

2016 JOM Technical Emphasis Calendar

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January	Theme: Applying Materials Science and Engineering					Paper Submission Deadline: August 15, 2015
Topic	Futuristic Nanomaterials and Composites: Part II	ICME: Bridging Interfaces	In-Situ Mechanical Testing in Electron Microscopes: Part II	Phase Transformations and Microstructural Evolution: Part II	Dynamic Probing of Microstructure Evolution in Nanostructured Materials	
Guest Editor Committee	<i>Muralidharan Paramsothy, Dirk Lehmhus, and James Njuguna</i> Composite Materials	<i>Georg Schmitz</i> ICME	<i>Amit Pandey</i> Advanced Characterization, Testing & Simulation	<i>Amy Clarke</i> Phase Transformations	<i>Nan Li</i> Invited	
February	Theme: Energy and Processing					Paper Submission Deadline: September 15, 2015
TMS 2016 Annual Meeting at-meeting issue						
Topic	Extractive Metallurgy: Efficiency and Eco-Friendliness	The Canadian Generation IV Supercritical Water-Cooled Nuclear Reactor Conceptual Design	Aluminum: Bauxite-Alumina-Carbon-Reduction	Materials Degradation in Light-Water Reactors		
Guest Editor Committee	<i>Zhiwei Peng and Dean Gregurek</i> Pyrometallurgy	<i>Jian Li</i> Materials Characterization	<i>Pascal Lavoie</i> Aluminum	<i>Ramprashad Prabhakaran</i> Nuclear Materials		
March	Theme: Additive Manufacturing					Paper Submission Deadline: October 15, 2015
Topic	Progress in Additive Manufacturing	Advances in Sintering	Rapid Solidification and Phase Transformation in Additive Manufactured Materials			
Guest Editor Committee	<i>Ed Herderick</i> Process Technology & Modeling	<i>Ma Qian</i> Powder Materials	<i>Mohsen Asle Zaeem and Amy Clarke</i> Solidification and Phase Transformations			
April	Theme: Functional Materials					Paper Submission Deadline: November 15, 2015
Topic	Biomaterials for Healthcare: Part I	Functional Nanomaterials: Energy and Sensing	Magnesium-Based Biodegradable Implants			
Guest Editor Committee	<i>Candan Tamerler</i> Biomaterials	<i>Jung-Kun Lee and Terry Xu</i> Nanomaterials	<i>Patrick Bowen</i> Invited			
May	Theme: Advanced Materials and Manufacturing					Paper Submission Deadline: December 15, 2015
Topic	Aluminum: Shaping and Forming	Phase Transformations of Materials 2015	Summit on Integrated Manufacturing and Materials Innovations	ICME 2015 World Congress		
Guest Editor Committee	<i>Dmitry Eskin</i> Aluminum	<i>Matthias Miltzer</i> invited	<i>Frank Gayle</i> invited	<i>Jonathan Madison</i> invited		
June	Theme: Metallurgy and Processing					Paper Submission Deadline: January 15, 2016
Topic	Metal Smelting and Furnace Tapping	Applied Magnetism: A Supply-Driven Materials Challenge: Part I	Interface-Driven Phenomena in Solids: Thermodynamics, Kinetics, and Chemistry	Recent Developments in Functional Thin Films		
Guest Editor Committee	<i>Dean Gregurek and Zhiwei Peng</i> Pyrometallurgy	<i>Orlando Rios</i> Magnetic Materials	<i>Fadi Abdeljawad and Stephen Foiles</i> Chemistry & Physics of Materials	<i>Roger Narayan</i> Thin Films & Interfaces		
July	Theme: Manufacturing					Paper Submission Deadline: February 15, 2016
Topic	Surface Engineering via Additive Manufacturing	Shaping, Forming, and Modeling of Advanced High-Strength Steels	Metal- and Polymer-Matrix Composites II	Applied Magnetism: A Supply-Driven Materials Challenge: Part II		
Guest Editor Committee	<i>Narendra Dahotre, Benjamin Boesl, and Hitesh Vora</i> Surface Engineering	<i>Mark Stoudt</i> Shaping & Forming	<i>Nikhil Gupta</i> invited	<i>Orlando Rios</i> Magnetic Materials		
August	Theme: Big Data and Modeling					Paper Submission Deadline: March 15, 2016
MS&T16 preview issue						
Topic	Building a Materials Data Infrastructure	Big Data and Data Analytics for Structural and Functional Materials	CFD Modeling and Simulation in Materials Processing: Part I	Archaeomaterials		
Guest Editor Committee	<i>Terry Wong</i> ICME	<i>Bala Radhakrishnan</i> Computational Materials Science & Engineering	<i>Laurentiu Nastac</i> Process Technology & Modeling	<i>Vilupanur A. Ravi</i> invited		
September	Theme: Environment and Recycling					Paper Submission Deadline: April 15, 2016
MS&T16 at-meeting issue						
Topic	Slag Metallurgy and Metallurgical Waste Recycling	Recent Advances in Forest Products Research and Development	Towards Materials Resource Sustainability			
Guest Editor Committee	<i>Dean Gregurek and Zhiwei Peng</i> Pyrometallurgy	<i>Joseph Jakes</i> Nanomechanical Materials Behavior	<i>Randy Kirchain</i> Recycling & Environmental Technologies			
October	Theme: Energy					Paper Submission Deadline: May 15, 2016
Topic	Advanced Materials for Fuel Cell and Battery Applications	Lithium Metals and Chemical Extraction and Processing	Alloys and Compounds for Thermoelectrics			
Guest Editor Committee	<i>Xiaochuan Lu</i> Energy Conversion & Storage	<i>Takanari Ouchi</i> Hydrometallurgy & Electrometallurgy	<i>Sinn-wen Chen</i> Alloy Phases			
November	Theme: Modelling and Materials for Extreme Environments					Paper Submission Deadline: June 15, 2016
Topic	High-Temperature In-Situ Micro/Nano Mechanical Testing	Advances in High-Temperature Alloys	Refractory Metals that Melt Above 1850°C	Progress with Lead-Free Solders	Modeling of Energy Processes	Modeling Nuclear Fuel Performance
Guest Editor Committee	<i>Amit Pandey</i> Advanced Characterization, Testing, & Simulation	<i>Chantal Sudbrack</i> High Temperature Alloys	<i>Ravi Enneti</i> Refractory Metals & Materials	<i>Babak Arfaei</i> Electronic Packaging & Interconnection Materials	<i>Geoff Brooks and Tao Wang</i> Energy	<i>Ramprashad Prabhakaran</i> Nuclear Materials
December	Theme: Alloys and Production					Paper Submission Deadline: July 15, 2016
TMS 2017 Annual Meeting preview issue						
Topic	Fe Alloys: Production and Metallurgical Aspects: Part I	Aluminum: Cast Shop and Alloys	TMS2016 Bladesmithing	CFD Modeling and Simulation in Materials Processing: Part II	Advances and Achievements in In-Situ Analysis of Corrosion and Structure-Property Relationship in Mg and Mg Alloys	
Guest Editor Committee	<i>Dean Gregurek, Zhiwei Peng, Jesse White</i> Pyrometallurgy	<i>Dmitry Eskin</i> Aluminum	<i>Garry Warren</i> Invited	<i>Laurentiu Nastac</i> Process Technology & Modeling	<i>Dmytro Orlov</i> Magnesium	