The 709th meeting of the Sydney University Chemical Society will be held on Thursday, 14th April 2016 in the Lecture Theatre 3 of the Chemistry Building on the campus of the University of Sydney.

2016 Hans Freeman Lecture

Solar Fuels:
Renewable Fuels Made From Sunlight, Water & Air

Dr Erwin Reisner
Department of Chemistry, University of Cambridge, United Kingdom

A key societal challenge of the 21st century is to secure and harness environmentally sustainable energy supplies. An attractive approach to this issue is the production of 'solar fuels' through a process known as artificial photosynthesis. In this technology, sunlight is used as the energy source to generate a renewable fuel such as hydrogen or ‘green gasoline’ from water and the greenhouse gas carbon dioxide. Solar fuels synthesis thereby addresses important elements of the energy challenge such as sustainability, security of supply and energy storage. This lecture will give an overview of the prospects of solar fuels and discuss some of the many fundamental science and engineering challenges that remain to be overcome on the road to a solar fuels economy.

Thursday 14th April, 5:30 pm
Chemistry Lecture Theatre 3
Refreshments from 5 pm in the foyer