Programme for ICE 2017 ver. 19-05-2017

Monday 12/6

08:30	**Registration, Coffee**		
09:00-10:40	**Session 1. Special**		
09:00	**Welcome, opening remarks**	**Jens Oluf Jensen** DTU Energy Denmark	
09:20	Application of Potentially Inexpensive Ceramics in Electrolysis Cells	**Mogens B. Mogensen (INVITED)** DTU Energy Denmark	
09:40	Overview of FCH JU support to Electrolysis for energy applications	**Nikolaos Lymperopoulos (INVITED)** FCH-JU, Energy Pillar Belgium	
10:00	Efficient seawater electrolyzer based on Nickel Iron layered double hydroxide as selective Oxygen evolution reaction catalyst	**Sören Dresp** Technische Universität Berlin Germany	
10:20	Corrosion-resistant materials for use in unconventional molten carbonate electrolysis environments: evaluation of Al-diffusion coatings for stainless steel protection in a ternary LiNaK carbonate melt at 500°C under CO_2 gas	**Stefano Frangini** ENEA Italy	
10:40	**Coffee break**		
11:00-12:40	**Session 2. PEMEC**		
11:00	Advancing PEM Electrolysis for Current and Future Hydrogen Markets	**Everett B. Anderson (INVITED)** Proton OnSite USA	
11:20	Key Performance Indicators for MW-scale PEM water electrolyzers	**Pierre Millet (INVITED)** Universite Paris Sud France	
11:40	Business Opportunities for MW electrolysis and related Requirements	**Manfred Waidhas (INVITED)** Siemens AG Germany	
12:00	MEGASTACK	**Magnus Thomassen** SINTEF Norway	
12:20	Techno-Economic Modeling of Renewable Energy Hydrogen Supply Systems based on Water Electrolysis	**Øystein Ulleberg** Institute for Energy Technology Norway	
12:40	**Lunch**		

Monday 12/6 (*Continued*)

13:40-15:20	**Session 3. AEC**		
13:40	The Oxygen Evolution Reaction: The Enigma in Water Electrolysis	**Thomas J. Schmidt (INVITED)** Paul Scherrer Insitute Switzerland	
14:00	Oxygen Evolution Reaction on Perovskites: A Combined Experimental and Theoretical Study of Their Structural, Electronic, and Electrochemical Properties	**Xi Cheng** Paul Scherrer Institut Switzerland	
14:20	Electrocatalysis of Oxygen-Evolution on Well-Defined Mass-Selected NiFe nanoparticles	**Claudie Roy** Technical University of Denmark Denmark	
14:40	Raney-Ni electrodes for the alkaline electrolysis of water	**Christian Müller** Fraunhofer IFAM Germany	
15:00	Raney Nickel alloy electrodes for alkaline water electrolysis	**Syed-Asif Ansar** German Aerospace Center Germany	
15:20	**Coffee break**		
15:40-17:20	**Session 4. SOEC**		
15:40	Roles for High Temperature Electrolysis in the Rapidly Changing US Energy Market	**Carl Stoots (INVITED)** Idaho National Laboratory USA	
16:00	Solid Oxide Electrolysis for Grid Balancing: Recent Achievements and Future Challenges	**Ming Chen** DTU Energy Denmark	
16:20	Operation and performance of tubular proton ceramic electrolysers	**Einar Vøllestad** University of Oslo Norwawy	
16:40	Fabrication and Characterization of Metal-supported Solid Oxide Electrolysis Cells	**Feng Han** German Aerospacce Center (DLR) Germany	
17:00	Solid Oxide Electrolyzer Cells oxygen electrode based on infiltrated nanocomposite mesoporous materials	**Elba Hernández** Catalonia Institute for Energy Research-IREC Spain	
17:20-19:40	**Poster session I**	**With welcome reception**	

Tuesday 13/6

08:30	**Registration, Coffee**		
09:00-10:40	**Session 5. PEMEC**		
09:00	The development and implementation of Ir based nanowires as oxygen evolution electrocatalysts	**Bryan Pivovar (INVITED)** NREL USA	
09:20	The oxygen evolution at IrxRu1-xO2 produced by hydrolysis synthesis	**Svein Sunde** NTNU Norway	
09:40	Study of the Physical Morphology and Electrochemical Characteristics of Oxygen Evolution Reaction (OER) Iridium Based Electrocatalyst Synthesized with a Polyol Method for PEM Water Electrolysis	**Brant A Peppley** Queen's University Canada	
10:00	Anode catalysts for PEM electrolyzers: Synthesis, Activity and Degradation Aspects with Ex Situ and In Situ Characterization	**Li Wang** German Aerospace Center (DLR) Germany	
10:20	On the design and optimization of a bimetallic (Co,Mn)-based catalyst for hydrogen evolution in acidic medium	**Ali Shahraei** TU Darmstadt Germany	
10:40	**Coffee break**		
11:00-12:40	**Session 6. AEC**		
11:00	Hydrogen reaching fossil parity around the world	**Bjørn Simonsen (INVITED)** Nel Hydrogen Norway	
11:20	PERIC's development on AEL and SPE technology	**Tianshan Chen (INVITED)** Purification Equipment Research Institute of CSIC China	
11:40	Alkaline Water Electrolyzers With Base Metal Catalysts Showing 1 A/cm^2 At 1.75 V	**Rich Masel** Dioxide Materials USA	
12:00	A unique approach for high intensity alkaline water electrolysis using a membraneless Divergent-Electrode-Flow-Through (DEFT TM) electrolyser	**Malcolm Gillespie** Hydrox Holdings Ltd. South Africa	
12:20	High temperature alkaline electrolysis	**Christodoulos Chatzichristodoulou** DTU Energy Denmark	
12:40	**Lunch**		

Tuesday 13/6 (*Continued*)

13:40-15:20	**Session 7. SOEC**		
13:40	Tailoring electrode interfaces for conversion	**John T.S. Irvine (INVITED)** University of St Andrews UK	
14:00	Degradation Behavior of (La,Sr)(Fe,Co)O3 Solid Oxide Cell Oxygen Electrodes During Reversible Electrolysis and Fuel Cell Operation	**Scott Barnett** Northwestern University USA	
14:20	Eliminating degradation and repairing damage in solid oxide cell and stack fuel electrodes	**Theis Skafte** DTU Energy Denmark	
14:40	Post-test analysis of a solid oxide electrolysis cell operated for 23000 h	**Qingxi Fu** EIFER Germany	
15:00	Regenerating the performance of solid oxide electrolyzers by periodic treatments to extend lifetime	**Christopher Graves** DTU Energy Denmark	
15:20	**Coffee break**		
15:40-17:20	**Session 8. PEMEC**		
15:40	Megawatt scale dual stack PEM electrolysis development for enhancing renewable energy integration by providing grid services during hydrogen generation	**Jan Vaes (INVITED)** Hydrogenics Belgium	
16:00	Increasing PEM water electrolysis energetic efficiency by a surface modification of Ti gas diffusion layer	**Karel Bouzek** University of Chemistry and Technology Prague Czech Republic	
16:20	Materials and coatings for PEM water electrolysers	**Alejandro Oyarce** SINTEF Norway	
16:40	Flow field design for high-pressure PEM electrolysis cells	**Anders Olesen** Aalborg University Denmark	
17:00	Protective coatings for low-cost bipolar plates and current collectors of proton exchange membrane electrolyzers	**Philipp Lettenmeier** German Aerospace Center Germany	
17:20	**Coffee break**		

Tuesday 13/6 (*Continued*)

17:40-19:20	**Session 9. Special**		
17:40	EU Harmornised Test Protocols for Electrolysis Applications	**Georgios Tsotridis** Joint Research Centre Netherlands	
18:00	Catalytic and Photochemically-Assisted Electroreduction of Carbon Dioxide	**Pawel Kulesza** University of Warsaw Poland	
18:20	Impact of the design on performance loss in photo-driven water electrolysers	**Fredy Nandjou** EPFL/LRESE Switzerland	
18:40	SO2 depolarized electrolyser- Enhanced H2 production with SiC foam flow layer	**Annukka Santasalo-Aarnio** Aalto University Finland	
19:00	Sputtered Pt-containing electrocatalysts for SO_2(aq) electrolysis	**Anzel Falch** North-West University South Africa	
19:20	**Scientific Committee meeting**		

Wednesday 14/6

08:30	**Registration, Coffee**		
09:00-10:40	**Session 10. SOEC**		
09:00	Steam Electrolysis as the Core Technology for Sector Coupling in the Energy Transition	**Oliver Borm (INVITED)** Sunfire GmbH Germany	
09:20	Development of Solid Oxide Electrolysis technology able to operate at high steam conversion rate and integration into a SOE system	**Julie Mougin** CEA LITEN France	
09:40	System design and operation of a solid oxide electrolyzer	**Ligang Wang** EPFL Switzerland	
10:00	Solid oxide electrolyzes system development	**Richard Schauperl** AVL Austria	
10:20	Electrochemical Characterization of a 10 layer Solid Oxide Electrolysis Stack operated under pressurized conditions	**Marc Riedel** German Aerospace Center Germany	
10:40	**Coffee break**		
11:00-12:40	**Session 11. PEMEC**		
11:00	The Development of Accelerated Stress Tests for PEM Electrolysers	**Nick van Dijk (INVITED)** ITM Power UK	
11:20	Benchmarking Catalyst Activity and Durability for Water Electrolysis	**Hui Xu (INVITED)** Giner Inc. USA	
11:40	Operation of low-temp electrolyzers at very high current densities: a pipe dream or an opportunity?	**Krzysztof Lewinski** 3M USA	
12:00	Membranes for recombination and electro-oxidation of permeated hydrogen in PEM electrolysis	**Dmitri Bessarabov** HySA at North-West University South Africa	
12:20	Physical factors affecting gas-leakage from PEMWE	**Kohei Ito** Kyushu University Japan	
12:40-15:00	**Poster Session II**	**With lunch and presentation by EWII**	

Wednesday 14/6 (*Continued*)

15:00	**Departure for Copenhagen Harbour tour**	
15:30-16:30	**Copenhagen Harbour tour**	

18:00	**Drink**	
19:00-23:00	**Conference Dinner**	

Thursday 15/6

08:30	**Registration, Coffee**		
09:00-10:40	**Session 12. AEC**		
09:00	Polyaromatic, Solid Polymer Electrolytes for Acidic and Alkaline Electrolyzers	**Steven Holdcroft (INVITED)** Simon Fraser University Canada	
09:20	Recent developments in alkaline pressure electrolysis with anion-conductive membrane (AEM)	**Ulrich Fischer** Brandenburg University of Technology Germany	
09:40	Anion selective membranes based laboratory-scale alkaline water electrolysis stack	**Jaromír Hnát** University of Chemistry and Technology Prague Czech Republic	
10:00	High Temperature Membraneless Alkaline Electrolysis	**Jeremy Hartvigsen** Missouri S&T USA	
10:20	Alkaline membrane electrolysis with PEM-level electrochemical performance	**Mikkel Rykær Kraglund** DTU Energy Denmark	
10:40	**Coffee break**		
11:00-12:40	**Session 13. SOEC**		
11:00	CO from CO2 – on-site carbon monoxide generation	**Peter Blennow (INVITED)** Haldor Topsoe A/S Denmark	
11:20	Thermodynamic constraints in operating a solid oxide electrolysis stack on dry carbon dioxide gathered from the Mars atmosphere	**Joseph Hartvigsen** Ceramatec, Inc. USA	
11:40	Development and flight qualification of a solid oxide CO2 electrolysis stack for the Mars2020 MOXIE project	**Jessica Elwell** Ceramatec, Inc USA	
12:00	Synthetic methane production from CO2 methanation: process integration with SOEC electrolyser and reaction kinetics on hydrotalcite-derived catalyst and	**Andrea Lanzini** Politecnico di Torino Italy	
12:20	Performance and durability of four 6-cell solid oxide electrolyser stacks for hydrogen and syngas production	**Mikko Kotisaari** VTT Finland	
12:40	**Lunch**		

Thursday 15/6 (*Continued*)

13:40-15:20	**Session 14. PEMEC**		
13:40	Effect of catalyst loading on performance and durability of a PEM water electrolysis cell based on an Aquivion® perfluorosulfonic acid (PFSA) membrane	**Antonino S. Arico' (INVITED)** CNR-ITAE Italy	
14:00	Improved Resistance to Degradation of Ir Nanoparticles Supported onto Antimony-Doped Tin Dioxide Monitored by Identical-Location Transmission Electron Microscopy	**Frédéric Maillard** CNRS LEPMI France	
14:20	Durability of PEMEC MEAs	**Laila Grahl-Madsen** EWII Fuel Cells Denmark	
14:40	Towards selective test protocols for accelerated in situ degradation of PEM electrolysis cell cmponents	**Thomas Lickert** Fraunhofer ISE Germany	
15:00	Mechanical characterisation and durability of sintered bodies for PEM electrolysis	**Elena Borgardt** Research Center Juelich Germany	
15:20	**Coffee break**		
15:40-17:00	**Session 15. AEC**		
15:40	Complex of cobalt and molybdenum carbide nanoparticles for efficient oxygen evolution reaction in alkaline electrolytes	**Eunae Cho** KAIST Republic of Korea	
16:00	Gold-Metal Oxide Core-Shell Nanoparticles As Electrocatalysts for Water Oxidation	**Maria Escudero-Escribano** University of Copenhagen Denmark	
16:20	Modified carbon nanomaterials as highly active electrocatalysts for water-splitting	**Mohammad Tavakkoli** Aalto University Finland	
16:40-17:00	**Closing**	**Jens Oluf Jensen** DTU Energy Denmark	

Monday 12/6 - POSTER SESSION

No.	Poster session I	With welcome reception	
	Don Quichote: Demonstration of How to Produce Hydrogen Using Wind Energy	**Ahmed Aly** FAST Italy	
	Influence of geometry and kinetic of hydrogen and oxygen evolution on the current density distribution and electrode potentials in bipolar electrolyzers	**Alejandro Colli** (EPFL) Switzerland	
	Materials and coatings for PEM water electrolysers	**Alejandro Oyarce** SINTEF Norway	
	Specific electrical conductivity in solid and molten CsH_2PO_4 and $Cs_2H_2P_2O_7$ – a potentially new electrolyte for water electrolysis at ~225-400 °C	**Aleksey Nikiforov** DTU Energy Denmark	
	Progress of the European Project Efficient Co-Electrolyser for Efficient Renewable Energy Storage - ECo	**Anke Hagen** DTU Energy Denmark	
	Investigation on porous transport layers for PEM electrolysis	**Arne Fallisch** Fraunhofer ISE Germany	
	Comparative degradation study of a Ni-YSZ supported Solid Oxide Fuel Cell under electrolysis and co-electrolysis operations	**Aziz Nechache** German Aerospace Center Germany	
	Oxygen Evolution Reaction Performance of $PrBaCo_2O_{5+\delta}$ and $Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{2+\delta}$ in Carbonated Electrolyte for Water Electrolysis	**Baejung Kim** Paul Scherrer Institut Switzerland	
	Accelerated stress tests for efficient degradation studies on iridium-based mixed metal oxide catalysts for PEM-electrolysis	**Camillo Spoeri** Technische Universität Berlin Germany	
	Performance and degradation of a SOEC stack with different air electrodes	**Carolin Frey** Forschungszentrum Jülich Germany	
	Direct membrane deposition – a simple and cost effective fabrication method for polymer electrolyte membrane electrolysis cells	**Carolin Klose** University of Freiburg Germany	
	Synergies between Solid Oxide Electrolyser Cells and Catalytic Methanisation	**Christian Dannesboe** Aarhus University Denmark	
	Experimental analysis of local effects in a 50 cm PEM water electrolysis cell	**Christoph Immerz** Leibniz Universität Germany	
	Ion-solvating polymer electrolytes for alkaline water electrolysis	**David Aili** DTU Energy Denmark	

Monday 12/6 - POSTER SESSION (*Continued*)

	Modelling and Simulation Activities on PEM Water Electrolysis	**Deepjyoti Borah** Forschungszentrum Juelich Germany	
	Investigation of advanced components in a high pressure single-cell electrolyser for the development of a HP-PEM-ELY stack as part of a Regenerative Fuel Cell System	**Dimitrios Niakolas** FORTH/ICEHT Greece	
	Modified NiO/GDC cermets as possible cathode electrocatalysts for H_2O electrolysis & H_2O/CO_2 co-electrolysis processes in SOECs	**Dimitrios Niakolas** FORTH/ICEHT Greece	
	Permeation and Recombination of Hydrogen under PEM electrolysis conditions	**Dmitri Bessarabov** HySA at North-West University South Africa	
	Techno-economic study of a Reversible Solid Oxide Cell (SOC) system for industrial hydrogen production and grid support applications	**Domenico Ferrero** Politecnico di Torino Italy	
	Solid oxide electrolysis at Forschungszentrum Jülich	**Dominik Schäfer** Forschungszentrum Jülich Germany	
	Nickel/Tungsten-Carbide Composite Catalysts for Oxygen Evolution in Alkaline Water Electrolysis	**Donghoon Song** KAIST Republic of Korea	
	Design of Reference Electrode for Polymer Electrolyte Membrane Electrolyzer	**Elyse Johnston-Haynes** Queen's University Canada	
	Electrospun-TiO_2 Supporting materials for Oxygen Evolution Reaction in Acidic conditions	**Eom-Ji Kim** KAIST Republic of Korea	
	Bubble characterization in an electrolysis cell using a flow visualization system	**Ernesto Amores** Centro Nacional del Hidrógeno Spain	
	PEM-Electrode drying	**Fabian Scheepers** Forschungszentrum Juelich Germany	
	Polymer functionalized carbon nanotubes as highly active bifunctional electrocatalysis for full water splitting	**Fatemeh Davodi** Aalto university Finland	
	Spinel-structured materials as catalyst support/current collector materials for PEM electrolysis cells	**Filippo Fenini** DTU Energy Denmark	
	Hydrogen production from short-chain alcohols using polymeric proton conductors	**Foteini Sapountzi** Syngaschem BV Netherlands	
	Single crystal studies to evaluate the structure sensitivity of the Oxygen Evolution Reaction (OER) under acidic conditions	**Francesco Bizzotto** University of Bern Switzerland	

Monday 12/6 - POSTER SESSION (*Continued*)

	Impact of Dynamic Load from Renewable Energy Sources on PEM Electrolyzer Lifetime	**Frans van Berkel** ECN The Netherlands	
	Aging of PEMWE catalyst coated membranes during dynamic operation: Electrochemical and microscopic study	**Georgios Papakonstantinou** Max Planck Institute for Dynamics of Complex Technical Systems Germany	
	A Facile Synthesis of Nano-sized IrO_2 and RuO_2 Catalysts for the Oxygen Evolution Reaction in Alkaline Medium	**Günther G. A. Scherer** TUM CREATE Singapore Switzerland	
	DFT studies of doped Cobalt and Nickel Oxyhydroxide Catalysts for Oxygen Evolution	**Heine Hansen** DTU Energy Denmark	
	Development of SOEC stacks at DTU Energy	**Henrik Lund Frandsen** DTU Energy Denmark	
	A 3-D micro porous Co-Fe-P catalyst	**Hyowon Kim** KAIST Republic of Korea	
	The catalysis of the electrolytic production of H_2O_2	**Ifan Stephens** DTU Physics Denmark	
	Measurement of effective diffusion for Ni/YSZ material used for SOFC/SOEC with a Wicke-Kallenbach setup and assessment of concentration profiles during CO_2- and co-electrolysis	**Jakob Duhn** DTU Chemical Engineering Danmark	
	Orbital Physics of Active Perovskites for Oxygen Catalysis	**Jose Gracia** SynCat DIFFER Netherlands	
	High temperature electrolyser with proton conducting ceramic tubular cells	**Nuria Bausá** ITQ (UPV-CSIC) Spain	
	Determining the fracture energy for oxygen electrode and contact layer interfaces in SOECs stacks	**Li Han** DTU Energy Denmark	
	Process intensification of alkaline water electrolysis by using 3-D electrodes	**Quentin De Radiguès** Université catholique de Louvain Belgique	
	Research and Demonstration of Solid Polymer Electrolysis Technology in China	**Xiaofeng Xie** Tsinghua University China	
	3D printed electrolytes for Solid Oxide Electrolyser devices with complex hierarchical geometries	**Elba Hernández** Catalonia Inst. for Energy Research (IREC) Spain	
	From Polyelectrolytes to Robust, Highly Proton Conducting Hydrocarbon Membranes for PEM Fuel Cell and PEM Electrolysis Applications	**Andreas Münchinger** Max-Planck-Institute for Solid State Research Germany	

Wednesday 14/6 - POSTER SESSION

No.	Poster session II	With lunch and presentation by EWII	
	Hydrogen production as a part of P-to-X system	**Antti Kosonen** Lappeenranta University of Technology Finland	
	Control and energy efficiency of alkaline and PEM water electrolyzers in renewable energy systems	**Joonas Koponen** Lappeenranta University of Technology Finland	
	Bioreactor with in situ water electrolysis for protein production	**Lauri Nygren** Lappeenranta University of Technology LUT School of Energy Systems Finland	
	The effect of line frequency and forced commutation on the losses of the electrolyzer stack and the power supply unit	**Vesa Ruuskanen** Lappeenranta University of Technology Finland	
	INSIDE – In-situ Diagnostics in Water Electrolysers	**Indro Biswas** German Aerospace Centre Germany	
	Development of oxygen evolution electrocatalysts and electrodes for High Temperature and Pressure Alkaline Electrolysis Cells (HTP-AEC)	**Jens Q. Adolphsen** DTU Energy Denmark	
	Hydrogen production from photovoltaic via “zero gap” alkaline electrolysis	**Jirina Polakova** UJV Rez, a. s. Czech Republic	
	Electrolysers based on CsH_2PO_4 to work at high pressures and moderate temperatures	**Nuria Bausá** ITQ (UPV-CSIC) Spain	
	Detection and modelling of hydrogen crossover in PEM electrolysers using EIS	**Julio César García-Navarro** German Aerospace Center Germany	
	Demonstration of Impedance Spectroscopy as a Method to Evaluate Losses of Polymer Electrolyte Membrane Electrolysis Cells during Water Electrolysis	**Katrine Elsøe** DTU Energy Denmark	
	Engineering of high temperature PEMWE	**Kohei Ito** Kyushu University Japan	
	The HyBalance Project will demonstrate how hydrogen can be used as mean to store energy which in turn will be used for Industry and fuel-cell vehicles	**Louis Sentis** Air Liquide Advanced Business France	
	Advances in PEM Electrolyzer Components	**Madeleine Odgaard** EWII Fuel Cells Denmark	
	Determination of the bipolar plate aging under PEM electrolysis operation	**Manuel Langemann** Forschungszentrum Jülich Germany	

Wednesday 14/6 - POSTER SESSION (*Continued*)

	H2FUTURE, Hydrogen from electrolysis for low carbon steelmaking	**Marcel Weeda** ECN Netherlands	
	In operando Raman spectroscopy for investigation of solid oxide electrolysis cells	**Marie Lund Traulsen** DTU Energy Denmark	
	Iron sulfides as low-cost bioinspired cathode catalysts for proton exchange membrane electrolyzers	**Marion Giraud** Universite Paris Diderot France	
	Oxygen evolution reaction kinetics on LSM electrode doped by Pt	**Martin Paidar** University of Chemistry and Technology Prague Czech Republic	
	Experimental loop of high temperature electrolysis in coupling of high temperature process	**Martin Tkáč** Technological Experimental Loops Czech Republic	
	Innovative photoelectrochemical cells based on polymeric membrane electrolytes and suitable porous photoanodes	**Michail Tsampas** DIFFER Netherlands	
	Mathematical model and experimental validation of a 15-kW alkaline electrolyzer	**Mónica Sánchez** Centro Nacional del Hidrógeno Spain	
	Tungsten Carbide Support Materials for the Hydrogen Evolution Reaction Produced by the Self-Propagating High-Temperature Synthesis Method	**Morten Gildsig Poulsen** University of Southern Denmark Denmark	
	Current density impact on hydrogen permeation during PEM water electrolysis	**Patrick Trinke** Leibniz Universität Germany	
	Highly Active Iridium Nanoparticles for Anodes of Proton Exchange Membrane (PEM) Electrolyzers	**Philipp Lettenmeier** German Aerospace center Germany	
	Degradation mechanisms of PEM electrolyzer MEAs operating at high current densities	**Philipp Lettenmeier** German Aerospace center Germany	
	Distribution of relaxation times – tool for the analysis of impedance spectra	**Piotr Jasinski** Gdansk University of Technology Poland	
	Activity of plasma vapour deposited $Pt_xNi_yAl_z$ as anode electrocatalyst for (membraneless) alkaline water electrolysis	**Roelof Jacobus Kriek** North-West University South Africa	
	In-situ upgrading of bio-oil using solid oxide electrolysis process	**S. Elango Elangovan** Ceramatec, Inc. United States	
	Experimental analysis of gas-liquid flow in PEM water electrolyser mini-channels using a permeable wall	**Saeed Sadeghi Lafmejani** Aalborg University Denmark	

Wednesday 14/6 - POSTER SESSION (*Continued*)

	Experimental study on the influence of clamping pressure on proton exchange membrane water electrolyzer (PEMWE) cell's characteristics	**Saher Al Shakhshir** Aalborg University Denmark	
	Infiltrated Solid Oxide Cell Oxygen Electrodes: Degradation During Reversible Current-Switching Operation Degradation Behavior of (La,Sr)(Fe,Co)O_3 Solid Oxide Cell Oxygen Electrodes During Reversible Electrolysis and Fuel Cell Operation	**Scott Barnett** Northwestern University USA	
	Protective coatings for interconnects for solid oxide cell stacks	**Sebastian Molin** DTU energy Denmark	
	Fabrication of porous Co-P foam by electrodeposition for an efficient hydrogen and oxygen evolution reactions	**Sekwon Oh** KAIST Republic of Korea	
	Electrochemical Tailoring of Syngas	**Severin Foit** Forschungszentrum Jülich Germany	
	Power to Gas/Liquid - biomass gasification and SOEC combined system	**Shahid Ali** Aalborg University Denmark	
	A PEM water electrolyser based on metallic iridium electrocatalyst, Pt/C and an Aquivion membrane	**Stefania Siracusano** CNR-ITAE Italy	
	Conceptual Degradation Model for a PEM Water Electrolyzer	**Steffen Frensch** Aalborg University Denmark	
	Analysis of Porous Transport Layers for Proton Exchange Water Electrolysis	**Tobias Schuler** Paul Scherrer Institut Switzerland	
	Small-scale systems for alkaline water electrolysis	**Ulrich Vogt** Empa Switzerland	
	LSCF and LSC infiltrated LSCF electrode for high temperature steam electrolysis	**Vaibhav Vibhu** Forschungszentrum Jülich Germany	
	Plasma-chemical technologies for PEM electrolyzers catalysts and protective coatings	**Vladimir Fateev** NRC "Kurchatov institute" Russia	
	Understanding and Tailoring Activity and Stability of Perovskite and Manganese Oxides for the Oxygen Evolution Reaction	**Vladimir Tripkovic** DTU Energy Denmark	
	New separator concepts for a radical improvement of the gas quality in alkaline water electrolysis (AWE)	**Wim Doyen** VITO Belgium	