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UNIVERSITY OF DELAWARE
ENERGY INSTITUTE

QESST

Solar Workshop: Terawatt Challenge!!?

Sponsored by UD Energy Institute

February 28, 2014

Clayton Hall Conference Center - University of Delaware

Time	Title of Presentation	Speaker
8:30 – 8:45 am	***Registration/Breakfast -*** *Lobby*	
8:45 – 9:00 am	***UDEI Welcome and Opening Remarks Rm. 125***	**Mike Klein** *Director, UD Energy Institute* **Bob Opila** *Professor, Materials Science* **Tunde Ogunnaike** *Dean, College of Engineering*
	Session Chair: **Mike Klein**	
9:00 – 9:30 am	QESST Overview	**Christiana Honsberg** *Arizona State University*
9:30 – 10:00 am	Sustainability	**John Byrne** *University of Delaware* *Center for Environmental Energy & Policy*
10:00–10:30 am	DOE SunShot Initiatives	**Susan Huang** *Department of Energy*
10:30-11:00 am	***Poster Session/Refreshment Break -*** *Lobby*	
	Session Chair: **Mike Mackay**	
11:00–11:30 am	Organic Photovoltaics	**Philip Schulz** *Princeton University*
11:30–12:00 pm	Quantum Dots in Photovoltaics	**Chris Murray** *University of Pennsylvania/PennEnergy*
12:00–1:00 pm	***Lunch – Rm. 120*** Poster Session	
	Session Chair: J.J. Hu	
1:00 – 1:30 pm	Solution Based Routes to CZTSSe Thin-Films for Photovoltaics	**Jonathan V. Caspar** *DuPont Central Research & Development*
1:30 – 2:00 pm	Cu(In,Ga)Se2-based Thin Film Photovoltaics: Challenges and Opportunities	**William Shafarman** *University of Delaware* *Institute of Energy Conversion*
2:00 – 2:30 pm	What Can We Learn About Defects from X-Ray Microscopy?	**Mariana Bertoni** *Arizona State University*
2:30 - 3:00 pm	***Poster Session/Refreshment Break -*** *Lobby*	
	Session Chair: **Steve Hegedus**	
3:00 – 3:30 pm	Material Roadmap for a High Efficiency Silicon Based Solar Cells	**Henri Chevrel** *Air Liquide*
3:30 – 4:00 pm	Recent Advances in III-V on Si Integration for High-Efficiency, Low Cost Multi-junction Cells	**Minjoo Larry Lee** *Yale University*
4:00 – 4:30 pm	Amorphous Silicon/Crystalline Silicon Heterojunctions: The Future of High-Efficiency Silicon Solar Cells	**Zak Holman** *Arizona State University*
4:30 – 5:00 pm	Upconversion and Related Approaches as a Viable Route to Increased Efficiency Solar Energy Conversion	**Joshua Zide** *University of Delaware*