METAL PROCESSING INSTITUTE
ACRC+CHTE FALL MEETING AGENDA
December 2-3, 2014

PLEASE NOTE:
Combined Meetings are in black
Items in blue refer to ACRC meetings
Items in green refer to CHTE meetings

Tuesday, December 2, 2014

8:30 – 10:30 a.m.  CHTE Board Meeting
Taylor Room, Campus Center

11:00 – 1:00 p.m.  ACRC Steering Committee Meeting
Chairman’s Room, Campus Center
Lunch will be brought in (Working Lunch)

11:00 -12:00 p.m.  CHTE Board Members – Presentation on Alloy Design and ICME
Approach in Metal Processing by Dr. Danielle Belsito, Baillie McNally
and Aaron Birt
Taylor Room, Campus Center

Followed by lunch from 12:00 to 1:00 p.m.

1:00 p.m.  Registration - Odeum A, Campus Center

1:30 p.m.  
- Welcome – D. Apelian
- Opening Remarks from ACRC Chair – K. Anderson
- Opening Remarks from CHTE Chair – M. Pershing/ S. Ferdon
- Remarks re 30 th (ACRC) and 15 th Anniversary (CHTE)
  Celebration June 2/3, 2015 – D. Weiss and R. Fabian

2:15 p.m.  
- Overview of the ACRC Research Portfolio – M. Makhlof
- Overview of the CHTE Research Portfolio – R. D. Sisson
- Overview of CR3 Research Portfolio – D. Apelian

3:15 p.m.  Break

3:30 – 5:30 p.m.  Project Presentations for ACRC and CHTE
ACRC Project Presentations – Odeum A

3:30 p.m. Clean Aluminum Processing
S. Hudson, D. Apelian

4:00 p.m. Aluminum Nano-Composites for Elevated Temperature Applications
I. Anza, M. Makhlouf

4:30 p.m. Alternate Eutectic Systems for Aluminum Casting Alloys
T. Koutsoukis, M. Makhlouf

5:00 p.m. Dissimilar Metal Casting
C. Soderhielm, D. Apelian

CHTE Project Presentations – Hagglund Room, Campus Center

3:30 p.m. NDT Testing for Hardness & Carburization Case Depth
L. Zhang, R. D. Sisson

3:50 p.m. Life Improvements to Alloys and Fixtures
A. Wang and R. D. Sisson

4:10 p.m. Induction Tempering vs. Furnace Tempering
X. Cai, R. D. Sisson

4:30 p.m. Gas Quench Steel Hardenability Standard
Y. Lu, R. D. Sisson, K. Rong

4:50 p.m. Cold Spray Nanomaterials by Design (ARL Project)
D. Belsito, B. McNally, A. Birt, D. Apelian, R. D. Sisson

6:00 p.m. Reception and Dinner
Higgins House, WPI Campus
Wednesday, December 3, 2014

8:00 a.m.  Breakfast  
Odeum A

8:15 a.m.  Industry Presentations

- NEMAK – Jose Talamantes-Silva
- Praxair – Beth Griegel

9:15 a.m.  Al Integrated Mini Mill Project (AIM) – Robert De Saro

9:30 – 11:00 a.m.  Focus Groups – Session A

| ACRC       | Aluminum Nano Composites for Elevated Temperature Applications  
            | I. Anza and M. Makhlouf  
            | Mid-Century Room  
            | Clean Aluminum Processing  
            | S. Hudson and D. Apelian  
            | Odeum A |
|------------|------------------------------------------------------------------|
| CHTE       | NDT Testing for Hardness and Carburization Case Depth  
            | L. Zhang and R. D. Sisson  
            | Improvements to Life of Alloys and Fixtures  
            | A. Wang and R. D. Sisson  
            | Hagglund Room |
### 11:00 – 12:30 p.m. Focus Groups – Session B

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<th>Session</th>
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### 12:45 – 2:30 p.m.  Lunch - Odeum C, WPI Campus Center

### 2:30 – 3:30 p.m.  Debrief

**ACRC in Odeum A**

- Aluminum Nano Composites for Elevated Temperature Applications
- Clean Aluminum Processing
- Alternate Eutectic Systems for Aluminum Casting Alloys
- Dissimilar Metal Casting

**CHTE in Hagglund Room**

- NDT Testing for Hardness and Carburization Case Depth
- Improvements to Life of Alloys and Fixtures
- Induction Tempering vs. Furnace Tempering
- Gas Quench Steel Hardenability Standard

### 3:30 p.m.  Adjourn