Poster Number	Capability Name	Short Paragraph Description of Capability (300 words same as the abstract. Summarize what it does and value to DuraMat and Module Materials)	Capability Expert (principal contact)	Fit	Capability Area Best ts This Work (Select One)	Define from an industry perspective what near term 1 year and long term 5 year successful use of the capability would be. (100 words)	Link to Your Website (if available)
65	BAPVC Methods for Procurement of Industry-Relevant University Research in Module Reliability and Durable Materials		John P. Benner	Bay Area Photovoltaic Consortium, Stanford University and University of California at Berkeley	BAPVC	BAPVC will launch 5-7 new university projects addressing a technology scope guided by the industry members and selected by review and evaluation performed by a team equally weighted from industry and academic reviewers	http://bapvc.stanford.edu/
66	Next Generation PV Center (NGPV) at Colorado state University	The Next Generation PV Center is a NSF supported industry / university corporative research center (I/UCRC) that performs cutting edge research in collaboration with PV industry leaders. NGPV center members includes all aspects of PV value chain. The NGPV brings significant center level capacities for improving the reliability and reducing costs of PV encapsulation. Specific area of expertise /capabilities include 1. New module architecture development 0pportunities to reduce both materials and manufacturing costs while improving reliability demonstrated. 3. Witable for thin film superstrate configuration packages. Module encapsulation process cycle time reduced from 13 minutes to > 30 sec. shown Credible design pathway to DOE goal of 50 year life demonstrated Iong standing expertise in materials and component characterization. Advanced materials selection and manufacturing process selection capabilities -90,000 polymers materials in the database. 0. Opportunity to improve existing designs or develop new systems. S. 3. Computational simulation modules and module manufacturing processes. NGPV members are recognized experts in simulation, current ongoing NSP program on high fidelity simulation for solar and other high tech industries. Advanced simulation methods have incorporated 100 million elements Specific capacities for thermal gradients but able to model a broad array of physics: mechanical / stress, flux, gas and moisture transmission. 4. Sample and device fabrication State of the art automaterial fabrication of ~18%+ CdTe devices Small area devices with diff	Kurt Barth kurt.barth@colostate.edu	Colorrado State University Next Generation PV Center	NGPV	The first year milestone for the NGPV program will be the development of between two to four specific projects for application driven modeling, Basic materials science principles and state of the art materials identification and new module architetchures. Project development, vetting and oversight will performed in collaboration with the industrial advisory board of the NGPV using existing Center mechanisms. Milestones for year two will be the demonstration of effective execution of these projects and continued industry involvement.	www.photovoltaics.colostate.edu

DuraMat University Consortia QESST, BAPVC, NGPV