

Solar Fuels Generation: PV and Electrolysis Workshop

*Sponsored by Institute of Energy Conversion (IEC) and
University of Delaware Energy Institute (UDEI)*

Monday, March 7, 2016

TIME	EVENT/SPEAKER	PRESENTATION TITLE
8:00 a.m.	Continental Breakfast - Lobby	
8:30 a.m.	Welcome Remarks by Charles Riordan - Room 125 Deputy Provost, Research & Scholarship	
Session I	Overview and Systems - Room 125 <i>Session Chair: Dan Esposito</i>	
8:40 a.m.	Eric Miller Dept. of Energy, EERE	Technical & Economic Challenges in Solar Water Splitting Pathways
9:10 a.m.	Frances Houle JCAP, Lawrence Berkeley National Lab	Solar Fuels Systems Research in the Joint Center for Artificial Photosynthesis
9:40 a.m.	Cassidy Houchins Strategic Analysis, Inc.	Techno-economic Analysis of Solar Hydrogen Production Systems
10:05 a.m.	Kevin Harrison NREL	Renewable Electrolysis – Systems Integration and Optimization
10:30 a.m.	Poster Session/Break - Lobby	
Session II	Solar Cells - Room 125 <i>Session Chair: Bob Birkmire</i>	
10:55 a.m.	Steve Hegedus University of Delaware	Increasing Power and Energy Generation from PV Cells, Modules and Systems
11:15 a.m.	Jim Rand PV Consultant	The Growing Impact of Performance and Reliability in PV Systems
11:35 p.m.	Cory Budischak DelTech Community College	The Grid's Great Balancing Act
12:00 p.m.	Lunch & Keynote Address - Room 120	
	John Byrne - The Paris Accord and Its Implications for Solar Energy Development Director, Center for Energy & Environmental Policy, University of Delaware	
Session III	Electrolyzers for Hydrogen & CO₂ Reduction - Room 125 <i>Session Chair: Kevin Dobson</i>	
1:15 p.m.	Benjamin Jurcik Air Liquide	Air Liquide's Perspective and Developments for Solar Energy
1:40 p.m.	Jeff Greeley Purdue University	First Principles Studies of Structural and Catalytic Properties of Multifunctional Metal/(hydroxy)oxide Interfaces
2:05 p.m.	Yushan Yan University of Delaware	Electrocatalysis for Affordable Electrolyzers
2:30 p.m.	Dan Esposito Columbia University	Hydrogen Production from Water Electrolysis: No Membranes Required
2:55 p.m.	Break - Lobby	
3:10 p.m.	Feng Jiao University of Delaware	Electrochemical Conversion of Carbon Dioxide
3:40 p.m.	Joel Rosenthal University of Delaware	Sustainable Production of Liquid Fuels Using Inexpensive Electrocatalyst Architectures
4:10 p.m.	Kathy Ayers Proton Onsite	Pathways to Renewable Hydrogen: The Need to Leverage Existing Technology
4:40 p.m.	Closing Remarks by Raul Lobo	