

H2FC SUPERGEN research conference 2018

Venue: G35 School of Chemical Engineering, University of Birmingham (talks)
 112 School of Chemical Engineering, University of Birmingham (posters)
 Astor Restaurant, Staff House, University of Birmingham (conference dinner)

Tuesday 18th Dec 2018

09.00	Registration
-------	---------------------

09.30	Conference opening – Robert Steinberger-Wilckens
-------	---

Industrial keynotes – Chair: Robert Steinberger-Wilckens	
---	--

09.45	Cenex Ltd – Robert Evans - From a Tractor to Taxis: Thoughts on the Transition to Fuel cells
-------	---

10.10	HORIBA MIRA Ltd – Martin Watkinson
-------	---

10.35	Coffee break
-------	---------------------

Academic keynotes – Chair: John Varcoe and Shangfeng Du	
--	--

11.00	Shangfeng Du - Surface Engineering for Nanowire Electrodes in Low Temperature Fuel Cell Applications
-------	---

11.25	John Varcoe - Status update on the Development of Radiation-grafted Anion-Exchange Polymer Electrolytes for Alkaline Membrane Fuel Cells
-------	---

11.50	Mohamed Mamlouk - MnO ₂ as effective OER catalyst for Alkaline Anion Exchange Membrane Electrolysers
-------	--

12.15	Yousif Al-Sagheer - Fuel cell-to-Battery Power Split Controller for Stationary and Mobile Applications
-------	---

12.40	Lunch
-------	--------------

PEFC development – Chair: Artur Majewski		
---	--	--

14.00	Tran Thi Ngoc	Composite of transition metal oxide and heteroatom doped carbon fibre derived from lignin as bifunctional oxygen electrocatalyst
-------	----------------------	--

14.15	Huixin Zhang	Ionic liquid modified Pt/C catalysts for cathode application in proton exchange membrane fuel cells
-------	---------------------	---

14.30	Peter Mardle	Considerations for PEMFC catalyst layer development through the adaptation of Pt nanowire thin film electrodes
-------	---------------------	--

14.45	Elok Fidiani	Facile Synthesis of Bimetallic AgPt Alloy Nanorods for Proton Exchange Membrane Fuel Cells
-------	---------------------	--

15.00	Coffee break
-------	---------------------

SOFC development – Chair: Maria Galvez Sanchez		
15.30	Robert Price	Development and Short Stack Testing of Metal/Metal Oxide Co-Impregnated La _{0.20} Sr _{0.25} Ca _{0.45} TiO ₃ Anodes for Solid Oxide Fuel Cells
15.45	Zeyu Jiang	Aqueous tape casting SOFC manufacturing & Electrochemical performance and carbon resistance comparison between Sn,Cu and Ag-doped Ni/YSZ anodes SOFCs operated with biogas
16.00	Maria Galvez Sanchez	Studies of the effect of the amount of both La and vacancies in A-position for ceramic oxides based on (Sr,La) A _x TiO _{3±δ} formula.
16.15	Ayesha Samreen	Performance enhancement of intermediate temperature SOFCs using nano-composite cathode
16:30	Sébastien Rochat	Hydrogen storage in nanoporous polymers
16.45	Poster session + drinks	
18.30	Dinner (Astor Restaurant)	

H₂FC SUPERGEN research conference 2018

Wednesday 19th Dec 2018

09.30	Alumni panel – Chair: Richard Baines - Oliver Curnick - Phil Hamilton - Katie Howe - Tom Pike - Gulcan Serdaroglu
-------	---

11.00	Coffee break
-------	---------------------

Hydrogen production and storage – Chair: Mohamed Mamlouk		
11.30	Selim Ungut	Use of high oxygen capacity perovskite materials for hydrogen production via chemical looping
11.45	Irving Annan	Solid Oxide Reversible Cells
12.00	Mi Tian	Nanoporous Polymer-based Composites for Enhanced Hydrogen Storage
12.15	Marc Plunkett	Enriching impurities in hydrogen fuel samples using bespoke ultra-thin palladium alloy membranes to enable accurate ISO-14687 quality assurance

12.30	Closing remarks – Robert Steinberger-Wilckens
-------	--

13.00	Lunch and departure
-------	----------------------------