

Ceramic, Composite and Optical Materials Center an NSF, I/UCRC Clemson University, South Carolina Rutgers, The State University of New Jersey

Fall 2011 Industrial Advisory Board Meeting

19-21 October, 2011

Clemson University

Wednesday, 19 October, The Conference Center & Inn, Harris Terrace

2:00-2:30	Registration
2:30-3:00	Welcome - Future directions Clemson Site, Phil Brown
3:00-3:30	Fiber spectral engineering, John Ballato
3:30- 4:00	Metal-oxide nanoparticle-polymer composites: Lessons learned and lesson to be learned Thompson Mefford
4:00-4:30	Cellulose Nanocrystal Reinforced Alginate Fibers - Biomimicry Meets Polymer Processing, Chris Kitchens
4:30-5:00	Thermally-Responsive Polymer Electrolytes, Mark Roberts
5:00-5:30	Experimentally-validated modeling of polymer fiber and film extrusion, Chris Cox
6:00-10:00	Reception and registration

Thursday, 20 October, The Conference Center & Inn, Bell South Auditorium

8:00-8:30	Registration & Continental Breakfast
8:30-8:45	Welcome, Phil Brown
8:45-9:15	Introductory Remarks, NSF
9:15-9:35	NSF Evaluator, Steve McGregor

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TECHNICAL REVIEW - Clemson Site		
9:35-9:55	Review of Meeting Objectives CCOMC, Rich Haber	
9:55-10:15	 A - Hydrothermal Synthesis and Processing of Refractory Oxides and Nitrides, Joe Kolis 	
10:15-10:35	B - Transparent Ceramics with Enhanced Mechanical Properties, John Ballato	
10:35-10:55	C - Optically active polymeric fiber based materials, Phil Brown	
10:55-11:25	Break	
11:25-11:45	 Evanescent wave sensors grafted with enrichment polymer layers, Igor Luzinov and Kathleen Richardson 	
11:45-12:05	E - Project proposals Clemson	
12:05-1:30	Lunch, Bell South Auditorium	
1:30 - 3:00	Rutgers Site Review	
	F - Prcoessing of Thermoelectrics, Dunbar Birnie	
	G (a) - Transparent Spinel - Rich Haber(b) - Processing of Boron Carbide, Rich Haber, Steve Miller	
	H - Solution Crystallization of Spinel, Rik Riman	

- Modeling the Densification of Non-Oxide Ceramics,

John Matthewson, Rich Haber

J - Effect of Machining on Residual Stressing in Ceramics, Adrian Mann,
 Rich Haber

3:00-3:30	Break
3:30-4:30	K - Defining Microstructural Tolerance Limits of Defects for SiC and Al_2O_3 Armor, Rich Haber, Dale Niesz
	L - B ₄ C Variability, Dan Maiorano, Rich Haber
	M - Variability in SiC Powders, Rich Haber
	N - NDE of Armor, Rich Haber
	 Modeling of Binder Removal for Micron and Submicron Ceramic Compacts, John Matthewson
4:30-5:30	Poster Session and Reception - meeting rooms 3 & 4
5:30-8:30	Buffet

Friday, 21 October, AMRL Building, 91 Technology Dr., Anderson

Two functions will be held on Friday Morning. For the Industrial Advisory Board Members, the IAB Meeting will be held. For other corporate members a set of tours/demonstrations are scheduled. All will be completed by noon to allow for travel

INDUSTRIAL ADVISORY BUSINESS MEETING — AMRL Building

7:30	Continental Breakfast
8:00-8:30	Site Reviews
8:30-9:30	NSF Evaluator Review, Steve McGregor
9:30-10:00	Technical Session and Strategic Planning, IAB Closed Session
10:00-12:00	Tours at COMSET/AMRL • Electron Microscope Facility • Fiber Optic Draw Tower • Thermal Characterization Laboratory • Research Laboratory
12:15	Box Lunch, AMRL Building