

THE AGENDA

Tuesday, November 7th

(Hanging Posters at 12)

10:30AM Welcome and Introduction to DuraMAT – Teresa Barnes

10:45AM DOE – Dana Olson

Materials Reliability and Testing

11:00AM John Trout (DuPont):
DuPont’s Approach to Reliability Through Field Results and Accelerated Testing

11:30AM David Strickler (Pilkington):
Durability Testing of Glass Coatings for Architectural Glazing

12:00PM Lunch Buffet, Posters Available

DuraMAT Session: Parallels in Materials Reliability

1:15PM Christine Roberts (Sandia National Laboratories):
Material Models for Polyurethane Foam Encapsulation and Aging

1:40PM Anne Grillet (Sandia National Laboratories):
Adhesion

2:05PM Samuel Graham (Georgia Tech)

2:30PM Break with Posters

DuraMAT Session: University and Capability Area Presentations

3:00PM Peter Hacke (National Renewable Energy Laboratory):
Combined-Accelerated Stress Test Development in DuraMAT

3:20PM Mariana Bertoni (Arizona State University)

3:40PM James Hartley (Sandia National Laboratories):
Thermal-Mechanical Modeling of PV Modules and Components

4:00PM Discussion Panel with Speakers and Capability Leads on Materials Reliability

4:30PM DuraMAT Poster Presentations

6:30PM Buffet Dinner with Posters Available

THE AGENDA

Wednesday, November 8th

7:30–9:00AM Breakfast

DuraMAT Session: Data and Data Analytics

8:30AM Muhammad (Ashraf) Alam (Purdue):
Physics-Based Machine Learning To Enable Reliable Modules & Sustainable Solar

8:50AM Josh Stein (Sandia National Laboratories):
Challenges of PV Degradation Analysis: PVLIB and Performance

9:10AM Anubhav Jain (Lawrence Berkeley National Laboratory) and
Robert White (National Renewable Energy Laboratory):
DuraMAT Data Hub

9:40AM Discussion and Panel with PIs

10:10AM Coffee Break with Posters

Breakout Sessions

10:30AM Working Groups:
Coatings • Accelerated Testing of Interfaces • Data Analytics
Posters Available

11:30AM Wrap Up

11:45AM Luncheon
*(Closed session: working lunch for Industry Advisory Board Meeting and DOE discussion.
Working Lunch can continue until 2PM, with rides available to join the tour in progress.)*

1:30PM Afternoon Sandia National Laboratories Tour:
Microsystems and Engineering Sciences Application (MESA) Facility
Center for Integrated Nanotechnologies (CINT) Facility
Photovoltaic Systems Evaluation Laboratory (PSEL)