



MURI ANNUAL REVIEW 2013

AFOSR MURI Novel Catalytic Mechanisms for
the Chemical Reduction of Carbon Dioxide
to Energy-Dense Liquids
Monday, December 9, 2013
NSB Auditorium

AGENDA

- 8:00am – Pick up at Hotel. Coffee and pastries will be served at the Natural Sciences Building Auditorium, or on your own.
- 8:30am – Welcome, scope of the project, and principles from molecular catalysts. Cliff Kubiak, UCSD
- 9:05am – Electrochemical CO₂ reduction: Theoretical investigations. Jens Nørskov, Stanford University
- 9:40am – Electrochemical reduction of CO₂ to higher alcohols. Matt Kanan, Stanford University
- 10:00am – 15 minute break (coffee and snacks)
- 10:15am – Photoelectrochemical CO₂ reduction: Theoretical investigations. Emily Carter, Princeton University
- 10:50am – Photoelectrochemical CO₂ reduction: Spectroscopic investigation. Anders Nilsson, Stanford University
- 11:35am – Lunch and poster viewing time.
- 1:00pm – Photoelectrochemical CO₂ reduction: Using Visible Light on Semiconductors. Nate Lewis, Caltech
- 1:35pm – Theoretical investigations of CO₂ reduction. Victor Batista, Yale
- 1:55pm – Design of functional semiconductor interfaces and new organic catalytic systems for CO₂ reduction. Andrew Bocarsly, Princeton University
- 2:30pm – Multifunctional MOFs: From proton conduction to catalysis. Francesco Paesani, UCSD
- 2:50pm – Poster viewing continues (drinks and snacks)
- 3:50pm – Sum frequency studies of CO₂ reduction catalysts. Tim Lian, Emory
- 4:10pm – Internal and external collaboration discussions, discussion of research and new ideas and opportunities.
- 6:00pm – Dinner, Tony's Jacal, Solana Beach