May 2012 Review Meeting
May 2-3, 2012
Purdue University

Tuesday, May 1, 2012
Opportunity for informal dinner appointments with CTRC students, at Member request.

Wednesday, May 2, 2012 - Burton D. Morgan Center
7:30 CONTINENTAL BREAKFAST (Room 102, Burton D. Morgan Center)
8:00 INTRODUCTIONS (Room 121, Morgan Center)
8:10 REMARKS FROM NSF (Room 121, Morgan Center)
8:25 CENTER UPDATE (Garimella)
8:35 STATUS OF CTRC PROJECTS (15 min. presentation, 10 min. discussion & feedback on LIFE forms)
  8:35 Optimal Porous Microstructures for Enhanced Thermal Management (Bodla)
  9:00 Effects of Heat Flux Asymmetries on Two-Phase Transport through Microchannels (Ritchey)
  9:25 Determination of Liquid Film Thickness in Slug and Annular Flow for Improvement of Flow Boiling Heat Transfer Model (Patel)
  9:50 High-Performance, Low Cost Thermoelectric Materials (Chen/Rickey)
10:15 BREAK
10:30 Optimization of Manifold Microchannel Heatsinks (Sarangi)
10:55 Impedance-Based Visualization of Voids in Non-Transparent Materials such as Particle-Filled Thermal Interface Materials (Taylor)
11:20 Compliant Thermal Interface Materials using Graphene (Park)
11:45 Surface Treatment for Boiling Heat Transfer Enhancement (Weibel)
12:10 Introduction of Posters
12:15 Group Picture
12:20 LUNCH and STUDENT POSTER SESSION (Room 102, Morgan Center)
2:20 Anti-Noise Synthetic Jet Enhanced Heat Sink (Stone/Rau/Weibel)
2:45 Long-Term Reliability of Compliant TIMs: Towards Mechanistic Modeling of Matrix Aging (Singh)
3:10 Update on Characterization of Evaporation and Boiling from Capillary-fed Porous Structures (Weibel)
3:35 BREAK
3:50 Organic Rankine Cycle with Solution Circuit for Electronic Waste Heat Recovery (Krishna)
4:15 Performance Comparison of Liquid-Loop Fluids for Electronics Cooling (Kurtulus)
4:40 COMPANY INTRODUCTIONS
  4:40 Wolverine
  4:50 Company 2
  5:00 Company 3
6:30 DINNER – TBD, Lafayette, IN

For questions, contact: Dr. Suresh Garimella, Director, CTRC (765) 494 5621 or Deanne Kemeny, Administrative Coordinator, CTRC dkemeny@purdue.edu
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Thursday, May 3, 2012 – Burton D. Morgan Center
7:30  CONTINENTAL BREAKFAST (Room 102, Burton D. Morgan Center)
8:00  POSTER CONTEST WINNER ANNOUNCEMENT (Room 121, Morgan Center)
8:10  DISCUSSION OF INDUSTRY FEEDBACK (via LIFE Forms)
9:00  CTRC PORTFOLIO REVIEW and RESULTS OF STRAWPOLL
9:15  PROJECT PROPOSALS AND DISCUSSION
10:45 BREAK
11:00 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