

2014 JOM Technical Emphasis Calendar

January	Theme: Characterization and Analysis					Manuscripts Due: October 1, 2013
Topic	Orientation Mapping: Approaches and Applications		Characterization of Nanomaterials	Influence of Interfaces on Mechanical Behavior		
Guest Editor	<i>Alexis Lewis</i>		<i>Shadia Jamil Ikhmayies</i>	<i>Brad Boyce, advisor; Saryu Fensin, guest editor</i>		
Committee	Advanced Characterization, Testing, and Simulation		Materials Characterization	Mechanical Behavior of Materials Committee		
February	Theme: Lightweight Materials					Manuscripts Due: November 1, 2013
2014 TMS Annual Meeting at-meeting issue						
Topic	Aluminum: Bauxite-Alumina-Carbon-Reduction		Composite Materials for Military Applications	Dynamic Behavior of Magnesium Alloys		
Guest Editor	<i>Allon Tabereaux</i>		<i>Tomoko Sano</i>	<i>Alok Singh and James Saal</i>		
Committee	Aluminum		Composite Materials	Magnesium		
March	Theme: Computational and Nuclear Materials					Manuscripts Due: December 1, 2013
Topic	Computational Materials Discovery		Algorithm Development in Computational Materials	Materials in Nuclear Waste Disposal		
Guest Editor	<i>Mark Asla</i>		<i>Jonathan Zimmerman, Adrian Sabau, Mohsen Asle Zaeem, Mark Tschopp, and Douglas Spearot</i>	<i>Raul Rebak</i>		
Committee	Chemistry and Physics of Materials		Computational Materials Science and Engineering	Nuclear Materials		
April	Theme: Advanced Materials					Manuscripts Due: January 2, 2014
Topic	Degradation of Biomaterials		Nanomaterials: Electrical, Magnetic and Photonic Applications	Biological, Electronic, and Functional Thin Films		
Guest Editor	<i>John Nychka</i>		<i>Terry Xu and Jung-Kun Lee</i>	<i>Roger Narayan</i>		
Committee	Biomaterials		Nanomaterials	Thin Films and Interfaces		
May	Theme: Metals and Alloys I					Manuscripts Due: February 1, 2014
Topic	Aluminum: Cast Shop and Alloys		Phase Transformations in Steels: Processing, Microstructure, and Performance			
Guest Editor	<i>Allon Tabereaux</i>		<i>Yunzhi Wang (Paul Gibbs, guest editor,</i>			
Committee	Aluminum		Phase Transformations			
June	Theme: Materials and Processing					Manuscripts Due: March 1, 2014
Topic	Polymer and Metal-Matrix Composites		Materials for Energy Conversion and Storage Technologies	Powder Materials in Defense, Energy, and Security Systems	Surface Engineering Materials	
Guest Editor	<i>Nikhil Gupta</i>		<i>Xiaochuan Lu</i>	<i>Fernand Marquis</i>	<i>Sandip Harimkar</i>	
Committee	Composite Materials		Energy Conversion and Storage	Powder Materials	Surface Engineering	
July	Theme: Modeling					Manuscripts Due: April 1, 2014
Topic	Modeling of Magnetic Materials		Optimization of Metallurgical Reactors: Mathematical and Physical Modeling		ICME and Modeling of Titanium Alloys	
Guest Editor	<i>Thomas Woodcock</i>		<i>Lifeng Zhang</i>		<i>William Joost</i>	
Committee	Magnetic Materials		Process Technology & Modeling		Titanium	
August	Theme: Physical Metallurgy					Manuscripts Due: May 1, 2014
MS&T'14 preview issue						
Topic	Aluminum: Shaping and Forming		Microstructural Patterning during Phase Transformations	Semisolid Deformation: Experimental and Numerical Developments	Multiscale Approaches to Hydrogen-Assisted Degradation of Metals	Heterogenous Nucleation and Initial Microstructural Formation
Guest Editor	<i>Allon Tabereaux</i>		<i>Yunzhi Wang (Seth Imhoff, guest editor,</i>	<i>André Phillion</i>	<i>Nicholas Winzer and Matous Mrovec</i>	<i>Yunzhi Wang (Heike Emmerich, guest editor,</i>
Committee	Aluminum		Phase Transformations	Solidification	Invited	Phase Transformations
September	Theme: Metals and Alloys II					Manuscripts Due: June 1, 2014
MS&T'14 at-meeting issue						
Topic	Energy Savings in Mining and Metallurgical Industries		Modeling, Simulation, and Development of Metallurgical Processes		Refractory Metals and Alloys	Low-Density Steels
Guest Editor	<i>Cong Wang</i>		<i>Dean Gregurek and Zhiwei Peng</i>		<i>Todd Leonhardt</i>	<i>Radhakanta Rana</i>
Committee	Energy		Pyrometallurgy		Refractory Metals	Invited
October	Theme: Mechanical Properties					Manuscripts Due: July 1, 2014
Topic	Progress in High-Entropy Alloys		Multiscale Perspective of Interface-related Mechanics of Nanocomposites		Deformation and Forming of Joined Materials	
Guest Editor	<i>Michael Gao</i>		<i>Jiang Wang</i>		<i>John Carlsey</i>	
Committee	Alloy Phases		Nanomechanical Materials Behavior		Shaping & Forming	
November	Theme: Energy and Environment					Manuscripts Due: August 1, 2014
Topic	Aluminum: Recycling and Environmental Issues		Alloys and Compounds for Thermoelectric and Solar Cell Applications		Progress with Lead-free Solders	
Guest Editor	<i>Allon Tabereaux</i>		<i>Sinn-wen Cher,</i>		<i>Babak Arfaei</i>	
Committee	Aluminum		Alloy Phases		Electronic Packaging & Interconnection Materials	
December	Theme: Materials for Extreme Environments					Manuscripts Due: September 1, 2014
2015 TMS Annual Meeting preview issue						
Topic	Nuclear Applications of ODS and NFA Alloys		Long-Term Durability and Stability of High-Temperature Alloys		Radiation Effects in Oxide Ceramics and Novel LWR Fuels	
Guest Editor	<i>Raul Rebak</i>		<i>Chantral Sudbrack and Mark Hardy</i>		<i>Xian-Ming Bai</i>	
Committee	Nuclear Materials		High Temperature Alloys		Invited	