## CNM Workshop 3: CO<sub>2</sub> Capture and Conversion into Value Added Products

## Monday, May 2, Morning

9:00 -	9:05	Welcome

- 9:05 9:35 Ted Sargent (Northwestern University) *CO*<sub>2</sub> *Electroreduction to Fuels and Chemicals*
- 9:35 10:05 Ah-Hyung Alissa Park (Columbia University) Structure and Transport Behaviors of Liquid-like Nanoparticle Organic Hybrid Materials Designed for Combined CO<sub>2</sub> Capture and Conversion
- 10:05 10:35 Di-Jia Liu (Argonne National Laboratory) *Challenges and Design Principle for Electrocatalytic Conversion of CO*<sub>2</sub> *to C*<sub>2</sub>+ *Chemicals*
- 10:35 10:45 Questions and Break
- 10:45 11:15 Alan Hatton (Massachusetts Institute of Technology) Electrochemical Control of CO<sub>2</sub> Separation Processes
- 11:15 11:45 Matteo Cargnello (Stanford University) Nanocrystal-based Catalysts for CO<sub>2</sub> Hydrogenation to Fuels and Chemicals
- 11:45 12:15 Francesca Toma (Lawrence Berkeley National Laboratory) (Photo)electrocatalysis at Work
- 12:15 12:30 Questions and Closing Remarks

## Tuesday, May 3, Morning

Welcome

9.00 - 9.05

9.00 9.00	
9:05 – 9:35	Akihiko Kudo (Tokyo University of Science) Photocatalytic CO <sub>2</sub> Fixation Using Water as an Electron Donor
9:35 - 10:0:	5 Andrew Bocarsly (Princeton University) Electrocatalytic Formation of Useful Organics and Fuels from CO <sub>2</sub> Using Binary Alloys
10:05 - 10:3	35 Maria Chan (Argonne National Laboratory) Modeling and Characterization of Cu2O Surfaces

10:35 – 10:45 Questions and Break

- 10:45 11:15 Yimin Wu (University of Waterloo) Semiconductor Assisted Photocatalysis for CO<sub>2</sub> Reduction to Liquid Solar Fuels
- 11:15 11:45 Karen Mulfort (Argonne National Laboratory) Outer Coordination Sphere Effects on CO<sub>2</sub> Capture and Conversion by Molecular Co(II) Complexes
- 11:45 12:15 Nikolai Gaponik (Technische Universitaet Dresden) Nanocrystal Aerogels as Emerging Self-supporting Catalysts for CO<sub>2</sub> Photoconversion
- 12:15 12:30 Questions and Closing Remarks