

Hydrogen + Fuel Cells



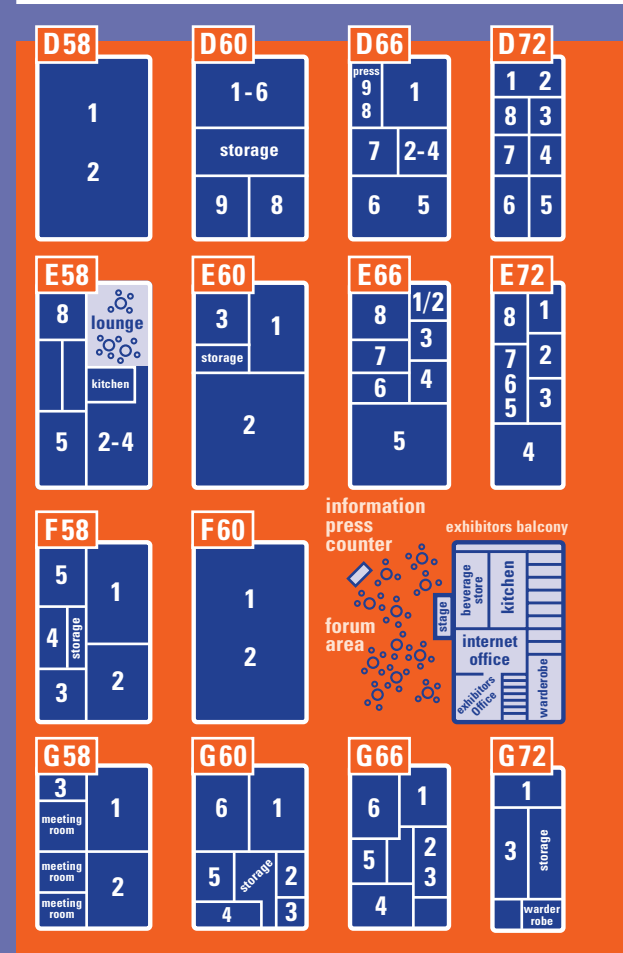
Go to where the Market is!

Arno A. Evers FAIR-PR

Exhibitor Overview

D58	1 › Adam Opel AG 2 › General Motors Corporation
D60	1 › wiba 2 › ARGEMUC 3 › ET EnergieTechnologie GmbH 4 › FutureCarbon GmbH 5 › FutureCamp GmbH 6 › P21 GmbH 8 › HERA Hydrogen Storage Systems › HERA Hydrog. Storage Syst. GmbH 9 › Vandendorre Hydrogen Syst. GmbH › Vandendorre Hydrogen Syst. N.V.
D66	1 Initiative Brennstoffzelle › Ruhrgas AG / › MVV Energie AG › VNG-Verbundnetz Gas AG/ › EWE AG 2 › Communauté d'agglomération de FORBACH Porte de France 3 › Alpeha 4 › N-GHY fuel processors for fuel cells, S.A. 5 › AXANE Fuel Cell Systems 6 › Air Liquide 7 › CEA - Le Commissariat à l'énergie atomique DRT 8 › BIGS - C. Bluck Indus./ Grafic Serv. 9 › Arno A. Evers FAIR-PR / PRESS
D72	1 › Plug Power Inc. 2 › Vaillant GmbH 3 › H ₂ ECOnomy 4 › SRE-Soluções Racionais de Energia › INETI › Instituto de Engenharia Mecânica e Gestão Industrial 5 › 3M 6 › HyRadix Inc. 7 › Ametek Inc. 8 › Roen Est
E58	2 › Norsk Hydro Electrolyser 3 › Norsk Hydro ASA 4 › Icelandic New Energy Ltd 5 › Greenlight Power Technolog. Inc. 8 › Hydrogenics Corporation
E60	1 › Saia-Burgess Dreieich GmbH & Co.KG › T-Systems International GmbH › I.T.E.N.O.S. GmbH 2 › Ballard Power Systems Inc. 3 › NedStack Holding BV › BEE power systems BV/ Metal-Tech

E66	1 › QuinTech e.K. 2 › ElectroChem, Inc. 3 › Hexion B.V. 4 › FuMA-Tech GmbH ein Unternehmensbereich der BWT 5 › ChevronTexaco Technology Ventures 6 › PROTON MOTOR Fuel Cell GmbH 7 › SGL TECHNOLOGIES GmbH 8 › h-tec Education
E72	1 › QuestAir Technologies Inc. 2 › ASF THOMAS Industries GmbH 3 › HABCO INC. 4 › Intelligent Energy Ltd 5 › European Hydrogen Association 6 › German Hydrogen Assoc. (DWV) 7 › French Hydrogen Association AFH ₂ 8 › Schunk Kohlenstofftechnik GmbH
F58	1 › DuPont Fuel Cells 2 › OMG AG & Co. KG 3 › Morgan Fuel Cell 4 › FuelCon AG 5 › Avista Labs
F60	1 › DaimlerChrysler AG Fuel Cell Project 2 › MTU CFC Solutions GmbH
G58	1 › W.L. Gore & Associates GmbH 2 › Nuvera Fuel Cells 3 › HydrogenSource LLC
G60	1 › Sulzer Hexis AG 2 › Fuel Cell Today 3 › PIOS - hydrogen - cycle 4 › Millennium Cell 5 › MES-DEA sa 6 › IdaTech, LLC
G66	1 › Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR) 2 › Forschungsallianz Brennstoffzelle 3 › Wirtschaftsförd. Region Stuttgart 4 › Forschungszentrum Karlsruhe GmbH 5 › Aspen Products Group, Inc. › Aspen Aerogels, Inc. 6 › Forschungszentrum Juelich GmbH
G72	1 › Fraunhofer Institute for Solar Energy Systems ISE 3 › Zentrum fuer Sonnenenergie- und Wasserstoff-Forschung Baden-Wuerttemberg



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› SFC Smart Fuel Cell AG	V1
› Independent Power Technologies Ltd.	V2
› Ludwig-Boelkow-Systemtechnik GmbH	V3
› Methanex Corporation	V4



Monday, April 7

Tuesday, April 8

Wednesday, April 9



0:00 am	<p>Opening Press Conference:</p> <p>At this Press Conference representatives from relevant exhibitor groups present their H₂/FC developments on the way to commercialization.</p> <p>Arno A. Evers FAIR-PR</p>	<p>› H.C. Starck GmbH <i>Dr. Helmut Feuer</i> Recent Developments in SOFC Component Manufacturing</p>	<p>› Hexion B.V. <i>Jacques Smolenaars</i> Fuel Processing: the bridging technology towards a hydrogen infrastructure</p>
0:20 am		<p>› Norsk Hydro ASA <i>Ivar Hexeberg</i> The Norsk Hydro commitment to hydrogen</p>	<p>› DT Industries Assembly & Test Europe <i>Tony Walters</i> Preparing for Fuel Cell Commercialisation and Production</p>
0:40 am		<p>› Fraunhofer Institute for Solar Energy Systems ISE <i>Ulf Groos</i> Hydrogen Generation and Micro Fuel Cell Systems</p>	<p>› Forschungszentrum Karlsruhe GmbH <i>Dr.-Ing. Ulrich Bielert</i> New experimental facilities for hydrogen distribution and combustion tests</p>
1:00 am	<p>› Vaillant GmbH <i>Kai Klinder</i> The third generation of fuel cell heating appliances on demonstration</p>	<p>› IdaTech, LLC <i>Claude H. Duss</i> Fuel Cell System Solutions Operating on Multiple Fuels</p>	<p>› Icelandic New Energy Ltd / Islensk NyOrka ehf <i>Fanney Frisbaek</i> Hydrogen infrastructure, the Iceland case</p>
1:20 am	<p>› Adam Opel AG <i>Klaudia Martini</i> Fuel cell vehicles as part of a sustainability strategy</p>	<p>› MTU CFC Solutions GmbH <i>Dr. Michael Gnann</i> HotModule - the solution</p>	<p>› Avista Labs <i>Frank A. Ignazzitto</i> PEM fuel cells between 50 Watts and 5 kW for Portable and Remote Applications</p>
1:40 am	<p>› Nuvera Fuel Cells <i>William Mitchell</i> A Multi-Product Platform Approach to Commercializing Fuel Cell Technology</p>	<p>› REpower Systems AG <i>Prof. Dr. Fritz Vahrenholt</i> Renewables Energies - The Real Sources to produce Hydrogen</p>	<p>› SGL TECHNOLOGIES GmbH <i>Dr. Norbert Berg</i> New Developments of Graphite Fuel Cell Components</p>
2:00 pm	<p>› Ballard Power Systems Inc. <i>André Martin</i> Fuel Cells on the Path to Mass Commercialization</p>	<p>› DuPont Fuel Cells <i>Jean-Marc Tixhon</i> Accelerating Fuel Cell Commercialisation</p>	<p>› wiba <i>Dipl. Ing. Ulli Arndt</i> Activities of the Coordination Center of the Hydrogen Initiative Bavaria</p>
2:20 pm	<p>› European Fuel Cell GmbH <i>Dipl. Ing. Thomas Winkelmann</i> The PEM-fuel cell based home energy center</p>	<p>› Adam Opel AG <i>Dr. Lars Peter Thiesen</i> Fuel Cell Vehicle Program at Opel/GM</p>	<p>› Morgan Fuel Cell <i>Brendan Bilton</i> / Next Generation Flow Fields - The benefits of Morgan Biomimetic designs at low air pressures and high temperature PEM Applications</p>
2:40 pm	<p>Special Guest: Klaudia Martini Guided Tour on the Group Exhibit of Klaudia Martini, Executive Director Corporate Communications, Adam Opel AG with Arno A. Evers</p>	<p>› PROTON MOTOR Fuel Cell GmbH <i>Dr. Joachim Kroemer</i> Fuel cell systems in mobile and stationary applications - realistic ambitions</p>	<p>› NedStack fuel cell technology BV › BEE power systems BV <i>Erik Middelman, Aik Rosenberg</i> Direct liquid fuel cell powerpack</p>
1:00 pm	<p>The Round Table: Production & Storage <i>Marc Hubert, HERA Hydrogen Storage Systems, Canada</i> <i>Phil Snaith, HydrogenSource LLC, USA</i> <i>Patrick Vanschoubroek</i> <i>Vandenborre Hydrogen Systems N.V., Belgium</i></p>	<p>The Round Table: Codes & Standards <i>Dr. Rolf Ewald, German Hydrogen Association, Germany</i> <i>Mario Sandoval, HydrogenSource LLC, USA</i> <i>Dipl.-Ing., Roger Koch, TÜV Nord Gruppe, Germany</i> <i>David P. Haberman, IFL, LLC, USA</i></p>	<p>The Round Table: Automotive Fuel Cells <i>Gerald Hornburg, Ballard Power Systems Inc., Germany</i> <i>Dr. Lars Peter Thiesen, Adam Opel AG, Germany</i> <i>Heinz Krosch, Ford Motor Company, USA</i> <i>Phil Snaith, HydrogenSource / P. Hoffmann, Hz FC Letter</i></p>
1:40 pm	<p>› W.L. Gore & Associates GmbH <i>Peter Hertel</i> Membrane Electrode Assemblies for Fuel Cells: Route to commercialisation</p>	<p>› Vandenborre Hydrogen Systems GmbH <i>Dr. Hugo Vandenborre</i> Hydrogen infrastructure based on water and renewable energy</p>	<p>› Vattenfall Europe / HEW <i>Holger Grubel</i> Hydrogen Infrastructure</p>
2:00 pm	<p>› Ballard Power Systems Inc. <i>Dr. Fred Flett, William T. Foulds</i> Carbon Gas Diffusion Materials, Electric Drives and Power Conversion</p>	<p>› DaimlerChrysler AG Fuel Cell Project <i>Peter Froeschle</i> Fuel Cell & Alternative Powertrain Vehicles</p>	<p>› Intelligent Energy Ltd <i>Dennis Hayter</i> Fuel Cells for Small Scale Distributed Generation</p>
2:20 pm	<p>› Norsk Hydro Electrolysers <i>Andres Cloumann</i> "State of the art" hydrogen fuelling stations</p>	<p>› ChevronTexaco Technology Ventures <i>Chris Beale</i> Halias and Fuel Processing Technology as a platform for hydrogen and power generation</p>	<p>› HERA Hydrogen Storage Systems <i>Marc Hubert</i> The future of Solid Hydrogen Storage from HERA</p>
2:40 pm	<p>› Millennium Cell <i>Rex E. Luzader</i> Hydrogen on Demand™ for a wide range of applications</p>	<p>› Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR) – Institut für Technische Thermodynamik <i>Dr. Rudolf Henne</i> / On-Board Power Supply of Vehicles by Means of Solid Oxide Fuel Cells (SOFC)</p>	<p>› QuestAir Technologies Inc. <i>Sean Mezei</i> Hydrogen Purification for Stationary PEM Fuel Cells and Hydrogen Fuelling</p>
3:00 pm	<p>› Air Liquide <i>Jean Francois Deschamps</i> Hydrogen Energy</p>	<p>› NTDA Energía <i>Nicole Monter</i> New Applications for SOFCs</p>	<p>› 3M <i>Dr. Mike Lynn</i> 3M Product Offerings for Fuel Cells</p>
3:20 pm	<p>› Forschungszentrum Juelich GmbH <i>Dr.-Ing. Ralf Peters</i> Reformer Development at the Forschungszentrum Juelich</p>	<p>› Schunk Kohlenstofftechnik GmbH <i>Dr. Volker Banhardt</i> Molded bipolar plates with high degree of functional integration</p>	<p>› H₂ ECONOMY <i>Serge V. Adamian</i> H₂ ECONOMY - Fuel Cells for today!</p>
3:40 pm	<p>› Hydrogenics Corporation <i>Mark Kammerer</i> En route to Commercial Sustainability and Advances in HyPM Power Module Development</p>	<p>› OMG AG & Co. KG <i>Dr. R. Burmeister</i> PEM Fuel Cell Components: Integration and Cost Reduction - Essentials for Success</p>	<p>› Greenlight Power Technologies, Inc. <i>James Dean</i> Trends in Fuel Cell Testing</p>
4:00 pm	<p>› Initiative Brennstoffzelle <i>Prof. Dr.-Ing. Christian P. Beckervordersandforth</i> Introduction of the Initiative Brennstoffzelle</p>	<p>› AXANE Fuel Cell Systems <i>Philippe Paulmier</i> AXANE's Presentation and New Portable Fuel Cell Generator</p>	<p>› SFC Smart Fuel Cell AG <i>Manfred Stefener</i> Smart Fuel Cell Commercializing advanced DMFC - Technology</p>
4:20 pm	<p>› h-tec Industrial <i>Uwe Kueter</i> Fuel Cell and Electrolyser Technology at h-tec</p>	<p>› HydrogenSource LLC <i>Phil Snaith</i> The Role of Fuel Processors in the Hydrogen Economy</p>	<p>› SRE – Soluções Racionais de Energia <i>José João Campos Rodrigues</i> Fuel Cells Energy: Towards a Global Economic Democracy</p>
4:40 pm	<p>Go to where the Market is! Ludwig-Boelkow-Systemtechnik GmbH <i>Reinhold Wurster, Consultant, Joop Kuipers</i> Supply + refuelling infrastructure for H₂ vehicles</p>	<p>Go to where the Market is! H2scan LLC <i>Dennis Reid, Executive Vice President</i> H2scan manufactures state of the art sensors</p>	<p>› Go to where the Market is! ENERGON Carl-Jochen-Winter GmbH, Germany <i>Prof. Dr.-Ing. Carl-Jochen Winter</i></p>

PROGRAMME

Thursday, April 10

Friday, April 11



10:00 am	<ul style="list-style-type: none"> › Saia-Burgess Dreieich GmbH & Co. KG › T-Systems International GmbH › I.T.E.N.O.S. GmbH <i>Ulrich-Michael Dismer, Thomas Prinz, André Streich</i>
10:20 am	<ul style="list-style-type: none"> › Energy @ Network 1st worldwide ONLINE presentation of business models for virtual power plants
10:40 am	<ul style="list-style-type: none"> › HABCO INC. <i>David Plis</i> Fuel Cell Test Equipment
11:00 am	<ul style="list-style-type: none"> › Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Wuerttemberg <i>Dr. Ludwig Jörissen</i> PEM fuel cell development from toys to devices
11:20 am	<ul style="list-style-type: none"> › N-GHY fuel processors for fuel cells, S.A. <i>Didier GROUSET</i> HYDROGEN from BIO-FUELS
11:40 am	<ul style="list-style-type: none"> › Sulzer Hexis AG <i>Susanne Riggensch</i> Experience in Pre Commercial SOFC for Single-Family Homes
12:00 pm	<ul style="list-style-type: none"> › ASF THOMAS Industries GmbH <i>Herbert Hansel</i> t.b.d.
12:20 pm	<ul style="list-style-type: none"> › CEA-Le Commissariat à l'énergie atomique DRT <i>Vincent Blet</i> Biomass gasification and production of biofuels
12:40 pm	<ul style="list-style-type: none"> › Ametek Inc. <i>Jochen Geiger, Francis Wildy</i> New Compact Process Mass Spectrometer for Multiple Gas Analysis and Fuel Cell Development
01:00 pm	<ul style="list-style-type: none"> › The Round Table: Stationary Fuel Cells <i>Gerhard Huppmann, MTU CFC Solutions GmbH, Germany</i> <i>Gus Block, Nuvera Fuel Cells, USA</i> <i>Josh Lutton, Nuvera Fuel Cells, USA</i> <i>Guido Gummert, european fuel cell gmbh, Germany</i>
01:40 pm	<ul style="list-style-type: none"> › General Motors Corporation <i>Dr. Lars Peter Thiesen</i> Stationary Fuel Cell Applications at GM
02:00 pm	<ul style="list-style-type: none"> › Plug Power Inc. <i>Richard Romer</i> The third generation of fuel cell heating appliances on demonstration
02:20 pm	<ul style="list-style-type: none"> › FuelCon AG <i>Mathias Bode</i> Fuel Cell test equipment - state of the art and challenges for tomorrow
02:40 pm	<ul style="list-style-type: none"> › HyRadix Inc. <i>David M. Cepla</i> Distributed Hydrogen Generation
03:00 pm	<ul style="list-style-type: none"> › P21 GmbH <i>Günter Siegmund</i> PEM fuel cell production in Europe
03:20 pm	<ul style="list-style-type: none"> › ET EnergieTechnologie GmbH <i>Helmuth Dederra</i> Hydrogen Technology for advanced car-engines
03:40 pm	<ul style="list-style-type: none"> › Fuel Cell Today <i>Marc Cropper</i> Quantification of the progress in the development and adoption of fuel cells worldwide.
04:00 pm	<ul style="list-style-type: none"> › FutureCamp GmbH <i>Dr. Roland Geres</i> Emissions Trading as financing mechanism for energy
04:20 pm	<ul style="list-style-type: none"> › German Hydrogen Association (DHW) <i>Dr. Rolf Ewald</i> A Road Map to Hydrogen Fuel
04:40 pm	<ul style="list-style-type: none"> › Go to where the Market is! <i>David Haberman</i>

<ul style="list-style-type: none"> › Instituto de Engenharia Mecânica e Gestão Industrial <i>Miguel Ferreira</i> Renewable energies: an integrated perspective
<ul style="list-style-type: none"> › FuMA-Tech GmbH ein Unternehmensb. d. BWT <i>Dr. Bernd Bauer / From ionomers to medium temperature membranes: New membranes classified for advanced fuel cells and electrolysis</i>
<ul style="list-style-type: none"> › MES-DEA sa <i>Luca Schwank</i> MES-DEA activity in FC field. Organisation, projects and technology.
<ul style="list-style-type: none"> › QuinTech e.K. › ElectroChem, Inc. <i>Lee Walsh</i> Creating Milestones in Fuel Cell Testing
<ul style="list-style-type: none"> › FutureCarbon GmbH <i>Dr. Walter Schütz</i> Carbon-nanomaterials for fuel cell technology and hydrogen storage
<ul style="list-style-type: none"> › Roen Est <i>Angelo D'Anzi</i> Roen Est Fuel Cell costs and future perspectives
<ul style="list-style-type: none"> › Independent Power Technologies Ltd. <i>Dr. Ziya Karichev</i> t.b.d.
<ul style="list-style-type: none"> › Forschungsallianz Brennstoffzelle <i>Dr. Werner Lehnert</i> Introduction to the Fuel Cell Network in Baden Wuerttemberg
<ul style="list-style-type: none"> › Aspen Prod. Gr. Inc., -Aerogel Inc. / Kang P. Lee - Fuel Reforming - The Bridge between the Petroleum Infrastructure and Fuel Cells - Aerogel Super Insulation for Fuel Cells
<ul style="list-style-type: none"> › The Round Table: Portable Fuel Cells <i>Dr. Dieter Geppert, LG Techn. Center Europe, Germany</i> <i>Ulf Groos, Fraunhofer Insti. f. Solar Energy Syst., Germany</i> <i>Manfred Stefener, SFC Smart Fuel Cell AG, Germany</i>
<ul style="list-style-type: none"> › PIOS - hydrogen - cycle <i>Jörg Weigl</i> t.b.d.
<ul style="list-style-type: none"> › ARGEMUC - H₂-Project International Airport Munich <i>Wolfgang Burmeister</i> H₂-Project International Airport Munich
<ul style="list-style-type: none"> › French Hydrogen Association AFH2 <i>Phillippe Buffet, Louis Debais</i> International Conferences organised by the French Hydrogen Association (AFH2)
<ul style="list-style-type: none"> › INETI <i>Carmen M. Rangel</i> Getting Ready for Fuel Cells

Get inFORUMed!

The demand of the consumer will play the decisive role in the market evolution of Hydrogen + Fuel Cell (H₂/FC) products and services. Increased technological awareness and knowledge of product benefits are key to the advancement and imminent mass commercialisation of H₂/FC goods and services. Learn first hand from our international experts as they present and discuss the challenges they face in taking this technology from mind to market.

The Exhibit

An international mixture of organisations including big multinational companies, as well as, SME's and research institutions. All phases in the H₂/FC production cycle, from R&D to manufacturing to customer satisfaction, are on display.

The Forum

One of the most valued activities of the Group Exhibit! Through an interview-style format, industry leaders share their vision, mission or introduce their latest achievements facilitated by a skilled moderator. As a member of the audience, you have the chance to interact with the interview partner through the Q&A portion of each session.

The Panel

Discussing in a Round Table style, our panel discusses & deals with different issues concerning H₂/FC commercialisation. On stage from Monday thru Friday at 1:00 p.m., leaders from different industrial sectors exchange new ideas relative to Production & Storage, Codes & Standards, Stationary, Portable and Automotive Fuel Cells.

The Vision

"Go to where the Market is!" has been the slogan of the Group Exhibit on Hydrogen + Fuel Cells since HANNOVER FAIR '95. In this new feature, daily at 4:40 pm, international experts present their ideas & share their thoughts on how to conquer the international marketplace with new H₂/FC applications.



