



Butler Meeting 2019

Scotland And North of England Electrochemistry Symposium
9th April, School of Engineering, The University of Edinburgh

Programme

10:00–10:30	Registration & Coffee (CR 3)	
10:30–10:40	Welcome (LT1): Ignacio Tudela-Montes, The University of Edinburgh.	
10:40–11:20	Opening Plenary (LT1): Kevin Sivula, École Polytechnique Fédérale de Lausanne. Direct solar-to-fuel energy conversion using semiconductor photoelectrochemistry.	
11:25–12:25	Session 1: Electrochemistry 1 (LT1) 11:25–11:45 E1.1: X. Liu, Imperial College London. Tough Ionogel Electrolytes for All-solid-state Supercapacitors. 11:45–12:05 E1.2: O. Iljaodola, University of the West of Scotland. Effect of bipolar plate materials for proton exchange membrane fuel cell. 12:05–12:25 E1.3: W.H. Tanveer, Heriot-Watt University. Optimizing Submicron Solid Oxide Fuel Cells Operating on Waste Carbon via Fuzzy and Electrochemical Modelling.	Session 2: Bioelectrochemistry 1 (LT2) B1.1: E. Blair, University of Strathclyde. Electrochemical Diagnostics: Antibiotic resistant Tuberculosis. B1.2: D. Eldosoky, The University of Edinburgh. Promoting the Remineralisation of Subsurface Caries Lesions. B1.3: V. Vezza, University of Strathclyde. Electrochemical detection of Sepsis causing bacteria.
12:25–13:30	Lunch & Posters (CR 2 & 3)	
13:30–15:10	Session 3: Electrochemistry 2 (LT1) 13:30–13:50 E2.1: E. Tanaka, The University of Edinburgh. Studies on π -A/Cu pairs in solid-state dye-sensitised solar cells. 13:50–14:10 E2.2: P. Valverde, University of Strathclyde. Anodic Reaction and the Corrosion of Cu from Water-containing Deep Eutectic Solvents. 14:10–14:30 E2.3: E. Ogungbemi, University of the West of Scotland. Investigation into the effect of humidification and external cooling of PEM fuel cell. 14:30–14:50 E2.4: A.G. Wallace, University of Glasgow. Using an Ultrasonic Input for Ammonium Persulfate Electrosynthesis and Advanced Oxidation Processes. 14:50–15:10 E2.5: D. Fox, Coventry University. Electroless Metallisation of Non-Conductive Textiles using a Copper Nanoparticle Catalyst.	Session 4: Bioelectrochemistry 2 (LT2) B2.1: D.J. Norman, The University of Edinburgh. Pt(IV) Prodrugs Activated By Implantable Microsystems. B2.2: E. Cross, University of Glasgow. Electrochemical Gels for Biological Applications. B2.3: A. Ucar, The University of Edinburgh. Development, Optimisation and Miniaturisation of Electrochemical Biosensors for Robust Protease Detection. B2.4: A. Butterworth, University of Strathclyde. Development of a DNA Biosensor to Detect Antibiotic Resistance. B2.5: P. Sullivan, The University of Edinburgh. Biointegration of implanted biosensors.
15:10–15:40	Coffee & Posters (CR 2 & 3)	
15:40–16:20	Closing Plenary (LT1): Eileen Yu, Newcastle University. Microbes and electrons, a bio-electrochemical engineering route towards circular economy.	
16:20–16:30	Prizes & Farewell (LT1)	

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