



**NSF Center for GRid-connected Advanced Power Electronics Systems (GRAPES)
Annual Meeting - May 21-22, 2024**

Meeting Location: *University of Wisconsin - Milwaukee Student Union
Wisconsin Room
2200 East Kenwood Blvd
Milwaukee, WI 53211*

Tuesday, May 21, 2024						
Chile	Taiwan	South Korea	Time Allotted	Start (CDT)	End (CDT)	
8:30 AM	8:30 PM	9:30 PM	60	7:30 AM	8:30 AM	Breakfast & Registration
9:30 AM	9:30 PM	10:30 PM	20	8:30 AM	8:50 AM	Introductions <i>Rob Cuzner, UWM Site Director, GRAPES</i> <i>Alan Mantooth, Founding Director, GRAPES</i> <i>Adel Nasiri, USC, GRAPES</i>
9:50 AM	9:50 PM	10:50 PM	40	8:50 AM	9:30 AM	Power Electronics and Grid related Programs at ARPA-E (30 min presentation, 10 min Q&A) <i>Johan Enslin, Program Director, Advanced Research Projects Agency - Energy</i>
10:30 AM	10:30 PM	11:30 PM	30	9:30 AM	10:00 AM	Group Photo, Break
11:00 AM	11:00 PM	12:00 AM	20	10:00 AM	10:20 AM	Welcome to UWM
11:20 AM	11:20 PM	12:20 AM	30	10:20 AM	10:50 AM	Overview of the Schedule and GRAPES Center Update <i>Alan Mantooth, Founding Director, GRAPES</i>
11:50 AM	11:50 PM	12:50 AM	20	10:50 AM	11:10 AM	New Member Presentation - WattEV (10 min presentation, 10 min Q&A) <i>Necmi Altin, Director of Product Development, WattEV</i>
12:10 PM	12:10 AM	1:10 AM	30	11:10 AM	11:40 AM	GRAPES Korea Updates/Modeling of Grid-Forming Inverter ESS <i>Yong-June Shin/Minhan Yoon</i>
12:40 PM	12:40 AM	1:40 AM	20	11:40 AM	12:00 PM	Eaton Plus Up Project Update (15 min presentation, 5 min Q&A) <i>Alan Mantooth</i>
1:00 PM	1:00 AM	2:00 AM	75	12:00 PM	1:15 PM	Lunch & Poster Session
2:15 PM	2:15 AM	3:15 AM	20	1:15 PM	1:35 PM	GR-23-03-IBR Transient Response Improvements to Transmission Faults <i>Rob Cuzner, UWM</i>
2:35 PM	2:35 AM	3:35 AM	20	1:35 PM	1:55 PM	GR-23-02-Compact, GaN Based, 25kW 480VZC Bidirectional Inverter <i>Adel Nasiri, USC</i>
2:55 PM	2:55 AM	3:55 AM	20	1:55 PM	2:15 PM	GR-23-01-Novel Electric Insulators and Partial Discharge Detection Techniques for Resilient Medium Voltage Distribution Systems <i>Chanyeop Park, UWM</i>
3:15 PM	3:15 AM	4:15 AM	20	2:15 PM	2:35 PM	GR-23-04-Modeling and Design of Clean-Power Inverter-Based Resources <i>Rob Cuzner, UWM</i>
3:35 PM	3:35 AM	4:35 AM	70	2:35 PM	3:45 PM	Break & Poster Session

*UWM Student Union
Wisconsin Room*

Session Chair: Roy McCann

Continuing Projects
15 min presentation
5 min Q&A



**NSF Center for GRid-connected Advanced Power Electronics Systems (GRAPES)
Annual Meeting - May 21-22, 2024**

Meeting Location: *University of Wisconsin - Milwaukee Student Union
Wisconsin Room
2200 East Kenwood Blvd
Milwaukee, WI 53211*

4:45 PM	4:45 AM	5:45 AM	15	3:45 PM	4:00 PM	GR-24-01-120kVA Three-Phase Grid-tied Inverter with Active Controlled Parallel SiC MOSFETs <i>Alan Mantooth, UA</i>	Session Chair: Adel Nasiri New Projects 10 min presentation 5 min Q&A
5:00 PM	5:00 AM	6:00 AM	15	4:00 PM	4:15 PM	GR-24-03-High Performance Half-Bridge Module Structure for 1.2-kV Ga2O3 MOSFET <i>Alan Mantooth, UA</i>	
5:15 PM	5:15 AM	6:15 AM	30	4:15 PM	4:45 PM	Day 1 Wrap Up <i>Rob Cuzner, UWM</i>	
5:45 PM	5:45 AM	6:45 AM	15	4:45 PM	5:00 PM	Walk to Dinner	
6:00 PM	6:00 AM	7:00 AM	120	5:00 PM	7:00 PM	Organized Dinner	SALA Modern Sicilian Dining 2613 East Hampshire Street Milwaukee, WI 53211 https://saladining.com/menu/

Wednesday, May 22, 2024							*GRAPES Members Only*	
Chile	Taiwan	South Korea	Time Allotted	Start (CDT)	End (CDT)			
8:30 AM	8:30 PM	9:30 PM	60	7:30 AM	8:30 AM	Breakfast	UWM Student Union Wisconsin Room	
9:30 AM	9:30 PM	10:30 PM	10	8:30 AM	8:40 AM	Overview of the Schedule <i>Rob Cuzner, UWM Site Director, GRAPES</i>		
9:40 AM	9:40 PM	10:40 PM	30	8:40 AM	9:10 AM	NSF Survey Results <i>Don Davis</i>		
10:10 AM	10:10 PM	11:10 PM	20	9:10 AM	9:30 AM	Break		
10:30 AM	10:30 PM	11:30 PM	120	9:30 AM	11:30 AM	Business Meeting <i>Rob Cuzner, UWM Site Director, GRAPES</i>		
12:30 PM	12:30 AM	1:30 AM	60	11:30 AM	12:30 PM	Boxed Lunch Meeting Adjourned		