

AGENDA

ASU|UA Student Conference on Renewable Energy Science
ASU Memorial Union, Turquoise Room, Tempe Campus
April 19-20, 2012

Thursday, April 19

CONFERENCE REGISTRATION	11:30 – 12:00	ASU Memorial Union, Turquoise Room #220
CONFERENCE OPENS: WORKING LUNCH AND INTRODUCTIONS	12:00 – 1:00	<p>Dr. Steve Goodnick, Professor and Deputy Director, ASU LightWorks</p> <p>Dr. Neal Armstrong, Professor and Director of the Center for Interface Science: Solar Electric Materials, UA</p> <p>Dr. Gary Dirks, Director, ASU LightWorks</p>
STUDENT TALKS SESSION #1	1:00 – 2:40	<p>(15 min talks & 5 min Q & A)</p> <p>Session Chairs:</p> <p>Prof. Wim Vermaas, ASU</p> <p>Prof. S. Scott Saavedra, UA</p>
1:00-1:20	Alexander Zevin	<p><i>"Microbial Ecology of a Photobioreactor"</i></p> <p>Click here to access slides.</p>
1:20-1:40	Ming Ren	<p><i>"Cultivation Strategies for Microalgae to Produce Biofuels"</i></p> <p>Click here to access slides.</p>
1:40-2:00	Cesar Raul Gonzalez	<p><i>"The cyanobacterium Synechocystis as a biological platform for production of petroleum substitutes using sunlight and CO₂"</i></p> <p>Click here to access slides.</p>
2:00-2:20	Edgardo Hernandez	<p><i>"Tailor-made NIR absorbing phthalocyanines for organic photovoltaics and interface modification"</i></p>
2:20-2:40	Justin Flory	<p><i>"Nucleic Acid (DNA-PNA) Driven Peptide Assembly for building an Artificial Oxygen Evolving Complex"</i></p>

BREAK	2:40 – 3:00	
STUDENT TALKS SESSION #2	3:00 – 4:40	(15 min talks & 5 min Q & A) Session Chairs: Prof. Devens Gust, ASU Prof. Dominic McGrath, UA
3:00-3:20	Brian Zacher	<i>“Consequences of electrical contact formation in organic solar cells”</i> Click here to access slides.
3:20-3:40	Antaeres Antoniuk- Pablant	<i>“Coupling Artificial Reaction Centers to Catalysts for Solar Fuel Production”</i>
3:40-4:00	Lingzi Sang	<i>“Molecular orientation study of phosphonic acids on transparent conductive oxide surfaces”</i> Click here to access slides.
4:00-4:20	Derek Caselli	<i>“Spectrum-Splitting Photovoltaic Cells using Spatially Composition-Graded Alloy Nanowires”</i>
4:20-4:40	Anne Simon	<i>“Waveguide spectroscopies to characterize organic thin film/transparent conducting oxide interfaces”</i> Click here to access slides.
BREAK	4:40 – 5:00	
POSTER SESSION #1 AND INDUSTRY MIXER Heavy Hors d’oeuvres	5:00 – 7:00	20 -25 poster presenters

Friday, April 20

BREAKFAST	7:00 – 8:00	Continental Breakfast + fruit, ASU Memorial Union, Turquoise Room #220
STUDENT TALKS SESSION #3	8:00 – 10:00	(15 min talks & 5 min Q & A) Session Chairs: Prof. Christiana Honsberg, ASU Prof. Oliver Monti, UA
8:00-8:20	Shelby Vorndran	<i>"PSL Research Overview: Holographic Devices, Irradiance Measurement, and Energy Yield Simulation for PV"</i>
8:20-8:40	Jingjing Li	<i>"Characterization of multijunction solar cells"</i> Click here to access slides.
8:40-9:00	Feng Jiang	<i>"Fabrication of a Low-Cost CuInS₂ Solar Cell by Ink Processing"</i> Click here to access slides.
9:00-9:20	James LeBeau	<i>"QESST photovoltaic pilot line"</i> Click here to access slides.
9:20-9:40	Vijai Jayadevan	<i>"Forecasting Solar Power Intermittency using Ground-Based Cloud Imaging"</i> Click here to access slides.
9:40-10:00	Vivek Sharma	<i>"Performance study of 10 MW grid connected photovoltaic systems installed at Arizona State University campus"</i> Click here to access slides.
BREAK	10:00 – 10:15	
POSTER SESSION #2	10:15 – 12:00	20 -25 poster presenters
LUNCH	12:00 – 1:00	Buffet Lunch
INVITED TALK	1:00 – 1:35	20-25 min talk & 10-15 min Q & A
Tom Alston, Congresswoman Gabrielle Giffords' former Solar Outreach and Policy Coordinator		"An overview of the Policies and Elections that will affect solar development in Arizona"

STUDENT TALKS SESSION #4	1:35 – 2:35	(10 min talks & 5 min Q & A) Session Chairs: Prof. Clark Miller, ASU Ardeth Barnhart, UA
1:35-1:50	Chrystie Burr	<i>"What's Driving the Growth of California Solar Market? Analysis of CEC's Emerging Renewable Program and CPUC's Self-Generation Incentive Program from 2001-2006"</i>
1:50-2:05	Mario Samano	<i>"Gasoline Taxes and Fuel Economy: A Preference Heterogeneity Approach"</i> Click here to access slides.
2:05-2:20	Tim Kostyk	<i>"Smart grid technology: Micro grids as enablers for Renewable Energy"</i> Click here to access slides.
2:20-2:35	Sharlissa Moore	<i>"Solar Siting and Social Movements: Would John Muir be rolling in his grave?"</i>
BREAK	2:35 – 2:45	
STUDENT PANEL WITH MODERATOR	2:45 – 4:00	Eddie Burgess, ASU Steve Limpert, ASU Jason O'Leary, ASU Chrystie Burr, UA Mario Samano, UA Anne Simon, UA Moderator: Amanda Ormond
CLOSING REMARKS, AWARDS	4:00 – 4:30	Neal Armstrong, Steve Goodnick
CONFERENCE CLOSES	4:30	

The green sections are open to the press and public, space permitting