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### **Arrival and Networking**

12:30 PM to 1:00 PM

### **Welcome and Introductions**

1:00 to 1:15 PM

Opening remarks by Jay Sayre – The Ohio State University, Bill Whittenberger and Scott Swartz – OFCHC

### **Presentations**

#### ***Energy Security, Efficiency, and Sustainability: An Emerging Paradigm and Roles of Solid Oxide Cells***

1:15 to 1:45 PM

Xiao-Dong Zhou, Ph.D., University of Connecticut

Professor, Director, Center for Clean Energy Engineering; Sustainability Chair, Green Bank Professor

#### ***REEACH Program Summary***

1:45 to 2:10 PM

James Seaba, Ph.D., Program Director, Advanced Research Projects Agency-Energy, (ARPA-E)

#### ***Chromium Poisoning of SOC Oxygen Electrode and Its Mitigation Strategies***

2:10 to 2:35 PM

Xingbo Liu, Ph.D., West Virginia University

Associate Dean for Research, Statler Chair of Engineering, Professor-Mechanical, Materials, Aerospace

#### ***High-temperature electrocatalytic NH<sub>3</sub> production from N<sub>2</sub> and H<sub>2</sub>O in a Solid Oxide Electrolytic Cell***

2:35 to 3:00 PM

Umit Ozkan, Ph.D., The Ohio State University

Distinguished University Professor and Chair, Chemical and Biomolecular Engineering

### **Networking Break**

3:00 to 3:25 PM: Networking Break

### **Lightning Talks**

3:25 to 3:50 PM

James Wasas (Standard H<sub>2</sub>), Amanda Gibson (Nexceris), Prof. Shang Zhai, (OSU)

### **Presentations**

#### ***Powering Forward: The Latest in Solid Oxide Stack Technology at Nexceris***

3:50 to 4:15 PM

Alex Vaeth, Engineer III at Nexceris

#### ***Solid-oxide electrochemistry at elevated pressure***

4:15 to 4:40 PM

Neal Sullivan, Director-Colorado Fuel Cell Center, Professor of Mechanical Engineering, Colorado School of Mines

**Lightning Talks**

**4:40 to 4:55 PM**

*Aaron Goodman, (Petra Power), Ted Ohrn, (Special Power Sources), Yanhai Du, Ph.D., (Kent State University)*

**Closing Remarks**

**4:55 PM** - *Bill Whittenberger, Exec. Director and Scott Swartz, Chairman, OFCHC*