ACRC WINTER MEETING
Wednesday, December 3rd, 2008
WPI Campus Center, Odeum A

AGENDA

7:45 a.m. Registration
8:00 a.m. Welcome and Update on MPI Developments
    Diran Apelian, Director, MPI
8:15 a.m. Update from ACRC Steering Committee
    Steve Udvardy, Chair, ACRC Steering Committee
8:30 a.m. Overview of ACRC Research Portfolio
    Makhlof M. Makhlof, Director, ACRC
8:45 a.m. Microstructure Evolution during Friction Stir
    Processing of Aluminum Casting Alloys
    Ning Sun
9:15 a.m. Characterization of Alloy Castability – (i) Fluidity
    Brian Dewhirst
9:45 a.m. Characterization of Alloy Castability – (ii) Hot Tearing
    Shimin Li
10:15 a.m. Break
10:30 a.m. Improving Aluminum Casting Alloy and Process
    Competitiveness
    Animesh Mandal
11:00 a.m. Evaluation of Distortion and Residual Stresses during
    Heat Treatment of Aluminum Alloys
    W. Chang-Kai (Lance)
11:30 a.m. Controlled Diffusion Solidification – Fundamentals
    and Mechanism
    Kimon Symeonidis
11:45 a.m. Aluminum Nano-Composites for Elevated
    Temperature Applications
    Cecilia Bogonova
12:00 p.m. Innovative Semi-Solid Metal (SSM) Processing
   Diran Apelian

12:10 p.m. High Integrity Magnesium Auto Castings
   Jay Keist, Diran Apelian

12:15 p.m. Aluminum Die Casting Alloys
   Libo Wang

12:30 p.m. Lunch - Odeum B (Campus Center)

1:30 p.m. Break Into Focus Group Meetings (in Campus Center)

1:30 – 2:30 p.m. Improving Aluminum Casting Alloy and Process Competitiveness
   Odeum A Room (Makhlouf)

1:30 – 2:30 p.m. Microstructure Evolution During Friction Stir Processing of Aluminum Casting Alloys
   Mid-Century Room (Apelian)

2:45 – 3:45 p.m. Evaluation of Distortion and Residual Stresses during Heat Treatment of Aluminum Alloys
   Odeum A (Makhlouf)

2:45 – 3:45 p.m. Characterization of Alloy Castability – Fluidity and Hot Tearing
   Mid-Century Room (Apelian)

4:00 - 5:00 a.m. Report Back by All Focus Groups
   Odeum A

⇒ Friction Stir Processing of Aluminum Alloys
⇒ Evaluation of Distortion and Residual Stresses during Heat Treatment of Aluminum Alloys
⇒ Characterization of Alloy Castability – Fluidity and Hot Tearing
⇒ Improving Aluminum Casting Alloy and Process Competitiveness

6:30 – 9:30 p.m. Reception and Dinner
   Great Hall, Higgins House
   WPI