



2023 OE ADVANCED TRANSFORMER TECHNOLOGIES WORKSHOP

MAY 23-24, 2023

NETL MAIN CONFERENCE ROOM B26-G51A • 3610 COLLINS FERRY ROAD • MORGANTOWN, WV

AGENDA*

Tuesday, May 23, 2023

All times are Eastern Daylight Time

8:00 AM – 8:30 AM **WORKSHOP REGISTRATION CONTINENTAL BREAKFAST**

8:30 AM – 8:50 AM **WELCOME AND INTRODUCTION**

Dr. Brian J. Anderson, Director, National Energy Technology Laboratory – Welcome, safety and logistics

8:50 AM – 9:10 AM **KEYNOTE PRESENTATION**

Gil Bindewald, Acting Principal Deputy Assistant Secretary, Office of Electricity

9:10 AM – 9:20 AM **CURRENT LANDSCAPE & WORKSHOP GOALS**

Michael Pesin, Deputy Assistant Secretary, Office of Electricity

9:20 AM – 9:40 AM **TRAC AND AGTS PROGRAM OVERVIEW**

Andre Pereira, Program Manager, Office of Electricity – Workshop & TRAC overview

Fernando Palma, Program Manager, Office of Electricity – Workshop & AGTS overview

9:40 AM – 10:00 AM **NETWORKING BREAK**

Utilities Perspective Session

10:00 AM – 11:15 AM **PANEL ON UTILITIES TRANSFORMER SPECIFICATIONS, PROCUREMENT PRACTICES, AND TECH TO MARKET REQUIREMENTS**

Panel Moderator: Michael Pesin, DOE

Kyle Stechschulte P.E., Staff Engineer - American Electric Power (AEP)

Michael Lamb, General Manager, ET Operations & Maintenance, Dominion Energy

John Arp, Chief Engineering and Grid Operations Officer, Rappahannock Electric Cooperative (REC)



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Short-term Transformer R&D Opportunities and Challenges Session

11:15 AM – 12:15 PM **TOPIC PRESENTATIONS ON ADV. TRANSFORMER DESIGN AND MATERIALS (e.g., core design, insulation materials, winding design, adv. materials, etc.)**

Panel Moderator: Brian Rowden, ORNL

Dr. Kristie Armstrong, Technical Projects Manager, ERGON

Dr. Jagan Devkota, Senior Scientist, NETL

Kevin Biggie, Innovation Manager, Weidmann Group

12:15 PM – 1:15 PM **LUNCH BREAK (provided on site)**

1:15 PM – 2:30 PM **PANEL ON TRANSFORMER MANUFACTURING PERSPECTIVE/INDUSTRY BEST PRACTICES**

Panel Moderator: Fernando Palma, DOE

Chad Eckhardt, Chief Commercial Officer (CCO), ERMCO

Zachery Weiss, Engineering Manager, WEG Transformers

Gary Rackliffe, Vice President for Market Development and Innovation, Hitachi Energy

Dr. Chins Chinnasamy, Distinguished Fellow, ORNL

2:30 PM – 3:00 PM **NETWORKING BREAK (buffer time)**

Medium to Long-term Transformer R&D Opportunities and Challenges Session

3:00 PM – 4:00 PM **TOPIC PRESENTATIONS ON SOLID STATE TRANSFORMERS (SSTs)**

Panel Moderator: Joao Pereira, ORNL

George Mantov, Chief Technology Officer (CTO) - Solid State Power LLC

Dr. Jack Flicker, Principal Member of the Technical Staff - Sandia National Laboratories (SNL)

Dr. Ram Adapa, Technical Executive - Electric Power Research Institute (EPRI)

4:00 PM – 5:00 PM **TOPIC PRESENTATIONS ON TRANSFORMER ADV. FEATURES (e.g., flexibility, modularity, scalability, etc.)**

Panel Moderator: Andre Pereira, DOE

Enrique Betancourt, Technical Manager, Prolec GE

Dr. Deepak Divan, Professor and Director of Center for Distributed Energy, Georgia Institute of Technology

Dr. Parag Upadhyay, Electric Machines, Transformers & Electromagnetic Expert, Anduril Industries

5:00 PM – 5:10 PM **SUMMARY AND WRAP-UP**



Wednesday, May 24, 2023

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| 8:00 AM – 8:45 AM | CONTINENTAL BREAKFAST NETWORKING |
| 8:45 AM – 9:00 AM | INTRODUCTORY REMARKS/DAY 2 OVERVIEW
Gil Bindewald/Andre Pereira/Fernando Palma |
| 9:00 AM – 11:00 AM | BREAKOUT SESSIONS
Breakout session A - Power Transformers
Breakout session B - Distribution Transformers |
| 11:00 AM – 12:00 PM | WORKING LUNCH (Transportation - Edwards Moving & Rigging) |
| 12:00 PM – 12:20 PM | POWER TRANSFORMER BREAKOUT PANEL BRIEF-OUT |
| 12:20 PM – 12:40 PM | DISTRIBUTION TRANSFORMER BREAKOUT SESSION BRIEF-OUT |
| 12:40 PM – 1:00 PM | CLOSING REMARKS
Andre Pereira & Fernando Palma |
| 1:00 PM – 3:00 PM | OPTIONAL LAB TOUR |