ACRC WINTER MEETING
December 5-6, 2007
WPI Campus Center, Odeum A

AGENDA

WEDNESDAY, DECEMBER 5, 2007

7:45 a.m.  Registration

8:00 a.m.  Welcome and Update on MPI Developments
           Diran. Apelian, Director MPI

8:10 a.m.  Update from ACRC Steering Committee
           Steve Udvardy, Chair ACRC Steering Committee

8:20 a.m.  Overview of ACRC Research Portfolio
           Makhlof Makhlof, Director ACRC

8:35 a.m.  Characterization of Alloy Castability – Fluidity and
           Hot Tearing
           Brian Dewhirst, Shimin Li, Diran Apelian

9:15 a.m.  Microstructure Manipulation During Friction Stir
           Processing of Aluminum Casting Alloys
           Ning Sun, Diran Apelian

9:40 a.m.  Improving Aluminum Casting Alloy and Process
           Competitiveness
           Animesh Mandal, Makhlof Makhlof

10:10 a.m. Break

10:30 a.m. Evaluation of Distortion and Residual Stresses during
           Heat Treatment of Aluminum Alloys
           W. Chang-Kai (Lance), Makhlof Makhlof

11:00 a.m. Controlled Diffusion Solidification – Fundamentals
           and Mechanism
           Kimon Symeonidis, Diran Apelian, Makhlof Makhlof

11:15 a.m. Industrial Internship Program:
           – Die Soldering – Contech LLC
             Pat Hogan
           – Recycling Technologies – wTe
             Leigh Duren
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>11:40 a.m.</td>
<td>Innovative Semi-Solid Metal (SSM) Processing</td>
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<td><em>Diran Apelian</em></td>
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<td>12:00 p.m.</td>
<td>High Integrity Magnesium Auto Castings</td>
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<td><em>Jay Keist, Yuan-Dong Li</em></td>
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<td>12:15 p.m.</td>
<td>Aluminum Die Casting Alloys</td>
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<td><em>Libo Wang, Diran Apelian, Makhlouf Makhlouf</em></td>
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<td>12:30 p.m.</td>
<td><strong>Lunch</strong> - <em>Odeum B (Campus Center)</em></td>
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<td>1:00 p.m.</td>
<td><strong>Break Into Focus Group Meetings</strong></td>
<td><em>(in Campus Center)</em></td>
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<td>1:00 – 2:30 p.m.</td>
<td>Improving Aluminum Casting Alloy and Process Competitiveness</td>
<td><em>Mid-Century Room</em> <em>(M. Makhlouf)</em></td>
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<td>1:00 – 2:30 p.m.</td>
<td>Microstructure Evolution During Friction Stir Processing of Aluminum Casting Alloys</td>
<td><em>Chairman’s Room</em> <em>(D. Apelian)</em></td>
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<td>2:45 – 4:15 p.m.</td>
<td>Evaluation of Distortion and Residual Stresses during Heat Treatment of Aluminum Alloys</td>
<td><em>Mid-Century Room</em> <em>(M. Makhlouf)</em></td>
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<td>2:45 – 4:15 p.m.</td>
<td>Characterization of Alloy Castability – Fluidity and Hot Tearing</td>
<td><em>Chairman’s Room</em> <em>(D. Apelian)</em></td>
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<td>4:30 - 5:00 a.m.</td>
<td><strong>Report Back by All Focus Groups</strong></td>
<td><em>Odeum A</em></td>
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- 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

*VIA*
89 Shrewsbury Street
Worcester, MA 01604
(508) 754-4842
(See Directions attached)
**THURSDAY, DECEMBER 6, 2007**

8:00 - 8:15  Welcome  
The process we will follow  
Expectations for the Day

8:15 – 8:45  Review Mission - Vision  
Review the Strategic Planning Process of Last Year  
Review the Five Axes and the SWOT  
Review Responses of the Two Questions Posed  
(Opportunities & Threats)

8:45 – 9:30  Discussion on the Opportunities and Threats

9:30 – 10:30  Prioritize the Strategic Technical Areas Which Ought to Be Pursued By ACRC

10:30 – 11:00  Break

11:00 -1:00  Form Focus Groups to detail out the next level of resolution for each of the technical areas identified (Do this over Lunch-Box lunches)

1:00 – 2:00  Debrief, Report Out and Identify Next Steps

2:15  Adjourn