SusTech 2015 Program Schedule

	Thursday July 30	
7:30am	Hotel Shuttle Service 7:30-9:30am	
8:00am	Starbucks opens	
8:00am	QuickZone Convenience Store opens	
8:00am -	Registration	
5:00pm	negistration	
9:00am -	Workshop: Air Pollution [Room 305]	
2:00pm	(Includes Lunch 12:00-1:00pm)	
4:00pm -	Undergraduate Poster Contest [Atrium – second floor]	
6:00pm		
	Opening Plenary [Ballroom A]	
	Welcome Remarks	
C.00:	Bryce Bird, Utah Department of Environmental Quality	
6:00pm	Ryan Thomas, Assoc Provost and Dean of Undergraduate Studies Weber State University	
	Jacob Cain, Energy and Sustainability Manager, Weber State University	
	Juliana Boerio-Goates representing the DIOSLC	
7:00pm	Happy Hour and Art Display Tour (Adult only) [Garden]	
7:00pm	Minor's Party	
	Hotel Shuttle Service 3:30pm – 9:30pm	

	Friday July 31		
7:30am	Hotel Shuttle Service 7:30am – 9:30am		
8:00am	Starbucks opens		
8:00am	QuickZone Convenience Store open		
7:30am - 8:30am	Breakfast [Ballroom A]		
8:00am - 5:00pm	Registration [Ballroom A foyer, third floor]		
	Room 305	Room 316	Room 321
8:20am - 10:00am	AE Track paper session	SE Track paper session	EE Track paper session
10:00am - 10:20am	Break / Snack		
10:20am - 12:00pm	SI Track paper session	SG Track paper session	AG Track paper session
12:30pm	Lunch [Ballroom A]		
1:00pm	Keynote Speaker "Ogden: Junction City" Will Bagley, historian and author		

	Room 305	Room 316	Room 321
2:00pm -	AE Track invited session	SG Track invited session	AG Track invited session
3:30pm	AL Hack invited session	30 Track invited session	Ad Track IIIVited 3e33i0ii
3:30pm -	Desch / Creek		
4:00pm	Break / Snack		
4:00pm -	AE/SE Track invited session	TE/SI Track invited session	AG Track invited session
5:30pm	AE/SE Track invited session	TE/SI Track invited session	AG Track invited session
6:00pm	Dinner [Skysuites]		
	Keynote Speaker		
7:00pm	"Designing Sustainable Packaging for Implantable Electronic Devices"		
	Michelle Poliskie, Director of Engineering and Electronics, NuSil Technology		
	Hotel Shuttle Service 5:00pm – 9:00pm		

	Saturday August 1		
7:30am	Hotel Shuttle Service 7:30am – 9:30am		
7:30am - 8:30am	Starbucks opens		
7:30am - 8:30am	QuickZone Convenience Store open		
7:30am - 8:30am	Breakfast [Ballroom A]		
8:00am - 12:00pm	Registration [Ballroom A foyer, third floor]		
	Room 305	Room 316	Room 321
8:20am - 10:00am	AE Track paper session	SG Track paper session	SE Track paper session
10:00am - 10:20am	Break / Snack		
10:20am - 12:00pm	AE Track paper session	TE Track paper session	EE Track paper session
12:30pm		Lunch [Ballroom A]	
1:00pm	Keynote Speaker "Sustainable Steam in the Twenty First Century" Wolfgang A. Fengler, Coalition for Sustainable Rail		
2:00pm - 3:00pm	Panel Discussion / Closing		
3:00pm	Snack / Hotel Shuttle Service 1:00pm – 4:00pm		
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4:00pm	SUSTECH Organization Meeting [Senate Chambers]		

Friday July 31 - SusTech Paper Sessions

	Room 305	Room 316	Room 321
8:20am - 10:00am	AE Track paper session I	SE Track paper session	EE Track paper session
8:20am	Portable Solar Power: Mobile Elemental Power Plant II	Earth Abundant and Nontoxic Absorber Material for Low Cost, Thin Film Solar Cells	Demand Response Potential in Aggregated Residential Houses Using GridLAB-D
8:45am	Analysis of Various Energy Storage Systems for Variable Speed Wind Turbines	New EPEAT® Standards for Computer Servers	Influence of Weather Boundary Conditions on Building Energy Modeling
9:10am	Thermal Power Satellite Design and Mass Calculation	A Prognostics and Health Management Method for Instrumentation System Remanufacturing	Experimental Exergy Analysis of the Solar Thermal System in the Off- Grid Zero Emissions Building
9:34am	Increasing Power Capture From Wave Energy Conversion Systems Using Model Predictive Control	Sustainability in Printed Circuit Board Manufacturing, Decreasing Waste Using Additive Technology	A Data-Value-Driven Adaptation Framework for Energy Efficiency for Data Intensive Applications in Clouds
10:00am - 10:20am	Break / Snack		
10:20am - 12:00pm	SI Track paper session	SG Track paper session I	AG Track paper session
10:20am	The Conceptual Models of Energy Behavior and Energy Behavioral Change	Overvoltage Mitigation Using Coordinated Control of Demand Response and Grid- tied Photovoltaics	CFD Study of Compost Waste Heat for Use in a Hybrid Solar Tower
10:45am	A Check and Alert Service Based on IoT	Analysis and Compensation of Dead-time Effect in Direct Matrix Converter	Development of Unmanned Aerial Systems for Use in Precision Agriculture: The AggieAir Experience
11:10am	The TripleRM Sustainability Model: Strategic Risk, Resilience and Resource Management of Cities	A Comprehensive Analysis of Voltage Stability Indices in the Presence of Distributed Generation	<open></open>
11:35am	<open></open>	Time Scale Analysis and Synthesis for Electrical Transmission Lines in a Smart Grid	<open></open>

Friday, July 31 - Invited Speaker Schedule

	Room 305	Room 316	Room 321	
1:30pm -	AE Track invited	SG Track invited	AG Track invited	
3:00pm	"Cost-optimal Pathways to 75% Fuel Reduction in Remote Alaskan Villages" Travis Simpkins, NREL	"Enabling smart grid intelligence: A context aware energy resource management approach"	"Developing a Solar-Powered, On-Farm Fertilizer Production System using Cyanobacteria"	
1:30pm	Travis Simpanis, Will	Zita Vale, Polytechnic Institute of Porto (Portugal)	Jessica .G. Davis, Colorado State University	
	"Beyond Silicon: Alternative Photovoltaic Technologies" Kristin Kiriluk Rabosky, Weber	"Flexibility and resilience in future integrated low carbon energy systems"	"Progress in Evaluating and Planning for Sustainable Groundwater-Based Development"	
2:00pm	State University	Mathaios Panteli, University of Manchester, Manchester, UK	Richard C. Peralta, Bassel Timani	
-	"Advances in Wind Energy and the Role of Multidisciplinary Optimization"	"The impact of plug-in electric vehicle charge rates on peak electric demand and on distribution system loading"	"The Utah IPM Program: Delivery of Real-Time Pest Activity to Producers"	
2:30pm	Andrew Ning, Brigham Young University	Don Scoffield, Idaho National Laboratory	Marion Murray, Utah State University	
3:00pm - 3:30pm		Break / Snack		
3:30pm - 5:00pm	SE Track invited	TE/SI Track invited	AG Track invited	
·	"A Moore's Law for Mobile Power"	"Quantifying Transit's Role in Improving Air Quality" Dan Locke, Utah Transit	"Quantifying the Chemistry, Transport, and Fate of Pesticides in the Environment: Soil-Air-Water"	
3:30pm	Tom Coughlin, Coughlin Associates	Authority	Rong Li, Utah State University	
	<open></open>	"An International Collaboratory for the Advancement of Appropriate Technology Solutions"	"A Combined Dynamical and Statistical Technique for Producing Regional Climate Predictions"	
4:00pm	<open></open>	Ramana Reddy, WVU "Old, New, or In-between: The Indigenous Dilemma" Stephen Clark, Weber State	Rong Li, Utah State University "Irrigation Scheduling Based on Plant and Climate Measurements"	
4:30pm		University	Niel Allen, Utah State University	

Saturday August 1 - SusTech Paper Sessions

	Room 305	Room 316	Room 321
8:20am - 10:00am	AE Track paper session II	SG Track paper session II	SE Track paper session
8:20am	Design of Housing and Mesh Spacer Supports for Salinity Gradient Hydroelectric Power Generation Using Pressure Retarded Osmosis	Reduced Order WECC Modeling for Frequency Response and Energy Storage Integration	E-waste Dismantling: Profitable At a Cost of Occupational Hazard?
8:45am	Creating a Dynamometer for Experimental Validation of Power Take-Off Forces on a Wave Energy Converter	Status and Challenges of Residential and Industrial Non-Intrusive Load Monitoring	Circuit Design to Improve Security of Telecommunication Devices
9:10am	Wind Farm Layout Optimization Using Sound Pressure Level Constraints	Rapid Grid State Estimation Using Singular Value Decomposition Similarity Matching	<open></open>
9:34am	Reliability Assessment for Smart Grid and Future Power Distribution Systems	<open></open>	<open></open>
10:00am - 10:20am		Break / Snack	
10:20am - 12:00pm	AE Track paper session III	TE Track paper session	EE Track paper session II
10:20am	Effect of Airfoil and Composite Layer Thicknesses on an Aerostructural Blade Optimization for Wind Turbines	An Approach to Engage EVs for Frequency Regulation: Aggregator Perspective	Geothermal Power Plant System Performance Prediction Using Artificial Neural Networks
10:45am	Comparison of Two Wake Models for Use in Gradient- based Wind Farm Layout Optimization	Solar Energy for Electric Vehicles	Energy Consumption Modeling and Analyses in Automotive Manufacturing Final Assembly Process
11:10am	Stationary Compression Ignition Internal Combustion Engines (CI- ICE) CO2 Capturing Via Microalgae Culture Using a Mini- Photobioreactor	Data-mining Approach for Battery Materials	<open></open>
11:35am	<open></open>	Feasibility of Wireless Power Transfer for Electrification of Transportation: Techno- economics and Life Cycle Assessment	<open></open>