



November 2010 Review Meeting November 9-10, 2010 Purdue University

Monday, November 8, 2010

Opportunity for informal dinner appointments with CTRC students, at Member request. Please contact Deanne to set up a time with a student. Discuss projects, potential employment, memories of Purdue, etc.

Tuesday, November 9, 2010 - Burton D. Morgan Center

Tuest	uay, Nove	inder 3, 2010 - Duiton D. Morgan Center
7:30	CONTINE	NTAL BREAKFAST (Room 102, Burton D. Morgan Center)
8:00	WELCOME AND REMARKS (Room 121, Morgan Center)	
8:15	INTRODUCTIONS AND MEETING OVERVIEW	
8:20	CENTER UPDATE (Garimella)	
8:35	STATUS OF CTRC PROJECTS (15 min. presentation, 10 min. discussion & LIFE feedback)	
	8:35	Thermal Cycling Fatigue Effects on the Contact Resistance of Organic Interface Materials on Si (Steill)
	9:00	Assessment of Alternative Waste Heat Recovery Opportunities (Little) - End of Project
	9:25	Compliant Thermal Interface Adhesives (Chavali, Lin)
	9:50	Performance Enhancement in Polymeric TIMs: Hierarchical Nested Channels and Improved Interfacial Adhesion (Bajaj) - End of Project
10:15	BREAK	
	10:30	Graphene-based Thermal Interface Materials (Hu)
	10:55	Thermoelectric Power Generation from Waste Heat in Electronic Systems (Wang) - End of Project
	11:20	Organic Rankine Cycle with Solution Circuit for Electronic Waste Heat Recovery (Krishna)
	11:45	Introduction of Posters
	11:50	Group Picture
11:55	LUNCH and STUDENT POSTER SESSION (Room 102, Morgan Center)	
	1:30	Flow Regime-Based Predictive Model for Flow Boiling in Microchannels (Ritchey, Paranjape)
	1:55	Two Phase Liquid Jet Impingement Cooling (West) - End of Project
	2:20	Update on Electrowetting - NSF Fundamental Research Supplement (Dash)
2:45	BREAK	
3:00	NEW PROJECT PRESENTATIONS (10 min. presentation and 5 min. discussion) 3:00 Optimization of Manifold Microchannel Heatsinks (Murthy)	
	3:15	Optimal Porous Microstructures for Enhanced Thermal Management (Murthy)
	3:30	Surface Treatment for Boiling Heat Transfer Enhancement (Kim)
	3:45	Determination of Liquid Film Thickness in Slug and Annular Flow for Improvement of Flow Boiling Heat Transfer Model (Harirchian)
	4:00	Anti-Noise Synthetic Jet Enhanced Heat Sink (Persoons) – Alternate project
4:15	5 LAB OPEN HOUSES- Birck Nanotechnology Center (2283, 2239), Electronics	
	7:30 8:00 8:15 8:20 8:35 10:15 11:55 2:45 3:00	7:30 CONTINEN 8:00 WELCOME 8:15 INTRODUC 8:20 CENTER U 8:35 STATUS C 8:35 9:00 9:25 9:50 10:15 BREAK 10:30 10:55 11:20 11:45 11:50 11:50 11:55 LUNCH and 1:30 1:55 2:45 BREAK 3:00 3:15 3:00 3:45 4:00 10:00

- 4:15 LAB OPEN HOUSES– Birck Nanotechnology Center (2283, 2239), Electronics Cooling Lab (ME 61) and Thermal Microsystems Lab (ME 71), Herrick Laboratories
- 6:30 DINNER Christos New City Grill, 3291 Teal Road, Lafayette





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Wednesday, November 10, 2009 - Burton D. Morgan Center

- 7:30 Continental Breakfast
- 8:00 Poster Contest winner announcement
- 8:10 Discussion of Industry Feedback (via LIFE Forms)
- 9:00 IAB Discussion Strengths, Weaknesses, Opportunities and Threats (SWOT) Analysis
- 10:00 BREAK
- 10:15 Industrial Advisory Board Meeting (CLOSED SESSION)
- 11:30 Wrap-up and Action Items
- 12:00 MEETING ADJOURNMENT

LIFE - Level of Interest and Feedback Evaluation