

DuraMat Workshop – Identifying Synergies

October 10–11, 2016
National Renewable Energy Laboratory

DuraMat is a national laboratory-led Energy Materials Network (EMN) Consortium aimed at dramatically accelerating the development of new, useful module materials. This workshop will introduce DuraMat and prepare for two types of proposals: 1) industry-led projects, and 2) projects to develop or apply capabilities within the DuraMat Consortium.

Monday, October 10, 2016 Research Support Facility, Beaver Creek X320 A,B,C

12:30 Check-in & Badging

Introduction 1:00 – 1:30	Welcome and DuraMat Concept Dana Olson, DOE & Teresa Barnes, NREL
1:30 - 2:30	DuraMat Consortium Capabilities Overview
1:30 - 1:35	Capability Network Introduction – Dave Ginley, NREL
1:35 – 1:40	C1. Data Management, Analytics, and Informatics – Anubhav Jain, LBNL
1:40 - 1:45	C2. Predictive Simulation – Randy Schunk, Sandia
1:45 – 1:50	C3. High-Throughput Materials Discovery and Forensics – Mike Toney, SLAC
1:50 – 1:55	C4. Module Prototyping and Accelerated Durability Testing – Peter Hacke, NREL
1:55 – 2:00	C5. Field Deployment – Bruce King, Sandia
2:00 - 2:05	C6. Market Analysis – Mike Woodhouse, NREL
2:05 - 2:10	QESST – Mariana Bertoni, Arizona State University
2:10 – 2:15	BAPVC – Reinhold H. Dauskardt, Stanford University
2:15 - 2:20	NGPV – Kurt Barth, Colorado State University

Capability Areas Identifying Opportunities

2:30 - 2:45	Thermal-Mechanical-Electrical Model for PV Module-Level Mechanical
	Failure Mechanisms
	Scott Roberts, Sandia & Nick Bosco, NREL

2:45 - 3:00	Data2Design for Reliable PV Materials Performance
	Amy Sun & Bruce King, Sandia

3:00 – 3:10 Break – Walk to Café

Identifying Partnerships – Poster Session, NREL Café

3:10 - 4:40 Poster Session

National lab, academic, and industry groups present capabilities and discuss potential partnerships.

4:40 - 5:00 Break - Walk to RSF













What does success look like? What opportunities do we see?

5:00 – 5:20 Case studies (Materials and Module Reliability)

John Wohlgemuth, NREL

5:20 – 6:00 Panel and audience discussion: What would success for DuraMat look

like? What opportunities do we see?

Jon Previtali, Wells Fargo Gabriela Bunea, SunPower Chad Kotarba, First Solar Michael Bolen, EPRI Bill Gambogi, DuPont

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7:30 - 8:00 Coffee

Processes for Working Together

8:00 – 8:20 Plan for Selection of Projects Teresa Barnes, NREL

8:20 – 8:40 Other Management Plans from DuraMat

Teresa Barnes, NREL

8:40 – 8:50 Streamlined IP and Agreements

Bill Hadley, NREL & Mark Hartney, SLAC

8:50 – 9:00 Questions

9:00 – 9:10 Break – Walk to Café

Identifying Partnerships - Poster Session, NREL Café

9:10 - 10:40 Poster Session

10:40 – 11:00 Break (Remove Posters & Walk to RSF)

Closing Session - What did we learn? Suggestions for DuraMat

11:00 – 12:00 Discussion and audience feedback









