

STATIONARY FUEL CELL APPLICATIONS
THURSDAY, NOVEMBER 7 - ROOM 101-B, 4:00 PM - 5:30 PM

- **Radical Re-Envisioning of Data Centers with Row-Integrated Fuel Cells** – *Dr. Jennifer Kurtz, National Renewable Energy Laboratory*
- **Solid Oxide Fuel Cells: Power + Cooling for Data Centers** - *Alejandro Lavernia, University of California, Irvine*
- **Challenges of Long-Term Renewable Energy Storage for an Islanded Building Using Reversible Solid Oxide Cell** - *Pegah Mottaghizadeh, University of California, Irvine*
 - In this paper, a system design is proposed for intermittent renewable energy storage for an islanded building using reversible solid oxide cells. The system is composed of a solid oxide electrolyzer and two reversible solid oxide fuel cells.
- **Retrofit of a 19 MW Cogeneration Plant for Carbon Capture using Molten Carbonate Fuel Cells** - *Robert Flores, University of California, Irvine*
 - This work explores the retrofit of the University of California, Irvine cogeneration plant with molten carbonate fuel cell technology for carbon capture.
- **Understanding the Impacts of Hydrogen-Natural Gas Mixtures on Advanced Natural Gas Power Conversion Appliances** - *Alejandra Hormaza, National Fuel Cell Research Center*
 - In this study, the emissions and performance of a commercial solid oxide fuel cell system with micro-combined heat and power are analyzed at various power output levels and with various hydrogen and natural gas concentrations.