

# Chemistry in the U.S. and China: Current & Future States of Shared Scientific Interests and Opportunities for Cooperation

Sunday, August 21, 2016, 1 :20 – 4:30pm and Monday, August 22, 2016, 8:30am to 12:00pm  
Philadelphia Marriott Downtown Hotel – Liberty Salon C

## Session 1: PRES001a (Symposium Co-Chair Marinda Li Wu, 2013 ACS President)

Sunday, August 21, 2016, 1 :20 pm – 4:30 p m

- 1:20pm Introductory Remarks | Donna Nelson, 2016 President, American Chemical Society
- 1:30pm Green Chemistry: The way to sustainable development | Buxing Han, Institute of Chemistry, Chinese Academy of Sciences
- 2:00pm Mass and energy manipulation using carbon nanotechnology | Michael Strano, Chemical Engineering, Massachusetts Institute of Technology
- 2:30pm Atom-economy transformation of CO<sub>2</sub>: A molecular solution to a global challenge | Kuiling Ding, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences
- 3:00pm Translational chemical biology | Carolyn R. Bertozzi, Chemistry, Stanford University
- 3:30pm Protein design and its application in CO<sub>2</sub> Utilization | Jiangyun Wang, Institute of Biophysics, Chinese Academy of Sciences
- 4:00pm CO<sub>2</sub> + H<sub>2</sub>O + sunlight → chemical fuels + O<sub>2</sub> | Peidong Yang, Chemistry, University of California Berkeley

## Session 2: PRES001b (Symposium Co-Chair Ann Nalley, 2006 ACS President)

Monday, August 22, 2016, 8:30 am – 12:00 p m

- 8:30am Artificial photosynthesis for solar energy conversion | Li-Zhu Wu, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences
- 9:00am Us vs. Them: Carbohydrates as microbial detectors | Laura Kiessling, Chemistry, University of Wisconsin-Madison
- 9:30am Novel approaches for separation and conversion of biomass based on ionic liquids | Suojiang Zhang Institute of Process Engineering, Chinese Academy of Sciences
- 10:00am Natural productome project | Martin D. Burke, University of Illinois Urbana Champaign
- 10:30am Direct conversion of C1 molecules to high value chemicals | Xinhe Bao, Dalian Institute of Physical Sciences, Chinese Academy of Sciences
- 11:00am Bridges between theory and experiment across the periodic table | Angela K. Wilson, Chemistry, Michigan State University
- 11:30am Creating a new industry focused on 3D manufacturing | Joseph M. DeSimone, Chemistry, University of North Carolina at Chapel Hill, Department of Biomolecular Engineering, North Carolina State University



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