

**unifi**  
consortium

universal interoperability  
for grid-forming inverters

# Spring 2025 Seminar Series on Grid-Forming (GFM) Technologies

U.S. Department of  
**ENERGY**

 Sandia  
National  
Laboratories

 **NREL**  
Transforming ENERGY

**Who:** Organized by UNIFI & Sandia National Laboratories

**Where:** Zoom • Register [HERE](#)

**When:** Monday afternoons: 4-5 ET • 3-4 CT • 2-3 MT • 1-2 PT

**Logistics:** Diane Littau – [Diane.Littau@nrel.gov](mailto:Diane.Littau@nrel.gov)



**Feb 3 • Ben Kroposki (NREL)**

*UNIFI Grid Forming Research Overview and Update*



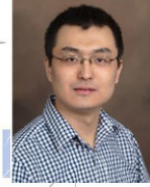
**Mar 17 • M A Awal (EPC Power Corporation)**

*Expectations vs. Reality of Deploying Utility-Scale Grid-Forming Inverter-Based Resources*



**Feb 10 • Javier Moscoso Cabrera (University of Puerto Rico at Mayagüez)**

*Puerto Rico's Role in the World's Energy Transformation*



**Mar 24 • Xiaonan Lu (Purdue University)**

*Small-Signal and Oscillation Analysis of Inverter Intensive Power Systems*



**Feb 17 • Megan Culler (Idaho National Laboratory)**

*Cyber Threat Landscape and Engineering Mitigations for Grid Forming Inverters*



**Mar 31 • Wenzong Wang (EPRI)**

*Enhancing Grid Stability and Power Quality: The Role of Grid-Forming DER in Grid-Connected Operations*



**Feb 24 • Duncan Callaway (University of California, Berkeley)**

*Investigating the Role of Load and Line Models in GFM Dynamic Simulations*



**Apr 7 • Brian Johnson (University of Texas at Austin)**

*UNIFI Reference Designs: Modeling, Simulation, and Experiments*



**Mar 3 • Ulrich Muenz (Siemens)**

*Protection of Inverter-dominated Transmission Systems*



**Apr 14 • Zhihua Qu (U Central Florida) and Tom McDermott (Meltran, Inc.)**

*Grid Forming Inverters: Analytical and Data-Driven Modeling and Controls*



**Mar 10 • Javier Hernandez Alvidrez (Sandia National Laboratories)**

*PHIL interfaces for GFMI: control, safety, and cases of study*



**Apr 21 • Mariko Shirazi (University of Alaska Fairbanks) and William R. Thomson (Alaska Village Electric Cooperative)**

*GFM Inverters in Remote Alaska Microgrids*