

## 1st CRB-SEED Symposium Paper Presentation Schedule

Thursday, Mar. 14

Session T1: Renewable Energy	11:00 AM - 12:00 PM SEB-1242	Co-chairs: Dr. Mohammad R. Narimani, Dr. Rohollah (Roham) Moghadam	
	Abstract Title		Presenter/Institute
	A3: Salt-Rejecting Continuous Passive Solar Thermal Desalination via Convective Flow and Thin-Film Condensation		Patrick Babb, UCSB
	A8: Adsorption of Carbon Dioxide through Modified Biochar from the Great Basin Desert Ecosystem		Emma Letourneau, UNLV
	A34: Parallel Computation of AC Optimal Power Flow		Alonso Deigo Cardenas, CSUB
	A42: Imaging Charge Transfer across a Semiconductor Heterojunction with Ultrafast Electron Microscopy		Basamat Shaheen, UCSB
	A43: Contributions of Direct Land Use Change Impacts to the Carbon Footprint of Existing Concentrated Solar Power Facilities in the United States		Santiago Cisneros Castillo, UNLV
Session T2: Sustainable Environment	11:00 AM - 12:00 PM SEB-1243	Co-chairs: Dr. Francesca Hopkins, Dr. Ehsan Reihani	
	Abstract Title		Presenter/Institute
	A6: Wildland-Urban Interface Fire Organic Pollutant Formation and Microbial Response		Cameron Daley, UCI
	A36: Unveiling the Seasonality and Dynamics of Hydrogen Sulfide Outgassing and Gypsum Precipitation Events in the Salton Sea		Diego Centeno, Brown

	A46: Direct land use change impacts of natural gas well pads in New Mexico		Amir Sharafi, UNLV
	A47: Human-in-the-Loop Consensus Leader Follower Demand Response and Customer Comfort Management for Grid-Interactive Smart Buildings		Kasra Mazarei Saadabadi, UCR
	A33: Sustainable Pathways: Connecting Affordable Housing with Inclusive Infrastructure		Carolina Carlos, CSUSB
<b>Session T3: Sustainable Environment</b>	<b>1:00 - 2:00 PM SEB-1242</b>	<b>Co-chairs: Dr. Yangying Zhu, Dr. Kimberly Collins</b>	
	<b>Abstract Title</b>		<b>Presenter/Institute</b>
	A2: Submerged Cohesive Granular Collapse		Alexandre Leonelli, UCSB
	A7: Wildfire Dynamics and Hydrological Impacts: An Analysis of the Bootleg Fire and Comparative Insights from the Colorado River Basin		Abdullah O. Yusufzai, UNLV
	A9: Should we allow uranium mining around the Grand Canyon National Park?		Susan Lederer, UNLV
	A31: Salton Sea Shrinkage and Air Quality Vulnerability in Inland Southern California		Andrea Delgado, UCI
	A41: Optical Segmentation of Terrestrial Landscapes for Low-Power UAV Machine Vision		Altai Perry, UCR
<b>Session T4: Climate Change &amp; Aridification</b>	<b>1:00 - 2:00 PM SEB-1243</b>	<b>Co-chairs: Dr. Kathleen Johnson, Dr. Hannes Bauser</b>	
	<b>Abstract Title</b>		<b>Presenter/Institute</b>
	A4: Landfills with Methane Emissions Negatively Affecting Their Local Communities		Gerardo R. Miramontes, UCR
	A21: Transfer Learning Enhanced Deep Learning Model for Wildfire Flame and Smoke Detection		Giovanny Vazquez, UNLV

	A39: Understanding dairy farms processes and layouts		Diana Rodriguez, UCR
	A45: Atmospheric Water Capture and Purification via Electrochemical Distillation.		Angelica Gonzalez Grado, UNLV
	A32: Enhanced Collection of Traffic Crash Data: A Speech Recognition-based Approach		Cristian Arteaga, UNLV
<b>Session T5: Water Resource Management</b>	<b>2:05 - 3:05 PM SEB-1242</b>	<b>Co-chairs: Dr. Marie-Odile Fortier, Dr. Hannes Bauser</b>	
	<b>Abstract Title</b>		<b>Presenter/Institute</b>
	A14: Investigating the Potential of Surfactant to Generate Disinfection By-Products after Ozonation and Subsequent Chlorination		GABSON BAGUMA, UNLV
	A25: The impact of cenotes on water resources in the Yucatán Peninsula		Vanessa Vazquez, UCI
	A30: Estimating Uncertainties in Tree-ring Reconstructions of Natural Flow of the Colorado River		Kalhara Perera, UNLV
	A35: Low Heat, Light-actuated Desalination Using Aluminum Nitride		Navindra D. Singh, UCR
	A49: Sustainable Water Sourcing: Solar Driven Potable Water Extraction from Atmospheric Moisture		Areianna Lewis, UNLV
<b>Session T6: Intelligent Transportation System</b>	<b>2:05 - 3:05 PM SEB-1243</b>	<b>Co-chairs: Dr. Alfredo Martinez-Morales, Dr. Jee woong Park,</b>	
	<b>Abstract Title</b>		<b>Presenter/Institute</b>
	A5: How Greenhouse Gas Regulations and Various Vehicle Technologies Impact In-use CO2 Emissions in the Heavy-Duty Transportation Sector		Elizabeth DeFrance, UCR
	A17: Microtransit in the New Era of Intelligent Transit Systems: Case Studies and Best Practices		Adrianna L. Fragozo-Alvernia, UNM

	A26: UAV-based Railroad Inspection System for Intelligent Urban Development		Lihao Qiu, UNLV
	A37: Driving Down Emissions & Costs: Unveiling the Power of Transportation-Based Microgrids		Luis Enriquez-Contreras, UCR
	A16 Moving Towards the Electrification of Medium- and Heavy-Duty Vehicles in the Inland Empire		Bhavik Pankaj Khatri, CSUSB

**Friday, Mar. 15**

<b>Session F1: Intelligent Transportation System</b>	<b>10:40 - 11:30 AM SEB-1243</b>	<b>Co-chairs: Dr. Lisa Losada-Rojas, Dr. Alfredo Martinez-Morales</b>	
	<b>Abstract Title</b>		<b>Presenter/Institute</b>
	A15 Navigating San Bernardino County: Deciphering Vehicle Traffic Patterns and Environmental Impacts		Sai Kalyan Ayyagari, CSUSB
	A50: A Preliminary Analysis of the Electric Vehicles Charging Infrastructure and Future Energy Demand in Nevada		Zehra Zehra Nur Gunindi, UNLV
	A27: Exploring the Nexus between LCLUC, Socio-Economic Factors, and Water for a Vulnerable Arid US-Mexico Transboundary Region		Raquel Neri Barranco, ASU
	A24: Disentangling the Drivers of Wetland Potential under Climate Change in United States		Kshitij Dahal, ASU