32nd Topical Meeting of the International Society of Electrochemistry
19 - 22 June 2022
Stockholm, Sweden

Experimental and Modelling tools for Electrochemical Energy Devices

https://topical32.ise-online.org
e-mail: events@ise-online.org
Sponsors

- Perkins
- COMSOL
- Volvo
- Nouryon
- STand UP for ENERGY
- BASE Batteries Sweden

Exhibitors

- IVium Technologies
- SpectroInlets
- PINflow Energy Storage
- Gamry Instruments
- rhdi instruments

Campus “Valhallavägen”
KTH, Royal Institute of Technology
Brinellvägen 8, Stockholm, Sweden
Underground station: Tekniska Högskolan (red line) or bus nr 4. Public transport: www.sl.se
https://www.kth.se/en/om/kontakt/campus/kth-campus-1.640118
Charge Ahead in Battery Design
with COMSOL Multiphysics®

Multiphysics simulation helps in the development of innovative battery technology by providing insight into mechanisms that impact battery operation, safety, and durability. The ability to run virtual experiments based on multiphysics models, from the detailed cell structure to battery pack scale, helps you make accurate predictions of real-world battery performance.

» comsol.com/feature/battery-design-innovation
The Volvo Group drives prosperity through transport and infrastructure solutions, offering trucks, buses, construction equipment, power solutions for marine and industrial applications, financing and services that increase our customers’ uptime and productivity and contributes significantly to a sustainable and carbon-free society and cleaner, quieter, emission-free streets and transport corridors. Volvo strongly believes that a single solution response will not be sufficient to meet increased demand for sustainable transport and infrastructure solutions (see figure below).

Battery and fuel cell technologies are the main track with internal combustion engines run on fossil free fuels as a complement. To accelerate the use of hydrogen-based fuel cells for long-haul trucks and beyond, Volvo Group has established a Joint Venture (cellcentric) together with Daimler Truck AG. The core of the strategy is to build cellcentric into one of the world’s leading manufacturers of fuel cell systems. Large-scale production is scheduled to start during the second half of the decade.
Program of the

32nd Topical Meeting
of the
International Society of
Electrochemistry

Experimental and Modelling tools
for Electrochemical Energy Devices

19-22 June 2022
Stockholm, Sweden

Organized by:
Division 3 Electrochemical Energy Conversion and Storage
Division 5 Electrochemical Process Engineering and Technology
ISE Region Sweden
Organizing Committee

Daniel Brandell, Uppsala University, Sweden
Göran Lindbergh, KTH, Sweden
Rakel Wreland Lindström, KTH, Sweden
Iryna Zenyuk, University of California, USA
Alejandro Franco, Picardie University, France
Andrea Balducci, University of Jena, Germany
Chi-Chang Hu, National Tsing Hua University, Taiwan

Local Organizing Committee

Ann Cornell, KTH Royal Institute of Technology
Leif Nyholm, Uppsala University
Björn Wickman, Chalmers University of Technology
Elisabeth Ahlberg, Göteborg University
# Table of Contents

Front Matter ........................................................................................................ i - vi

*Oral presentation program*

Sunday .................................................................................................................. 1
Monday morning ................................................................................................. 3
Monday afternoon ............................................................................................... 5
Tuesday morning ................................................................................................. 14
Tuesday afternoon .............................................................................................. 16
Wednesday morning .......................................................................................... 24
Wednesday afternoon ......................................................................................... 26

*Poster presentations* .......................................................................................... 35

Monday-Wednesday: *Posters of symposia 1-6*

Index ..................................................................................................................... 53
Sunday 19 June

Registration & Welcome Reception
Stockholm City Hall. Stadshuset, Hantverkgatan 1. Stockholm

18:00-19h00  Registration
19:00-21h00  Welcome Reception

Hosted by the City of Stockholm
Speech: Ann-Katrin Åslund, Vice-president of the Stockholm City Council & Prof. Marc Koper, President ISE

Monday 20 June

Museum Tour & Gala Dinner
Moderna Museet. Skeppholmen, Stockholm

18:15-19h15  Tour of the Modern Art Museum
19:15-23h00  Dinner at the Modern Art Museum

Getting there: Undergrund red line to “Östermalms torg” and walk 1,5 km or busses from central station.
https://www.modernamuseet.se/stockholm/en/visit-the-museum/access/find-us/
Monday 20 June - Morning

Opening Ceremony

**Room F1**

**09:00 to 09:20**

Lindstedtsvägen 22 and 26

KTH - Campus “Valhallavägen”
Brinellvägen 8, Stockholm, Sweden

---

Keynote

**Room F1**

*Chaired by: Daniel Brandell*

**09:20 to 10:00 Keynote Invited**

**Hubert A. Gasteiger** (*Chemistry Department, Chair of Technical Electrochemistry, Technical University of Munich, Garching, Germany*), Moritz Bock, Stefan Oswald, Felix Riewald

Quantifying Particle Cracking of Lithium Ion Battery Cathode Active Materials *via* Gas Physisorption and Impedance Spectroscopy

**10:00 to 10:20**

Coffee Break
Joint Session

Room F1

Chaired by: Daniel Brandell

10:20 to 10:40

Paul Shearing (The Electrochemical Innovation Lab, UCL, London, United Kingdom)
Understanding battery electrode microstructures using advanced X-ray and correlative imaging methods and image based modelling

10:40 to 11:00

New Experimental Tools to Test Electrocatalysts Dissolution Stability at Realistic Operation Conditions

11:00 to 11:20 Invited

Nina Simic (Nouryon, Nouryon, Bobus, Sweden), Adriano Gomes, Annicka Sellin, Mats Wildlock
Combinatory Techniques for Explorative Development of Complex Industrial Systems

11:20 to 11:40

Margret Wohlfahrt-Mehrens (Accumulators Materials Research, ZSW - Zentrum für Sonnenenergie- und Wasserstoff-Forschung, Ulm, Germany)
Key characterization parameter for fast charging of Lithium-Ion Batteries: From materials aspects to complete cells
Monday 20 June 2022 - Afternoon

S4 - Storage - Batteries for E-mobility
Room F1

Chaired by: Ann-Marie Svensson & Miran Gaberscek

13:30 to 13:45

Johannes Wiedemann (Institute of Engineering Thermodynamics, German Aerospace Center (DLR), Stuttgart, Germany), Timo Danner, Simon Hein, Arnulf Latz

Linking Particle Design to Cell Performance by Electrochemical Simulations

13:45 to 14:00

Mesfin Haile Mamme (Research Groups Electrochemical and Surface Engineering (SUR, Vrije Universiteit Brussel, Brussels, Belgium), Lieven Bekaert, Marta Cazorla, Frank De Proft, Mohamed El Marini, Annick Hubin, Xinhua Zhu

Toward the Understanding of Solid-Electrolyte/Electrode Interfaces of All-Solid-State Batteries: Multiscale Modelling Approach

14:00 to 14:15

Marcus Hedegärd (Traction battery, Volvo Car Corporation, Gothenburg, Sweden), Annika Ahlberg Tidblad, Fredrik Bengtsson

Compensation of Hysteresis in Battery Cells for Improved State of Health Estimation Using the Prandtl-Ishlinskii Model

14:15 to 14:30

Stefan Herberich (Simulation & Test Solutions, Siemens Industry Software GmbH, Nuremberg, Germany), Chad Balen, Gaetan Damblanc, Christian Fischer-Walchshofer, Boris Kaludericic

Modeling of Nonuniform Degradation Mechanisms in Lithium-Ion batteries
14:30 to 14:45

**Moritz Streb** *(Department of Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden)*, Malin Andersson, Mikael Johansson, Matilda Klett, Göran Lindbergh, Verena Löfqvist Klass

Global Sensitivity Analysis of DFN Model Parameters Using Real Vehicle Input Data

14:45 to 15:00

**Franco M. Zanotto** *(Laboratoire de Reactivite et Chimie des Solides, CNRS - UPJV, Amiens, France)*, Alejandro A. Franco, Chaoyue Liu, Hassan Oularbi, Franco M. Zanotto, Diana Zapata Dominguez

Computational Study of the Effect of Binder Expansion in Lithium Ion Battery Electrodes

15:00 to 15:30

Coffee Break

15:30 to 15:45

**Karsten Voigt** *(Institute of Materials Science, Technical University Dresden, Dresden, Germany)*, Christian Heubner, Alexander Michaelis, Michael Schneider

Simple Computational Tools to Support Li-ion Battery Development

15:45 to 16:00

**Julius Weinmiller** *(Institute of Engineering Thermodynamics, German Aerospace Center (DLR), Stuttgart, Germany)*, Timo Danner, Benjamin Kellers, Arnulf Latz, Martin Lautenschlaeger

Dissolution and Precipitation in Conversion-Type Battery Systems using Lattice Boltzmann Method

16:00 to 16:15

**Masashi Ishikawa** *(Department of Chemistry and Materials Engineering, Kansai University, Suita, Japan)*, Tomoya Hidaka, Shinya Morimoto, Shigeaki Yamazaki

Improvement of NMC622 LIB Performance by Fluorinated Solvent-based Electrolyte and its Interfacial Analysis
16:15 to 16:30

Frank Uwe Renner (Institute for Materials Science IMOMEC, Hasselt University, Diepenbeek, Belgium), Frank Uwe Renner, Markus Valtiner

Using a Surface Forces Apparatus for Battery Interfaces

16:30 to 16:45

Yu-Kai Huang (Inorganic Chemistry, Uppsala University, Uppsala, Sweden), Leif Nyholm

Stabilizing Lithium-Metal Electrodes via an In-situ Electrochemical Strategy

16:45 to 17:00

Bethan J V Davies (Department of Materials, Imperial College London, London, United Kingdom), Mary Ryan, Ifan E L Stephens, Daisy B Thornton

Mechanisms of Chemical Degradation in Lithium-Ion Batteries with Electrochemical-Mass Spectrometry
S1 - Conversion - Water electrolysis

Room F2

Chaired by: Elena Baranova & Marc Koper

13:30 to 13:45

**Olga Krysiak** *(Analytical Chemistry, Centre for Electrochemical Sciences, Ruhr University, Bochum, Germany), Lars Banko, Alfred Ludwig, Wolfgang Schuhmann*

High-throughput multi-element electrocatalysts discovery

13:45 to 14:00

**Soren Scott** *(Materials, Imperial College London, London, United Kingdom), Kenneth Nielsen, Ifan Stephens*

The *in-situ* experimental data tool, ixdat: An open-source python package for electrochemistry data

14:00 to 14:15

**Nadiia Kulyk** *(Dynamics of Complex Fluids and Interfaces, Helmholtz Institute Erlangen-Nürnberg, Erlangen, Germany), Jens Harting, Marcello Sega*

Lattice Boltzmann Simulations of Electrochemical Water Conversion

14:15 to 14:30

**Ioannis Spanos** *(Heterogeneous Reactions, Max Planck Institute for Chemical Energy Conversion, Mülheim an der Ruhr, Germany)*

Electrogravimetry as a tool to investigate mass changes during OER: A case study on the effect of surface species on a Ni-based electrocatalyst

14:30 to 14:45

**Philippe Mandin** *(Energy and Electrochemistry Engineering, South Brittany University, Lorient, France), Tatiana Kozlova, Michael Lipkin, Miroslav Liplyavka*

Multi Electrode pH Sensor Design for Smart Alkaline Electrolyser
14:45 to 15:00

**Bhavana Gupta** (Electrode Process, Institute of Physical Chemistry, Warsaw, Poland), Ashwin Ambrose, Ariba Aziz, Marcin Holdynski, Wojciech Nogala

*Localized photo-scanning electrochemical microscopic measurement for the estimation of oxygen evolution*

15:00 to 15:30

Coffee Break

15:30 to 15:45

**Katarzyna Siuzdak** (Centre for Plasma and Laser Engineering, Gdansk, Poland), Katarzyna Grochowska, Jan Hanus, Dujearic Kouao, Ondrej Kylian, Peter Sezemsky, Radka Simerova, Vitezslav Stranak

*Double-Sided Semitransparent Electrode Material Based on The Ordered Titania Nanotubes.*

15:45 to 16:00

**Lisa Royer** (heterogeneous catalysis, ICPEES - Strasbourg university, Strasbourg, France), Tristan Asset, Antoine Bonnefont, Benoit Pichon, Benjamin Rotonelli, Elena Savinova, Juan Velasco Velez

*In situ NEXAFS investigation of the oxygen evolution reaction on core shell cobalt iron oxide nanoparticles*

16:00 to 16:15

**Anja Loncar** (Department of Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia), Marjan Bele, Nejc Hodnik, Primoz Jovanovic, Ana Rebeka Kamsek, Gorazd Koderman Podborsek, Luka Suhadolnik

*Atomically-resolved insights into structural changes of supported nanoparticulate Ir catalyst for oxygen evolution reaction*

16:15 to 16:30

**Marc Tesch** (Heterogeneous Reactions, Max Planck Institute for Chemical Energy Conversion, Mülheim an der Ruhr, Germany), Shannon Bonke, Ronny Golnak, Robert Schlägl, Alexandr Simonov, Ioannis Spanos, Jie Xiao

*Vacuum Compatible Flow-Cell for High-Quality *in situ* and operando Soft X-ray Photon-Photon-out Spectroelectrochemistry*
16:30 to 16:45

**Mandana Amiri** (Institute of Chemistry, Carl von Ossietzky Universität Oldenburg, Oldenburg, Germany), Abolfazl Bezaatpour, Simon Sprengel, Heinrich Vocke, Michael Wark

Co/Ni-metal Organic Framework Electrocatalyst for Water Oxidation

16:45 to 17:00

**Elena Baranova** (Department of Chemical and Biological Engineering, University of Ottawa, Ottawa, Canada), Emily Cossar, Frédéric Murphy

Nickel-based Nano-catalysts for Anion Exchange Membrane Water Electrolysis
S6 - Storage - Stationary battery technologies

Room F3

Chaired by: Jens Noack & Johan Hjelm

13:30 to 13:45

**Pekka Peljo** (Department of Mechanical and Materials Engineering, University of Turku, Turku, Finland), Irene Balducci, Gabriel Gonzalez, Jenna Hannonen, Jerzy Jasielec, Mahdi Moghaddam, Mahsa Shahsavan, Cedrik Wiberg

**Combined Experimental and Modelling Approach to Accelerate Development of Flow Batteries for Stationary Energy Storage**

13:45 to 14:00

**Eric Fell** (School of Engineering and Applied Sciences, Harvard University, Cambridge, USA), Michael Aziz

**Leveraging Temperature-Dependent (Electro)chemical Kinetics for High-Throughput Screening of Flow Battery Active Material**

14:00 to 14:15

**Amirreza Khataee** (Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden), Patric Jannasch, Hannes Nederstedt, Rakel Wreland Lindström

**Electrochemical Evaluation of Poly(p-terphenyl)-based Proton Exchange Membranes for Vanadium Redox Flow Batteries**

14:15 to 14:30

**Baichen Liu** (Department of Energy Conversion and Storage, Technical University of Denmark, Kongens Lyngby, Denmark), Johan Hjelm

**Morphological Properties and Electrochemical Performance for Carbon-fiber Electrodes under Varying Compression Ratios in Redox Flow Batteries**

14:30 to 14:45

**Muhammad Faizan Chinannai** (Department of Mechanical Engineering, Inha University, Incheon, Korea), Hyunchul Ju

**Parametric Analysis for Performance Improvement of H₂/Br₂ Redox Flow Batteries**
14:45 to 15:00

**Charbel Jose El Khoury** *(Service de Recherches de Métallurgie Physique (SRMP), Université Paris-Saclay, CEA, Gif-sur-Yvette Cedex, France)*, Fabien Bruneval, Maylise Nastar

*An ab-initio Based Thermodynamic Modeling of the Li-Si System.*

15:00 to 15:30

Coffee Break

15:30 to 15:45

**Britta Doppl** *(Institute of Technical Thermodynamics, German Aerospace Center, Stuttgart, Germany)*, Niklas Hermann, Birger Horstmann

*Modelling of Side Reactions in Nickel-Zinc Battery Cells*

15:45 to 16:00

**Masatsugu Morimitsu** *(Dept of Science of Environment and Mathematical Modeling, Doshisha University, Kyotanabe, Japan)*, Takuya Okumura, Mayu Yasuda

*Electrolyte Zone Separation to Inhibit Non-uniform Anode’s Reactions in Zinc Rechargeable Battery*

16:00 to 16:15

**Roza Bouchal** *(Colloid Chemistry, Am Mühlenberg 1, Potsdam, Germany)*, Markus Antonietti

*Highly Concentrated Aqueous Electrolytes for Zinc Metal Batteries*

16:15 to 16:30

**Jonas Hereijgers** *(Applied Electrochemistry & Catalysis, University of Antwerp, Antwerp, Belgium)*, Renée De Wolf

*D Printed Mixer Electrodes for Redox Flow Batteries*

16:30 to 16:45

**Ritambhara Gond** *(Structural Chemistry, Uppsala University, Uppsala, Sweden)*, Habtom Desta Asfaw, Kristina Edström, Omid Hosseinaei, Andrew J. Naylor, Reza Younesi

*Water-Soluble Lignosulfonate Binder for Hard Carbon Anodes in Sodium-Ion Battery*
16:45 to 17:00

**Gints Kucinskis** (Laboratory of Materials for Energy Harvesting and Storage, Institute of Solid State Physics, University of Latvia, Riga, Latvia), Gunars Bajars, Beate Kruze, Inara Nesterova, Matiss Sondars

**Advanced Cathodes for Na-ion Batteries: Na_{0.67}MnO_2 and Na_2FeP_2O_7/C**
Tuesday 21 June 2022 - Morning

Joint Session

Room F1

Chaired by: Ann Cornell & Björn Wickman

09:00 to 09:20 Invited

Alessandro Minguzzi (Department of Chemistry, Università degli Studi di Milano, Milano, Italy)

An unexpected journey from electrochemistry to the emergence of life

09:20 to 09:40 Invited

Nuria Garcia-Araez (Chemistry, University of Southampton, Southampton, United Kingdom), Daniel Brandell, Yu-Chuan Chien, Liam Furness, Matthew Lacey, John Lampkin, He Li, Rinaldo Raccichini

Identifying the fundamental causes limiting the performance of metal-sulfur batteries

09:40 to 10:00

Xaver Lamprecht (Physics, Chair of Energy Conversion and Storage, Technische Universitaet Muenchen (TUM), Garching, Germany), Aliaksandr Bandarenka

Degradation Mechanism of Prussian Blue Analogue Electrodes in Aqueous Sodium-Ion Batteries

10:00 to 10:20

Kristina Tschulik (Chemistry and Biochemistry, Ruhr University Bochum, Bochum, Germany), Pouya Hosseini, Bettina Lotsch, Andres Rodriguez, Svetlana Shachneva, Liang Yao

Investigation of the Active Sites of Metal-ion functionalized Covalent Organic Frameworks in Oxygen Evolution Reaction Catalysis

10:20 to 10:40

Coffee Break
10:40 to 11:00 Invited

Anagha Sasikumar (*Chemistry, CIRIMAT, Université Toulouse 3, Toulouse, France*), Camille Bacon, Anouar Belhboub, Alexander Forse, Clare Grey, John Griffin, Céline Merlet, Patrice Simon

*A Detailed Interpretation of In-Situ NMR Spectra for Supercapacitors Mediated Through a Mesoscopic Model*

11:00 to 11:20

Mariela Brites Helu (*LCPME, CNRS - Université de Lorraine, Villers les Nancy, France*), Ranine El Hage, Mathieu Etienne, Liang Liu

*Local Electrochemistry of Carbon Felt Electrodes by Scanning Gel Electrochemical Microscopy: Experiments and Modelling*

11:20 to 11:40

Christian Durante (*Department of Chemical Sciences, University of Padova, Padova, Italy*), Tommaso Caccaro, Alessandro Facchin

*Metal Porphyrins as Single Site Catalyst Models Explored by Electrochemical Scanning Tunnelling Microscopy: A New Perspective in Electrocatalysis*

11:40 to 12:00

Regina Kluge (*Department of Physics (ECS), Technical University of Munich, Garching, Germany*), Aliaksandr Bandarenka, Richard Haid, Thorsten Schmidt

*Identification of Active Sites on Transition Metal Surfaces for the Oxygen Reduction and Evolution Reactions under Reaction Conditions*
Tuesday 21 June 2022 - Afternoon

S4 - Storage - Batteries for E-mobility

Room F1

Chaired by: Frank Renner & Magret Wohlfart-Mehrens

14:00 to 14:15

Guiomar Hernandez (Department of Chemistry, Uppsala University, Uppsala, Sweden), Daniel Brandell, Isabell L. Johansson, Alma Mathew, Jonas Mindemark, Christofer Sångeland

Beyond Sweep Voltammetry to Assess Electrochemical Stability of Electrolytes

14:15 to 14:30

Lukas Neidhart (Center for Low Emission Transport, AIT Austria Institute of Technology GmbH, Vienna, Austria)

Tortuosity Measurements as a Tool to Analyse Thick, Multi-Layered Cathodes for Li-Ion Batteries

14:30 to 14:45

Daniel Martín-Yerga (Department of Chemistry, University of Warwick, Coventry, United Kingdom), Mounib Bahri, Nigel D. Browning, Alexander J. Cowan, Matthew E. Curd, Laurence J. Hardwick, Minkyung Kang, B. Layla Mehdi, David C. Milan, Patrick R. Unwin, Xiangdong Xu

Correlative Electrochemical Multi-Microscopy to Reveal Structure-Function Relationships in Battery Materials

14:45 to 15:00

Ahmed S. Etman (Department of Chemistry Ångström Laboratory, Uppsala University, Uppsala, Sweden), Leif Nyholm

High-Voltage Li-ion Batteries: Insights into the Corrosion of Aluminum Current Collectors in Carbonate Electrolytes
15:00 to 15:15

**Alexander Smith** *(Chemical Engineering, KTH, Stockholm, Sweden)*, Yuan Fang, István Furó, Göran Lindbergh, Rakel Wreland Lindström

*Post mortem quantification of lithium plating in commercial battery components by NMR spectroscopy*

15:15 to 15:30

**Andrew Lodge** *(Warwick Manufacturing Group, University of Warwick, Coventry, United Kingdom)*, Anup Barai, Zexin Huang, Anubhav Singh, W. Dhammika Widanage

*The detection of battery faults in aerospace vehicles using a reference performance test*

15:30 to 15:45

**Seda Ulusoy** *(Material Science and Engineering, Uppsala University, Uppsala, Sweden)*, Hyeun Kim, German Salazar-Alvarez, Peter Svedlindh, Mario Valvo

*In-situ monitoring of structural changes of Fe₂O₄ via magnetism during cycling*

15:45 to 16:15

Coffee Break

16:15 to 16:30

**Ahmad Omar** *(Institute for Complex Materials, Leibniz Institute for Solid State and Materials Research IFW, Dresden, Germany)*, Ronny Buckan, Mikhail V. Gorbunov, Daria Mikhailova

*Operando studies on stoichiometric and Li-excess compositions of Ni-rich layered oxide cathode materials: Understanding the structural transformations and degradation mechanisms*

16:30 to 16:45

**Marta Cazorla Soult** *(Materials and Chemistry, Vrije Universiteit Brussel, Brussels, Belgium)*, Robert Gehlhaar, Annick Hubin, Alex Morata, Valerie Siller, Albert Tarancon, Philippe M. Vereecken, Pawel J. Wojcik, Xinhua Zhu

*Spectroscopic Ellipsometry as a tool for operando monitoring of thickness and optical properties of high voltage lithium-ion electrodes*
16:45 to 17:00

**Oliver Lohrberg** *(Institute of Materials Science, TU Dresden, Dresden, Germany), Christian Heubner, Sebastian Maletti, Alexander Michaelis, Michael Schneider*

*Operando Electrochemical Dilatometry to Study Li-Deposition on Lithiophilic Interphases in Zero-excess Li-Metal Batteries*

17:00 to 17:15

**Nicholas Carboni** *(Istituto dei Sistemi Complessi, Consiglio Nazionale delle Ricerche, Rome, Italy)*

*Towards anodeless lithium metal negative electrodes for secondary aprotic batteries*

17:15 to 17:30

**Florian Gebert** *(Structural Chemistry, Uppsala University, Uppsala, Sweden), Andrew J. Naylor*

*A comparative study of state-of-the-art non-flammable liquid electrolytes*

17:30 to 17:45

**Bharathan Govindarajan** *(Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden), Anna Banasiak, Kerstin Forsberg, Stefanie Zekoll*

*Electrolyte Contamination and its Interaction with Alloys in Lithium-Ion Battery Cells*
S2 - Conversion - Fuel cells

Room F2

Chaired by: Ulrike Krezer & Björn Eriksson

14:00 to 14:15

Richard Haid (Physics, Technical University of Munich, Garching, Germany), Aliaksandr Bandarenka, Federico Calle-Vallejo, Regina Kluge, Thorsten Schmidt

High-Resolution Imaging of Active Sites under Reaction Conditions for Carbon-Based Electrocatalysis

14:15 to 14:30

Nejc Hodnik (Department of Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia), Marjan Bele, Armin Hrnjic, Primoz Jovanovic, Ana Rebeka Kamsek, Anja Loncar, Andraz Pavlisic, Francisco Ruiz-Zepeda, Luka Suhadolnik

Possibilities of Identical Location Transmission Electron Microscopy in Electrocatalysis

14:30 to 14:45

Xiaoting Chen (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands)

In situ EC-AFM study of the initial stages of cathodic corrosion of Pt(111) and polycrystalline Pt in acid solution

14:45 to 15:00

Linnea Strandberg (Physics, Chalmers University of Technology, Gothenburg, Sweden), Carina Lagergren, Goran Lindbergh, Mathilde Luneau, Victor Shokhen, Bjorn Wickman

Oxygen Adsorption and Platinum Dissolution in Acid and Alkaline Solutions using Electrochemical Quartz Crystal Microbalance

15:00 to 15:15

Michal Ronovsky (ID31, Structure of Materials, Experiment Division, European Synchrotron Radiation Facility, Grenoble, France), Alex Martinez Bonastre, Fabio Dionigi, Jakub Drnec, Malte Klingenhof, Isaac Martens, Marta Mirolo, Lujin Pan, Jonathan Sharman, Peter Strasser

Finding Utilization Boundaries for Pt-based Catalysts in an Operating PEMFC
15:15 to 15:30

Florent Vandenberghe (University Grenoble Alpes, CEA-LITEN, Grenoble, France), Marian Chatenet, Fabrice Micoud, Arnaud Morin, Pascal Schott

Coupling Experiments and Modeling: Towards a Better Understanding of PEMFC Operation

15:30 to 15:45

Timothée Drugeot (Department of Electricity and Hydrogen for Transport, CEA LITEN, Grenoble, France), Yann Bultel, Fabrice Micoud, Eric Pinton, Jean-Philippe Poirot-Crouvezier, Lucas Poupin, Sébastien Rosini

Physicochemical properties evolution of cathodic catalyst layer and cell performance improvement during PEMFC start-up with mitigation strategies

15:45 to 16:15

Coffee Break

16:15 to 16:30

Eva Marra (Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden), Henrik Grimler, Carina Lagergren, Göran Lindbergh, Gerard Montserrat Siso, Björn Wickman, Rakel Wreland Lindström

Benchmarking ORR catalytic activity by studying a Pt film electrode in an Anion Exchange Membrane Fuel Cell

16:30 to 16:45

Catherine Weiss (Chemical and Biomolecular Engineering, University of Delaware, Newark, USA), Brian Setzler, Yushan Yan

Investigation of Carbon Corrosion Effect for Durability in Hydroxide Exchange Membrane Fuel Cells

16:45 to 17:00

Florian Chabot (CEA, Liten, Univ. Grenoble-Alpes, Grenoble, France), Arnaud Morin, Sébastien Rosini

Insights into the ionomer structure contained in PEMFC electrodes with Small Angle Neutron Scattering
17:00 to 17:15

**Tobias Schmitt** *(CR, Robert Bosch GmbH, Stuttgart, Germany)*, Remi Bligny, Gael Maranzana, Ulrich Sauter

*Rapid and Local EIS on a Segmented PEM Fuel Cell: Observing the evolution of water distribution along the channel*

17:15 to 17:30

**Jens Eller** *(Electrochemistry Laboratory, Paul Scherrer Institut, Villigen PSI, Switzerland)*, Jens Eller, Thomas J. Schmidt, Arnaud Schuller

*Noninvasive Determination of the local Impedance in Polymer Electrolyte Fuel Cells*

17:30 to 17:45

**Andrei Kulikovsky** *(Theory and Computation of Energy Materials (IEK-13), Forschungszentrum Juelich, Juelich, Germany)*, Tatyana Reshetenko

*Analysis of PEM fuel cell impedance spectra by means of physics-based modeling and distribution of relaxation times*
TUESDAY - Oral Presentations
32nd Topical Meeting of the International Society of Electrochemistry

S3 - Conversion - Other electrolysis, CO₂ etc.
Room F3

Chaired by: Nina Simić

14:00 to 14:15

**Tom Breugelmans** *(Faculty of Applied Engineering, Research Group ELCAT, University of Antwerp, Wilrijk, Belgium)*, Bert De Mot

*A zero-gap continuous flow reactor for the electrochemical CO₂ reduction to formate*

14:15 to 14:30

**Balázs Endrodi** *(Department of Physical Chemistry and Materials Science, University of Szeged, Szeged, Hungary)*, Csaba Janáky, Egon Keesenovity, Attila Kormányos, Angelika Samu, Adám Vass

*Some Tricks and Traps of Operating Zero-Gap Carbon Dioxide Electrolyzers*

14:30 to 14:45

**Daniela Mendoza** *(Science Division, Synchrotron SOLEIL, Gif-sur-Yvette, France)*, Elodie Anxolabehere-Mallart, Benedikt Lassalle, Marc Robert

*In Situ X-ray Absorption Spectroelectrochemistry Provide New Insights on the Electronic Structure of a CO₂-Reducing Fe Porphyrin*

14:45 to 15:00

**Xuan Liu** *(Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands)*, Mariana C. O. Monteiro

*Interfacial pH Measurements during CO₂ Reduction Using Rotating Ring-Disk Electrode*

15:00 to 15:15

**Inga Dorner** *(Institute for Applied Materials–Electrochemical Technologies, Karlsruhe Institute of Technology, Karlsruhe, Germany)*, Ulrike Krewer, Philipp Roese

*Differences between Dynamic and Stationary Analysis of the Electrochemical CO₂ Reduction*

15:15 to 15:30

**Jens Osiewacz** *(Institute for chemical and electrochemical engineering, Clausthal University of Technology, Clausthal-Zellerfeld, Germany)*, Marco Löffelholz, Thomas Turek

*Addressing the issue of carbon efficiency in CO₂ electroreduction at silver gas diffusion electrodes using acidic electrolytes*
15:30 to 15:45

**Sheena Louisia** *(Chemistry, Leiden University, Amsterdam, Netherlands)*, Mengyu Gao, Dohyung Kim, Yifan Li, Peidong Yang, Sunmoon Yu

*The Presence and Role of the Intermediary CO Reservoir in the Electroreduction of CO\(_2\) at the Cu Surface*

15:45 to 16:15

Coffee Break

16:15 to 16:30

**Corinne Lagrost** *(ISCR, CNRS-University of Rennes 1, Rennes, France)*, Ivan Jabin, Quentin Lenne, Yann R. Leroux, Alice Mattiuzzi

*Hybrid Calix[4]arene-Platinum Nanoparticles as Dual Catalytic Materials for ORR and MOR*

16:30 to 16:45

**Xinwei Zhu** *(Theory and Computation of Energy Materials (IEK-13), Forschungszentrum Jülich, Jülich, Germany)*, Michael Eikerling, Jun Huang, Xinwei Zhu

*Theoretical Modeling of the Local Reaction Environment at Interfaces for Formic Acid Oxidation*

16:45 to 17:00

**Kristina Baitalow** *(Chemical Process Engineering, RWTH Aachen University, Aachen, Germany)*, Robert Keller, Niklas Köller, Vera Ubbenjans, Matthias Wessling

*Switchable Oxygen Depolarized Cathodes for flexible Chlor-Alkali Electrolysis*

17:00 to 17:15

**Davide Pavesi** *(Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands)*, Nakkiran Arulmozhi, Marta Figueiredo, Gert-Jan M. Gruter, Marc Koper, Julia Krasovic, Klaas Jan P. Schouten, Rim van de Poll

*Stability of electrodes under negative polarization: beyond the concept of immunity*

17:15 to 17:30

**Amanda Garcia** *(HIMS, University of Amsterdam, Amsterdam, Netherlands)*

*Electrocatalytic synthesis of high-value products*
Wednesday 22 June 2022 - Morning

Keynote
Room F1

Chaired by: Göran Lindenbergh

09:00 to 09:40 Keynote Invited

David Howey (Department of Engineering Science, University of Oxford, Oxford, United Kingdom), Antti Aitio

Data-driven battery health diagnosis in real-world applications

09:40 to 10:00
Coffee Break

Joint Session
Room F1

Chaired by: Göran Lindenbergh

10:00 to 10:20 Invited

Miran Gaberscek (Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia), Tomaz Katrasnik

General Physics Based Transmission Line Model for Description of Electrochemical Properties of Insertion Battery Cells

10:20 to 10:40 Invited

Ulrike Krewer (Inst. for Applied Materials - Electrochemical Technologies, Adenauerring 20b, Karlsruhe, Germany), Hoon Seng Chan, Daniel Witt

Understanding (Nonlinear and Linear) Frequency Response Spectra of Degraded Li-ion Batteries with Physico-chemical Models

10:40 to 11:00 Invited

Adam Weber (Energy Conversion Group, Lawrence Berkeley National Laboratory, Berkeley, USA), Justin Bui, Andrew Crothers, Priyamvada Goyal, Ahmet Kusoglu, Clayton Radke

Modeling Transport in Ion- Conducting Polymers for Energy- Conversion Applications
11:00 to 11:20 Invited

**Michael Busch** *(Department of Chemistry and Material Science, Aalto University, Espoo, Finland)*, Reza Khakpour, Kari Laasonen

**CO₂ or Carbonates - What is the Active Species in Electrochemical CO₂ Reduction?**

11:20 to 11:40 Invited

**Jens Noack** *(Applied Electrochemistry, Fraunhofer Institute for Chemical Technology, Pfinztal, Germany)*

**High-Throughput Screening of Active Materials for Flow Batteries**
Wednesday 22 June 2022 - Afternoon

S4 - Storage - Batteries for E-mobility
Room F1

**Chaired by: Nuria Garcia-Araez & Leif Nyholm**

13:15 to 13:30

**Ann Mari Svensson** (Department of Materials Science and Engineering, NTNU, Trondheim, Norway)
Performance of micron-sized silicon anodes and NMC cathodes in full cells with LiFSI-based electrolytes

13:30 to 13:45

**Steven Boles** (Department of Energy and Process Engineering, NTNU - Norwegian University of Science and Technology, Trondheim, Norway), Dominik Kramer, Reiner Mönig, Tianye Zheng
Strategies for Alloy and Foil-based Lithium-ion Battery Anodes

13:45 to 14:00

**Abdolkhaled Mohammadi** (Chemistry, University of Montpellier, Montpellier, France), Mikhael Bechelany, Jean-Sébastien Filhol, Arthur Hagopian, Laure Monconduit, Syreina Sayegh, Lorenzo Stievano, Reza Younesi
Towards Understanding the Nucleation and Growth Mechanism of Li Dendrites on ZnO-Coated Nickel Foam

14:00 to 14:15

**Yasemin Duygu Yücel** (Chemical Engineering, KTH, Stockholm, Sweden), Erik Adolfsson, Henrik Dykhoff, Göran Lindbergh, Jocke Pettersson, Stacy Trey, Rakel Wreland Lindström, Maciej Wysocki, Dan Zenkert
Powder-Impregnated Carbon Fibers with Lithium Iron Phosphate as Positive Electrodes in Structural Batteries
14:15 to 14:30

Song-Zhu Kure-Chu (Department of Materials Function and Design, Nagoya Institute of Technology, Nagoya, Japan), Xuewen Chen, Takehiko Hihara, Hikaru Kaai, Takashi Matsubara, Yukihisa Moriguchi, Hitoshi Yashiro

Tailored Fabrication and Characterization of TiO$_2$-TiN/MoO$_2$-MoO$_3$-Mo$_2$N Composite Films on Ti as High-Performance LIB Anodes.

14:30 to 14:45

Neeha Gogoi (Chemistry-Ångström, Uppsala University, Uppsala, Sweden), Erik J. Berg

Silyl-functionalized electrolyte additives and their reactivity towards Lewis bases in Li-ion cells.

14:45 to 15:15

Coffee Break

15:15 to 15:30

Régis Porhiel (Electrochemistry, LEPMI, Grenoble, France), Fannie Alloin, Katia Guérin, Cristina Iojoiu


15:30 to 15:45

Kamila Lepicka (Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland), Pawel Borowicz, Grégory Francius, Piyush Sindhu Sharma, Alain Walcarius

Molecular structure-dependent confinement of poly(NiSalen) molecular wires inside mesoporous silica channels: Computational and electrochemical study.

15:45 to 16:00

Ronan Le Ruyet (Department of Chemistry - The Angstrom Laboratory, Uppsala University, Uppsala, Sweden), Andrew J. Naylor, Reza Younesi

16:00 to 16:15

**Lioba Boveleth** *(Institute of Engineering Thermodynamics, German Aerospace Center, Stuttgart, Germany)*, Timo Danner, Arnulf Latz

*Simulation of Li-Plating in Si/Graphite Composite Electrodes*

16:15 to 16:30

**Christian Amatore** *(Chemistry, UMR CNRS PASTEUR, Ecole Normale Superieure, CNR & PSL, Paris, France)*, Lianhuan Han, Quanfeng He, Jian-Feng Li, Alexander Oleinick, Juan Peng, Matthew Sartin, Irina Svir, Zhongqun Tian, Lanping Zeng, Dongping Zhan

*Electrochemical Storage of Atomic Hydrogen on Single Layer Graphene*
S1 - Conversion - Water electrolysis

Room F2

Chaired by: Phillippe Mandin & Elisabet Ahlberg

13:15 to 13:30

William Townsend (Chemistry, University of Nottingham, Nottingham, United Kingdom), Matthew Bird, Johannes Biskupek, Lee Johnson, Ute Kaiser, Andrei Khlobystov, Graham Newton, Graham Rance, Darren Walsh

Nano-encapsulated Cobalt Oxide for Oxygen Evolution Reaction Through Single Layer Carbon

13:30 to 13:45

Viktor Colic (Electrochemistry for Energy Conversion, Max-Planck-Institute for Chemical Energy Conversion, Muelheim an der Ruhr, Germany), Ricardo Martínez-Hincapié

Challenges in the Electrocatalytic Benchmarking of Complex Solid Solutions

13:45 to 14:00

Leonard Moriau (Department of Material Chemistry, National Institute of Chemistry of Slovenia, Ljubljana, Slovenia), Iztok Arcon, Marjan Bele, Nejc Hodnik, Primož Jovanovic, Angelja Kjara Surca, Gorazd Koderman Podborsek, Janez Kovac, Ziva Marinko, Francisco Ruiz-Zepeda, Martin Sala, Luka Suhadolnik

Effect of morphology of a high-surface-area TiONx support on the performance of iridium nanoparticles for the oxygen evolution reaction

14:00 to 14:15

Pradipkumar Leuua (Department of Energy Conversion and Storage, Technical University of Denmark, Lyngby, Denmark), Christodoulos Chatzichristodoulou

Electrocatalysts and Reference Electrode for Alkaline Electrolysis at Elevated Temperature (150-200 °C) and Pressure (45 bar)

14:15 to 14:30

Matej Zlatar (Department of Electrocatalysis, Helmholtz Institute Erlangen-Nürnberg for Renewable Energy, Erlangen, Germany), Serhiy Cherevko, Daniel Escalera-López, Hong Nhan Nong, Hoang Phi Tran, Peter Strasser

Benchmarking Stability of Oxygen Evolution Reaction Electrocatalysts: Impact of Accelerated Stress Test Parameters
14:30 to 14:45

**Svenja Baues** *(Institute of Chemistry, Carl von Ossietzky University Oldenburg, Oldenburg, Germany)*, Lena Harms, Konstantin Kimon Rücker, Heinrich Vocke, Michael Wark, Gunther Wittstock

*Combinatorial Screening of Cu-W Oxide-Based Photoanodes for Photoelectrochemical Water Splitting*

14:45 to 15:15

Coffee Break

---

**S3 - Conversion - Other electrolysis, CO₂ etc.**

**Room F2**

*Chaired by: Phillipe Mandin & Elisabet Ablberg*

15:15 to 15:30

**Md Noor Hossain** *(Chemistry and Materials Science, Aalto University, Espoo, Finland)*

*Investigation of Local Reaction Environment During the Electrochemical CO₂ Reduction on CoTPP/MWCNT Composite surface by DEMS*

15:30 to 15:45

**Si-Thanh Dong** *(LUCIA Beamline, Synchrotron SOLEIL, Gif-sur-Yvette, France)*, Benedikt Lassalle-Kaiser

*Electrocatalytic reduction of CO₂ to light hydrocarbons using Iron Phthalocyanine catalyst in a flowing system*

15:45 to 16:00

**Marta Mirolo** *(Experimental Division - ID31, ESRF - The European Synchrotron, Grenoble, France)*, Ib Chorkendorff, Jakub Drnec, Sahil Garg, Carlos A. Giron Rodriguez, Roosa Ilvonen, Asger B. Moss, Brian Seger

*In operando study of copper gas diffusion electrodes in membrane electrode assembly-based CO₂ electrolyzer*

16:00 to 16:15

**Marco Löffelholz** *(Institute of Chemical and Electrochemical Process Engineering, Clausthal University of Technology, Clausthal-Zellerfeld, Germany)*, Jens Osiewacz, Thomas Turek

*How catalyst poisoning affects the performance of electrochemical CO₂ reduction at silver gas diffusion electrodes: A model study*
S2 - Conversion - Fuel cells

Room F3

Chaired by: Adam Weber & Carina Lagergren

13:15 to 13:30

Viktoriia A. Saveleva (Electronic structure, magnetism and dynamics, ESRF - The European Synchrotron, Grenoble, France), Pieter Glatzel, Kavita Kumar, Frederic Maillard, Marius Retegan, Viktoriia A. Saveleva

New Insights into Fe-N-C Oxygen Reduction Reaction Catalysts
Structure from Experimental and Computational X-ray Absorption and Emission Spectroscopies

13:30 to 13:45

Marco Mazzucato (Chemical Science, Univeristy of Padova, Padova, Italy), Christian Durante

RDE vs. GDE: A Comparative Approach for Gauging the Activity and Stability in Fe-N-C Based Catalysts

13:45 to 14:00

Heejin Park (Mechanical Engineering, Inha University, Incheon, Korea), Yohan Cha, Jaeyoo Choi, Hyunchul Ju, Jaeseung Lee, Kisung Lim

Optimal design of PEMFC for automobiles according to flow path and GDL contact angle through FEM-CFD complex analysis

14:00 to 14:15

Maria I. Leon (Departamento de Ingeniería Geomática e Hidráulica, Universidad de Guanajuato, Guanajuato, Mexico), Maria I. Leon, Jose L. Nava, Tzayam Perez, Tatiana Romero, Jonathan Valentin

A simulation study of the water management affected by the combined anode and cathode flow fields and operational conditions in an anion-exchange membrane fuel cell

14:15 to 14:30

Yufan Zhang (IEK 13, Forschungszentrum Juelich, Juelich, Germany), Gerard Agravante, Michael Eikerling, Thomas Kadyk

Modelling Water Accumulation in the Cathode of a Polymer Electrolyte Fuel Cell
14:30 to 14:45

**Thomas Kadyk** (Theory and Computation of Energy Materials (IEK-13), Forschungszentrum Juelich GmbH, Juelich, Germany), Michael Eikerling, Jasmin Kaur, Andrei Kulikovsky, Ying Sun

Harmonic Perturbation Diagnostics of Electrochemical Energy Devices

14:45 to 15:15

Coffee Break

15:15 to 15:30

**Mingchuan Luo** (Leiden Institute of Chemistry, Leiden University, 107, Netherlands), Marc Koper

A kinetic descriptor for the electrolyte effect on the oxygen reduction kinetics on Pt(111)

15:30 to 15:45

**Panagiotis Giotakos** (Dept. of Chemical Engineering, Hellas, University of Patras, FORTH-ICEHT, PATRAS, Greece), Panagiotis Giotakos, Stylianos Neophytides

Oxygen Reduction Reaction in HTPEMFCs: Kinetics, Energetics and Kinetic Inertia

15:45 to 16:00

**Antonio Sorrentino** (Electrochemical Energy Conversion, Max Planck Institute, Magdeburg, Germany)

Direct data driven methodology for the determination of the distribution function of relaxation times

16:00 to 16:15

**Ana Rebeka Kamsek** (Dept. of Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia), Marjan Bele, Goran Drazic, Nejc Hodnik, Primoz Jovanovic

Data-Driven Structural Analysis of Metallic Alloy Electrocatalysts
16:15 to 16:30

Peter Maximilian Schneider (Physics Department, Technical University of Munich (TUM), Garching bei München, Germany), Aliaksandr Bandarenka, Batyr Garlyyev, Sebastian A. Watzele

Electrochemical Top-Down Synthesis of Nanostructured Support and Catalyst Materials for Energy Applications
Poster Presentations

Monday-Wednesday: Posters of symposia 1-6
S1 - Conversion - Water electrolysis

s1-001

**Philippe Mandin** *(Energy and Electrochemistry Engineering, South Brittany University, Lorient, France), Mathieu Sellier, Florent Struyven*

*Electrogenerated bubble nucleation and growth during alkaline water electrolysis: interfacial mass transfer and Marangoni motion modelling*

s1-002

**Debittree Choudhury** *(Energy Science and Engineering, Indian Institute of Technology, Bombay, Mumbai, India), Manoj Neergat*

*Kinetics of hydrogen evolution reaction (HER) on Pt*

s1-005

**Denis Eberhart** *(Martin-Luther-Universität Halle, Anorganic chemistry, Karl-Freiberr-von-Fritsch-Straße 3, Halle, Germany)*

*CuBi$_2$O$_4$ Nanofiber Photocathodes made by Electrospinning via Sol-Gel Chemistry*

s1-007

**Shujin Hou** *(Dept. of Physics, Technical University of Munich, Garching, Germany)*

*Elucidating electrolyte effects in oxygen evolution electrocatalytic activities of some metal-organic framework derivatives*

s1-008

**Faeze Khalighi** *(Department of Mechanical Engineering, Eindhoven University of Technology, Eindhoven, Netherlands), Niels Deen, Faeze Khalighi, Yali Tang, Bert Vreman*

*Effects of flow rate around the bubble on ohmic resistance and tertiary current density distribution in alkaline water electrolysis*

s1-009

**Mikolaj Kozak** *(Department of Physical Chemistry and Electrochemistry, Jagiellonian University, Faculty of Chemistry, Krakow, Poland), Agnieszka Brzózka, Grzegorz D. Sulka*

*Nanostructured Co-Se materials as efficient and inexpensive electrodes for energy-related applications*
s1-011

**Martin Leimbach** *(Electrochemistry and Electroplating Group, Technische Universität Ilmenau, Ilmenau, Germany)*, Andreas Bund, Mathias Fritz, Christian Elieser Höß, Mario Kurniawan, Christoph Philipp Zimmermann

**Stability of Protective Coatings for Stainless Steel Components in PEM Electrolyzers**

s1-013

**Heng Liu** *(Department of Chemical Engineering, The University of Manchester, Manchester, United Kingdom)*, Carmine D’agostino, Stuart Holmes

**A Novel Designed Perovskite @ Spinel Nanocomposite for Efficient Oxygen Evolution Reaction in Alkaline Solution**

s1-015

**Behzad Mahmoudi Alibeiglou** *(Faculty of Chemistry-Martin-Luther-Universität Halle, Center for Innovation Competence (ZIK), Halle, Germany)*

**Potentiodynamic electrochemical impedance spectroscopy of CuGaSe₂ photocathode for photoelectrochemical water splitting**

s1-016

**Christian Marcks** *(Electrochemical Reaction Engineering, RWTH Aachen University - Aachener Verfahrenstechnik, Aachen, Germany)*, Clara Gohlke, Anna K. Mechler

**Simulation and Validation of a 1 cm² Electrochemical Flow Cell for Performance Studies of Electrocatalytic Reactions**

s1-018

**Renata Palowska** *(Faculty of Chemistry, Jagiellonian University, Krakow, Poland)*, Agnieszka Brzozka, Grzegorz D. Sulka

**Ni-Se-based Nanomaterials as Electrocatalysts of Hydrogen and Oxygen Evolution Reactions**

s1-019

**Daniel Piecha** *(Department of Physical Chemistry and Electrochemistry, Jagiellonian University, Faculty of Chemistry, Krakow, Poland)*, Agnieszka Brzozka, Grzegorz D. Sulka

**Mo-Se/C films electrodeposited from DESs - catalyst for electrochemical applications**
s1-020

**Shokoufeh Rastgar** *(Chemistry, Carl von Ossietzky University of Oldenburg, Oldenburg, Germany)*, Gunther Wittstock

*(Photo)SECM Characterization of Polarized Liquid|Liquid Interfaces*

s1-021

**Byron Ross** *(Department of Chemistry, University of Warwick, Coventry, United Kingdom)*, Katharina Brinkert, Sophia Haussener

*Potential of photoelectrochemical water-splitting in the solar system*

s1-024

**Akhilender Singh** *(Energy Science and Technology, Indian Institute of Technology, Bombay, Mumbai, India)*, Garima Aggarwal, Sushobhita Chawla, Balasubramaniam Kavaipatti

*Investigation of Nucleation & Growth Mechanisms of Electrodeposited Cu$_2$O: Impact of Electrolyte pH, Potential, and Substrate*

s1-025

**Milutin Smiljanic** *(Department of Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia)*, Marjan Bele, Nejc Hodnik, Stefan Panic, Luka Pavko, Francisco Ruiz-Zepeda

*Enhancing hydrogen evolution reaction activity and stability via the effect of the support - the interplay between titanium oxynitride and Pt nanoparticles*

s1-026

**Mateusz Szczerba** *(Department of Physical Chemistry and Electrochemistry, Jagiellonian University, Faculty of Chemistry, Krakow, Poland)*, Agnieszka Brzozka, Grzegorz D. Sulka

*Mo-P/C films as potential electrocatalytic materials - optimization of the electrodeposition process*

s1-028

**Tongshuai Wang** *(Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden)*, Ann Cornell, Minna Hakkarainen, Philip Jansson, Nina Simic, Mats Wildlock

*Selective Electrochemical Hydrogen Evolution on Membrane-coated Electrodes for Efficient Chlorate Production*
S2 - Conversion - Fuel cells

s2-003

**Martina Butori** *(Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden)*, Björn Eriksson, Carina Lagergren, Göran Lindbergh, Nikola Nikolic, Rakel Wreland Lindström

*Intermediate temperature (IT)-PEMFCs: understanding the effect of operating parameters on performance, water management and hydrogen crossover*

s2-004

**Davide Cademartori** *(DICCA, University of Genoa, Genova, Italy)*, Antonio Barbucci, Antonio Bertei, Maria Paola Carpanese, Davide Clematis, Angela Gondolini, Antonio Maria Asensio, Elisa Mercadelli, Sabrina Presto, Alessandra Sanson, Massimo Viviani

*Freeze Tape Casting for Solid Oxide Cells: Manufacturing and CFD Simulation of Graded Porous Electrodes*

s2-006

**Ariel Chiche** *(Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden)*

*Results of a 72-h test for a PEMFC working in dead-end anode mode in a closed environment with a symmetric hydrogen purging strategy*

s2-007

**Tina Djukic** *(Department of Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia)*, Matija Gatalo, Nejc Hodnik, Mitja Kostelec, Leonard Moriau, Luka Pavko, Martin Sala

*Stability of Platinum Alloy Based Oxygen Reduction Reaction Electrocatalysts: Where We Are Now and Where We Have to Go*

s2-010

**Henrik Grimler** *(Department of Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden)*, Henrik Ekström, Carina Lagergren, Göran Lindbergh, Nikola Nikolic, Rakel Wreland Lindström

*Governing properties for water transport in anion-exchange membrane fuel cells*
s2-011

Dmitri Kaplan (Mechanical Engineering, Nuclear Research Center - Negev, Beer-Sheva, Israel), Dima Kaplan, Amir Natan, Chen Olewsky, Emanuel Peled, Meital Shviro, Polina Tereshchuk

Study of Ruthenium Contamination Effect on Oxygen Reduction Activity of Platinum-based Fuel Cells Cathode Catalyst

s2-015

Björn Lönn (Department of Physics, Chalmers University of Technology, Gothenburg, Sweden), Rosemary Brown, Henrik Frederiksen, Robin Pfeiffer, Björn Wickman

Platinum-Based ORR Catalyst Nanoparticles Synthesized by Sputtering onto Liquid Substrates

s2-017

Mathilde Luneau (Chemical Physics, Chalmers University of Technology, Gothenburg, Sweden), Björn Lönn, Gerard Montserrat Siso, Björn Wickman

Enhanced activity and stability of Pt supported on tungsten carbide thin films and nanotubes for the oxygen reduction reaction

s2-019

Antonio Maria Asensio (Department of Civil, Chemical and Environmental Engineering, University of Genoa, Genova, Italy), Antonio Barbucci, Lucile Bernadet, Davide Cademartori, Maria Paola Carpanese, Davide Clematis, Antonio Maria Asensio, Sabrina Presto, Marc Torrell, Massimo Viviani

Co-doped layered perovskite material as promising oxygen electrode for Intermediate-Temperature Solid Oxide Cells

s2-021

Victor Mashindi (Chemistry, University of the Witwatersrand, Johannesburg, South Africa), Dean H. Barrett, Neil Coville, Roy P. Forbes, Pieter B. Levecque, Ofentse A. Makgae, Pumza Mente, Beatriz D. Moreno, Nobuhle Mpofu, Kenneth I. Ozoemena, Tumelo N. Phaahlamohlaka

Platinum Nanocatalysts Supported on Defective Hollow Carbon Spheres: Oxygen Reduction Reaction Durability Studies
s2-022

**Rajan Maurya** *(Department of Energy Science and Engineering, Indian Institute of Technology Bombay, Mumbai, India), Manoj Neergat*

Experimental Evidence for “Electrocatalysis” of Oxygen Reduction Reaction on Pt Surface from Eyring analysis.

s2-023

**Roopathy Mohan** *(Chemical Physics division, Chalmers University and Technology, Göteborg, Sweden), Patric Jannasch, Gerard Montserrat Siso, Dong Pan, Victor Shokhen, Björn Wickman*

Ionomer-Catalyst Interactions and the Effect of Solvent ratio on Oxygen Reduction and Hydrogen Oxidation Reactions.

s2-024

**Gerard Montserrat Siso** *(Department of Physics, Chalmers University of Technology, Göteborg, Sweden), Björn Wickman*

Silver-Transition Metal Alloy Electrocatalysts for the Oxygen Reduction Reaction in Alkaline Media.

s2-025

**Pierre-Henri Musiedlak** *(Liten, CEA, Grenoble, France), Adrien Bruneton, Marion Chandesris, Benoît Mathieu, Elie Saikali, Pascal Schott*

D Fully Coupled Multiphysics Numerical Model of a PEMFC: towards a full fuel cell.

s2-027

**Luka Pavko** *(Department of materials chemistry, National Institute of Chemistry, Ljubljana, Slovenia), Matjaz Finsgar, Miran Gaberscek, Matija Gatalo, Bostjan Genorio, Nejc Hodnik, Francisco Ruiz-Zepeda*

Reduced Graphene Oxide as a Superior Pt-based Electrocatalyst Support for PEM Fuel Cell Applications.

s2-031

**Victor Shokhen** *(Physics, Chalmers University of Technology, Göteborg, Sweden), Magnus Skoglundh, Linnéa Strandberg, Björn Wickman*

s2-033

**Sukanya Sinha** *(Department of Energy Conversion and Storage, Technical University of Denmark, Kongens Lyngby, Denmark)*, Heine Hansen, Tejs Vegge

*Exploring Transition Metal Based Catalysts for Oxygen Reduction Reaction: A DFT Study*

s2-034

**Kun-Ting Song** *(Department of Physics, Technical University of Munich, Garching, Germany)*

*Influence of alkali metal cations on the ORR activity of Pt$_2$Y and Pt$_2$Gd alloys*

s2-035

**Matthijs van der Ham** *(Biobased Chemistry and Technology, Wageningen University and Research Centre, Wageningen, Netherlands)*

*The Relation Between Support Oxygen Groups on Pt/CNF and the Catalyst Performance Towards Glucose Oxidation*

s2-038

**Aleksey Yaremchenko** *(CICECO, Department of Materials and Ceramic Engineering, University of Aveiro, Aveiro, Portugal)*, Sergey Mikhalev, Eugene Naumovich, Kiryl Zakharchuk

*Evaluation of Oxygen-Ionic Transport in Mixed-Conducting Electrode Materials by Electrical Conductivity Relaxation Technique*

---

**S3 - Conversion - Other electrolysis, CO$_2$ etc.**

s3-001

**Luka A. Zivkovic** *(Electrochemical Energy Conversion, Max Planck Institute, Magdeburg, Germany)*, Tobias K.S. Ritschel, Saikrishnan Kandaswamy, Tanja Vidakovic-Koch

s3-002

**Mohammed Ali Saif Al-Shaibani (Electrochemical Energy Conversion, Max Planck Institute, Magdeburg, Germany)**, Luka A. Zivkovic, Tanja Vidakovic-Koch

*Can Catalyst Perform Better Under Forced Periodic Operation Conditions? Case Study: NADH Regeneration Reaction*

s3-003

**Ilknur Bayrak Pehlivan (Materials Science and Engineering, Uppsala University, UPPSALA, Sweden)**, Rafael B. Araujo, Ilknur Bayrak Pehlivan, Tomas Edvinsson, Erik Lewin

*High-entropy Alloys for Electrochemical Ammonia Production*

s3-004

**Michael Busch (Chemistry and material science, Aalto University, Espoo, Finland)**, Kari Laasonen

*A Competition Between CO₂ Reduction and Hydrogen Evolution Reactions on Co-porphyrin Catalyst*

s3-006

**Alisson H.M. da Silva (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands)**, Marc Koper

*High-Pressure cell with rotating cylinder electrode (RCE) system for fundamental studies in CO₂ electroreduction*

s3-007

**Connor Deacon-Price (Van ’t Hoff Institute for Molecular Sciences, University of Amsterdam, Amsterdam, Netherlands)**, Amanda Garcia

*Electroorganic C-C Coupling Reaction over Copper Nanoparticles in Nonaqueous Solutions*

s3-010

**Rihab Gharbi (Chemical Engineering, McGill University / National Research Council Canada, Montreal, Canada)**, Abraham Gomez Vidales, Sasha Omanovic, Boris Tartakovksy

*The Development and Application of a Mathematical Model Describing a Microbial Electrosynthesis Cell for Continuous CO₂ Conversion to CH₄ and Acetate*
s3-011

Katarzyna Grochowska (Centre for Plasma and Laser Engineering, The Szewalski Institute PASci, Gdansk, Poland), Dariusz Czylkowski, Miroslaw Dors, Lukasz Harynski, Bartosz Hrycak, Mariusz Jasinski, Katarzyna Siuzdak

Plasma-induced Crystallization of Titania Nanotubes: Morphological, Structural, Optical and Photoelectrochemical Properties

s3-013

Yannick Jännsch (Department of Functional Materials, University of Bayreuth, Bayreuth, Germany), Martin Haemmerle, Ralf Moos

Optimizing a Gas Diffusion Electrode for Stable CO₂RR to Ethylene

s3-015

Quentin Lenne (Catalysis and Surface Chemistry, Leiden University, Leiden, Netherlands), Marc Koper

Tuning the Activity of Dioxide Reduction Reaction via Molecular Functionalization of Metallic Catalysts

s3-016

Akmal Irfan Majid (Power & Flow Section, Department of Mechanical Engineering, Eindhoven University of Technology, Eindhoven, Netherlands), Niels Deen, Giulia Finotello, Yali Tang, John van der Schaaf

Experimental Study of Iron Electrowinning with Different Cathode Material

s3-018

Mohammed Azeezulla Nazrulla (Department of Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia), Marjan Bele, Matjaz Finsgar, Nejc Hodnik, Musthafa Khaja Mohaideen Kamal, Angelja Kjara Surca, Blaz Likozar, Stefan Popovic, Francisco Ruiz Zepeda, Luka Suhadolnik

Reactive Graphene in Impeding the Dynamic Transformations of Cu/Cu₂O Interface; The Balancing Act Between Activity and Stability

s3-019

Pernille Pedersen (Department of Energy Conversion and Storage, Technical University of Denmark, Lyngby, Denmark), Thomas Bligaard, Heine Hansen, Tejs Vegge

Atomic scale modelling of TMDC electrocatalysts for CO₂RR
s3-021

**Stefan Popovic** *(Department of Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia)*, Mohammed Azeezulla Nazrulla, Nejc Hodnik

How Electrochemical Surface Area (ECSA) Determination Method Influence on Selectivity of Electrochemically-grown Cu$_2$O Cubes in CO$_2$ Electroreduction?

s3-022

**Cássia Santana** *(Van ’t Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, Amsterdam, Netherlands)*, Amanda Garcia

Imaging Glycerol and Glucose Oxidation Reactions Applying Ni-M-oxide based (M = Fe, Bi, Co) Electrocatalysts

s3-023

**Matthias Steimecke** *(Dept. of Chemistry, Martin Luther university Halle-Wittenberg, Halle/Saale, Germany)*, Michael Bron

Raman-coupled Scanning Electrochemical Microscopy as a versatile Tool for analyzing Electrochemical Conversion Reactions

s3-024

**Rafaël Vos** *(Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands)*, Kees Kolmeijer, Marc Koper

The Effect of Temperature on the Cation-promoted Electrochemical CO$_2$ Reduction on Gold and Copper

s3-025

**Jai White** *(Chemical Engineering, KTH, Royal Institute of Technology, Stockholm, Sweden)*, Ann Cornell, Gunnar Henriksson

Glycerol electrooxidation on PdNi catalysts on Nickel and Carbon substrates for concurrent H$_2$ production and organic electrosynthesis

s3-026

**Chunmiao Ye** *(Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands)*, Xiaoting Chen, Marc Koper, Stefan Raaijman

Enhanced Electrochemical CO$_2$ Reduction to Formate on Poly(4-vinylpyridine)-modified Copper and Gold Electrodes
S4 - Storage - Batteries for E-mobility

s4-004
Nicholas Carboni (Istituto dei Sistemi Complessi, Consiglio Nazionale delle Ricerche, Rome, Italy)
SEI formed on Si Nanowire electrodes in ionic liquid electrolytes: a micro-spectroscopic investigation

s4-005
Xuewen Chen (Department of Materials Function and Design, Nagoya Institute of Technology, Nagoya-shi, Japan), Song-Zhu Kure-Chu
Electrochemical Performance and Deterioration Mechanism of TiO$_2$-TiN/Sn-SnO$_2$ Composite Films for LIB Anode with Excellent Conductivity and Large Capacity

s4-006
Albin Conde Reis (Faculty of Engineering Technology, Uhasselt, Hasselt, Belgium), Jan D’Haen, An Hardy, Naveen Reddy, Mohammadhosein Safari, Saced Yari
Revisiting the Importance of Carbon Network and its Configuration in Sulfur Porous Electrodes

s4-008
Kristian Frenander (Battery Hardware, Volvo Cars Corporation, Gothenburg, Sweden), Bertrand Philippe, Tobjörn Thiringer
SEI Growth in Commercial Li-ion Battery

s4-009
Nuria Garcia-Araez (Chemistry, University of Southampton, Southampton, United Kingdom), Nina Meddings, J. Padmanabhan Vivek
Negating the interfacial resistance between solid and liquid electrolytes for next generation lithium batteries

s4-010
Gregor Glanz (Center for Low-Emission Transport, AIT Austrian Institute of Technology GmbH, Vienna, Austria), Katja Fröhlich, Marcus Jahn, Markus Koller
In operando determination of the homogeneous Young’s modulus of a Lithium-Ion battery pouch cell
s4-011

**Bharathan Govindarajan** *(Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden), Anna Banasiak, Kerstin Forsberg, Stefanie Zekoll*

Electrolyte Contamination and its Interaction with Alloys in Lithium-Ion Battery Cells

s4-012

**Marcus Hedegärd** *(Traction battery, Volvo Car Corporation, Gothenburg, Sweden), Annika Ahlberg Tidblad*

Identification of Low Order Thermal Battery Pack Models From 3D-model Simulation Data

s4-015

**Leon Katzenmeier** *(Physik-Department, Technische Universität München, Garching bei München, Germany)*

Charge distribution in polarized Li-ion solid electrolytes: A kinetic Monte Carlo approach.

s4-016

**Hyeyun Kim** *(Materials Science and Engineering, Uppsala University, Uppsala, Sweden), Daniel Hedlund, German Salazar-Alvarez, Peter Svedlindh, Sed Ulusoy, Mario Valvo*

In operando Magnetic Measurements of Magnetite (Fe₃O₄) in Lithium-Ion Batteries using Vibrating-sample magnetometry (VSM)

s4-017

**Tristan Kipfer** *(Chemistry Ångstrom, Uppsala University, Uppsala, Sweden), Kerstin Forsberg, Jorge D. Gamarra, Chunyan Ma, Michael Svärd, Reza Younesi*

Environmentally friendly process for upcycling LiCoO₂ (LCO) battery cathodes into LiNi₁/₃Mn₁/₃Co₁/₃O₂ (NMC111)

s4-018

**Song-Zhu Kure-Chu** *(Department of Materials Function and Design, Nagoya Institute of technology, Nagoya, Japan), Takehiko Hihara, Takato Inoue, Masazumi Okido, Hitoshi Yashiro*

Hybrid Electrodeposition and Characterization of Li-V-Mn-Ni-O Composite Films on Al Foils Toward LIB Cathode Materials
s4-020

Aleksandra Lindberg *(Applied Electrochemistry, Department of Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden)*, Jenny Börjesson Axén, Björn Eriksson, Göran Lindbergh

*Investigation Of NiMH Gas Phase Composition During a Work Cycle*

s4-021

Tim Melin *(Department of Chemistry - Ångström, Uppsala University, Uppsala, Sweden)*, Erik J. Berg, Robin Lundström

*Revisiting the ethylene carbonate - propylene carbonate mystery with operando characterization*

s4-022

Anastasiia Mikheenkova *(Chemistry, Uppsala University, Uppsala, Sweden)*, Erik Berg, William Brant, Olof Gustafsson, Maria Hahlin, Matthew Lacey, Casimir Misiewicz

*Operando Exploration of Ni-rich Layered Cathode Materials Degradation at High Operating Potentials*

s4-023

Casimir Misiewicz *(Department of Chemistry - Ångström Laboratory, Uppsala University, Uppsala, Sweden)*

*Elucidating Performance-limiting Side-Reactions in Large Format Li-ion Cells with Operando Electrochemical Mass Spectrometry*

s4-024

Daniel Möhrle *(Institute of Engineering Thermodynamics, German Aerospace Center (DLR), Stuttgart, Germany)*

*Modeling and Simulation of All-Solid-State Batteries with Polymer Electrolytes*

s4-026

Thi Thu Dieu Nguyen *(Electrochemistry Laboratory, Paul Scherrer Institut, Villigen PSI, Switzerland)*, Sigita Trabesinger

*Experimental Methodology for Parametrization of Multiphysics Modeling of Commercial Li-ion Batteries*
s4-028

**Esther Kezia Simanjuntak** *(Computational Electrochemistry, German Aerospace Center (DLR), Stuttgart, Germany)*, Michael Buchmeiser, Timo Danner, Arnulf Latz, Peiwen Wang

*Modeling and Simulation of Metal-Sulfur Battery with Sulfurized Polyacrylonitrile (SPAN) Cathodes*

s4-029

**Isabella Stephens** *(School Of Metallurgy & Materials, University of Birmingham, Birmingham, United Kingdom)*

*Synthesis, Scale Up and Electrode Manufacture of Lithium Nickel Oxide Cathode Material*

s4-031

**Wessel van Ekeren** *(Department of Chemistry-Ångström Laboratory, Uppsala University, Uppsala, Sweden)*, William Brant, Ronnie Mogensen, Reza Younesi

*The Solvation Structure and In-situ Gas Evolution of Non-flammable Localized Highly Concentrated Electrolytes for Lithium-ion Batteries*

s4-032

**Julius Weinmiller** *(Institute of Engineering Thermodynamics, German Aerospace Center, Ulm, Germany)*, Timo Danner, Benjamin Kellers, Arnulf Latz, Martin Lautenschläger, Julius Weinmiller

*Understanding Electrolyte Filling to Improve the Performance of Lithium-Ion Batteries: A Pore-Scale Study*

s4-033

**Göktug Yesilbas** *(Physik, Technische Universität München, München, Germany)*, Aliaksandr Bandarenka

*Analysis of the Graphite Electrode Response Obtained in a Two-Electrode Setup Using Electrochemical Impedance Spectroscopy for Initial Stages of Lithium Intercalation*

s4-034

**Jackie Yik** *(Chemistry - Ångström Laboratory, Uppsala University, Uppsala, Sweden)*, Erik Berg, Jens Sjölund, Jackie Yik, Leiting Zhang

*Data-driven optimization of aqueous lithium-ion electrolyte additives with automated robotic system*
S5 - Storage - High power devices

s5-001
**Maksim Bahdanchyk** *(Dipartimento di Chimica, Materiali e Ingegneria Chimica, Politecnico di Milano, Milano, Italy)*, Jacopo Manidi, Antonello Vicenzo

*Comparative study by SPECS and EIS analysis of Sodium Birnessite Electrode*

s5-003
**Tharamani C. Nagaiah** *(Chemistry, IIT Ropar, Rupnagar, India)*, Mukesh Kumar, Anil Kumar, Debaprasad Mandal

*High-performance elemental sulfur based aqueous rechargeable sodium-ion/sulfur batteries*

s5-005
**Lea C. Meyer** *(Institute for Technical and Environmental Chemistry, Friedrich-Schiller-Universitat Jena, Jena, Germany)*, Andrea Balducci

*Glyoxal and cyclic carbonate-based electrolyte for potassium-ion devices*

S6 - Storage - Stationary battery technologies

s6-005
**Tatiana Koriukina** *(Department of Chemistry - Angstrom Laboratory, Uppsala University, Uppsala, Sweden)*, William Brant, Ya-Chuan Chien, Holger Euchner, Sylvio Indris, Alois Kuhn, Jesuz Sanz, Siegbert Schmid

*Lithium diffusion in A-defect perovskite type structures on deep discharge*

s6-008
**Mahdi Moghaddam** *(Mechanical and Materials Engineering, University of Turku, Turku, Finland)*, Pekka Peljo

*Electron transfer in solid boosted flow batteries*
s6-010  
Mathilda Ohrelius (Department of Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden), Göran Lindbergh, Rakel Wreland Lindström  
Lithium-Ion Battery Degradation in Stationary Energy Storage Applications

s6-011  
Tamara Patranika (Chemistry Ångström, Uppsala University, Uppsala, Sweden), Kristina Edström, Guiomar Hernández  
Self-Healing Binders for Silicon-Based Electrodes

s6-012  
Fatemehsadat Rahide (IAM-ESS, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany), Sonia Dsoke, Junjie Hao  
Investigation and study of the Aluminum anode Surface using different Treatments

s6-013  
Natasha Ross (Chemistry, University of the Western Cape, Bellville, South Africa), Shane Willenberg  
The Kinetics of Carbon supported Intercalation-type Composites in Aqueous Materials

s6-014  
Silver Sepp (Institute of Chemistry, University of Tartu, Tartu, Estonia)  
Testing Sustainable Binders for Battery Electrode in Aqueous System

s6-015  
Mahsa Shahsavvan (Materials Engineering, University of Turku, Turku, Finland), Pekka Peljo, Cedrik Wiberg  
Investigation of GABA-NDI for Use in Aqueous Organic Redox Flow Batteries

s6-017  
Cedrik Wiberg (Department of Mechanical and Materials Engineering, University of Turku, TURKU, Finland), Pekka Peljo, Mahsa Shahsavvan  
Dimethylammonium Counter Ion for Aqueous Organic Redox Flow Batteries
Index
Index

A
Adolfsson, Erik, (Wed s4)14:00
Aggarwal, Garima, s1-024
Agravante, Gerard, (Wed s2)14:15
Ahlberg Tidblad, Annika, (Mon s4)14:00, s4-012
Aitio, Antti, (Wed J1)09:00
Al-Shaibani, Mohammed Ali Saif, s3-002
Alloin, Fannie, (Wed s4)15:15
Ambrose, Ashwin, (Mon s1)14:45
Amiri, Mandana, (Mon s6)16:00
Anxoalbehere-Mallart, Elodie, (Tue s3)14:30
Araujo, Rafael B., s3-003
Arcon, Iztok, (Wed s1)13:45
Arulmozhi, Nakkiran, (Tue s3)17:00
Asfaw, Habtom Desta, (Mon s6)16:30
Asset, Tristan, (Mon s1)15:45
Azeezulla Nazrulla, Mohammed, s3-021
Aziz, Ariba, (Mon s1)14:45
Aziz, Michael, (Mon s6)13:45

B
Bacon, Camille, (Tue J1)10:40
Bahdan, Yiskam, s2-001
Bahri, Mounib, (Wed s4)14:30
Baitalow, Kristina, (Tue s3)16:45
Bajars, Gunars, (Mon s6)16:45
Balducci, Andrea, s5-005
Balducci, Irene, (Mon s6)13:30
Balen, Chad, (Mon s4)14:15
Banasiak, Anna, (Tue s4)17:30
Bandarenka, Aliaksandri, (Tue J1)09:40, (Tue s2)11:40, (Wed s2)16:15, s2-028, s4-033
Banko, Lars, (Mon s1)13:30
Barai, Anup, (Tue s4)15:15
Baranova, Elena, (Mon s1)16:45
Barbucci, Antonio, s2-004, s2-019
Barrett, Dean H., s2-021
Bauess, Svenja, (Wed s1)14:30
Bayrak Pehlivian, Ilknur, s3-003, s3-003
Bechelany, Mikhail, (Wed s4)13:45
Bekert, Lieven, (Mon s4)13:45
Bele, Marjan, (Mon s1)16:00, (Tue s2)14:15, (Wed s1)13:45, (Wed s2)16:00, s1-025, s3-018
Bellboub, Anouar, (Tue J1)10:40
Bengtsson, Fredrik, (Mon s4)14:00
Berg, Erik J., (Wed s4)14:30, s4-021, s4-022, s4-034
Bernadet, Lucile, s2-019
Berti, Antonio, s2-004
Bezaatpanour, Abolfazl, (Mon s1)16:30
Bird, Matthew, (Wed s1)13:15
Biskup, Johannes, (Mon s1)13:15
Bligaard, Thomas, s3-019
Bligny, Remi, (Tue s2)17:00
Bock, Moritz, (Mon J1)09:20
Börjesson Axén, Jenny, s4-020
Boles, Steven, (Wed s4)13:30
Bonastre, Alex Martinez, (Tue s2)15:00
Bonke, Shannon, (Mon s1)16:15
Bonnetfont, Antoine, (Mon s1)15:45
Borowicz, Pawel, (Wed s4)15:30
Bouchard, Roza, (Mon s6)16:00
Boveleth, Lioba, (Wed s4)16:00
Brandell, Daniel, (Tue J1)09:20, (Tue s4)14:00
Brant, William, s4-022, s4-031, s6-005
Breugelmans, Tom, (Tue s3)14:00
Brinkert, Katharina, s1-021
Brites Helu, Mariela, (Tue J1)11:00
Bron, Michael, s3-023
Brown, Rosemary, s2-015
Browning, Nigel D., (Tue s4)14:30
Brunet, Adrien, s2-025
Bruno, Fabien, (Mon s6)14:45
Brzozka, Agnieszka, s1-009, s1-018, s1-019, s1-026
Buchmeiser, Michael, s4-028
Buckan, Ronny, (Tue s4)16:15
Bui, Justin, (Wed J1)10:40
Bultel, Yann, (Tue s2)15:30
Bund, Andreas, s1-011
Busch, Michael, (Wed J1)11:00, s3-004
Butori, Martina, s2-003
Caccaro, Tommaso, (Tue J1)11:20
Cademartori, Davide, s2-004, s2-019
Calle-Vallejo, Federico, (Tue s2)14:00
Carboni, Nicholas, (Tue s4)17:00, s4-004
Carpanese, Maria Paola, s2-004, s2-019
Cazorla, Marta, (Mon s4)13:45
Cazorla Soult, Marta, (Tue s4)16:30
Cha, Yohan, (Wed s2)13:45
Chabot, Florian, (Tue s2)16:45
Chan, Hoon Seng, (Wed J1)10:20
Chandesris, Marion, s2-025
Chatzichristodoulou, Christodoulou, (Wed s1)14:00
Chawla, Sushobhita, s1-024
Chen, Xiaoting, (Tue s2)14:30, s3-005
Chen, Xuewen, (Wed s4)14:15, s4-005
Cherevko, Serhiy, (Mon J1)10:40, (Wed s1)14:15
Chien, Yu-Chuan, (Tue J1)09:20, s6-005
Chinannai, Muhammad Faizan, (Mon s6)14:30
Choi, Jaeyoo, (Wed s2)13:45
Cherkendorff, Ib, (Wed s3)15:45
Choudhury, Debittree, s1-002
Clematis, Davide, s2-004, s2-019
Colic, Viktor, (Wed s1)13:30
Conde Reis, Albin, s4-006
Cornell, Ann, s1-028, s3-025
Cossar, Emily, (Mon s1)16:45
Coville, Neil, s2-021
Cowan, Alexander J., (Tue s4)14:30
Crothers, Andrew, (Wed J1)10:40
Curd, Matthew E., (Tue s4)14:30
Czylkowski, Dariusz, s3-011

D
D’agostino, Carmine, s1-013
D’Haen, Jan, s4-006
da Silva, Alisson H.M., s3-006
Damblanc, Gaetan, (Mon s4)14:15
Danner, Timo, (Mon s4)13:30, (Mon s4)15:45, (Wed s4)16:00, s4-028, s4-032
Davies, Bethan J V, (Mon s4)16:45
De Mot, Bert, (Tue s3)14:00
De Proft, Frank, (Mon s4)13:45

De Wolf, Renée, (Mon s6)16:15
Deacon-Price, Connor, s3-007
Deen, Niels, s1-008, s3-016
Dionigi, Fabio, (Tue s2)15:00
Djukic, Tina, s2-007
Dong, Si-Thanh, (Wed s3)15:30
Doppl, Britta, (Mon s6)15:30
Dorner, Inga, (Tue s3)15:00
Dors, Miroslaw, s3-011
Drazic, Goran, (Wed s2)16:00
Dronc, Jakub, (Tue s2)15:00, (Wed s3)15:45
Drugeot, Timothée, (Tue s2)15:30
Dsoke, Sonia, s6-012
Durante, Christian, (Tue J1)11:20, (Wed s2)13:30
Dykhoff, Henrik, (Wed s4)14:00

E
Eberhart, Denis, s1-005
Edström, Kristina, (Mon s6)16:30, s6-011
Edvinsson, Tomas, s3-003
Eikerling, Michael, (Tue s3)16:30, (Wed s2)14:15, (Wed s2)14:30
Ekström, Henrik, s2-010
El Hage, Ranine, (Tue J1)11:00
El Khoury, Charbel Jose, (Mon s6)14:45
El Marini, Mohamed, (Mon s4)13:45
Eller, Jens, (Tue s2)17:15, (Tue s2)17:15
Endrodi, Balázs, (Tue s3)14:15
Eriksson, Björn, s2-003, s4-020
Escalera-López, Daniel, (Wed s1)14:15
Etiene, Mathieu, (Tue J1)11:00
Etman, Ahmed S., (Tue s4)14:45
Euchner, Holger, s6-005

F
Facchin, Alessandro, (Tue J1)11:20
Fang, Yuan, (Tue s4)15:00
Fell, Eric, (Mon s6)13:45
Figueiredo, Marta, (Tue s3)17:00
Filhol, Jean-Sébastien, (Wed s4)13:45
Finotello, Giulia, s3-016
Finsgar, Matjaž, s2-027, s3-018
Fischer-Walchshofer, Christian, (Mon s4)14:15
Forbes, Roy P., s2-021
Forsberg, Kerstin, (Tue s4)17:30, s4-017
Forse, Alexander, (Tue J1)10:40
Francis, Grégoiry, (Wed s4)15:30
Franco, Alejandro A., (Mon s4)14:45
Frederiksen, Henrik, s2-015
Frenander, Kristian, s4-008
Fritz, Mathias, s1-011
Fröhlich, Katja, s4-010
Furness, Liam, (Tue J1)09:20
Furó, István, (Tue s4)15:00

G

Gaperscek, Miran, (Wed J1)10:00, s2-027
Gamarra, Jorge D., s4-017
Gao, Mengyu, (Tue s3)15:30
Garcia, Amanda, (Tue s3)17:15, s3-007, s3-022
Garcia-Araez, Nuria, (Tue J1)09:20, s4-009
Garg, Sahil, (Wed s3)15:45
Garnyev, Batyr, s2-028, (Wed s2)16:15
Gasteiger, Hubert, (Mon J1)09:20
Gatalo, Matija, s2-007, s2-027
Gehlhaar, Robert, (Tue s4)16:30
Gloor, Bostjan, s2-027
Gharbi, Rihab, s3-010
Giotakos, Panagiotis, (Tue s2)16:15, (Tue s2)16:15
Giron Rodriguez, Carlos A., (Wed s3)15:45
Glazia, Gregor, s4-010
Glatzel, Pieter, (Wed s2)13:15
Gogoi, Neeha, (Wed s4)14:30
Gohike, Clara, s1-016
Golnaz, Ronny, (Mon s1)16:15
Gomes, Adriano, (Mon J1)11:00
Gomez Vidales, Abraham, s3-010
Gond, Ritambhara, (Mon s6)16:30
Gondolini, Angela, s2-004
Gonzalez, Gabriel, (Mon s6)13:30
Gorbunov, Mikhail V., (Tue s4)16:15
Govindarajan, Bharathan, (Tue s4)17:30
Goyal, Priyamvada, (Wed J1)10:40
Greer, Claire, (Tue J1)10:40
Griffin, John, (Tue J1)10:40
Grimer, Henrik, (Wed s2)15:30, s2-010
Grocikowska, Katarzyna, (Mon s1)15:30, s3-011

H

Haemmerle, Martin, s3-013
Hagopian, Arthur, (Wed s4)13:45
Hahl, Maria, s4-022
Haid, Richard, (Tue J1)11:40, (Tue s2)14:00
Hakkarainen, Minna, s1-028
Han, Lianhuan, (Wed s4)16:15
Hannon, Jenna, (Mon s6)13:30
Hansen, Heine, s2-033, s3-019
Hanus, Jan, (Mon s1)15:30
Hao, Junjie, s6-012
Hardwick, Laurence J., (Tue s4)14:30
Hardy, An, s4-006
Harms, Lena, (Wed s1)14:30
Harting, Jens, (Mon s1)14:00
Haryniski, Lukasz, s3-011
Haussener, Sophia, s1-021
He, Quanfeng, (Wed s4)16:15
Hedegård, Marcus, (Mon s4)14:00, s4-012
Hedlund, Daniel, s4-016
Hein, Simon, (Mon s4)13:30
Henriksson, Gunnar, s3-025
Herberich, Stefan, (Mon s4)14:15
Hereijgers, Jonas, (Mon s6)16:15
Hermann, Niklas, (Mon s6)15:30
Hernandez, Guiomar, (Tue s4)14:00
Hernández, Guiomar, s6-011
Heubner, Christian, (Mon s4)15:30, (Tue s4)16:45
Hidaka, Tomoya, (Mon s4)16:00
Hihara, Takehiko, (Wed s4)14:15, s4-018
Hjelm, Johan, (Mon s6)14:15
Hodnik, Nejc, (Mon s1)16:00, (Tue s2)14:15, (Wed s1)13:45, (Wed s2)16:00, s1-025, s2-007, s2-027, s3-018, s3-021
Höb, Christian Elieser, sl-011
Holdynski, Marcin, (Mon s1)14:45
Holt, Stuart, s1-013
Horstmann, Birger, (Mon s6)15:30
Hossain, Md Noor, (Wed s3)15:15
Hoeosei, Omid, (Mon s6)16:30
Hosseini, Pouya, (Tue J1)10:00
Hou, Shujin, s1-007
Howey, David, (Wed J1)09:00
Hrnjic, Armin, (Tue J1)14:15
Hrycak, Bartosz, s3-011
Huang, Jun, (Tue s3)16:30
Huang, Yu-Kai, (Mon s4)16:30
Huang, Zexin, (Tue s4)15:15
Hubin, Annick, (Mon s4)13:45, (Tue s4)16:30
Ilvonen, Roosa, (Wed s3)15:45
Indris, Sylvio, s6-005
Inoue, Takato, s4-018
Iojoiu, Cristina, (Wed s4)15:15
Ishikawa, Masashi, (Mon s4)16:00

Jabin, Ivan, (Tue s3)16:15
Jaennsch, Yannick, s3-013
Jahn, Marcus, s4-010
Janáky, Csaba, (Tue s3)14:15
Jannasch, Patric, (Mon s6)14:00, s2-023
Jansson, Philip, s1-028
Jasielec, Jerzy, (Mon s6)13:30
Jasinski, Mariusz, s3-011
Johansson, Isabell L., (Tue s4)14:00
Johansson, Mikael, (Mon s4)14:30
Johnson, Lee, (Wed s1)13:15
Jovanovic, Primoz, (Mon s1)16:00,
(Tue s2)14:15, (Wed s1)13:45,
(Wed s2)16:00
Ju, Hyunchul, (Mon s6)14:30, (Wed s2)13:45

Kaai, Hikaru, (Wed s4)14:15
Kadyk, Thomas, (Wed s2)14:15,
(Wed s2)14:30
Kaiser, Ute, (Wed s1)13:15
Kaluderivic, Boris, (Mon s4)14:15
Kamsek, Ana Rebeka, (Mon s1)16:00,
(Tue s2)14:15, (Wed s2)16:00
Kandaswamy, Saikrishnan, s3-001
Kang, Minkyung, (Tue s4)14:30
Kaplan, Dima, s2-011
Kaplan, Dmitry, s2-011
Katrasnik, Tomaz, (Wed J1)10:00
Katzenmeier, Leon, s4-015
Kaur, Jasmin, (Wed s2)14:30
Kavaipatti, Balasubramaniam, s1-024
Kecsenovity, Egon, (Tue s3)14:15
Keller, Robert, (Tue s3)16:45
Kellers, Benjamin, (Mon s4)15:45, s4-032
Khajeh Mohaideen Kamal, Mustafa, s3-018
Khakpour, Reza, (Wed J1)11:00
Khaliqi, Faeze, s1-008, s1-008
Khataee, Amirreza, (Mon s6)14:00
Kholobystov, Andrei, (Wed s1)13:15
Kim, Dohyung, (Tue s3)15:30
Kim, Hyeyun, (Tue s4)15:30, s4-016
Kipfer, Tristan, s4-017
Kjara Surca, Angelja, (Wed s1)13:45, s3-018
Klett, Matilda, (Mon s4)14:30
Klingenhof, Malte, (Tue s2)15:00
Kluge, Regina, (Tue J1)11:40, (Tue s2)14:00
Koderman Podborsek, Gorazd,
(Mon s1)16:00, (Wed s1)13:45
Köller, Niklas, (Tue s3)16:45
Koller, Markus, s4-010
Kolmeijer, Kees, s3-024
Koper, Marc, (Tue s3)17:00, (Wed s2)15:15, s3-006, s3-015, s3-024, s3-026
Korukina, Tatiana, s6-005
Kormányos, Attila, (Tue s3)14:15
Kostelec, Mitja, s2-007
Kouao, Dujearic, (Mon s1)15:30
Kovac, Janez, (Wed s1)13:45
Kozak, Mikolaj, s1-009
Kozlova, Tatiana, (Mon s1)14:30
Kramer, Dominik, (Wed s4)13:30
Krasovic, Julia, (Tue s3)17:00
Kreuer, Ulrike, (Tue s3)15:00, (Wed J1)10:20
Kruze, Beate, (Mon s6)16:45
Krysiak, Olga, (Mon s1)13:30
Kucinskis, Gints, (Mon s6)16:45
Kuhn, Alois, s6-005
Kulikovsky, Andrey, (Tue s2)17:30,
(Wed s2)14:30
Kulyk, Nadia, (Mon s1)14:00
Kumar, Anil, s5-003
Kumar, Kavita, (Wed s2)13:15
Kumar, Mukesh, s5-003
Kure-Chu, Song-Zhu, (Wed s4)14:15, s4-005,
s4-018
Kurniawan, Mario, s1-011
Kusoglu, Ahmet, (Wed J1)10:40
Kylian, Ondrej, (Mon s1)15:30

Laasonen, Kari, (Wed J1)11:00, s3-004
Lacey, Matthew, (Tue J1)09:20, s4-022
Lagergren, Carina, (Tue s2)14:45, (Wed s2)15:30, s2-003, s2-010
Lagrost, Corinne, (Tue s3)16:15
Lampkin, John, (Tue J1)09:20
Lamprecht, Xaver, (Tue J1)09:40
Lassalle, Benedikt, (Tue s3)14:30
Lassalle-Kaiser, Benedikt, (Wed s3)15:30
Latz, Arnulf, (Mon s4)13:30, (Mon s4)15:45,
(Wed s4)16:00, s4-028, s4-032
Lautenschläger, Martin, (Mon s4)15:45
Lautenschläger, Martin, s4-032
Le Ruyet, Ronan, (Wed s4)15:45
Lee, Jaeseung, (Wed s2)13:45
Leimbach, Martin, s1-011
Leroux, Yann R., (Tue s3)16:15
Levecque, Pieter B., s2-021
Lewin, Erik, s3-003
Li, Jian-Feng, (Wed s4)16:15
Lim, Kisung, (Wed s2)13:45
Lindberg, Aleksandra, s4-020
Lindbergh, Göran, (Mon s4)14:30, (Tue s2)14:45, (Wed s4)15:00, (Wed s2)14:00, (Wed s2)15:30, s2-003, s2-010, s4-020, s6-010
Lipkin, Michael, (Mon s1)14:30
Liplyavka, Miroslav, (Mon s1)14:30
Liu, Baichen, (Mon s6)14:15
Liu, Chaoyue, (Mon s4)14:45
Liu, Heng, s1-013
Liu, Liang, (Tue J1)11:00
Liu, Xuan, (Tue s3)14:45
Lodge, Andrew, (Tue s4)15:15
Löffelholz, Marco, (Tue s3)15:15, (Wed s3)16:00
Löfqvist Klass, Verena, (Mon s4)14:30
Lönn, Björn, s2-015, s2-017
Lohrberg, Oliver, (Tue s4)16:45
Loncar, Anja, (Mon s1)16:00, (Tue s2)14:15
Lotsch, Bettina, (Tue J1)10:00
Louisia, Sheena, (Tue s3)15:30
Ludwig, Alfred, (Mon s1)13:30
Lundström, Robin, s4-021
Luneau, Mathilde, (Tue s2)14:45, s2-017
Luo, Mingchuan, (Wed s2)15:15

M
Ma, Chunyan, s4-017
Mahmoudi Alibeiglou, Behzad, s1-015
Maillard, Frederic, (Wed s2)13:15
Majid, Akmal Irfan, s3-016
Makgae, Ofentse A., s2-021
Maletti, Sebastian, (Tue s4)16:45
Mamme, Mesfin Haile, (Mon s4)13:45
Mandal, Debaprasad, s5-003
Mandin, Philippe, (Mon s1)14:30, s1-001
Manidi, Jacopo, s5-001
Maranzana, Gae, (Tue s2)17:00
Marcks, Christian, s1-016
Maria Asensio, Antonio, s2-004, s2-019, s2-019
Marinho, Ziva, (Wed s1)13:45
Marra, Eva, (Wed s2)15:30
Martens, Isaac, (Tue s2)15:00
Martín-Yerga, Daniel, (Tue s4)14:30
Martínez-Hincapié, Ricardo, (Wed s1)13:30
Mashindi, Victor, s2-021
Mathew, Alma, (Tue s4)14:00
Mathieu, Benoît, s2-025
Matsubara, Takashi, (Wed s4)14:15
Mattiuzzi, Alice, (Tue s3)16:15
Maurya, Rajan, s2-022
Mazzucato, Marco, (Wed s2)13:30
Mechler, Anna K., s1-016
Meddings, Nina, s4-009
Mehdi, B. Layla, (Tue s4)14:30
Melin, Tim, s4-021
Mendoza, Daniela, (Tue s3)14:30
Mente, Pumza, s2-021
Mercadelli, Elisa, s2-004
Merlet, Céline, (Tue J1)10:40
Meyer, Lea C., s5-005
Michaelis, Alexander, (Mon s4)15:30, (Tue s4)16:45
Micoud, Fabrice, (Tue s2)15:15, (Tue s2)15:30
Mikhailova, Daria, (Tue s4)16:15
Mkhalev, Sergey, s2-038
Mikheenko, Anastasia, s4-022
Mila, David C., (Tue s4)14:30
Mindemark, Jonas, (Tue s4)14:00
Minguzzi, Alessandro, (Tue J1)09:00
Mirolo, Marta, (Tue s2)15:00, (Wed s3)15:45
Misiewicz, Casimir, s4-022, s4-023
Möhrle, Daniel, s4-024
Mönig, Reiner, (Wed s4)13:30
Mogensen, Ronnie, s4-031
Moghaddam, Mahdi, (Mon s6)13:30, s6-008
Mohammadi, Abdolkhaled, (Wed s4)13:45
Mohan, Roopathy, s2-023
Monconduit, Laure, (Wed s4)13:45
Monteiro, Mariana C. O., (Tue s3)14:45
Montserrat Siso, Gerard, (Wed s2)15:30, s2-017, s2-023, s2-024
Moos, Ralf, s3-013
Morata, Alex, (Tue s4)16:30
Moreno, Beatriz D., s2-021
Moriguchi, Yukihisa, (Wed s1)13:45, s2-007
Morimitsu, Masatsugu, (Mon s6)15:45
Morimoto, Shinya, (Mon s4)16:00
Morin, Arnaud, (Tue s2)15:15, (Tue s2)16:45
Moss, Asger B., (Wed s3)15:45
Murphy, Frédéric, (Mon s1)16:45
Musiedlak, Pierre-Henri, s2-025

N

Nagaiah, Tharamani, s5-003
Nastar, Maylise, (Mon s6)14:45
Natan, Amir, s2-011
Naumovich, Eugene, s2-038
Nava, Jose L., (Wed s2)14:00
Naylor, Andrew J., (Mon s6)16:30, (Tue s4)17:15, (Wed s4)15:45
Nazrulla, Mohammed Azeezulla, s3-018
Nederstedt, Hannes, (Mon s6)14:00
Nee, Armand, (Mon s6)14:30, (Mon s6)16:30, (Mon s6)16:45
Nefedov, Evgeny, s2-022, s2-023
Nesterova, Inara, (Mon s6)16:45
Newton, Graham, (Wed s1)13:15
Nguyen, Thi Thu Dieu, s4-026
Nhan Nong, Hong, (Wed s1)14:15
Nikolic, Nikola, s2-003, s2-010
Noack, Jens, (Wed J1)11:20
Nogala, Wojciech, (Mon s1)14:45
Nyholm, Leif, (Mon s4)16:30, (Tue s4)14:45

O

Ohrelius, Mathilda, s6-010
Okido, Masazumi, s4-018
Okumura, Takuya, (Mon s6)15:45
Oleinick, Alexander, (Wed s4)16:15
Olewnsky, Chen, s2-011
Omanovic, Sasha, s3-010
Omar, Ahmad, (Tue s4)16:15
Osiewacz, Jens, (Tue s3)15:15, (Wed s3)16:00
Oswald, Stefan, (Mon J1)09:20
Oularbi, Hassan, (Mon s4)14:45
Ozoemena, Kenneth I., s2-021

P

Palowska, Renata, s1-018
Pan, Dong, s2-023
Pan, Lujin, (Tue s2)15:00
Panic, Stefan, s1-025
Park, Heejin, (Wed s2)13:45
Patranika, Tamara, s6-011
Pavesi, Davide, (Tue s3)17:00
Pavko, Luka, s1-025, s2-007, s2-027
Pavliscic, Andraz, (Tue s2)14:15
Pedersen, Pernille, s3-019
Peled, Emanuel, s2-011
Peljo, Pekka, (Mon s6)13:30, s6-008, s6-015, s6-017
Peng, Juan, (Wed s4)16:15
Perez, Tzayam, (Wed s2)14:00
Pettersson, Jocke, (Wed s4)14:00
Pfeiffer, Robin, s2-015
Phaalhamohlaka, Tunelo N., s2-021
Phi Tran, Hoang, (Wed s1)14:15
Philippe, Bertrand, s4-008
Pichon, Benoit, (Mon s1)15:45
Picco, Daniel, s1-019
Pinton, Eric, (Tue s2)15:30
Poiriot-Crouvezier, Jean-Philippe, (Tue s2)15:30
Popovic, Stefan, s3-018, s3-021
Powell, Régis, (Wed s4)15:15
Poupin, Lucas, (Tue s2)15:30
Presto, Sabrina, s2-004, s2-019

R

Raaijman, Stefan, s3-026
Raccichini, Rinaldo, (Tue J1)09:20
Radke, Clayton, (Wed J1)10:40
Rahide, Fatemehsadat, s6-012
Rance, Graham, (Wed s1)13:15
Rastgar, Shokoufeh, s1-020
Reddy, Naveen, s4-006
Renner, Frank Uwe, (Mon s4)16:15, (Mon s4)16:15
Reshetenko, Tatiana, (Tue s2)17:30
Retegan, Marius, (Wed s2)13:15
Riewald, Felix, (Mon J1)09:20
Ritschel, Tobias K.S, s3-001
Robert, Marc, (Tue s3)14:30
Rodriguez, Andres, (Tue J1)10:00
Roese, Philipp, (Tue s3)15:00
Romero, Tatiana, (Wed s2)14:00
Ronovsky, Michal, (Tue s2)15:00
Rosini, Sébastien, (Tue s2)15:30,
(Tue s2)16:45
Ross, Byron, s1-021
Ross, Natasha, s6-013
Rotonelli, Benjamin, (Mon s1)15:45
Royer, Lisa, (Mon s1)15:45
Rücker, Konstantin Kimon, (Wed s1)14:30
Ruiz-Zepeda, Francisco, (Tue s2)14:15,
(Wed s1)13:45, s1-025, s2-027, s3-018
Ryan, Mary, (Mon s4)16:45

S
Safari, Mohammadhosein, s4-006
Saikali, Elie, s2-025
Sala, Martin, (Wed s1)13:45, s2-007
Salazar-Alvarez, German, (Tue s4)15:30,
s4-016
Samu, Angelika, (Tue s3)14:15
Sängeland, Christofer, (Tue s4)14:00
Sanson, Alessandra, s2-004
Santana, Cássia, s3-022
Sanz, Jesuz, s6-005
Sartin, Matthew, (Wed s4)16:15
Sasikumar, Anagha, (Tue J1)11:40
Sauter, Ulrich, (Tue s2)17:00
Saveleva, Viktoriia A., (Wed s2)13:15,
(Wed s2)13:15
Savinova, Elena, (Mon s1)15:45
Sayegh, Syreina, (Wed s4)13:45
Schlögl, Robert, (Mon s1)16:15
Schmid, Siegbert, s6-005
Schmidt, Thomas J., (Tue s2)17:15
Schmidt, Thorsten, (Tue J1)11:40, (Tue s2)14:00
Schmitt, Tobias, (Tue s2)17:00
Schneider, Michael, (Mon s4)15:30, (Tue s4)16:45
Schneider, Peter Maximilian, s2-028(Wed s2)16:15
Schott, Pascal, (Tue s2)15:15, s2-025
Schouten, Klaas Jan P., (Tue s3)17:00
Schuhmann, Wolfgang, (Mon s1)13:30
Schuller, Arnaud, (Tue s2)17:15
Scott, Soren, (Mon s1)13:45
Segea, Marcello, (Mon s1)14:00
Seger, Brian, (Wed s3)15:45
Sellier, Mathieu, s1-001
Sellin, Annicka, (Mon J1)11:00
Sepp, Silver, s6-014
Setzler, Brian, (Tue s2)16:30
Sezemsky, Peter, (Mon s1)15:30
Shachneva, Svetlana, (Tue J1)10:00
Shahsavan, Mahsa, (Mon s6)13:30, s6-015,
s6-017
Sharma, Piyush Sindhu, (Wed s4)15:30
Sharman, Jonathan, (Tue s2)15:00
Shokhen, Victor, (Tue s2)14:45, s2-023,
s2-031
Shviro, Meital, s2-011
Siller, Valerie, (Tue s4)16:30
Simanjuntak, Esther Kezia, s4-028
Simerova, Radka, (Mon s1)15:30
Simic, Nina, (Mon J1)11:00, s1-028
Simon, Patrice, (Tue J1)10:40
Simonov, Alexandr, (Mon s1)16:15
Singh, Akhilender, s1-024
Singh, Anubhav, (Tue s4)15:15
Sinha, Sukanya, s2-033
Siuzdak, Katarzyna, (Mon s1)15:30, s3-011
Sjölund, Jens, s4-034
Skoglundh, Magnus, s2-031
Smiljanic, Milutin, s1-025
Smith, Alexander, (Tue s4)15:00
Sondars, Matiss, (Mon s6)16:45
Song, Kun-Ting, s2-034
Sorrentino, Antonio, (Wed s2)15:45
Spanos, Ioannis, (Mon s1)14:15,
(Mon s1)16:15
Sprengel, Simon, (Mon s1)16:30
Steimecke, Matthias, s3-023
Stephens, Ifan, (Mon s1)13:45,
(Mon s4)16:45
Stephens, Isabella, s4-029
Stievano, Lorenzo, (Wed s4)13:45
Stranak, Vitezslav, (Mon s1)15:30
Strandberg, Linnéa, (Tue s2)14:45, s2-031
Strasser, Peter, (Tue s2)15:00, (Wed s1)14:15
Streb, Moritz, (Mon s4)14:30
Struyven, Florent, s1-001
Suhadolnik, Luka, (Mon s1)16:00,
(Tue s2)14:15, (Wed s1)13:45, s3-018
Sulka, Grzegorz D., s1-009, s1-018, s1-019,
s1-026
Sun, Ying, (Wed s2)14:30
Svärd, Michael, s4-017
Svedlindh, Peter, (Tue s4)15:30, s4-016
Svensson, Ann Mari, (Wed s4)13:15
Svir, Irina, (Wed s4)16:15
Szczerba, Mateusz, s1-026
<table>
<thead>
<tr>
<th>Name</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tang, Yali</td>
<td>s1-008, s3-016</td>
</tr>
<tr>
<td>Tarancon, Albert</td>
<td>(Tue s4)16:30</td>
</tr>
<tr>
<td>Tartakovsky, Boris</td>
<td>s3-010</td>
</tr>
<tr>
<td>Tereshchuk, Polina</td>
<td>s2-011</td>
</tr>
<tr>
<td>Tesch, Marc</td>
<td>(Mon s1)16:15</td>
</tr>
<tr>
<td>Thiringer, Tobjörn</td>
<td>s4-008</td>
</tr>
<tr>
<td>Thornton, Daisy B.</td>
<td>(Mon s4)16:45</td>
</tr>
<tr>
<td>Tian, Zhongqun</td>
<td>(Wed s4)16:15</td>
</tr>
<tr>
<td>Torrell, Marc</td>
<td>s2-019</td>
</tr>
<tr>
<td>Townsend, William</td>
<td>(Wed s1)13:15</td>
</tr>
<tr>
<td>Trabesinger, Sigita</td>
<td>s4-026</td>
</tr>
<tr>
<td>Trey, Stacy</td>
<td>(Wed s4)14:00</td>
</tr>
<tr>
<td>Tschulik, Kristina</td>
<td>(Tue J1)10:00</td>
</tr>
<tr>
<td>Turek, Thomas</td>
<td>(Tue s3)15:15, (Wed s3)16:00</td>
</tr>
<tr>
<td>Ubbenjans, Vera</td>
<td>(Tue s3)16:45</td>
</tr>
<tr>
<td>Ulusoy, Seda</td>
<td>(Tue s4)15:30, s4-016</td>
</tr>
<tr>
<td>Unwin, Patrick R.</td>
<td>(Tue s4)14:30</td>
</tr>
<tr>
<td>Valentin, Jonathan</td>
<td>(Wed s2)14:00</td>
</tr>
<tr>
<td>Valtiner, Markus</td>
<td>(Mon s4)16:15</td>
</tr>
<tr>
<td>Valvo, Mario</td>
<td>(Tue s4)15:30, s4-016</td>
</tr>
<tr>
<td>van de Poll, Rim</td>
<td>(Tue s3)17:00</td>
</tr>
<tr>
<td>van der Schaar, John</td>
<td>s3-016</td>
</tr>
<tr>
<td>van Ekeren, Wessel</td>
<td>s4-031</td>
</tr>
<tr>
<td>Vandenberghe, Florent</td>
<td>(Tue s2)15:15</td>
</tr>
<tr>
<td>Vass, Adám</td>
<td>(Tue s3)14:15</td>
</tr>
<tr>
<td>Vegge, Tejs</td>
<td>s2-033, s3-019</td>
</tr>
<tr>
<td>Velasco Velez, Juan</td>
<td>(Mon s1)15:45</td>
</tr>
<tr>
<td>Vereecken, Philippe M.</td>
<td>(Tue s4)16:30</td>
</tr>
<tr>
<td>Vicenzo, Antonello</td>
<td>s5-001</td>
</tr>
<tr>
<td>Vidakovic-Koch, Tanja</td>
<td>s3-001, s3-002</td>
</tr>
<tr>
<td>Vivek, J. Padmanabhan</td>
<td>s4-009</td>
</tr>
<tr>
<td>Viviani, Massimo</td>
<td>s2-004, s2-019</td>
</tr>
<tr>
<td>Vocke, Heinrich</td>
<td>(Mon s1)16:30, (Wed s1)14:30</td>
</tr>
<tr>
<td>Voigt, Karsten</td>
<td>(Mon s4)15:30</td>
</tr>
<tr>
<td>Vor, Rafael</td>
<td>s3-024</td>
</tr>
<tr>
<td>Vreman, Bert</td>
<td>s1-008</td>
</tr>
<tr>
<td>Walcarius, Alain</td>
<td>(Wed s4)15:30</td>
</tr>
<tr>
<td>Walsh, Darren</td>
<td>(Wed s1)13:15</td>
</tr>
<tr>
<td>Wang, Peiwen</td>
<td>s4-028</td>
</tr>
<tr>
<td>Wang, Tongshuai</td>
<td>s1-028</td>
</tr>
<tr>
<td>Wark, Michael</td>
<td>(Mon s1)16:30, (Wed s1)14:30</td>
</tr>
<tr>
<td>Watzele, Sebastian A.</td>
<td>s2-028, (Wed s2)16:15</td>
</tr>
<tr>
<td>Weber, Adam</td>
<td>(Wed J1)10:40</td>
</tr>
<tr>
<td>Weinmiller, Julius</td>
<td>(Mon s4)15:45, s4-032, s4-032</td>
</tr>
<tr>
<td>Weiss, Catherine</td>
<td>(Tue s2)16:30</td>
</tr>
<tr>
<td>Wessling, Matthias</td>
<td>(Tue s3)16:45</td>
</tr>
<tr>
<td>White, Jai</td>
<td>s3-025</td>
</tr>
<tr>
<td>Wiberg, Cedrik</td>
<td>(Mon s6)13:30, s6-015, s6-017</td>
</tr>
<tr>
<td>Wickman, Björn</td>
<td>(Tue s2)14:45, (Wed s2)15:30, s2-015, s2-017, s2-023, s2-024, s2-031</td>
</tr>
<tr>
<td>Widanage, W. Dhammika</td>
<td>(Tue s4)15:15</td>
</tr>
<tr>
<td>Wiedemann, Johannes</td>
<td>(Mon s4)13:30</td>
</tr>
<tr>
<td>Wildlock, Mats</td>
<td>(Mon J1)11:00, s1-028</td>
</tr>
<tr>
<td>Willenberg, Shane</td>
<td>s6-013</td>
</tr>
<tr>
<td>Witt, Daniel</td>
<td>(Wed J1)10:20</td>
</tr>
<tr>
<td>Wittstock, Gunther</td>
<td>(Wed s1)14:30, s1-020</td>
</tr>
<tr>
<td>Wohlfahrt-Mehrens, Margret,</td>
<td>(Mon J1)11:20</td>
</tr>
<tr>
<td>Wojcik, Pawel J.</td>
<td>(Tue s4)16:30</td>
</tr>
<tr>
<td>Wreland Lindström, Rakel,</td>
<td>(Mon s6)14:00, (Wed s4)15:00, (Wed s2)15:30, s2-003, s2-010, s6-010</td>
</tr>
<tr>
<td>Wysocki, Maciej</td>
<td>(Wed s4)14:00</td>
</tr>
<tr>
<td>Xiao, Jie</td>
<td>(Mon s1)16:15</td>
</tr>
<tr>
<td>Xu, Xiangdong</td>
<td>(Tue s4)14:30</td>
</tr>
<tr>
<td>Yamazaki, Shigeaki</td>
<td>(Mon s4)16:00</td>
</tr>
<tr>
<td>Yan, Yushan</td>
<td>(Tue s2)16:30</td>
</tr>
<tr>
<td>Yang, Peidong</td>
<td>(Tue s3)15:30</td>
</tr>
<tr>
<td>Yao, Liang</td>
<td>(Tue J1)10:00</td>
</tr>
<tr>
<td>Yaremchenko, Aleksey</td>
<td>s4-038</td>
</tr>
<tr>
<td>Yari, Saeed</td>
<td>s4-006</td>
</tr>
<tr>
<td>Yashiro, Hitoshi</td>
<td>(Wed s4)14:15, s4-018</td>
</tr>
<tr>
<td>Yasuda, Mayu</td>
<td>(Mon s6)15:45</td>
</tr>
<tr>
<td>Ye, Chunmiao</td>
<td>s3-026</td>
</tr>
<tr>
<td>Yesilbas, Göktug</td>
<td>s4-033</td>
</tr>
<tr>
<td>Yik, Jackie</td>
<td>s4-034, s4-034</td>
</tr>
<tr>
<td>Younesi, Reza</td>
<td>(Mon s6)16:30, (Wed s4)13:45, (Wed s4)15:45, s4-017, s4-031</td>
</tr>
<tr>
<td>Yu, Sunmoon</td>
<td>(Tue s3)15:30</td>
</tr>
<tr>
<td>Yücel, Yasemin Dużyu,</td>
<td>(Wed s4)14:00</td>
</tr>
</tbody>
</table>
Zakharchuk, Kiryl, s2-038
Zanotto, Franco M., (Mon s4)14:45,
   (Mon s4)14:45
Zapata Dominguez, Diana, (Mon s4)14:45
Zekoll, Stefanie, (Tue s4)17:30
Zeng, Lanping, (Wed s4)16:15
Zenkert, Dan, (Wed s4)14:00
Zhan, Dongping, (Wed s4)16:15
Zhang, Leiting, s4-034
Zhang, Yufan, (Wed s2)14:15
Zheng, Tianye, (Wed s4)13:30
Zhu, Xinhua, (Mon s4)13:45, (Tue s4)16:30
Zhu, Xinwei, (Tue s3)16:30, (Tue s3)16:30
Zivkovic, Luka, s3-001, s3-002
Zimmermann, Christoph Philipp, s1-011
Zlatar, Matej, (Wed s1)14:15
Campus “Valhallavägen”
KTH, Royal Institute of Technology
Brinellvägen 8, Stockholm. Sweden
Underground station: Tekniks Högskolan (red line) or bus nr 4. Public transport: www.sl.se
https://www.kth.se/en/om/kontakt/campus/kth-campus-1.640118
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNDAY</td>
<td>9:00-9:20</td>
<td>Opening Ceremony</td>
</tr>
<tr>
<td></td>
<td>9:20-9:40</td>
<td>Keynote: Hubert Gastaiger</td>
</tr>
<tr>
<td></td>
<td>9:40-10:00</td>
<td>Joint Session</td>
</tr>
<tr>
<td></td>
<td>10:00-10:20</td>
<td>Room F1: Water electrolysis</td>
</tr>
<tr>
<td></td>
<td>10:20-10:40</td>
<td>Room F1: Fuel cells</td>
</tr>
<tr>
<td></td>
<td>11:00-11:20</td>
<td>Room F1: Other electrolysis, CO2 etc.</td>
</tr>
<tr>
<td></td>
<td>11:20-11:40</td>
<td>Room F1: Batteries for E-mobility</td>
</tr>
<tr>
<td></td>
<td>11:40-12:00</td>
<td>Lunch and Poster Session</td>
</tr>
<tr>
<td></td>
<td>12:00-13:15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13:15-13:30</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>13:30-13:45</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>13:45-14:00</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:00-14:15</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:15-14:30</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:30-14:45</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:45-15:00</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:00-15:15</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:15-15:30</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:30-15:45</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:45-16:00</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:00-16:15</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:15-16:30</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:30-16:45</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:45-17:00</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:00-17:15</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:15-17:30</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:30-17:45</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:45-18:00</td>
<td>Room F1: Closing Ceremony</td>
</tr>
<tr>
<td></td>
<td>18:00-19:00</td>
<td>Registration: Stockholm Town Hall</td>
</tr>
<tr>
<td></td>
<td>19:00-21:00</td>
<td>Welcome Reception: Stockholm Town Hall</td>
</tr>
<tr>
<td></td>
<td>18:15</td>
<td>Visit of the Modern Art Museum</td>
</tr>
<tr>
<td></td>
<td>19:15</td>
<td>Dinner at the Modern Art Museum</td>
</tr>
<tr>
<td>MONDAY</td>
<td>9:00-9:20</td>
<td>Room F1: Keynote: David Howey</td>
</tr>
<tr>
<td></td>
<td>9:20-9:40</td>
<td>Coffee break</td>
</tr>
<tr>
<td></td>
<td>10:00-10:20</td>
<td>Joint Session: Experimental methods</td>
</tr>
<tr>
<td></td>
<td>10:20-10:40</td>
<td>Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>11:00-11:20</td>
<td>Joint Session: Modelling</td>
</tr>
<tr>
<td></td>
<td>11:20-11:40</td>
<td>Lunch and Poster Session</td>
</tr>
<tr>
<td></td>
<td>12:00-13:15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13:15-13:30</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>13:30-13:45</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>13:45-14:00</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:00-14:15</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:15-14:30</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:30-14:45</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:45-15:00</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:00-15:15</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:15-15:30</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:30-15:45</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:45-16:00</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:00-16:15</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:15-16:30</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:30-16:45</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:45-17:00</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:00-17:15</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:15-17:30</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:30-17:45</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:45-18:00</td>
<td>Room F1: Closing Ceremony</td>
</tr>
<tr>
<td>TUESDAY</td>
<td>9:00-9:20</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>9:20-9:40</td>
<td>Coffee break</td>
</tr>
<tr>
<td></td>
<td>10:00-10:20</td>
<td>Joint Session: Experimental methods</td>
</tr>
<tr>
<td></td>
<td>10:20-10:40</td>
<td>Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>11:00-11:20</td>
<td>Joint Session: Experimental methods</td>
</tr>
<tr>
<td></td>
<td>11:20-11:40</td>
<td>Lunch and Poster Session</td>
</tr>
<tr>
<td></td>
<td>12:00-13:15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13:15-13:30</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>13:30-13:45</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>13:45-14:00</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:00-14:15</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:15-14:30</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:30-14:45</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:45-15:00</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:00-15:15</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:15-15:30</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:30-15:45</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:45-16:00</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:00-16:15</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:15-16:30</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:30-16:45</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:45-17:00</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:00-17:15</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:15-17:30</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:30-17:45</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:45-18:00</td>
<td>Room F1: Closing Ceremony</td>
</tr>
<tr>
<td>WEDNESDAY</td>
<td>9:00-9:20</td>
<td>Room F1: Keynote: David Howey</td>
</tr>
<tr>
<td></td>
<td>9:20-9:40</td>
<td>Coffee break</td>
</tr>
<tr>
<td></td>
<td>10:00-10:20</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>10:20-10:40</td>
<td>Joint Session: Experimental methods</td>
</tr>
<tr>
<td></td>
<td>11:00-11:20</td>
<td>Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>11:20-11:40</td>
<td>Joint Session: Modelling</td>
</tr>
<tr>
<td></td>
<td>12:00-13:15</td>
<td>Lunch and Poster Session</td>
</tr>
<tr>
<td></td>
<td>13:15-13:30</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>13:30-13:45</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>13:45-14:00</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:00-14:15</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:15-14:30</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:30-14:45</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>14:45-15:00</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:00-15:15</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:15-15:30</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:30-15:45</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>15:45-16:00</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:00-16:15</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:15-16:30</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:30-16:45</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>16:45-17:00</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:00-17:15</td>
<td>Room F1: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:15-17:30</td>
<td>Room F2: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:30-17:45</td>
<td>Room F3: Oral Presentations</td>
</tr>
<tr>
<td></td>
<td>17:45-18:00</td>
<td>Room F1: Closing Ceremony</td>
</tr>
</tbody>
</table>