AGENDA

**Tuesday, June 13, 2017**

**12:30 p.m.**  
*Registration*  
*Odeum A & B, Campus Center*

**1:00 p.m.**  
*Opening of Spring Meeting*  
*Welcome – D. Apelian*  
*Opening Remarks from ACRC Chair, K. Anderson*  
*Opening Remarks from CHTE Chair, S. Ferdon*

**1:30 p.m.**  
*Industry Presentations*  
*Nikkei MC Aluminum America, V. Anthony*  
*Caterpillar, M. Pershing*

**2:15 p.m.**  
*Overview of MPI Activities – B. Mishra*

**2:45 – 3:00 p.m.**  
*Break*

**3:00 p.m.**  
*Funded Project Updates and Focus Group (FG) Meetings*

**ACRC – Odeum A & B**

- **3:00 p.m.**  
  *A: Multi-Material Metal Casting (FINAL), C. Soderhjelm, D. Apelian*

- **3:30 p.m.**  
  *B: 60/40/10 Cast Al Alloy, Y. Fan, D. Apelian*

**4:00 pm**  
*Focus Group Session* - Odeum A & B

- **A: Multi-Material Metal Casting, L. Zhang, FG Chair**
- **B: 60/40/10 Cast Al Alloy, R. Hathaway, FG Chair**

**5:30 p.m.**  
*Poster Session with Students (ACRC, CHTE, CR3)*  
*Reception to follow*  
*Back Patio, Campus Center*

**6:30 p.m.**  
*Barbeque*  
*Higgins House Courtyard, WPI Campus*

**PLEASE NOTE:** *Combined Meetings are in black*  
*Items in blue refer to ACRC meetings*  
*Items in green refer to CHTE meetings*
3:00 p.m.  Project Presentation and Focus Group Session:

A: Life Improvements to Alloys and Fixtures
A. Wang, R.D. Sisson, B.J. Bernard, FG Chair

4:00 p.m.  B: Induction Tempering vs. Furnace Tempering
X. Cai, R.D. Sisson, L. Frame, FG Chair

5:30 p.m.  Poster Session with Students (ACRC, CHTE, CR3)
Reception to follow
Back Patio, Campus Center

6:30 p.m.  Barbeque
Higgins House Courtyard, WPI Campus
Wednesday, June 14, 2017

8:00 a.m.  Breakfast  
Lobby area outside of Odeum A & B

---

**ACRC Funded Project Updates and Focus Groups Continued – Odeum A & B**

8:30 a.m.  C: Improvement of Impact Strength and Fracture Toughness of Castings through Chemically Induced Residual Stress – *D. Weiss, B. Mishra, A. Te*

9:00 a.m.  D: Residual Stress in Al Casting (ongoing project)  
*E. Lee, B. Mishra*

9:30 a.m.  E. Big Data for Assessment and Enhancement of Casting Processes – *N. Sun, D. Apelian*

---

**10:00 a.m.**  Break

---

10:30 a.m.  Focus Group Sessions

C: Improvement of Impact Strength and Fracture Toughness of Castings through Chemically Induced Residual Stress  
*D Weiss, FG Chair*  Mid-Century Room

D: Residual Stress in Al Casting – *C. Heisser, FG Chair*  Odeum A &B

E. Big Data for Assessment and Enhancement of Processes  
*D. Furrer, FG Chair*  Chairman’s Room

---

**CHTE Funded Project Updates and Focus Groups Continued- Hagglund Room**

8:30 a.m.  C: Gas Quench Steel Hardenability Standard (FINAL)  
*Y. Lu, R.D. Sisson, M. Pershing, FG Chair*

9:30 a.m.  D: Distortion and Residual Stress  
*H. Yu, R. D. Sisson, D. Furrer, FG Chair*
10:30 a.m.  
**Break**

11:00 a.m.  
New Projects  
R. D. Sisson

12:00 – 1:15 p.m.  
**Lunch – Odeum C**  
*Materials & Machines: Simplifying the Mosaic of Modern Manufacturing – A. Birt*

1:30 p.m.  
Award Presentations:  
*Ray Witt and CHTE Distinguished Service Award*

2:00 – 2:45 p.m.  
Tours and Continued Discussions on Projects

3:00 p.m.  
Adjourn