

09:00 A01: P1: Opening Session, Keynotes by FCH JU & by Linde

- 09:00 **Welcome by the Organizers (A0101)**
Michael Spirig, Olivier Bucheli; European Fuel Cell Forum, Lucerne/Switzerland
- 09:05 **Welcome by the Chairs (A0102)**
Hubert A. Gasteiger, Aliaksandr Bandarenka Technical Electrochemistry, Dep. of Chemistry & Catalysis Research Center, Technical Uni of Munich, Garching/Germany
- 09:15 **Welcome to Switzerland (A0103)**
Stefan Oberholzer, Rolf Schmitz, Benoît Revaz
Swiss Federal Office of Energy, Bern/Switzerland
- 09:30 **K1: On Programs of the Fuel Cells and Hydrogen Joint Undertaking in the EU (A0104)**
Mirela Atanasiu, Antonio Aguilo-Rullan; FCH JU, Bussels/Belgium
- 10:00 **K2: Industrial Perspective on H2 Purification, Compression, Storage, and Distribution (A0105)**
Andreas Peschel
Linde Aktiengesellschaft, Linde Engineering, Pullach bei München/Germany

10:30 Break - Ground Floor in the Exhibition**Futher Keynotes**

- 4 July **K3: Recent Progress in PEFC Technology and Future Direction (A0601)**
09:00 Yuji Kamitaka, Akihiro Shinohara, Takahisa Suzuki, Haruhiko Yamada, Kensaku Kodama, Ryosuke Jinnouchi, Yu Morimoto; Toyota Central R&D Labs., Inc., Nagakute Aichi/Japan
- 5 July **K4: An Industrial Perspective on Challenges and Opportunities for Low Temperature Water Electrolysis (A1201);** Katherine Ayers, Everett Anderson, Chris Capuano: NEL Hydrogen/Proton OnSite, Wallingford CT/USA
- 15:40 **K5: Gold Medal Winner Keynote 2019: From Hydrogen Generation to Fuel Cells: A Short Journey (A1604)**
Thomas Schmidt; Paul Scherrer Institut; Villigen PSI/Switzerland

All Invited Talks

- 3 July **I1: Opportunities and Challenges of a Hydrogen Infrastructure (A0201)**
11:00 Detlev Stolten; Institute for Energy and Climate Research, IEK-3: Electrochemical Process Engineering Juelich Research Center, Juelich/Germany
- I3: Multi-step Kinetic Model for Pt Dissolution (B0201)**
Kunal Karan (1), Barath Jayasankar (2); (1) Department of Chemical and Petroleum Engineering, Uni. of Calgary, Calgary AB/Canada, (2) FCP Fuel cell powertrain GMBH, Chemnitz/Germany
- 12:00 **I2: Pathing the ways for Europe's Hydrogen Economy (A0205)**
Jorgo Chatzimarkakis; Hydrogen Europe, Brussels/Belgium
- 14:30 **I4: Hydrogen Vision of Hyundai Motor Group (A0401)**
Duckhwan Kim; Hyundai Motor Group, Youngin-si, Gyeonggi-do/Korea
- I5: Decoding Structure - ORR Activity Relationships Thanks to Surface Distortion (B0401)**
Raphaël Chattot (1, 2), O. Le Bacq (3), A. Pasturel (3), Pierre Bordet (3), J. Drnec (2), L. Dubau (1), Frédéric Maillard (1);
(1) Univ. Grenoble Alpes, CNRS, Grenoble-INP, Université Savoie-Mont-Blanc, (2) European Synchrotron Radiation Facility, (3) Univ. Grenoble Alpes, CNRS, Grenoble/France
- 4 July **I6: Elucidating the causes of the high activity and stability - or lack thereof - of model oxide electrodes for oxygen evolution for water electrolysis (B0701)**
09:30 Ifan E. L. Stephens; Imperial College London, Department of Materials, London/UK
- 14:30 **I7: Towards Stable Anion Exchange Membranes (B1001)**
Steven Holdcroft (1), Jiantao Fan (1), Thomas J. G. Skalski (1), Wei Li (1), Eric Schibli (2), Barbara Frisken (2); Simon Fraser University:
(1) Department of Chemistry, (2) Department of Physics, Vancouver/Canada
- 15:30 **I8: Anion Conducting Membranes for Water Electrolysis: Translating ex-situ Properties into in-situ Performance (B1005)**
Artjom Maljusch, Patrick Borowski, Oliver Conradi; ; Evonik Creavis GmbH, Marl/Germany
- 5 July **I9: Sector coupling through hydrogen: Which electrolyzers do we need in the future? (A1401)**
11:00 Tom Smolinka; Fraunhofer-Institut für Solare Energiesysteme ISE; Freiburg/Germany
- I10: Platinum Group Metal-free Electrocatalysts for Fuel Cell Applications (B1401)**
Piotr Zelenay, Xi Yin, Hoon T. Chung, Siddharth Komini Babu, Ulises Martinez, Geraldine M. Purdy, Edward F. Holby; Los Alamos National Laboratory; Los Alamos NM/USA