

## TMS2014 Session List

### 2014 Functional Nanomaterials: Synthesis, Properties and Applications

Mon 02/17/2014	8:00 AM	<a href="#">Nanomanufacturing I</a>
Mon 02/17/2014	2:00 PM	<a href="#">Nanomanufacturing II &amp; Fabrication and Fundamentals I</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Fabrication and Fundamentals II &amp; Characterization and Properties I</a>
Tue 02/18/2014	2:00 PM	<a href="#">Characterization and Properties II &amp; Carbon Nanomaterials I</a>
Wed 02/19/2014	8:00 AM	<a href="#">Carbon Nanomaterials II &amp; Computational Studies on Nanomaterials</a>
Wed 02/19/2014	2:00 PM	<a href="#">Magnetic Nanomaterials</a>
Thu 02/20/2014	8:00 AM	<a href="#">Applications of Nanomaterials I</a>
Thu 02/20/2014	2:00 PM	<a href="#">Applications of Nanomaterials II &amp; Energy Nanomaterials</a>

### 2014 TMS RF Mehl Medal Symposium on Frontiers in Nanostructured Materials and Their Applications

Mon 02/17/2014	8:00 AM	<a href="#">Keynote Session on Nanomaterials, General Properties and Others</a>
Mon 02/17/2014	2:00 PM	<a href="#">Keynote Session on Nanomaterials and Applications</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Nanoceramics I--Nanostructured Ceramics-oxides and Thin Film Interfaces</a>
Tue 02/18/2014	2:00 PM	<a href="#">Nanomaterials I-Twinning and Interfacial Effects for Application</a>
Wed 02/19/2014	8:00 AM	<a href="#">Nanomaterials II-Processing and Strengthening Mechanisms</a>
Wed 02/19/2014	2:00 PM	<a href="#">Nanomaterials for Device Applications and Nanometal III-Deformation Mechanisms</a>
Thu 02/20/2014	8:00 AM	<a href="#">Nanomaterials for Energy Applications and Carbon Related Materials</a>

### 5th International Symposium on High Temperature Metallurgical Processing

Mon 02/17/2014	8:30 AM	<a href="#">High Efficiency New Metallurgical Technology</a>
Mon 02/17/2014	2:00 PM	<a href="#">Alloy and Materials Preparation</a>
Tue 02/18/2014	8:30 AM	<a href="#">Fundamental Research of Metallurgical Process</a>
Tue 02/18/2014	2:00 PM	<a href="#">Roasting, Reduction and Smelting</a>
Wed 02/19/2014	8:30 AM	<a href="#">Sintering of Ores and Powder</a>
Wed 02/19/2014	2:00 PM	<a href="#">Simulation and Modeling</a>
Thu 02/20/2014	8:30 AM	<a href="#">Treatment of Solid Slag/Wastes and Complex Ores</a>
Thu 02/20/2014	2:00 PM	<a href="#">Microwave Heating, Energy and Environment</a>

### A Lifetime of Experience with Titanium Alloys: An SMD Symposium in Honor of Jim Williams, Mike Loretto and Rod Boyer

Mon 02/17/2014	8:00 AM	<a href="#">Williams Honorary Session I: Processing Science</a>
Mon 02/17/2014	2:00 PM	<a href="#">Williams Honorary Session II: Fatigue I</a>
Tue 02/18/2014	8:00 AM	<a href="#">Loretto Honorary Session I: Phase Stability</a>
Tue 02/18/2014	2:00 PM	<a href="#">Loretto Honorary Session II: Fatigue II &amp; Advanced Fabrication</a>
Wed 02/19/2014	8:00 AM	<a href="#">Boyer Honorary Session I: Environmental Effects</a>
Wed 02/19/2014	2:00 PM	<a href="#">Boyer Honorary Session II: Structure/Property Correlations</a>
Thu 02/20/2014	8:00 AM	<a href="#">General Abstracts</a>

### Accelerated Materials Evaluation for Nuclear Application Utilizing Test Reactors, Ion Beam Facilities and Modeling

Mon 02/17/2014	8:00 AM	<a href="#">Ion beam irradiation</a>
Mon 02/17/2014	2:00 PM	<a href="#">Ion Beam Irradiation and Advanced Characterization Techniques</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Simulation and Modeling</a>
Tue 02/18/2014	2:00 PM	<a href="#">In-situ TEM and Materials Testing Environmental Interactions and Programmatic Aspects</a>
Wed 02/19/2014	8:30 AM	<a href="#">Irradiation Studies in Reactors</a>
Wed 02/19/2014	2:00 PM	<a href="#">Fuels</a>

#### [Advanced Characterization Techniques for Quantifying and Modeling Deformation Mechanisms](#)

Mon 02/17/2014	8:00 AM	<a href="#">Characterization of Strain</a>
Mon 02/17/2014	2:00 PM	<a href="#">Dislocations and Plasticity</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Strain and Plasticity</a>
Tue 02/18/2014	2:00 PM	<a href="#">Advanced Materials and HCP Metals</a>
Wed 02/19/2014	8:00 AM	<a href="#">Strain and Plasticity II</a>

#### [Advanced Composites for Aerospace, Marine, and Land Applications](#)

Mon 02/17/2014	8:00 AM	<a href="#">Processing and Design of Composites</a>
Mon 02/17/2014	2:00 PM	<a href="#">Characterization of Composite Microstructures and Phases</a>
Tue 02/18/2014	8:00 AM	<a href="#">Mechanical and Material Property Evaluation</a>
Tue 02/18/2014	2:00 PM	<a href="#">Interface and Bonding of Composite Systems</a>

#### [Advanced Materials for Power Electronics, Power Conditioning, and Power Conversion II](#)

Mon 02/17/2014	8:00 AM	<a href="#">Advanced Materials for Power Electronics, Power Conversion, and Power Conditioning</a>
Mon 02/17/2014	2:00 PM	<a href="#">Capacitor and Dielectric Materials</a>
Tue 02/18/2014	8:00 AM	<a href="#">Wide Bandgap Semiconductors Materials Growth and Characterization</a>
Tue 02/18/2014	2:00 PM	<a href="#">Wide Bandgap Semiconductors Device Processing and Characterization</a>

#### [Advanced Materials in Dental and Orthopedic Applications](#)

Mon 02/17/2014	2:00 PM	<a href="#">Next Generation Biomaterials for Prosthodontics and Orthopedics</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	2:00 PM	<a href="#">Physical and Mechanical Properties of Orthopedic/Dental Materials</a>
Wed 02/19/2014	2:00 PM	<a href="#">Corrosion and Tribocorrosion Behavior of Orthopedic/Dental Materials</a>
Thu 02/20/2014	8:30 AM	<a href="#">Bone/Dental Implants with Enhanced Biomedical Performance</a>
Thu 02/20/2014	2:00 PM	<a href="#">Dental and Orthopedic Composites</a>

#### [Advances in Surface Engineering: Alloyed and Composite Coatings III](#)

Mon 02/17/2014	8:00 AM	<a href="#">Mechanical, Wear, and Corrosion Properties of Coatings</a>
Mon 02/17/2014	2:00 PM	<a href="#">Laser Processing, Thermal Spraying, and Friction Stir Processing of Coatings</a>
Tue 02/18/2014	8:00 AM	<a href="#">High Temperature Coatings</a>
Tue 02/18/2014	2:00 PM	<a href="#">Electrochemical and Low Temperature Processing of Coatings</a>
Wed 02/19/2014	8:00 AM	<a href="#">Joint Session I: Recent Developments in Biological, Electronic, and Functional Thin Films and Coatings</a>
Wed 02/19/2014	2:00 PM	<a href="#">Joint Session II: Recent Developments in Biological, Electronic, and Functional Thin Films and Coatings</a>

#### [Algorithm Development in Computational Materials Science and Engineering](#)

Mon 02/17/2014	8:00 AM	<a href="#">Algorithms for Lower Length Scale Modeling: Ab Initio, Atomistics and Materials Chemistry: Part I</a>
Mon 02/17/2014	2:00 PM	<a href="#">Algorithms for Lower Length Scale Modeling: Ab Initio, Atomistics and Materials Chemistry: Part II</a>

Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Towards Higher Length Scales: Mesoscale Modeling and Scale Bridging: Part I</a>
Tue 02/18/2014	2:00 PM	<a href="#">Towards Higher Length Scales: Mesoscale Modeling and Scale Bridging: Part II</a>
Wed 02/19/2014	8:00 AM	<a href="#">Algorithms for General Materials Modeling and Integrating Experiments: Part I</a>
Wed 02/19/2014	2:00 PM	<a href="#">Algorithms for General Materials Modeling and Integrating Experiments: Part II</a>
<a href="#">Alloys and Compounds for Thermoelectric and Solar Cell Applications II</a>		
Wed 02/19/2014	8:00 AM	<a href="#">Alloys and Compounds for Thermoelectric and Solar Cell Applications: Thermoelectric I</a>
Wed 02/19/2014	2:00 PM	<a href="#">Alloys and Compounds for Thermoelectric and Solar Cell Applications: Thermoelectric II</a>
Thu 02/20/2014	8:00 AM	<a href="#">Alloys and Compounds for Thermoelectric and Solar Cell Applications: Thermoelectric III</a>
<a href="#">Alumina and Bauxite</a>		
Mon 02/17/2014	2:00 PM	<a href="#">Bayer Process/Quality</a>
Tue 02/18/2014	8:30 AM	<a href="#">Process Control</a>
Tue 02/18/2014	2:00 PM	<a href="#">Cost Reduction/Alumina Recovery</a>
Wed 02/19/2014	8:30 AM	<a href="#">Non-bayer Process</a>
Wed 02/19/2014	2:00 PM	<a href="#">Waste Recovery</a>
<a href="#">Aluminum Alloys: Development, Characterization and Applications</a>		
Mon 02/17/2014	2:00 PM	<a href="#">Development and Application</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Processing, Texture and Formability</a>
Tue 02/18/2014	2:00 PM	<a href="#">Solutioning and Aging Behavior</a>
Wed 02/19/2014	8:30 AM	<a href="#">Corrosion and Fatigue</a>
Wed 02/19/2014	2:00 PM	<a href="#">Material Characterization and Modeling</a>
Thu 02/20/2014	8:30 AM	<a href="#">Emerging Technologies</a>
<a href="#">Aluminum Processing</a>		
Mon 02/17/2014	2:00 PM	<a href="#">Aluminum Processing: Rolling &amp; Twin-Roll Casting</a>
Tue 02/18/2014	8:30 AM	<a href="#">Aluminum Processing: Extrusion &amp; Miscellaneous Processes</a>
<a href="#">Aluminum Reduction Technology</a>		
Mon 02/17/2014	2:00 PM	<a href="#">Potline Operations - Cell Operations</a>
Mon 02/17/2014	2:00 PM	<a href="#">Cell Design and Performance</a>
Tue 02/18/2014	8:30 AM	<a href="#">Cell Design and Performance - Cathodes and Anodes Joint Session with Electrode Technology</a>
Tue 02/18/2014	2:00 PM	<a href="#">Environment I</a>
Tue 02/18/2014	2:00 PM	<a href="#">Fundamentals - Chemistry</a>
Wed 02/19/2014	8:30 AM	<a href="#">Environment II</a>
Wed 02/19/2014	8:30 AM	<a href="#">Fundamentals - Modelling</a>
Wed 02/19/2014	2:00 PM	<a href="#">Potline Operations- Equipment</a>
Wed 02/19/2014	2:00 PM	<a href="#">Fundamentals - Electrochemistry and New Processes</a>
Thu 02/20/2014	2:00 PM	<a href="#">Potline Operations- Control</a>
<a href="#">Biological Materials Science Symposium</a>		
Mon 02/17/2014	8:00 AM	<a href="#">Mechanical Behavior of Biological Materials I: Bone and Teeth (In Honor of Professor Robert O. Ritchie, the</a>
Mon 02/17/2014	2:00 PM	<a href="#">Mechanical Behavior of Biological Materials II: Natural Materials</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>

Tue 02/18/2014	8:00 AM	<a href="#">Multi-scale Characterization and Modeling of Biological Materials (Joint session with Characterization of Mi</a>
Wed 02/19/2014	8:30 AM	<a href="#">Bio-mimetic and Bio-inspired Materials Synthesis</a>
Wed 02/19/2014	2:00 PM	<a href="#">Multi-functional Surfaces and Interfaces (Joint session with Characterization of Minerals, Metals and Mater</a>
Thu 02/20/2014	8:00 AM	<a href="#">Molecular, Cellular and Tissue Engineering</a>
Thu 02/20/2014	2:00 PM	<a href="#">Biomedical Materials, Implants and Applications</a>
<a href="#">Bulk Metallic Glasses XI</a>		
Mon 02/17/2014	8:00 AM	<a href="#">Alloy Development and Applications I</a>
Mon 02/17/2014	2:00 PM	<a href="#">Structures and Mechanical Properties I</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Structures and Mechanical Properties II</a>
Tue 02/18/2014	2:00 PM	<a href="#">Fatigue and Other Properties</a>
Wed 02/19/2014	8:30 AM	<a href="#">Alloy Development and Applications II</a>
Wed 02/19/2014	2:00 PM	<a href="#">Simulation and Modeling</a>
Thu 02/20/2014	8:00 AM	<a href="#">Structures and Mechanical Properties III</a>
Thu 02/20/2014	8:00 AM	<a href="#">Structure and Modeling</a>
Thu 02/20/2014	2:00 PM	<a href="#">Mechanical and other Properties</a>
<a href="#">Cast Shop for Aluminum Production</a>		
Mon 02/17/2014	2:00 PM	<a href="#">Macrosegregation and DC Casting</a>
Tue 02/18/2014	8:30 AM	<a href="#">Recycling/Cast Shop</a>
Tue 02/18/2014	2:00 PM	<a href="#">Grain Refinement/Solidification</a>
Wed 02/19/2014	8:30 AM	<a href="#">Metal Treatment</a>
Wed 02/19/2014	2:00 PM	<a href="#">Furnaces and Energy</a>
Thu 02/20/2014	8:30 AM	<a href="#">General Cast Shop</a>
<a href="#">Celebrating the Megascale: An EPD Symposium in Honor of David G.C.Robertson</a>		
Mon 02/17/2014	8:30 AM	<a href="#">Keynote Session</a>
Mon 02/17/2014	2:00 PM	<a href="#">Ferro-Alloys</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Non-Ferrous Smelting, Converting, and Refining</a>
Tue 02/18/2014	2:00 PM	<a href="#">Iron and Steel Production</a>
Wed 02/19/2014	8:30 AM	<a href="#">Process Modeling and Simulation</a>
Wed 02/19/2014	2:00 PM	<a href="#">Metallurgical Education</a>
Thu 02/20/2014	8:30 AM	<a href="#">Pyrometallurgy Process Fundamentals I</a>
Thu 02/20/2014	2:00 PM	<a href="#">Pyrometallurgy Process Fundamentals II</a>
Thu 02/20/2014	2:00 PM	<a href="#">Pyrometallurgy Process Fundamentals III</a>
<a href="#">Characterization of Minerals, Metals and Materials 2014</a>		
Mon 02/17/2014	8:30 AM	<a href="#">Characterization of Ceramics and Clays</a>
Mon 02/17/2014	2:00 PM	<a href="#">Characterization of Composites</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Characterization of Environmental Materials</a>
Tue 02/18/2014	2:00 PM	<a href="#">Characterization of Non Ferrous Metals</a>
Wed 02/19/2014	8:30 AM	<a href="#">Characterization of Ferrous Metals</a>

Wed 02/19/2014	2:00 PM	<a href="#">Characterization of Material Processing</a>
Thu 02/20/2014	8:30 AM	<a href="#">Characterization in Material Extraction</a>
Thu 02/20/2014	8:30 AM	<a href="#">Characterization of Soft Materials I</a>
Thu 02/20/2014	2:00 PM	<a href="#">Characterization of Minerals</a>
Thu 02/20/2014	2:00 PM	<a href="#">Method Development in Characterization</a>
Thu 02/20/2014	2:00 PM	<a href="#">Characterization of Soft Materials II</a>

#### [Computational Discovery of Novel Materials](#)

Wed 02/19/2014	2:00 PM	<a href="#">Methodologies and Application for Materials Discovery</a>
Thu 02/20/2014	8:00 AM	<a href="#">Physical Properties of New Materials</a>
Thu 02/20/2014	2:00 PM	<a href="#">Optimization, Validation, and Application of Empirical Potentials</a>

#### [Computational Modeling and Simulation of Advanced Materials for Energy Applications](#)

Mon 02/17/2014	8:00 AM	<a href="#">Starting from Quantum Mechanics</a>
Mon 02/17/2014	2:00 PM	<a href="#">Quantum to Atomistic Simulations</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">MGI, ICME and Education</a>
Tue 02/18/2014	2:00 PM	<a href="#">Continuum Modeling and Beyond</a>

#### [Computational Thermodynamics and Kinetics](#)

Mon 02/17/2014	8:00 AM	<a href="#">In Honor of Dr. Mark Asta, EMPMD Outstanding Scientist: Session I</a>
Mon 02/17/2014	2:00 PM	<a href="#">In Honor of Dr. Mark Asta, EMPMD Outstanding Scientist: Session II</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Thermodynamics and Kinetics</a>
Tue 02/18/2014	2:00 PM	<a href="#">First-principles Calculations</a>
Wed 02/19/2014	8:00 AM	<a href="#">Phase-field Simulations</a>
Wed 02/19/2014	2:00 PM	<a href="#">Phase-field Simulations/Molecular Dynamics</a>
Thu 02/20/2014	8:00 AM	<a href="#">Plasticity/Alloy/Grain Growth/Grain Boundary Properties</a>
Thu 02/20/2014	2:00 PM	<a href="#">Battery/Oxides/Steel/Alloy</a>

#### [Data Analytics for Materials Science and Manufacturing](#)

Mon 02/17/2014	8:30 AM	<a href="#">The Business of Data Analytics</a>
Tue 02/18/2014	8:30 AM	<a href="#">Emerging Big Data Opportunities in Materials Science</a>
Tue 02/18/2014	2:00 PM	<a href="#">Inverse and Forward Modeling</a>
Wed 02/19/2014	2:00 PM	<a href="#">Inverse Methods II; Reduced Order Modeling</a>
Thu 02/20/2014	8:30 AM	<a href="#">Topology, Graph Theory, and Data Fusion</a>
Thu 02/20/2014	2:00 PM	<a href="#">Microstructure Quantification</a>

#### [Deformation, Damage, and Fracture of Light Metals and Alloys III](#)

Mon 02/17/2014	2:00 PM	<a href="#">Al Alloys</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Mg Alloys</a>
Tue 02/18/2014	2:00 PM	<a href="#">Al-Mg and other alloys</a>
Wed 02/19/2014	8:30 AM	<a href="#">Modelings</a>
Wed 02/19/2014	2:00 PM	<a href="#">Ti Alloys</a>

#### [Dynamic Behavior of Materials VI – An SMD Symposium in Honor of Professor Marc Meyers](#)

Mon 02/17/2014	8:00 AM	<a href="#">Shock-Compression of Materials</a>
Mon 02/17/2014	2:00 PM	<a href="#">High-Strain-Rate Effects in Heterogeneous Materials</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Simulations and Modeling of Phase Transformations and Reactions</a>
Tue 02/18/2014	2:00 PM	<a href="#">High Strain Rate Effects on Shear Localization</a>
Wed 02/19/2014	8:00 AM	<a href="#">Shock-Induced Deformation and Failure</a>
Wed 02/19/2014	2:00 PM	<a href="#">High-Strain-Rate Deformation Mechanisms</a>
Thu 02/20/2014	8:00 AM	<a href="#">Heterogeneous and Brittle Materials</a>
Thu 02/20/2014	2:00 PM	<a href="#">Mechanical Properties</a>

#### [Electrode Technology for Aluminium Production](#)

Mon 02/17/2014	4:25 PM	<a href="#">Anode Raw Materials</a>
Tue 02/18/2014	8:30 AM	<a href="#">Paste Plant Operations</a>
Tue 02/18/2014	2:00 PM	<a href="#">Bake Furnace Design and Operation</a>
Wed 02/19/2014	8:30 AM	<a href="#">Anode Quality and Performance</a>
Wed 02/19/2014	2:00 PM	<a href="#">Cathode Materials and Wear</a>
Thu 02/20/2014	8:30 AM	<a href="#">Rodding Operation and Anode Electrical Connections</a>
Thu 02/20/2014	2:00 PM	<a href="#">Inert Anodes, Cathode Design and Alternative Processes</a>

#### [Energy Technologies and Carbon Dioxide Management](#)

Mon 02/17/2014	8:30 AM	<a href="#">Alternative Green Processes</a>
Mon 02/17/2014	2:00 PM	<a href="#">Energy in Iron and Steel</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Carbon Dioxide Management</a>
Tue 02/18/2014	2:00 PM	<a href="#">Novel Technologies and Life Cycle Assessment</a>
Wed 02/19/2014	8:30 AM	<a href="#">Energy Efficiency and Furnace Technologies</a>

#### [Fatigue in Materials: Fundamentals, Multiscale Modeling and Prevention](#)

Mon 02/17/2014	8:00 AM	<a href="#">Emerging Technologies for Data-driven Fatigue Descriptions</a>
Mon 02/17/2014	2:00 PM	<a href="#">Microstructure-sensitive and Multiscale Modeling of Fatigue</a>
Tue 02/18/2014	8:00 AM	<a href="#">Microstructure-properties-fatigue Relationships</a>
Tue 02/18/2014	2:00 PM	<a href="#">Characterization and Modeling of Fatigue Crack Initiation and Growth</a>
Wed 02/19/2014	8:00 AM	<a href="#">Fatigue Investigations of Novel Materials</a>
Wed 02/19/2014	2:00 PM	<a href="#">Design Against Fatigue and Fatigue Property Enhancement</a>
Thu 02/20/2014	2:00 PM	<a href="#">Environmental-temperature Effects on Fatigue and Life Prediction</a>

#### [Fluidization Technologies for the Mineral, Materials, and Energy Industries](#)

Mon 02/17/2014	8:30 AM	<a href="#">Fluidization Technologies for the Mineral, Materials, and Energy Industries</a>
----------------	---------	---

#### [Gamma TiAl Alloys 2014](#)

Mon 02/17/2014	8:00 AM	<a href="#">Session I</a>
Mon 02/17/2014	2:00 PM	<a href="#">Session II</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Session III</a>
Tue 02/18/2014	2:00 PM	<a href="#">Session IV</a>
Wed 02/19/2014	8:00 AM	<a href="#">Session V</a>

Wed 02/19/2014	2:00 PM	<a href="#">Session VI</a>
Thu 02/20/2014	8:00 AM	<a href="#">Session VII</a>
Thu 02/20/2014	2:00 PM	<a href="#">Session VIII - Panel Discussion</a>

#### [General Recycling](#)

Mon 02/17/2014	6:30 PM	<a href="#">General Recycling Poster Session</a>
----------------	---------	--

#### [High-temperature Gamma \(f.c.c.\) /Gamma-Prime \(L12 structure\) Co-Al-W Based Superalloys](#)

Mon 02/17/2014	8:00 AM	<a href="#">Diffusion Behavior and Phase Equilibria</a>
Mon 02/17/2014	2:00 PM	<a href="#">Oxidation and Alloying Effects on Mechanical Behavior</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Processing, Deformation and Interfaces</a>
Tue 02/18/2014	2:00 PM	<a href="#">Defects and Microstructural Evolution</a>

#### [High-temperature Material Systems for Energy Conversion and Storage](#)

Mon 02/17/2014	8:30 AM	<a href="#">High Temperature Separation Membranes &amp; Energy Conversion Materials</a>
Mon 02/17/2014	2:00 PM	<a href="#">Solid Oxide Fuel Cells I</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Solid Oxide Fuel Cells II</a>

#### [Hume-Rothery Award Symposium: Thermodynamics and Kinetics of Engineering Materials](#)

Mon 02/17/2014	8:00 AM	<a href="#">Thermodynamic Modeling and Phase Diagrams</a>
Mon 02/17/2014	2:00 PM	<a href="#">Thermodynamic and Kinetic Modeling and Experiments</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Light Alloy Systems</a>
Tue 02/18/2014	2:00 PM	<a href="#">Iron-base Systems</a>
Wed 02/19/2014	8:00 AM	<a href="#">Materials Systems for Energy</a>

#### [ICME: Linking Microstructure to Structural Design Requirements](#)

Mon 02/17/2014	8:00 AM	<a href="#">ICME: Linking Microstructure to Structural Design Requirements I</a>
Mon 02/17/2014	2:00 PM	<a href="#">ICME: Linking Microstructure to Structural Design Requirements II</a>
Tue 02/18/2014	8:00 AM	<a href="#">ICME: Linking Microstructure to Structural Design Requirements III</a>
Tue 02/18/2014	2:00 PM	<a href="#">ICME: Linking Microstructure to Structural Design Requirements IV</a>
Wed 02/19/2014	8:00 AM	<a href="#">ICME: Linking Microstructure to Structural Design Requirements- V</a>

#### [Integration of Materials Science and Nondestructive Evaluation for Materials Characterization](#)

Wed 02/19/2014	2:00 PM	<a href="#">Quantitative Nondestructive Characterization I</a>
Thu 02/20/2014	8:00 AM	<a href="#">Quantitative Nondestructive Characterization II: Titanium Alloys</a>
Thu 02/20/2014	2:00 PM	<a href="#">Quantitative Nondestructive Characterization III</a>

#### [Length Scaling of Lamellar and Patterned Microstructures During Solid-Solid Phase Transformations and Solidification](#)

Mon 02/17/2014	8:30 AM	<a href="#">Nucleation and Crystallographic Effects</a>
Tue 02/18/2014	8:30 AM	<a href="#">Dendrites</a>
Wed 02/19/2014	8:30 AM	<a href="#">Eutectics</a>
Thu 02/20/2014	8:30 AM	<a href="#">Growth Kinetics and Precipitate Morphology</a>

#### [Light-metal Matrix \(Nano\)-composites](#)

Mon 02/17/2014	2:00 PM	<a href="#">Microstructure-Property Relationships I</a>
Tue 02/18/2014	8:30 AM	<a href="#">Microstructure-Property Relationships II: Modeling and Advanced Characterization</a>

Tue 02/18/2014	2:00 PM	<a href="#">Emerging Processes</a>
Wed 02/19/2014	2:00 PM	<a href="#">In-situ Synthesis and Novel Additions</a>
<a href="#">Long-term Stability of High Temperature Materials</a>		
Mon 02/17/2014	8:00 AM	<a href="#">Phase Changes in Bulk Material</a>
Mon 02/17/2014	2:00 PM	<a href="#">Phase Changes in Bulk Material II and Surface Degradation</a>
Tue 02/18/2014	8:00 AM	<a href="#">Surface Degradation II and Exposure Effects on Mechanical Behavior</a>
<a href="#">Magnesium Technology 2014</a>		
Mon 02/17/2014	8:00 AM	<a href="#">Keynote Session</a>
Mon 02/17/2014	2:00 PM	<a href="#">Powders, Recycling, Hydrometallurgy, Primary Production, and Creep</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Deformation I</a>
Tue 02/18/2014	2:00 PM	<a href="#">Deformation II</a>
Wed 02/19/2014	8:00 AM	<a href="#">Melting, Modelling, and Solidification</a>
Wed 02/19/2014	2:00 PM	<a href="#">Texture and Wrought Processing I</a>
Thu 02/20/2014	8:00 AM	<a href="#">Wrought Processing II and Joining</a>
Thu 02/20/2014	8:30 AM	<a href="#">Corrosion and Coatings</a>
Thu 02/20/2014	2:00 PM	<a href="#">Biomedical Applications</a>
Thu 02/20/2014	2:00 PM	<a href="#">Alloy Design</a>
<a href="#">Magnetic Materials for Energy Applications IV</a>		
Mon 02/17/2014	2:00 PM	<a href="#">Rare Earth Permanent Magnets: Processing, Characterization and Modeling</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Rare Earth Free Permanent Magnets</a>
Tue 02/18/2014	2:00 PM	<a href="#">Fundamentals of the Magnetocaloric Effect and Current Status of Magnetic Cooling Technology</a>
Wed 02/19/2014	8:30 AM	<a href="#">Magnetocaloric Materials</a>
Wed 02/19/2014	2:00 PM	<a href="#">High Performance Soft Magnets I (shared session with Advanced Materials for Power Electronics, Power Co</a>
Thu 02/20/2014	8:30 AM	<a href="#">High Performance Soft Magnets II (shared session with Advanced Materials for Power Electronics, Power Co</a>
<a href="#">Materials and Fuels for the Current and Advanced Nuclear Reactors III</a>		
Mon 02/17/2014	8:00 AM	<a href="#">Fuels I</a>
Mon 02/17/2014	2:00 PM	<a href="#">Fuels II</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster</a>
Tue 02/18/2014	8:30 AM	<a href="#">Structural Materials I</a>
Tue 02/18/2014	2:00 PM	<a href="#">Structural Materials II</a>
Wed 02/19/2014	8:30 AM	<a href="#">Structural Materials III</a>
Thu 02/20/2014	8:30 AM	<a href="#">Structural Materials IV</a>
Thu 02/20/2014	2:00 PM	<a href="#">Modeling</a>
Thu 02/20/2014	2:00 PM	<a href="#">General</a>
<a href="#">Materials Aspects of Corrosion and Fouling in Oil Refining and Exploration</a>		
Wed 02/19/2014	8:00 AM	<a href="#">Session I</a>
Wed 02/19/2014	2:00 PM	<a href="#">Session II</a>
Thu 02/20/2014	8:00 AM	<a href="#">Session III</a>
<a href="#">Materials for High-temperature Applications: Next Generation Superalloys and Beyond</a>		



Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Next Generation High-Temperature Materials</a>
Tue 02/18/2014	2:00 PM	<a href="#">Nb- and Ni-Based Alloys</a>
Wed 02/19/2014	8:00 AM	<a href="#">Mo- and Ni-Based Alloys</a>
Wed 02/19/2014	2:00 PM	<a href="#">Superalloys</a>
Thu 02/20/2014	8:00 AM	<a href="#">Oxidation and Coatings</a>
Thu 02/20/2014	2:00 PM	<a href="#">Emerging Materials</a>

#### [Materials Processing Fundamentals](#)

Mon 02/17/2014	8:00 AM	<a href="#">Thermodynamic</a>
Mon 02/17/2014	2:00 PM	<a href="#">Process &amp; Properties Control</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Metal Extraction</a>
Tue 02/18/2014	2:00 PM	<a href="#">TWIP/Steelmaking</a>

#### [Mechanical Behavior at the Nanoscale II](#)

Mon 02/17/2014	8:00 AM	<a href="#">In Situ Nanomechanical Testing</a>
Mon 02/17/2014	2:00 PM	<a href="#">Nanostructured Materials</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Size and Rate Effects</a>
Tue 02/18/2014	2:00 PM	<a href="#">Multiscale Modeling</a>
Wed 02/19/2014	8:00 AM	<a href="#">Nanostructured Composites and Glasses</a>
Wed 02/19/2014	2:00 PM	<a href="#">Micro/Nano-crystalline Materials</a>
Thu 02/20/2014	8:00 AM	<a href="#">Fatigue and Nanoindentation</a>
Thu 02/20/2014	2:00 PM	<a href="#">Length Scale Effects</a>

#### [Mechanical Behavior Related to Interface Physics II](#)

Mon 02/17/2014	2:00 PM	<a href="#">Interfacial Effects on Fracture and In situ Straining</a>
Tue 02/18/2014	2:00 PM	<a href="#">Interfacial Effects on Radiation Tolerance and Chemical Stability</a>
Wed 02/19/2014	8:30 AM	<a href="#">Twinning Effects on Mechanical Deformation</a>
Wed 02/19/2014	2:00 PM	<a href="#">Grain Boundary Effects on Mechanical Deformation</a>
Thu 02/20/2014	8:30 AM	<a href="#">Biphase Boundary Effects on Mechanical Response of Composites I</a>
Thu 02/20/2014	2:00 PM	<a href="#">Biphase Boundary Effects on Mechanical Response of Composites II</a>
Thu 02/20/2014	2:00 PM	<a href="#">Biphase Boundary Effects on Mechanical Response of Composites III</a>

#### [Multiscale Approaches to Hydrogen-assisted Degradation of Metals](#)

Mon 02/17/2014	8:30 AM	<a href="#">Overview of Key Issues &amp; Research Directions</a>
Tue 02/18/2014	8:30 AM	<a href="#">Experimental Characterisation of H-assisted Damage</a>
Wed 02/19/2014	8:30 AM	<a href="#">Atomistic Modelling of H-microstructure Interactions</a>
Wed 02/19/2014	2:00 PM	<a href="#">Meso &amp; Macro-scale Modelling of H-microstructure Interactions</a>
Thu 02/20/2014	8:30 AM	<a href="#">Overcoming HE in Service I / H Diffusion &amp; Trapping</a>
Thu 02/20/2014	2:00 PM	<a href="#">Overcoming HE in Service II</a>

#### [Multiscale Perspectives on Plasticity in HCP Metals](#)

Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Wed 02/19/2014	2:00 PM	<a href="#">Mechanisms &amp; Microstructures I</a>

Thu 02/20/2014	8:00 AM	<a href="#">Mechanisms &amp; Microstructures II</a>
Thu 02/20/2014	2:00 PM	<a href="#">Multiscale Modeling</a>
<a href="#">Nanoparticulate Materials: Production, Consolidation and Characterization</a>		
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	2:00 PM	<a href="#">Consolidation I: Field Assisted Sintering</a>
Wed 02/19/2014	8:30 AM	<a href="#">Consolidation II: Field Assisted Sintering</a>
Wed 02/19/2014	2:00 PM	<a href="#">Consolidation III: Novel Consolidation Techniques</a>
Thu 02/20/2014	8:30 AM	<a href="#">Particle Synthesis</a>
Thu 02/20/2014	2:00 PM	<a href="#">Novel Synthesis, Processing and Characterization</a>
<a href="#">Nanostructured Materials for Rechargeable Batteries and Supercapacitors II</a>		
Mon 02/17/2014	8:00 AM	<a href="#">Session I</a>
Mon 02/17/2014	2:00 PM	<a href="#">Session II</a>
Tue 02/18/2014	8:00 AM	<a href="#">Session III</a>
Tue 02/18/2014	2:00 PM	<a href="#">Session IV</a>
Wed 02/19/2014	8:00 AM	<a href="#">Session V</a>
Wed 02/19/2014	2:00 PM	<a href="#">Session VI</a>
Thu 02/20/2014	8:00 AM	<a href="#">Session VII</a>
Thu 02/20/2014	2:00 PM	<a href="#">Session VIII</a>
<a href="#">Neutron and X-ray Studies of Advanced Materials VII: Challenges of the Future World</a>		
Mon 02/17/2014	8:00 AM	<a href="#">Diffraction Centennial - Historic Perspective and Future Challenges</a>
Mon 02/17/2014	2:00 PM	<a href="#">Complex Materials</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Advanced Structural Mapping</a>
Tue 02/18/2014	2:00 PM	<a href="#">Stressed Materials</a>
Wed 02/19/2014	8:00 AM	<a href="#">Multi-Modal Monitoring of Structure Evolution</a>
Wed 02/19/2014	2:00 PM	<a href="#">Static and Dynamic Displacements</a>
Thu 02/20/2014	8:00 AM	<a href="#">Plasticity and Deformation</a>
<a href="#">Pb-free Solders and Emerging Interconnect and Packaging Materials</a>		
Mon 02/17/2014	8:30 AM	<a href="#">High Temperature Environments</a>
Mon 02/17/2014	2:00 PM	<a href="#">Alloying Additions</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Issues in 3-D Packages</a>
Tue 02/18/2014	2:00 PM	<a href="#">Electromigration and Flexible Packages</a>
Wed 02/19/2014	8:30 AM	<a href="#">Characterization and Assessment</a>
Wed 02/19/2014	2:00 PM	<a href="#">Interfacial Reactions and Fatigue</a>
Thu 02/20/2014	8:30 AM	<a href="#">Whiskering and Substrate Effects</a>
Thu 02/20/2014	2:00 PM	<a href="#">Microstructure Evolutions</a>
<a href="#">Phase Stability, Phase Transformations, and Reactive Phase Formation in Electronic Materials XIII</a>		
Mon 02/17/2014	8:00 AM	<a href="#">Interfacial Reactions of the Pb-free Solder Joints</a>
Mon 02/17/2014	2:00 PM	<a href="#">Phase Equilibria and Transformations of the Pb-free Solders and Energy Materials</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>

Tue 02/18/2014	2:00 PM	<a href="#">Microelectronics Reliability I</a>
Wed 02/19/2014	2:00 PM	<a href="#">General Issues in Microelectronics and Energy Materials</a>
Thu 02/20/2014	2:00 PM	<a href="#">Microelectronics Reliability II</a>
<a href="#">Phase Transformation and Microstructural Evolution</a>		
Mon 02/17/2014	8:30 AM	<a href="#">Carbon Redistribution in Steels I</a>
Mon 02/17/2014	2:00 PM	<a href="#">Fundamentals of Diffusion in Transformations in Steels</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Carbon Redistribution in Steels II</a>
Tue 02/18/2014	2:00 PM	<a href="#">Multi-Scale Modeling of Phase Transformations in Steels</a>
Wed 02/19/2014	8:30 AM	<a href="#">Alloying, Grain Refinement, and Microstructural Evolution in Steels</a>
Wed 02/19/2014	2:00 PM	<a href="#">Processing and Microstructural Evolution I</a>
Thu 02/20/2014	8:30 AM	<a href="#">Processing and Microstructural Evolution II</a>
Thu 02/20/2014	8:30 AM	<a href="#">Martensitic Phase Transformations and Functional Materials</a>
Thu 02/20/2014	8:30 AM	<a href="#">Phase Transformations Induced by Irradiation I</a>
Thu 02/20/2014	2:00 PM	<a href="#">Phase Transformations Induced by Irradiation II</a>
Thu 02/20/2014	2:00 PM	<a href="#">Processing and Microstructural Evolution III</a>
<a href="#">Progress Towards Rational Materials Design in the Three Decades Since the Invention of the Embedded Atom Method: An MPMD Symposium in Honor of Dr. Michael</a>		
Mon 02/17/2014	8:00 AM	<a href="#">Recent Advances in Interatomic Potentials</a>
Mon 02/17/2014	2:00 PM	<a href="#">Interatomic Potentials and Applications</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:00 AM	<a href="#">Advances in Atomistic Simulations - I</a>
Tue 02/18/2014	2:00 PM	<a href="#">Advances in Atomistic Simulations - II</a>
Wed 02/19/2014	8:00 AM	<a href="#">Advances in Atomistic Simulations - III</a>
<a href="#">Radiation Effects in Oxide Ceramics and Novel LWR Fuels</a>		
Wed 02/19/2014	8:00 AM	<a href="#">Experimental Characterization of Radiation Effects in Oxide Ceramics</a>
Wed 02/19/2014	2:00 PM	<a href="#">Multi-scale Modeling of Radiation-induced Microstructure Evolution in Oxide Ceramics</a>
Thu 02/20/2014	8:00 AM	<a href="#">Effects of Radiation on Thermal and Mechanical Properties of Ceramic Oxide Fuels</a>
Thu 02/20/2014	2:00 PM	<a href="#">Novel Fuels, Pellet-cladding Interaction, and Modeling</a>
<a href="#">Rare Metal Extraction &amp; Processing Symposium</a>		
Mon 02/17/2014	8:30 AM	<a href="#">Metalloids and Rare Extraction Process</a>
Mon 02/17/2014	2:00 PM	<a href="#">Indium, Moly, and Tungsten Metallurgy</a>
Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
Tue 02/18/2014	8:30 AM	<a href="#">Calcium and Rare Earth Metallurgy</a>
Tue 02/18/2014	2:00 PM	<a href="#">Titanium, Lithium, Yttrium, and Zirconium</a>
Wed 02/19/2014	8:30 AM	<a href="#">Rhenium, Tin, Vanadium and SX Processing</a>
<a href="#">Recycling and Sustainability Update</a>		
Thu 02/20/2014	8:30 AM	<a href="#">Recycling</a>
Thu 02/20/2014	2:00 PM	<a href="#">Waste</a>
<a href="#">Shape Casting: 5th International Symposium</a>		
Wed 02/19/2014	8:30 AM	<a href="#">Process Design and Innovation</a>
Wed 02/19/2014	2:00 PM	<a href="#">Solidification and Microstructure I</a>

	Thu 02/20/2014	8:30 AM	<a href="#">Mechanical Properties</a>
	Thu 02/20/2014	2:00 PM	<a href="#">Solidification and Microstructure II</a>
<a href="#">Solar Cell Silicon</a>			
	Wed 02/19/2014	2:00 PM	<a href="#">Silicon Production and Solidification</a>
	Thu 02/20/2014	8:30 AM	<a href="#">Silicon Refining I</a>
	Thu 02/20/2014	2:00 PM	<a href="#">Silicon Refining II</a>
<a href="#">Solid-State Interfaces III: Toward an Atomistic-scale Understanding of Structure, Properties, and Behavior through Theory and Experiment</a>			
	Mon 02/17/2014	8:00 AM	<a href="#">Mechanical Properties</a>
	Mon 02/17/2014	2:00 PM	<a href="#">Interface Structures, Defects, and Shock Response</a>
	Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
	Tue 02/18/2014	2:00 PM	<a href="#">Oxides and Nanostructures I</a>
	Wed 02/19/2014	8:00 AM	<a href="#">Oxides and Nanostructures II</a>
	Wed 02/19/2014	2:00 PM	<a href="#">Interface Morphology and Stability</a>
	Thu 02/20/2014	8:00 AM	<a href="#">Grain Boundaries I</a>
	Thu 02/20/2014	2:00 PM	<a href="#">Grain Boundaries II</a>
<a href="#">Solidification in Additive Manufacturing</a>			
	Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
	Thu 02/20/2014	8:30 AM	<a href="#">Session I: Material Behavior in AM Powder Bed Systems</a>
	Thu 02/20/2014	2:00 PM	<a href="#">Session II: Solidification in Complex and High Build Rate AM systems</a>
<a href="#">Symposium on High Entropy Alloys II</a>			
	Wed 02/19/2014	8:00 AM	<a href="#">Alloy Development and Applications</a>
	Wed 02/19/2014	2:00 PM	<a href="#">Modeling and Mechanical Properties</a>
	Thu 02/20/2014	8:00 AM	<a href="#">Structures and Mechanical Properties</a>
	Thu 02/20/2014	2:00 PM	<a href="#">Other Properties</a>
<a href="#">TMS2014 General Poster Session</a>			
	Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
<a href="#">Ultrafine Grained Materials VIII</a>			
	Mon 02/17/2014	8:00 AM	<a href="#">Keynote Session</a>
	Mon 02/17/2014	2:00 PM	<a href="#">Special Session: Gradient and Layered Nanostructures</a>
	Mon 02/17/2014	6:30 PM	<a href="#">Poster Session</a>
	Tue 02/18/2014	8:00 AM	<a href="#">Young Scientist I: Deformation and Failure Mechanisms</a>
	Tue 02/18/2014	2:00 PM	<a href="#">Young Scientist II: Microstructural Evolution</a>
	Wed 02/19/2014	8:00 AM	<a href="#">Stability of Nanomaterials</a>
	Wed 02/19/2014	8:00 AM	<a href="#">Fundamental Deformation Phenomena</a>
	Wed 02/19/2014	2:00 PM	<a href="#">Powder Processing of Nanomaterials</a>
	Wed 02/19/2014	2:00 PM	<a href="#">High Pressure Torsion Studies</a>
	Thu 02/20/2014	8:00 AM	<a href="#">Equal Channel Angular Processing Studies</a>
	Thu 02/20/2014	8:00 AM	<a href="#">Roll Processing Studies</a>
	Thu 02/20/2014	2:00 PM	<a href="#">Alternative SPD and Surface Nanostructuring Methods</a>
	Thu 02/20/2014	2:00 PM	<a href="#">Applications of UFG Materials</a>