

**May 2010 Review Meeting**  
**May 11-12, 2010**  
**Purdue University**

**Monday, May 10, 2010**

Opportunity for informal dinner appointments with CTRC students, at Member request.

**Tuesday, May 11, 2010** - Burton D. Morgan Center

- 7:30 Continental Breakfast (Room 102, Burton D. Morgan Center)
- 8:00 Welcome, Introductions, Meeting Overview (Room 121, Morgan Center)
- 8:15 Center Update (Garimella)
- 8:25 NSF Remarks
- 8:35 STATUS OF CTRC PROJECTS (15 min. presentation, 10 min. discussion & feedback on LIFE forms)
- 8:35 Update on Electrowetting - NSF Fundamental Research Supplement (Annapragada, Dash)
- 9:00 Assessment of Alternative Waste Heat Recovery Opportunities (Little)
- 9:25 Performance Enhancement in Polymeric TIMs: Hierarchical Nested Channels and Improved Interfacial Adhesion (Bajaj, Khalsa)
- 9:50 Compliant Thermal Interface Adhesives (Lin)
- 10:15 BREAK
- 10:30 Investigation of Nucleate Boiling Mechanisms in Forced Convection using Laser-Induced Fluorescence Thermography - NSF Fundamental Research Supplement (Jones)
- 10:55 Thermoelectric Power Generation from Waste Heat in Electronic Systems (Wang)
- 11:20 Flow Regime-Based Predictive Model for Flow Boiling in Microchannels (Ritchey, Paranjape)
- 11:45 Update on Thin-Film Evaporation - NSF Fundamental Research Supplement (Migliaccio)
- 12:10 Introduction of Posters
- 12:15 Group Picture
- 12:20 LUNCH and Student Poster Session (Room 102, Morgan Center)
- 2:00 Thermal Cycling Fatigue Effects on the Contact Resistance of Organic Interface Materials on Si (Blendell, Handwerker)
- 2:25 Graphene-based Thermal Interface Materials (Hu)
- 2:50 Two Phase Liquid Jet Impingement Cooling (West)
- 3:15 Break
- 3:30 Company Introductions
- 3:30 Sharp Labs – Wei Pan
- 3:40 Alcatel Lucent – Todd Salamon
- 3:50 TBA
- 4:00 Lab Open Houses – Birck Nanotechnology Center (2283, 2239 ), Electronics Cooling Lab (ME 61) and Thermal Microsystems Lab (ME 71), Herrick Laboratories
- 6:30 DINNER – TBA

For questions, contact: Dr. Suresh Garimella, Director, CTRC (765) 494 5621 or  
Deanne Kemeny, Administrative Coordinator, CTRC dkemeny@purdue.edu

**Wednesday, May 12, 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 CTRC Portfolio review
- 9:15 Industry Needs Discussion Panel – Brainstorming Session
- 10:15 BREAK
- 10:30 Industrial Advisory Board Meeting (CLOSED SESSION)
- 11:30 Wrap-up and Action Items
- 12:00 MEETING ADJOURNMENT

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LIFE - Level of Interest and Feedback Evaluation