion 1 – Accelerating Implementation of Hydrogen and Fuel Cell Eco System and Challenges Towards the same			
Panellist		Session Chairman	Time
Dr Gerhard, Former CTO, Electro Chem, Sao Paulo, Brazil **Mr Vikram Gulati,** Country Head & EVP, Toyota Kirloskar Motors Ltd. **Dr Aniruddha Kulkarni,** Fortescue Future Industries, Melbourne, Australia **Mr Sandeep Bhasin,** Vice President, Operations & AF Business, Luxfer India **Mr Ravi Kaul,** Director, Luxfer India		**Dr. S. S. V. Ramkumar** Director R&D, IOCL	19:00 – 20:00

Day Two – 18 January 2022 (Tuesday)

Session	Topic	Speaker	Time
Keynote Session 7	Advances in Catalyst, membrane and hydrogen sensor technology	**Dr Prof Suresh Bhargava**, Director for CAMIC, RMIT University, Melbourne, Australia	16:00 – 1630
Keynote Session 8	Technology Road Map of Australia for implementation of Hydrogen generation, Fuel cell technology in the area of mobility and power generation applications	**Dr Sarbjit Giddey**, Research Group Leader, CSIRO, Melbourne, Australia	16:30 – 17:00
Technical Presentation 1	Hydrogen Fuel Cell Development from Indian Perspectives – A comprehensive Overview	**Dr. Sushil S Ramdasi**, Deputy Director, In Charge - Power Train Design, ARAI	17:00 – 17:30
	Networking Break for Tea / Coffee (15 Minutes)		
Technical Presentation 2	Emerging Trend in Brazil – Use of Ethanol through Fuel Cell technology for mobility and power generation applications	**Dr. Gustavo Doubek**, Asst Prof., University of Campinas Sao Paulo, Brazil	17:45 – 18:15
Panel Discussion 2 – A Cost Effective, sustainable and Acceptable Hydrogen and Fuel Cell Product / Supply Chain Development for mobility and power generation applications			
Panellist		Session Chairman	Time
Dr. K. Ramya, Head CFCT, ARC Chennai, India **Dr. Balaji Srinivasan,** Head of Engineering, Robert Bosch India Ltd. **Dr. Sachin Damle,** Lead Technology Planning and Integration, Cummins Technologies India Pvt. Ltd. **Mr. Siddhartha Mayur,** Managing Director -H2E Power System, India / USA & Hexis, Switzerland		**Mr Rajendra Petkar** CTO, Tata Motors & ARAI President	18:15 – 19:15

Day Three – 19 January 2022 (Wednesday)

Session	Topic	Speaker	Time
Technical Presentation 3	Hydrogen ICE Development Potential for Heavy Duty Applications	**Dr. Lukas Virnich**, Product Manager, FEV Germany / **Mr. Niraj Shah**, Manager, FEV India	15:30 – 16:00
Keynote Session 9	Hydrogen Fuel Cell Based Dev for Off Highway Applications	**Mr. Brendan Norman,** CEO and Founder, H2X, AUSTRALIA/ Malaysia	16:00 – 1630
Keynote Session 10	Hydrogen Fuel Economy for Commercial Vehicles	**Dr. N. Saravanan**, CTO Ashok Leyland Ltd, India	16:30 – 17:00
	Networking Break for Tea / Coffee (15 Minutes)		
Keynote Session 11	Futuristic Hydrogen Based Transportation and Power Generation – Mobility, Railway and Industrial, Data Centre and mobile Tower Applications	**Mr. Roy Segev**, Director, Business Development, Ballard, Israel	17:15 – 17:45
Technical Presentation 4	Model Based Simulation Techniques for Robust Control Strategy Development for FCEV's and Power Generation Applications	**Ms. Eva Pelste**r, Application Engineering, MathWorks, Germany	17:45 – 18:15
Panel Discussion 3 – Govt Support / Policy framework / Rules and Regulations for Boosting Hydrogen Economy			
Panellist		Session Chairman	Time
Dr. Reji Mathai, Director – ARAI **Mr. Sachin Agarwal,** Senior Vice President (R&D / Technology), M/s VECV Ltd, India **Mr. Chandrashekhar Chincholkar,** Sr. Advisor (Strategic) – Electric Mobility/Cleantech, KPIT Technologies **Mr. Rajnath Ram**, Advisor (Power & Energy), NITI Aayog		**Dr. R. K. Malhotra**, President, Hydrogen association of India Former Director General Federation of Indian Petroleum Industry	18:15 – 19:15
Vote of Thanks		**Mrs .Medha Jambhale,** D. D., Head – ARAI Academy	**19:15 – 19:20**
Concluding Remarks		**Dr. Sushil S. Ramdasi,** D. D. ,ARAI	**19:20-19:30**

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Website: www.araiindia.com; https://academy.araiindia.com

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Note: ARAI reserves the right to change the dates, contents, schedule, etc. for the programme without any notice.
No recordings of the training session will be provided. Hence, request to attend all the sessions.