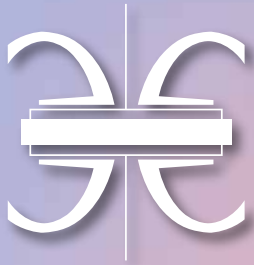


CALL for PAPERS



6th European PEFC & Electrolyser Forum

21st EFCF Conference in Series with Tutorial,
Exhibition and Application Market

4 – 7 July 2017

Lucerne, Switzerland

Chaired by

Dr. Isotta Cerri

Toyota Motor Europe Belgium

Prof. Dr. Angelika Heinzl

ZBT GmbH

Uni Duisburg-Essen Germany

Featuring

Science, Facts and Figures

- **HYDROGEN FUEL CELLS** PEFC, HTPEM, AFC, PAFC
- **DIRECT ALCOHOL FUEL CELLS** DMFC
- **ELECTROLYSERS** incl. H₂ processing & purification
- **HYDROGEN** storage - materials, theory & modelling

Science and Engineering, Materials, Components, Modelling, Characterisation, Durability,
Design, Integration, Operation, Applications, System-Combinations, Market Issues

- 250 technical and scientific presentations
- 400 participants from all over the world
- 30 FCH exhibitors & suppliers for material, testing, components

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EUROPEAN FUEL CELL FORUM forum@efcf.com

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CALL FOR PAPERS

6th European PEFC & Electrolyser FORUM 2017

Fuel Cells & Reversible Technologies

From Materials & Components to Applications – Practical Inventions & Competitive Solutions

Chaired by

Dr. Isotta Cerri

Toyota Motor Europe Belgium

Prof. Dr. Angelika Heinzl

ZBT GmbH, Uni Duisburg-Essen Germany

*CHANCE to input a late CONTRIBUTION

1. Mail the draft title to Toyota@efcf.com or ZBT@efcf.com.

2. Become an EFCF Author and upload asp

This supports our planning www.EFCF.com/UPLOAD

Note: Evaluation has started and it will become more difficult to consider late uploads for inclusion in the oral programme. Poster contributions can be evaluated for longer.

Scope of the Forum

The 6th EUROPEAN PEFC & ELECTROLYSER FORUM 2017 addresses issues of science & engineering, materials & manufacturing, components & systems, design, testing & integration, applications, operation & combinations, and markets for all HYDROGEN-, DIRECT ALCOHOL- & MICROBIAL-FUEL CELLS. Within the field of membrane related electrochemical processes also **ELECTROLYSERS** and linked **Hydrogen processing & purification** as well as **storage materials and systems including theory & modelling** are featured again. The Forum continues the strong tradition as a well recognized international meeting for science and technology in these fields. The Forum aims for a fruitful dialogue between researchers, engineers and manufacturers, between hardware developers and potential users, between academia, industry and decision makers. Business opportunities will be identified for manufacturers, commerce, consultants, decision makers and investors. Although a Europe based event, participants from all continents are invited. In 2013 and 2015, the FORUM was Europe's largest event dedicated to hydrogen FC and has evolved into the leading European meeting place. It provides an excellent platform for scientists, engineers and manufactures to present recent technical progress, industrial achievements and R&D results and inventions. New contacts are established in the favourite networking events, which allow a fruitful personal, scientific and technical exchange, resulting in bridges from science to products.

A Scientific Advisory Committee (SAC) has been formed to structure the technical programme of the 6th EUROPEAN PEFC & ELECTROLYSER FORUM. This panel exercises full scientific independence in all technical matters. All papers presented as lectures or posters will be collated in electronic proceedings. They will be distributed to all participants at the time of registration, and later be available with an ISBN for stakeholders, libraries, research institutions and universities in the www.EFCF.com/LIBRARY. Also, all participants will receive a „Conference Agenda“ containing the abstracts of all oral and poster presentation, as well as essential conference information. The 6th EUROPEAN PEFC & ELECTROLYSER FORUM is now open to the focus and to all of the topics listed below.

Technical Programme

www.EFCF.com/Conference

The three day technical conference will feature parallel lectures of invited and contributed papers and posters. Care will be taken by the Scientific Advisory Committee (SAC) to ensure that all presentations are of consistent high quality, yet valuable for participants with limited exposure to the subjects. The 6th EUROPEAN PEFC & ELECTROLYSER FORUM:

FOCUS Fuel Cells & Electrolysers

KEY TOPICS

Science & Know-how

Membrane related Electrochemical Processes/Hydrogen

- Materials, catalysts, cells, stacks, balance of plant components
- Characterisation, diagnostics, modelling, simulation, lifetime, durability, Degradation-Mitigation, Accelerated testing
- Hydrogen - fuel processing & purification
- storage materials & systems including theory and modelling

Bridge to Products

Component Performance

- State of the Art commercially available catalysts, membranes, MEAs, bipolar-plates, interconnects, seals,... stack modules & generators
- Stack and system design and integration
- Operation strategies and monitoring
- Low cost & high productivity manufacturing technologies, in line inspection & quality aspects

Industrial Achievements & R&D Inventions

Approches & Design of Systems, Applications & Combinations

- Experience and performance of power trains and vehicles – incl. hybrid applications
- Performance of electrolyser technologies: Implementation and market expectations
- Early market applications incl. portable and stationary applications – Use and integration in market environment

Exchange Platform

Special Topics

- Similarities & differences: Fuel cells – redox flow batteries
- Electro chemical CO₂ reduction: status & perspectives
- Microbial fuel cells – BioElectric-systems: Status, research findings and development

Abstract Submission

www.EFCF.com/AuthorCenter, .../AC

Members of academic institutions, research organizations and industry are invited to submit papers for presentation at the 6th EUROPEAN PEFC & ELECTROLYSER FORUM 2017. Technical papers dealing with above topics with emphasis on fundamentals, materials, components, systems and applications may be submitted via Author Center :

1. Download Abstract Template, Instructions & Samples from www.EFCF.com/Download
2. Upload your one-page abstract at www.EFCF.com/Upload by **30 November 2016**.
3. Receive notification about acceptance in February 2017 and submit then the full-length manuscripts by 30 April 2017.

For questions, please check www.EFCF.com/FAQ or email to ZBT-Toyota@efcf.com. The 6th EUROPEAN PEFC & ELECTROLYSER FORUM 2017 cannot provide financial support to authors of papers. Presenting authors should register for the Forum and pay the appropriate registration fee by 30 April 2016. Afterwards late registration charge applies. If you wish to present your products and services, please register for the EXHIBITION.

Publication Policy

www.EFCF.com/PP, www.EFCF.com/Library

All oral and poster presentations are published in Electronic Proceedings distributed to the participants. The manuscript abstract is printed in the „Conference Agenda“. Late abstracts cannot be considered for oral presentation.

As in previous years a limited number of contributions will be invited to be included in a Special Issue in the Journal „Fuel Cells – From Fundamentals to Systems“ published by Wiley-VCH. The 2012 – 2015 selected papers have been published for reference: EFCF 2013 – Volume 14, Issue 5 pg 671–774; EFCF 2015 – Volume 16, Issue 4 pg 404 – 515. The other contributions will be published as open accessible on-line publication with **ISBN 978-3-905592-22-1** on www.EFCF.com/LIB (Proceedings with ISBN, EFCF Special Issue Series).

Authors who do not wish to be included in the ISBN web publication, e.g. due to publication elsewhere, can opt out. The publication opportunities remain completely free for the authors. Final Announcement, programme and registration details are distributed by letter post and announced on www.EFCF.com/FA in March 2017.

Time Schedule

www.EFCF.com/Schedule

- 30 November 2016: Deadline for submission of abstracts via website – www.EFCF.com/Upload. All abstracts will be 3 times independently evaluated by the Scientific Advisory Committee and selected for oral or poster presentation. Authors are personally informed in February 2017. Late abstracts cannot be considered for oral presentation.
- 01 March 2017: Deadline for early registration privileges
- 15 March 2017: Final Announcement with definitive oral and poster programme and exhibitor list.
- 15 May 2017: Deadline for regular registration privileges and holding of convenient hotels.

Exhibition

www.EFCF.com/Exhibition

Adjacent to the auditorium a technical Fuel Cell & Hydrogen (FC&H₂) exhibition will be held. FC&H₂ industry and developers, suppliers, equipment providers, research laboratories, ... show their products and services and meet their current and future clients. Book your Booth on-line on www.EFCF.com/ByB

- Exhibits:**
- Systems
 - Prototypes
 - Related hardware
 - Materials
 - System components
 - Stack
 - Control devices
 - Production technology
 - Qualification and test benches
 - Diagnostic tools
 - Research results
 - and many more

Forum**Events**

www.EFCF.com/Events

- 4 July** 09.00–16.00: Exhibition & poster set-up, 16.00: Opening of Exhibition and Registration, 18.00: „Welcome Reception“
10.00–17.00: Fuel Cell and Hydrogen Tutorial
- 5 July** 09.00–18.00: International and Industrial Overviews – Keynotes – Oral and Poster Sessions, Exhibition, 18.30: „Swiss Surprise“
- 6 July** 09.00–18.00: Keynotes – Oral and Poster Sessions, Exhibition, 19.30: „Dinner on the Lake“, traditional pleasure boat trip to historical places and music
- 7 July** 09.00–17.00: Keynotes – Oral and Poster Sessions, Exhibition, Schoenbein Medal Award & Closing Ceremony

Venue

www.EFCF.com/Lucerne

The 6th EUROPEAN PEFC & ELECTROLYSER FORUM 2017 is traditionally held in Lucerne in conjunction with the FC&H₂ EXHIBITION and a FC&H₂ TUTORIAL. The conference centre is a well known location on the picturesque waterfront of the Lake Lucerne, easy to reach from the railroad station and within a short distance from many hotels.

Fees

www.EFCF.com/Fee

- Students, trainees and unemployed persons etc. with valid identification 580 CHF incl. 8% VAT where applicable
- Members of government, universities, consultants etc. 1280 CHF incl. 8% VAT where applicable
- Members of industry and commerce (340 CHF donation for student support) 1880 CHF incl. 8% VAT where applicable
- Late charge for registrations from 01 March/15 May 2017/for On-Site registration 120/220/370 CHF incl. 8% VAT where applicable
- Fuel Cell and Hydrogen Tutorial 500 CHF incl. 8% VAT where applicable

One Swiss Franc („CHF“) is valued at about 0.92 EURO or 1.04 US Dollar (Aug 2016). The fees include access to **conference** and **exhibition**, **Conference Agenda**, **Proceedings** of the 6th EUROPEAN PEFC & ELECTROLYSER FORUM 2017 and other **information**, **business lunches**, **refreshments**, **Welcome Reception** on Tuesday with wine and beer and **Dinner on the Lake** on Thursday (pleasure boat trip on picturesque lake). Optional: Swiss Surprise on Wednesday (120 CHF pp). **Post conference access** to all authorised presentations and available ISBN proceedings back to 1994.

Chairladies of the Conference



Dr. Isotta Cerri
Toyota Motor Europe
Belgium

Dr. Isotta Cerri worked as scientific researcher on catalytic processes at Politecnico di Torino after receiving a PhD in Chemical Engineering on catalytic combustions. She has been actively working in the field of fuel cell technologies for Toyota as from 2004 in the advanced technology department where currently she is leading the fuel cell, battery and robotics teams. In the area of fuel cells she has been developing innovative electrode membrane assemblies based on newly developed material, structures and manufacturing processes. For Toyota she has been involved in several bilateral cooperations in order to develop improved materials and production processes of the different components of the automotive fuel cell stack and high pressure hydrogen tanks to enable the commercialization of reliable and affordable fuel cell vehicles. She is the author of several publications and patents.



Prof. Dr. Angelika Heinzl
ZBT GmbH,
Universität Duisburg-Essen
Germany

Prof. Dr. Angelika Heinzl received her PhD in Chemistry at Carl-von-Ossietzky University, Oldenburg. The next 15 years, she joined the Fraunhofer-Institute for Solar Energy Systems ISE in Freiburg, first as coworker later on as head of the department „Energy Technology“ with research focus on PEM fuel cells, fuel processing, electrolyzers and Cr-Fe redox-flow batteries. In 2001, she accepted the offer of a chair in Energy Technology at University of Duisburg-Essen. The second offer for this position was the founding of ZBT, a center for fuel cell research in Duisburg, funded by the State of North-Rhine Westfalia. ZBT has meanwhile grown to an internationally well known center with about 100 coworkers.

Professor Heinzl acts as an expert for the EU and the AiF (German Federation of Industrial Research Associations). She is chairperson at Dechema for electrochemical processes, applied electrochemistry and VDI member of fuel cell group as well as of the steering committee of the Grove Fuel Cell Symposium. Numerous scientific publications on the topic of fuel cells have been published in the recent years.

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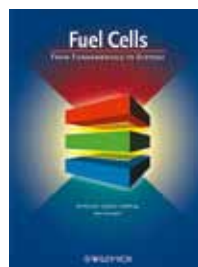
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International Board of Advisors www.EFCF.com/IBoA

6th EUROPEAN PEFC & ELECTROLYSER FORUM 2017 4 – 7 July 2017 Lucerne, Switzerland

- This high-level international fuel cell & electrolyser event offers a presentation of the state-of-the-art technology hosted in Switzerland
- Approximately 250 Technical contributions with full length manuscripts, available to download as Proceedings
- Modern conference facilities with excellent food and refreshments, and easy access from hotels
- Unique networking events: “Welcome Reception”, “Swiss Surprise”, and “Dinner on the Lake”

International Exhibition of fuel cell and hydrogen products and components. See www.EFCF.com/IMPRESSIONS

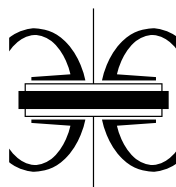


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