



BE BOLD. Shape the Future.

AGENDA

2026 Annual EUMP Advisory meeting

Date: 05/15/2026

Location: NMSU Jett Hall, room 259

and NMSU's Photovoltaic Center and Microgrid Testbed (after lunch)

print visitor's parking permit **AHEAD** of the visit: <https://tinyurl.com/4ttyvbjd>

recommended parking: <https://maps.app.goo.gl/GnBEfwAwmoM7T99B9>

complete parking map: <https://tinyurl.com/ywrnbkax>

MSTeams link <https://tinyurl.com/bdd9787u>

Time	Topic	Who
8:00 AM	Welcome and brief introductions (light breakfast will be served)	
8:15 AM	Welcome address by Dr. Mishra	Dr. Satyajayant (Jay) Misra
8:30 AM	Annual EUMP progress report	Dr. Olga Lavrova
9:00 AM	Annual EUMP progress report	Dr. Fengyu Wang
9:30 AM	Integrating Data Centers and Grid Technologies At Scale	Dr. Murali Baggu
9:55 AM	The Physics of Failure: Why Legacy Relays Cannot See Tomorrow's Grid	Dr. Steve Bukowski
10:20 AM	Modeling of Grid-forming IBRs in a distribution system	Farzaneh Eslami and Xi Lei
10:45 AM	Self Healing of Microgrids or Distribution Systems via RF signals on Neutral wire	Nathaniel Wallace
11:10 AM	Neutral Currents During Reclosing of Separately Derived Microgrids	Menaka Rathnayake
11:35 AM	Weather-driven scenarios for power system planning	Yiyang Zhang
12:00 PM	Transition to IDEAL site, Lunch, discussions (Lunch will be provided)	
12:05 PM	During lunch: "Design of a Residential Peak shaving BESS" project demo (EPE sponsored capstone project) - outside	Capstone team
1:05 PM	SST: design and high-frequency characterization	Manaswini, Ha, Steven
1:25 PM	Double pulse tester for medium voltage stress testing applications - design	Nadya Neparko
1:35 PM	4-leg SST modeling using PSCAD	Menaka Rathnayake
1:55 PM	Failure analysis and fail safe design considerations for SST and power electronics	Mihir Patel
2:15 PM	Monetization and deployment benefits of SST and similar devices	Sijo Augustine, Hamid Davoudi
2:30 PM	break	
2:45 PM	Modeling of Harmonics (including IBRs and Datacenters) in distribution system	Jose Loya and Adithya Nair
3:05 PM	Transformer lifetime extension through Demand Response measures	Adithya Nair
3:25 PM	Protection and Cybersecurity in Hybrid AC/DC Microgrids: Conventional Challenges and AI/ML Approaches	Ali Ebrahimi
3:45 PM	Smart Grids, Smarter Threats- Smarter Defense: Cybersecurity and ML for Modernized Grids	Horacio Gonzalez
4:05 PM	Preparing HIL testbed (OpalRT and SEL) for Fault and Cybersecurity Testing	Derrick, Ivan, Jose
4:20 PM	Hawk spider CAESS (transition to outside after presentation, stretch break)	Michael Pick
4:40 PM	Discussions for next year, action items from Advisory board, etc	All, Advisory Board
5:00 PM	Adjourn	