ACRC WINTER MEETING
December 4 - 5, 2001
Worcester Polytechnic Institute
WPI Campus Center – Odeums A&B

AGENDA

TUESDAY, DECEMBER 4, 2001

7:45 a.m.  Registration

8:00 a.m.  Welcome and Update from ACRC Steering Committee
            B. DasGupta, R. Donahue; Outgoing Co-Chairs
            Introduction of New Chair

8:15 a.m.  Introduction of New Members and Staff
            D. Apelian

8:30 a.m.  Overview of ACRC Research Portfolio
            M. Makhlouf

9:00 a.m.  Operating Mechanisms During Dynamic Loading
            of Al Cast Components
            D. Lados

9:30 a.m.  Evolution of the Eutectic Microstructure During
            Solidification of Hypoeutectic Aluminum-Silicon
            Alloys
            S. Shankar

10:00 a.m. Break

10:15 a.m. Novel Methods for Grain Refining Aluminum
            Alloys (Final Report)
            N. Alem

10:45 a.m. Microstructure Evolution in Magnesium Cast
            Alloys (New Project)
            M. Makhlouf

11:00 a.m. Optimization of Heat Treatment Using Fluidized Bed
            Reactors (New Project)
            D. Apelian

11:15 a.m. Alloy Development Work
            M. Makhlouf

12:00 p.m. Lunch - Odeum C
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<th>Time</th>
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<tr>
<td>1:30 p.m.</td>
<td>Overview of SSM Projects&lt;br&gt;D. Apelian</td>
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<td>1:40 p.m.</td>
<td>Quantitative Microstructure Characterization of Commercial Semi-Solid Aluminum Alloys&lt;br&gt;Q. Pan</td>
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<td>2:00 p.m.</td>
<td>Modeling of Rheology in Semi-Solid Alloys&lt;br&gt;A. Alexandrou</td>
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<td>2:20 p.m.</td>
<td>Low Cost and Energy Efficient Methods for the Manufacture of SSM Feedstock&lt;br&gt;*New Project&lt;br&gt;D. Apelian</td>
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<td>2:45 p.m.</td>
<td>Break Into Focus Groups</td>
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**FOCUS GROUP MEETINGS**

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<tr>
<td>3:00–4:15 p.m.</td>
<td>Operating Mechanisms During Dynamic Loading of Al Cast Components&lt;br&gt;D. Lados, D. Apelian</td>
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<td>Evolution of the Eutectic Microstructure During Solidification of Hypoeutectic Aluminum Silicon Alloys&lt;br&gt;S. Shankar, M. Makhlouf</td>
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<td>4:30–5:30 p.m.</td>
<td>Microstructure Evolution in Magnesium Cast Alloys&lt;br&gt;Y. Riddle, M. Makhlouf</td>
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<td>Optimization of Heat Treatment Using Fluidized Bed Reactors&lt;br&gt;X. Lin, D. Apelian</td>
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<td>6:30 p.m.</td>
<td>Reception&lt;br&gt;Worcester Art Museum&lt;br&gt;55 Salisbury St., Worcester</td>
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<td>7:30 p.m.</td>
<td>Dinner</td>
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8:00–10:00 a.m.  SSM Focus Group  

Discussion of New Project
“Low Cost and Energy Efficient Methods for the Manufacture of SSM Feedstock”
Q. Pan, A. de Figueredo, M. Makhlouf, A. Alexandrou, D. Apelian

10:00–11:30 a.m.  Report Back by Focus Groups  

- Operating Mechanisms During Dynamic Loading of Al Cast Components
  P. Jones and F. Major, Co-Chairs
- Evolution of the Eutectic Microstructure During Solidification of Hypoeutectic Aluminum-Silicon Alloys
  M. Makhlouf, Chair to be determined
- Microstructure Evolution in Magnesium Cast Alloys
  Gary Ruff, Chair
- Optimization of Heat Treatment Using Fluidized Bed Reactors
  B. DasGupta, Chair
- Low Cost and Energy Efficient Methods for the Manufacture of SSM Feedstock
  D. Apelian, Chair to be determined

11:30 a.m.  Adjourn