

# Daily Schedule

## WEDNESDAY, MAY 18

8:00 a.m.–5:00 p.m. (08.00–17.00)

### Exhibitor Setup

8:00 a.m.–2:00 p.m. (08.00–14.00)

### APMI Golf Tournament

(Open to all attendees. Transportation departs from Marriott at 8:00 a.m. See Social Events section for details)

8:30 a.m.–7:00 p.m. (08.30–19.00)

### Registration Opens

9:00 a.m.–Noon (09.00–12.00)

### Tour A—Pre-Conference Tour: Welcome to San Francisco

(See Special Events section for description)

2:00–6:00 p.m. (14.00–18.00)

### Poster Display (Author Setup)

6:00–7:30 p.m. (18.00–19.30)

### OPENING NIGHT RECEPTION

Welcome to the fabulous City by the Bay and PowderMet2011! The conference begins with a casual opening-night event at the Marriott Marquis. An assortment of food options, beer, and wine will be served. Dress is business casual.

(Attendance is restricted to full-conference registrants and others as noted.)



## THURSDAY, MAY 19

6:30–7:45 a.m. (06.30–07.45)

### Wake Up Walk 1: The Dynasty of Chinatown

(See Special Events section for description)

7:00–8:00 a.m. (07.00–08.00)

### Speaker Prep for Thursday Speakers

All speakers and session chairmen for today's technical sessions and special interest programs are required to meet in the Speakers' Lounge to receive final instructions and review information regarding presentations.

7:00 a.m.–4:30 p.m. (07.00–16.30)

### Registration

7:00 a.m.–4:30 p.m. (07.00–16.30)

### Poster Display

8:00–9:30 a.m. (08.00–09.30)

### OPENING GENERAL SESSION

The conference Opening General Session will include welcome comments by MPIF Executive Director/CEO C. James Trombino, CAE, and MPIF President Michael E. Lutheran. An overview of the annual MPIF State-of-the-Industry Report highlighting industry business conditions, technology trends, and markets for powder metallurgy and particulate materials will also be presented.

#### Keynote Presentation:

#### Afterburner: Flawless Execution

The conference keynote program will provide a high-energy multimedia presentation about how fighter pilots operate in a combat environment—and how we can apply those lessons to our businesses. Rare cockpit footage and computer graphics make for a presentation you will never forget. Afterburner, Inc., is a business consulting and human-capital placement firm specializing in strategic and operational planning and continuous improvement. The Afterburner Team will expose you to the Flawless Execution Cycle and provide basic tools to execute flawlessly.

(Attendance restrictions apply)



## THURSDAY, MAY 19 (continued)

9:45–11:15 a.m. (09.45–11.15)

### TECHNICAL SESSIONS:

Session 1: MIM I: Markets & Technology  
Session 2: Fatigue  
Session 3: Machinability Additives  
Session 4: Alternative Sintering Processes

9:45–11:15 a.m. (09.45–11.15)

### TUNGSTEN CONFERENCE:

T1: Chemical Processes  
T2: Hardmaterials I  
T3: Molybdenum Alloys & Composites

9:45–11:15 a.m. (09.45–11.15)

**MPIF Management Program:  
PM AND THE NEW AUTO INDUSTRY**  
(Open only to MPIF Members)

9:45 a.m.–Noon (09.45–12.00)

### EXHIBIT OPENS

The PM industry's largest marketplace for leading companies providing metal powders, processing equipment, and services.

9:45 a.m.–4:30 p.m. (09.45–16.30)

### SPECIAL INTEREST PROGRAM:

SIP 1: Magnet Materials & Applications, Parts 1 & 2

Noon–1:45 p.m. (12.00–13.45)

### INDUSTRY RECOGNITION LUNCHEON

Luncheon program will recognize recipients of several major industry awards and recognitions including:

- MPIF Distinguished Service to Powder Metallurgy Award
- APMI Fellow Award
- Howard I. Sanderow Outstanding Technical Paper Award
- Excellence in Metallography Award
- CPMT/Axel Madsen Conference Grants
- APMI Golf Tournament Winners

(Attendance is restricted to full-conference registrants and others as noted)

1:45–4:30 p.m. (13.45–16.30)

### EXHIBIT OPEN

**Cookie Break:** 1:45–2:30 p.m.  
Stop by the exhibit hall for an afternoon snack and see the latest in PM equipment, powder, products, and services.

3:00–4:30 p.m. (15.00–16.30)

### TECHNICAL SESSIONS:

Session 5: MIM II: Micromolding  
Session 6: Binder-Treated Premixes  
Session 7: High-Density Processing  
Session 8: Modeling of High-Temperature PM Processes

3:00–4:30 p.m. (15.00–16.30)

### TUNGSTEN CONFERENCE:

T4: Powder Production I  
T5: Processing I  
T6: Iridium & Rhenium Alloys

3:00–4:30 p.m. (15.00–16.30)

**MPIF Management Program:  
AFTERBURNER, INC.  
RAPID PLANNING WORKSHOP**  
(Open only to MPIF Members)

## FRIDAY, MAY 20

6:30–7:45 a.m. (06.30–07.45)

### Wake Up Walk 2:

#### San Francisco Earthquake

(See Special Events section for description)

7:00–8:00 a.m. (07.00–08.00)

### Speaker Prep for Friday Speakers

All speakers and session chairmen for today's technical sessions and special interest programs are required to meet in the Speakers' Lounge to receive final instructions and review information regarding presentations.

7:00 a.m.–5:00 p.m. (07.00–17.00)

### Registration

7:00 a.m.–5:00 p.m. (07.00–17.00)

### Poster Display

7:30–8:30 a.m. (07.30–08.30)

### Powder Metallurgy Equipment Association Board of Directors Meeting

(Attendance open to all PMPA Official Representatives or Alternates)

8:00–9:30 a.m. (08.00–09.30)

### Powder Metallurgy Parts Association Board of Directors Meeting

8:00–9:30 a.m. (08.00–09.30)

### TECHNICAL SESSIONS:

Session 9: MIM III: Hardenable Steels  
Session 10: Low-Alloy Steels I  
Session 11: Powder Production Technology  
Session 12: Advances in Titanium PM I

8:00–9:30 a.m. (08.00–09.30)

### TUNGSTEN CONFERENCE:

T7: Heavy Alloys I  
T8: Powder Production II  
T9: Reviews

8:00 a.m.–12:15 p.m. (08.00–12.15)

### SPECIAL INTEREST PROGRAM:

SIP 2: PM Materials for Alternative Energy, Parts 1 & 2

8:00 a.m.–12:15 p.m. (08.00–12.15)

### Pick PM End-User Program

A special program for customers of PM parts and products

(Attendance by invitation only—see page 11 for details.)

8:00 a.m.–5:00 p.m. (08.00–17.00)

### SPECIAL INTEREST PROGRAM:

SIP 3: Tribology, Parts 1, 2 & 3

9:30 a.m.–12:15 p.m. (09.30–12.15)

### EXHIBIT OPEN

**Coffee Break:** 9:30–10:45 a.m.  
Stop by the exhibit hall for a cup of coffee and see the latest in PM equipment, powder, products, and services.

10:00 a.m.–12:15 p.m. (10.00–12.15)

### Powder Metallurgy Parts Association Membership/Business Meeting

(Attendance is open only to PMPA Official Representatives or Alternates)

10:00 a.m.–3:00 p.m. (10.00–15.00)

### Tour B: Muir Woods & Sausalito

(See Special Events section for description)

10:45 a.m.–12:15 p.m. (10.45–12.15)

### TECHNICAL SESSIONS:

Session 13: MIM IV: Advanced Materials  
Session 14: Low-Alloy Steels II  
Session 15: Atomization  
Session 16: Advances in Titanium PM II

# Daily Schedule

FRIDAY, MAY 20 (continued)

10:45 a.m.–12:15 p.m. (10.45–12.15)  
**TUNGSTEN CONFERENCE:**  
T10: Tungsten I: W & Doped W  
T11: Hardmaterials II  
T12: Processing II

12:30–2:00 p.m. (12.30–14.00)  
**PM DESIGN EXCELLENCE AWARDS LUNCHEON**  
(Attendance restricted to full-conference registrants and others as noted.)



2:00–3:30 p.m. (14.00–15.30)  
**Poster Display—Authors Available**  
Authors will be available for discussion and consultation.

2:00–5:00 p.m. (14.00–17.00)  
**EXHIBIT OPEN**  
**Ice Cream Break:** 2:00–3:00 p.m.  
Stop by the exhibit hall for an afternoon snack and see the latest in PM equipment, powder, products, and services.

3:30–5:00 p.m. (15.30–17.00)  
**TECHNICAL SESSIONS:**  
Session 17: MIM V: Advanced Processing  
Session 18: Low-Alloy Steels III  
Session 19: Novel Powder Production  
Session 20: Advances in Titanium PM III: Near Net Shape Processing  
Session 21: Improvements in Spray Forming, Extrusion & Powder Forging  
Session 22: Materials for Automotive Applications

3:30–5:00 p.m. (15.30–17.00)  
**TUNGSTEN CONFERENCE:**  
T13: Plenary Session—State of the Tungsten & Cemented Carbide Industry in China

3:30–5:00 p.m. (15.30–17.00)  
**MPIF Management Program: PM TECHNOLOGY SCAN**  
(Open only to MPIF Members)

5:45–10:15 p.m. (17.45–22.15)

## MAIN SOCIAL EVENT: ESCAPE TO ALCATRAZ & SAN FRANCISCO BAY

Experience the mystery that is Alcatraz! To the likes of Al Capone, the Birdman and Machine Gun Kelly it was known simply as “The Rock.” Thought to be escape proof, Alcatraz was America’s premier maximum-security prison—the final stop for the nation’s most incorrigible inmates. Today, Alcatraz is a place of contradictions with a mysterious past and an enduring future as one of San Francisco’s most infamous landmarks. This evening, we will take over Alcatraz Island for an exclusive tour followed by a wonderful dinner cruise on San Francisco’s magnificent bay.

*(Dress is casual. Layered outerwear and comfortable walking shoes recommended as the weather on the island can be cool and unpredictable. This event requires walking on a steep incline. Contact MPIF in advance if you feel you require assistance. Attendance is restricted to full-conference registrants and others as noted.)*



# SATURDAY, MAY 21

6:30–7:45 a.m. (06.30–07.45)

## Wake Up Walk 3:

### Embarcadero & Ferry Building

(See Special Events section for description)

7:00–8:00 a.m. (07.00–08.00)

## Speaker Prep for Saturday Speakers

All speakers and session chairmen for today's technical sessions and special interest programs are required to meet in the Speakers' Lounge to receive final instructions and review information regarding presentations.

7:00 a.m.–1:00 p.m. (07.00–13.00)

## Registration

7:00 a.m.–1:00 p.m. (07.00–13.00)

## Poster Display

8:00–9:30 a.m. (08.00–09.30)



## Special Session:

### CENTER FOR POWDER METALLURGY TECHNOLOGY PROJECT UPDATE

(See separate listing for details)

8:00–9:30 a.m. (08.00–09.30)

## TECHNICAL SESSIONS:

Session 23: Operational Advances I

Session 24: High-Alloy Steels

Session 25: Sintering Furnace Control & Optimization

Session 26: Advances in Titanium PM IV: Biomedical Porous Structures

Session 27: Trends in Component Compacting & Measurement

8:00–9:30 a.m. (08.00–09.30)

## TUNGSTEN CONFERENCE:

T14: Tungsten II: Mechanical Properties

T15: Hardmaterials III: Characterization

T16: Nanograined Materials

8:00 a.m.–1:00 p.m. (08.00–13.00)

## SPECIAL INTEREST PROGRAM:

SIP 4: Sinter Hardening and Leaner/Economic Powders, Parts 1, 2, & 3

9:30–10:30 a.m. (09.30–10.30)

## Exhibit Council Meeting

9:45–11:15 a.m. (09.45–11.15)

## MPIF Management Program: COMBUSTIBLE DUST AND THE PM INDUSTRY

(Open only to MPIF Members)

9:45–11:15 a.m. (09.45–11.15)

## TECHNICAL SESSIONS:

Session 28: Operational Advances II

Session 29: Aluminum

Session 30: Composites I

Session 31: Advances in Titanium V: MIM 1

Session 32: Sintering Repeatability

9:45–11:15 a.m. (09.45–11.15)

## TUNGSTEN CONFERENCE:

T17: Processing III

T18: Graded & Nanocrystalline Materials

T19: Wear Behavior

11:30 a.m.–1:00 p.m. (11.30–13.00)

## MPIF Management Program: THE GROWTH INITIATIVE—GROWTH CULTURE IN YOUR ORGANIZATION

(Open only to MPIF Members)

11:30 a.m.–1:00 p.m. (11.30–13.00)

## TECHNICAL SESSIONS:

Session 33: Trends in PM

Session 34: Stainless Steel

Session 35: Composites II

Session 36: Advances in Titanium PM VI: MIM 2

Session 37: Predicting Variables in Compacts

11:30 a.m.–1:00 p.m. (11.30–13.00)

## TUNGSTEN CONFERENCE:

T20: Kinetics & Thermodynamics

T21: Tungsten III: W-Cu

T22: Tungsten IV: W & Mo Alloy

12:30–2:00 p.m. (12.30–14.00)

## MPIF Conference Committee Meeting

2:00–4:00 p.m. (14.00–16.00)

## Isostatic Pressing Association Membership Meeting

(Attendance is open only to IPA Official Representatives or Alternates)

2:00–6:30 p.m. (14.00–18.30)

## Tour C—Post-Conference Tour: Afternoon in Wine Country

(See Special Events section for details)

