

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

LIFE - Level of Interest and Feedback Evaluation