

Christian Doppler Symposium on Solar Fuels



Friday 18th September 2015

St John's College, School of Divinity, St
Johns Street, CB2 1TP, Cambridge, UK



TIME	PRESENTER	LOCATION
09:00-09:30	Registration	School of Divinity Foyer
09:30-09:40	Erwin Reisner Opening remarks	School of Divinity Lecture Theatre

Session 1: CO₂ Transformation [Chair: Roel van de Krol]

09:40-10:10	Osamu Ishitani <i>Tokyo Institute of Technology, Tokyo (JP)</i> “Photocatalytic Reduction of a Low Concentration of CO ₂ ”	School of Divinity Lecture Theatre
10:10-10:25	Moritz Kuehnel <i>University of Cambridge, Cambridge (UK)</i> “Photocatalytic Formic Acid Decomposition on CdS Nanocrystals with Controllable Selectivity for H ₂ or CO”	
10:25-10:55	Judy Hirst <i>MRC Mitochondrial Biology Unit, Cambridge (UK)</i> “Reversible Interconversion of CO ₂ and Formate by Tungsten- and Molybdenum-Containing Formate Dehydrogenases”	
10:55-11:20	Morning tea and coffee	School of Divinity Central Hall

Session 2: Biological Systems [Chair: Erwin Reisner]

11:20-11:50	Gary Brudvig <i>Yale University, New Haven (USA)</i> “The Oxygen Isotope Effect of Photosystem II Unveiled”	School of Divinity Lecture Theatre
11:50-12:05	Andrea Sartorel <i>University of Padova, Padova (ITA)</i> “Bio-Inspired Water Oxidation with Polyoxometalate Catalysts”	

12:05-12:35	Nicolas Plumeré <i>Ruhr-Universität, Bochum (DE)</i> “Redox Hydrogels for Bio-Fuel Cells and Bio-Photovoltaics”	
12:35-13:45	Lunch	St John's College Great Hall

Session 3: Materials and Devices [Chair: Leif Hammarström]

13:45-14:15	Daniel Nocera <i>Harvard University, Cambridge (USA)</i> “Solar-to-Fuels Conversion with the Artificial Leaf”	
14:15-14:30	Paolo Bombelli <i>University of Cambridge, Cambridge (UK)</i> “Bio- and Photo-bio Electrochemical Systems for Harnessing Solar Energy”	School of Divinity Lecture Theatre
14:30-15:00	Roel van de Krol <i>Institute for Solar Fuels, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin (DE)</i> “Metal Oxide Absorbers for Solar Water Splitting – Challenges and Opportunities”	
15:00-15:25	Afternoon tea and coffee	School of Divinity Central Hall

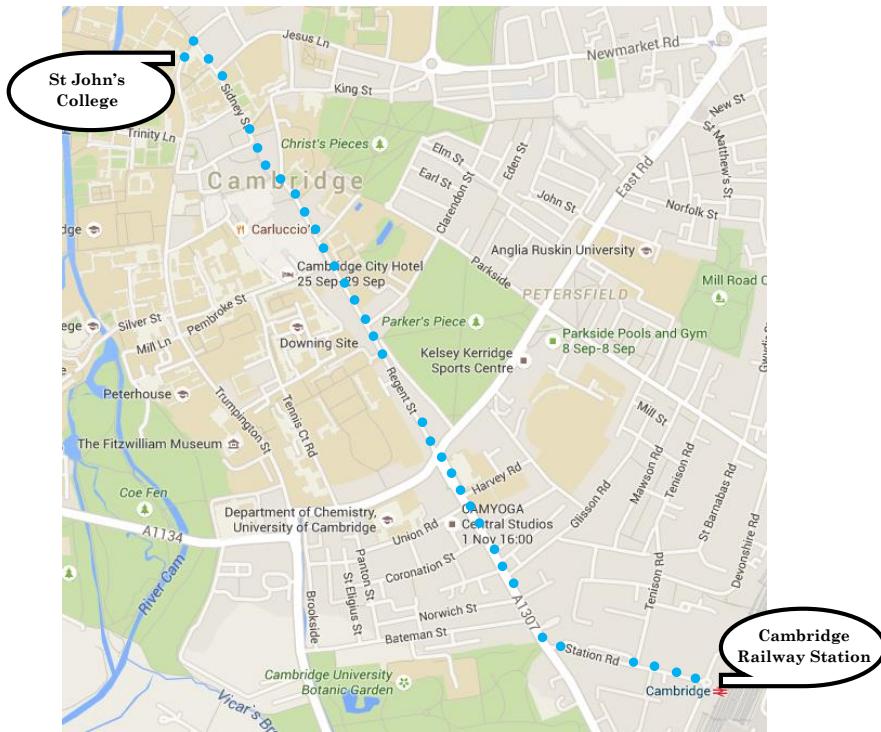
Session 4: Spectroscopy [Chair: Gary Brudvig]

15:25-15:55	Leif Hammarström <i>Uppsala University, Uppsala (SE)</i> “Resolving Catalyst Mechanisms and Intermediates”	
15:55-16:10	Elizabeth Gibson <i>University of Newcastle, Newcastle (UK)</i> “Dye-Sensitized NiO Photocathodes for Solar Fuel Devices”	School of Divinity Lecture Theatre
16:10-16:40	Devens Gust <i>Arizona State University, Tempe (USA)</i> “Molecular Mimicry of Photosynthetic Photoprotection and Photoregulation”	
16:40-16:50	Erwin Reisner Closing remarks	

Map and Directions

Cambridge Railway Station to St John's College

Walking directions from the station (approx. 30 mins): Walk up Station Road and turn right onto Hills Road. Continue straight onto Regent Street; this turns into St Andrew's Street. Veer left onto Sidney Street at the fork; this turns into Bridge Street. Turn left onto St Johns Street at the roundabout.



St John's College

If you have followed the directions above, the main gate and Porter's Lodge of St John's College will be on your right, and the School of Divinity will be on your left by All Saint's Garden. Please proceed through to the entrance hall of the School of Divinity to complete registration for the symposium.

