

Program

Sunday, 2 July, 2017

17:00 – 21:00 Register

From 18:00 *BUFFET DINNER / Informal get together*

19:00 – 19:10 Roswitha Zeis

Welcome and opening

19:10 – 20:10 Shanna Knights

**Fuel cell commercialization:
Progress and technology directions**

Monday, 3 July, 2017

08:00 *BREAKFAST*

Session “UNDERSTANDING FUEL CELL CATALYSTS”

09:00 – 09:50 Karl Mayrhofer

**Stability of fuel cell catalysts - from
fundamental studies to device
stability?**

09:50 – 10:40 Plamen Atanassov

**Platinum group metal-free catalysts for
fuel cells**

10:40 – 11:10 *COFFEE BREAK*

11:10 – 12:00 Michael Eikerling

**What determines the catalyst's activity
in a PEM fuel cell? Insights from
theory and modeling**

12:00 – 12:10 **Conference photo** (in front of the Physikzentrum/main entrance)

12:10 *LUNCH*

Program

Monday, 3 July, 2017

Session “DESIGN OF CATALYST LAYERS”

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| 14:00 – 14:50 | Renate Hiesgen | Ultra-thin ionomer layers in catalytic layers for electrodes: Structure and conductivity studied by Atomic Force Microscopy |
| 14:50 – 15:40 | Bastian J. M. Etzold | Improving ORR Catalysts by Ionic Liquid Modifications |
| 15:40 – 16:00 | <i>COFFEE BREAK</i> | |
| 16:00 | Poster session | |
| 18:00 | HERAEUS DINNER
(cold & warm buffet with complimentary drinks) | |

Program

Tuesday, 4 July, 2017

08:00 *BREAKFAST*

09:00 – 09:50 Pang-Chieh Sui **Mesoscopic Modeling of PEMFC
Catalyst Layers: Review & Outlook**

Session “PROCESSES IN MEMBRANE ELECTRODE ASSEMBLIES”

09:50 – 10:40 Steven Holdcroft **Materials Research Towards Next
Generation Pt- and Fluorine-Free Fuel
Cells**

10:40 – 11:10 *COFFEE BREAK*

11:10 – 12:00 Simon Thiele **A Simple Additive Membrane
Fabrication Method for PEM Fuel Cells**

12:00 *LUNCH*

13:30 **Excursion** **Boat trip to Linz followed by a guided
tour**

17:30 *DINNER*

18:30 – 19:20 Dietmar Gerteisen **Characterization of PEM fuel cells by
electrochemical impedance
spectroscopy**

19:20 – 20:10 Ingo Manke **In-Situ Imaging and Multiscale
Tomography in Fuel Cell Research**

Program

Wednesday, 5 July, 2017

08:00 *BREAKFAST*

09:00 – 09:50 Iryna Zenyuk

Water Transport in PEFCs with *In-situ* and *In-operando* X-ray Computed Tomography

09:50 – 10:40 Ludwig Jörissen

AutoStack-CORE: Steps towards the development of a European PEM fuel cell stack platform for automotive applications

10:40 – 11:10 *COFFEE BREAK*

11:10 – 12:20 **Session “Best of the Posters”
& Best Poster Awards**

12:20 – 12:30 Aimy Bazylak

Closing remarks

12:30 *LUNCH*

End of the seminar and departure

NO DINNER for participants leaving on Thursday morning.