SPEAKERS

Dr. P. Karthikeyan: Professor in the Dept. of Automobile Engineering at PSG College of Technology, Coimbatore, INDIA. He has significantly contributed to fuel cell research in India. He received his PhD Degree at Indian Institute of Technology Madras (IIT-M), Chennai on 2008. He was received BOYSCAST fellowship (2009-10) from DST, Government of India for conducting Advanced Research Training in the area of “Fuel Cells - Water Management in PEM Fuel Cells” in USA. He has authored more than 40 research papers in reputed national and international journal, 18 peer reviewed international conferences, and filed 2 technical patent (Invention Disclosure No.: D2010-65)

Dr. Sushil S. Ramdasi: Dy. Director, Powertrain Engineering, ARAI, Pune. He has done Masters’ Degree in Mechanical Engineering in Design discipline and also has completed Master of Management Science in Management Information Systems. He has completed his Ph.D. in controller development for electric, Hybrid Electric & Fuel Cell Vehicles from VIT University. He is a post doctorate research collaborator in the field of Fuel Cell Technology at University of Delaware, USA. He has 24 years R&D experience in ARAI, Pune. Presently he is looking after engine & transmission design center at PTE, ARAI and responsible for execution of various projects in design & development of engines, components & systems for meeting various emission norms, strength, durability and structural dynamics requirements. He has 2 patents on LPG fuel metering system and Gas air mixer for stationary application engines. He is reviewer for IEEE, Elsevier and IMECH (UK) technical journal papers.

Mr. Aatmesh Jain: Engineer, ARAI Academy, Pune. He has done B.Tech in Automobile Engineering from SRM University and M Tech in I. C. Engines from Veltech University Collaborated with ARAI. His expertise is in the field of Alternative Fuels, Engine Emission and their Control Strategies. He has published many national and International papers in technical and non-technical domain.

2 Day Blended e-Learning Proficiency Improvement Programme (Blended ePIP) on Fuel Cell Vehicles: Potential Power Source for Future at The Automotive Research Association of India (ARAI-FID, Chakan, Pune)

From 27th to 28th Sept. 2018

REGISTRATION FORM

Name, Designation, Dept., Office No. Mobile No. & Email ID :

Delegate - 1
Delegate - 2
Delegate - 3

Company Name & Address

Co-ordinator’s Name, Designation, Contact No., Email ID

100% Advance Payment Details

Please email/post duly filled-in registration form on or before 24th September 2018

Dr. K. C. Vora, Sr. Dy. Director & Head, ARAI Academy
ARAI-Forging Industry Division, Chakan, B-16/1, MIDC Chakan, Taluka Khed, Dist Pune 410 501 (INDIA)
Contact No: 02135-39 6695 / 6693 / 6691 / 6690 or 02135-630 795 / 793 / 791 / 790
Email: training.pga@araiindia.com; nadeshmukh.pga@araiindia.com; patil.pga@araiindia.com; diwanji.pga@araiindia.com
Please visit www.araiindia.com & academy.araiindia.com for more information.

2 Day Blended e-Learning Proficiency Improvement Programme (Blended ePIP) on Fuel Cell Vehicles: Potential Power Source for Future

Free e-module on Fuel Cell
When you hear the words Fuel Cell, what are the thoughts that roll around your mind? Probably an alternate energy storing device, probably a future technology which will substitute IC Engine or probably some electrical device. Well if you combine all these thoughts that is what a fuel cell is.

So, what’s so great about this fuel cell then? Why we should study fuel cell, answer will be similar to why we should reduce pollution or why we should reduce fossil fuel usage. Fossil fuels are soon going to finish their quota from the world plus the harmful emissions post combustion demands zero emission process for power generation. It’s high time when we develop and start using alternative technologies such as Fuel Cell to save our environment.

Fuel cell takes a leap from other alternative technologies because of simpler design, high efficiencies, frictionless as well as noise free operation, Fuel Flexibility, versatile applications, etc. Among many types of fuel cells, PEMFC is the most promising one for Automotive applications.

Apart from many benefits, commercialization of Fuel Cell is still a great challenge because of high cost, less reliability, hydrogen on-board generation and storage, etc.

ARAI Academy invites you to understand everything about FUEL CELL VEHICLE along with an online licensed package of e-module on-board generation and storage, etc. Among many types of fuel cells, PEMFC is the most promising one for Automotive applications.

PROGRAMME

Day One

08.30 - Registration & Breakfast
09.00 - Introduction on Fuel Cells & Innovations, Challenges and Issues on Fuel Cell Technology for Automotive Application
12.30 - Lunch
15.45 - Challenges and Issues on Fuel Cell Technology: Scaling and Stacking up Studies on PEMFC
16.15 - Conclusion

Day Two

08.30 - Breakfast
09.00 - Electric Drive and control Architectures for Fuel Cell Hybrid Vehicles / SOFC Technology as a range extender for present electric vehicles
11.30 - Fuel Cells and Applications in Transportation: Hybrid, Electric and Fuel Cell Vehicle Drives, Electro Mobility and Recent Developments in Battery Technology for Automotive Applications
12.30 - Lunch
14.30 - e-module on Fuel Cell
16.00 - Written Test
16.30 - Summary, Discussion, Feedback & Conclusion

WHO SHOULD ATTEND?

- Project Managers, Technical Project Leaders responsible for Energy Generation System / Alternate Energy
- Technology Development / Innovation team
- Hybrid Vehicle Designers
- Engineering Design / Consulting Companies
- Engineering Students/ Professors / PhD Scholar

ARAI, over five decades, has provided its design and development expertise to the Indian automotive industry, focusing on the testing and evaluation of components and systems to meet national and international standards. ARAI strives to achieve international recognition in these areas. In keeping with the globalization of economy and business, ARAI continues to enlarge its scope of services to meet the requirements of automotive industries around the world. In addition to utilizing state-of-the-art technology, laboratories and highly-trained personnel, ARAI recognizes the need to develop a new generation of engineers to meet the demands of the automotive industry, not just in India but across the globe.

ARAI ACADEMY is classified into three divisions:

LEARNING CENTRE has embarked upon a programme of building up human resources by commencing educational programme (Graduate, Post graduate & Doctoral) with specialization in Automotive Engineering. It has tied up with VIT University (Vellore),Veltech University (Chennai), College of Engineering (Pune), Christ University (Bangalore), University of Alabama (USA), Tennessee Tech University (USA), Loughborough University (UK) and University of Braunschweig (Germany).

KNOWLEDGE CENTRE It has collection of around 24,600 books, standards, project reports, seminar/conference proceedings and around 75,000 SAE technical papers. It also has 450 eBooks. It subscribes to 40 national and international journals. It regularly publishes a monthly magazine ‘Automotive Abstracts’. It also conducts literature / patent search for customer’s projects.

TRAINING CENTRE In line with Post Graduate and Doctoral Programs conducted by various universities abroad, ARAI Academy has devised various Proficiency Improvement Programmes (PIPs & ePIPs), to be taught by ARAI, Academia & Industry Experts. PIP gives engineers, faculty and student’s knowledge and technical expertise in a wide range of automotive disciplines. It helps in understanding system’s view point for automotive design and manufacture, with specific skills in formulating automotive engineering solutions in terms of their function and performance, through optional modules. Based on the present system in universities, credits are proposed for each module, so that the graduate engineers can attend various modules and sum-up the credits required for Master’s or Doctoral Programs. Participants also get chance to visit related laboratories of ARAI and get hands on experience. Certificates are issued on the basis of attendance & written test conducted at the end of the programme. We also conduct Training Programmes through WEBEX and Domain Training Programmes for Automotive Industry.

Please visit www.araiindia.com & academy.araiindia.com for more information.

REGISTRATION FEES

<table>
<thead>
<tr>
<th>Category</th>
<th>Registration Fees (Rs.) (per participant)</th>
<th>Total Fees including Tax of 18% (Rs.) (per participant)</th>
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<tbody>
<tr>
<td>Engineers &amp; Professionals</td>
<td>10,000.00</td>
<td>11,800.00</td>
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<tr>
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<tr>
<td>Engineering College Students</td>
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<td>4,720.00</td>
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Registration fees include:
- Breakfast
- Lunch
- Delegate Kit

MODE OF PAYMENT

At Par / Multicity cheque or demand draft in favour of The Automotive Research Association of India payable at Pune.

OR

Online Transaction: ARAI Account No: 04470200000280
IFSC/RTGS/NEFT Code: BARB0KARVER (D-ZERO)

Training Venue
The Automotive Research Association of India
ARAI-Forging Industry Division, Chakan

Cleaning Venue
The Automotive Research Association of India
ARAI-Forging Industry Division, Chakan