

International workshop

Bipolar Plates for PEM technology

– coatings, manufacturing, test methods and parameters

Fronius Manufacturing and Logistic Facilities, Sattledt, Austria, May 20th 2015

The transportation sector is preparing for zero emission mobility and leading automobile manufacturers are beginning to launch fuel cell vehicles. Energy companies are correspondingly preparing for large scale production and distribution of hydrogen to cover the increasing fuel demand. Bipolar plates still contribute significantly to stack costs, and progress is needed to meet the cost and lifetime targets

COBRA and STAMPEM are two FCH JU funded projects focusing on bipolar plates for PEM fuel cells, covering base material and coating development, test methods and parameters, processing and manufacturing. Results and development status of these two projects will be presented, and in addition, other central actors are invited to present their technology, concepts and research focus.

More information about the projects is found here:

www.stampem.eu

www.cobra-fuelcell.eu/



STAMPEM

Organizing committee:

Anders Ødegård, SINTEF, Norway
Gilles Moreau, CEA, France
Ewald Wahlmüller, Fronius, Austria



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Agenda

- 07:45 Bus transfer from Hotel Ploberger, Wels (<https://goo.gl/UjX4VX>)
- 08:30 Registration and coffee
- 09:00 ***Opening of the workshop***
Anders Ødegård, SINTEF, Norway
- 09:05 ***Welcome to Fronius***
Ewald Wahlmüller, Fronius, Austria
- 09:15 ***"STAMPEM – project overview and progress/results"***
Anders Ødegård, SINTEF, Norway
- 09:40 ***"COBRA – project overview and progress/results"***
Gilles Moreau, CEA, France
- 10:05 ***"Metallic Bipolar plates for PEM fuel cells – status, potential and challenges"***
Michael Götz, EK, Germany
- 10:30 *Coffee*
- 10:45 ***"Protective coating for stainless steel BPPs – high performance at low cost"***
Henrik Ljungcrantz, Impact Coatings, Sweden
- 11:10 ***"PVD coatings for PEM BPP"***
Philip Hamilton, MIBA Teer Coatings, UK/Austria
- 11:35 ***"Surface Engineering and Bipolar Plate: an Holistic approach"***
Bernard Normand, INSA Lyon, France
- 12:00 *Lunch*
- 13:00 ***On-site tour at Fronius manufacturing and logistic facilities Sattledt***
- 14:10 ***"Pre-coated stainless steel for large scale production of fuel cell bipolar plates"***
Hanna Bramfeldt, Sandvik Materials Technology, Sweden
- 14:35 ***"Test methods for PEMFC metallic bipolar plates"***
Gareth Hinds, NPL, UK
- 15:00 ***"Low Cost coating for PEMFC Metal Bipolar Plates"***
Conghua Wang, TreadStone Technologies, Inc, USA
- 15:25 Coffee & **Further discussions and Q & A from the workshop attendees**
- ~16:00 End of workshop and transfer to Hörsching (by bus):
Visit DB Schenker cross dock terminal - fuel cell fork lifts and refuelling
- 19:00 **Boat trip and dinner on the Danube with MS "Linzerin"**
- 22:30 Bus transfer back to Hotel Ploberger, Wels

Welcome to Wels/Sattled, Austria

The workshop will be held in Wels/Sattled, Austria, at the site of Fronius International GmbH. Information about the location and accommodation can be found here:

Workshop location:

Fronius Sattledt, Fronius Straße 5, 4642 Sattledt

Map: <http://goo.gl/FMIDYq>

Hotels for accommodation in the city of Wels:

<http://goo.gl/ZnIXo6>

Fee and Registration:

The participation fee of EURO 100 includes lunch, refreshments during coffee breaks, evening dinner (<http://www.donauschiffahrt.de/de/unsere-flotte/ms-linzerin.html>) and the visits planned in the agenda.

Registration before May 14th or questions? Contact:

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