



# ICEPAG 2019 Microgrid Global Summit

The Pathway to Electrification: The Smart Grid | Electricity | Mobility

## Program Day 1: Tuesday, March 26, 2019

9:00 – 10:00 am

### FIRST DAY OPENING

- **Introduction to ICEPAG 2019**  
Scott Samuelsen  
UCI Advanced Power and Energy Program (APEP)
- **Keynote: Microgrid State of the World**  
Lori Schell  
Empowered Energy

10:00 – 10:30 am

### BREAK

10:30 – 12:00 pm

### MICROGRIDS: Testbeds

- **Port Hueneme Microgrid Test Bed**  
Daniel Scott Cohee  
PDE Total Energy Solutions
- **UCI Microgrid TestBed**  
Brendan Shaffer  
APEP
- **Stone Edge Farm Microgrid Test Bed**  
Ryan Stoltenberg, Jorge Martinez  
Wooster Engineering

12:00 – 1:00 pm

### LUNCH

1:00 – 2:30 pm

### MICROGRIDS: Emerging Distributed Energy Resources

- **Flow Batteries**  
Brian Tarroja  
APEP
- **Plug-In and Hydrogen Light-Duty Vehicles**  
Blake Lane  
APEP
- **Plug-In and Hydrogen Electric Buses**  
Analy Munoz  
APEP

2:30 – 3:00 pm

### BREAK

3:00 – 5:00 pm

### MICROGRID: Powering Microgrids

- **Clean, Always On Microgrids: Concept to Reality**  
Preeti Pande  
Bloom Energy
- **Clean Power for Microgrids; Balancing Reliability, Environmental and Economic Factors**  
Frank Wolak  
FuelCell Energy
- **Advances and Insights on Solid Oxide Fuel Cells**  
Steven Ross  
U.S. Department of Energy, Advanced Energy Systems, Office of Fossil Fuels
- **Research and Development of Liquid Sb Anode Direct Carbon Fuel Cell**  
Tianyu Cao  
Tsinghua University

5:00 pm

### DAY 1 RECEPTION & TOUR OPTIONS



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## Program Day 2: Wednesday, March 27, 2019

9:00 – 10:00 am

### SECOND DAY OPENING

- **ICEPAG 2019 Perspective**  
Scott Samuelsen  
UCI Advanced Power and Energy Program (APEP)
- **Keynote: The Role of Microgrids in Grid Modernization**  
Percy Haralson  
Southern California Edison

10:00 – 10:30 am

### BREAK

10:30 – 12:00 pm

### MICROGRIDS: Resilient Communities

- **Rural and Urban Energy Resilience - A North-South Collaboration Opportunity**  
George M. Roe  
Alaska Center for Energy and Power  
University of Alaska Fairbanks
- **Resilient Distribution Systems**  
Chen-Ching Liu  
Virginia Tech
- **Resilient and Secure Microgrid communications Based on Software Defined Networking**  
Paul Myer  
Veracity Industrial Networks

12:00 – 1:00 pm

### LUNCH

1:00 – 2:30 pm

### MICROGRIDS: Control

- **Local Level Grid Controls**  
Jim Cushman, Fred Huff, Rick Kephart  
Emerson Automation Solution – Water and Power
- **Testing Microgrid Controllers Based on Multi Agent Systems**  
Syed Qaseem Ali, Jean-Nicolas Paquin, Amine Yamane  
OPAL-RT Technologies
- **Effective Microgrid Control Solutions**  
Peter Dai  
Schweitzer Engineering Laboratories, Inc.

2:30 – 3:00 pm

### BREAK

3:00 – 5:00 pm

### MICROGRIDS: Design and Operation

- **The RU – LESS Energy Modeling and Optimization Platform**  
Mohsen A Jafari  
Rutgers University
- **Algorithms for Resilience and Optimal Placement, Sizing and Operation of Distributed Energy Sources in Microgrid**  
Harsha Nagarajan  
Los Alamos National Laboratory
- **Integrated Modeling Tool for Electricity Rate Design in Systems with High Penetration of DERS and Microgrids**  
Nicholas Xavier DeForest, Miguel Heleno  
Lawrence Berkeley National Laboratory
- **Residential Fuel Cell Nanogrid**  
Michael Lee  
Southern California Gas

5:00 pm

### DAY 2 RECEPTION & TOUR OPTIONS



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## Program Day 3: Thursday, March 28, 2019

9:00 – 10:00 am

### MICROGRIDS: Emerging Applications and Impacts (I/II)

- **The Role of Microgrids in Environmental Quality**  
Michael Mac Kinnon  
UCI Advanced Power and Energy (APEP)
- **Maritime Microgrids: Land-Based Microgrids Technologies Applied to Electric Ships**  
Josep M. Guerrero  
Aalborg University

10:00 – 10:30 am

### BREAK

10:30 – 12:00 pm

### MICROGRIDS: Emerging Applications and Impacts (II/II)

- **Operating Utility Substation Circuits as Microgrids**  
Jennifer Lee  
APEP
- **Smart City Solutions, The Microgrid Business Case Missing Component**  
Mehdi Ganji  
Willdan Group
- **Autonomous Vehicle Microgrids**  
Van Wifat  
APEP

12:00 pm

### CLOSURE