

MS&T19 Proceedings Plans
Updated: April 18, 2019

Symposium Name	Proceedings Format	Lead Organizer	Affiliation
Additive Manufacturing of Metals: Microstructure and Material Properties of Nickel-based Alloys	Edited Section of Conference Proceedings	Andrzej Wojcieszynski	ATI Specialty Materials
Additive Manufacturing of Metals: Post Processing	Edited Section of Conference Proceedings	Ola Harrysson	North Carolina State University
Additive Manufacturing: Effective Production, Characterization, and Recycling of Powder Materials	Edited Section of Conference Proceedings	James Paramore	US Army Research Laboratory
Additive Manufacturing: In-situ Process Monitoring and Control	Edited Section of Conference Proceedings	Ulf Ackelid	Freemelt AB
Additive Manufacturing: Microstructure and Material Properties of Titanium-based Alloys	Edited Section of Conference Proceedings	Ulf Ackelid	Freemelt AB
Advanced Manufacturing, Processing, Characterization and Modeling of Functional Materials	Edited Section of Conference Proceedings	Mohammad Elahinia	University of Toledo
Advanced Materials for Harsh Environments	Edited Section of Conference Proceedings	Navin Manjooran	Siemens AG
Multi Scale Modeling of Microstructure Deformation in Material Processing	Edited Section of Conference Proceedings	Lukasz Madej	AGH University of Science and Technology
Nanotechnology for Energy, Environment, Electronics, Healthcare and Industry	Edited Section of Conference Proceedings	Navin Manjooran	Siemens AG
Processing and Performance of Materials Using Microwaves, Electric and Magnetic Fields, Ultrasound, Lasers, and Mechanical Work – Rustum Roy Symposium	Edited Section of Conference Proceedings	Morsi Mahmoud	King Fahd University of Petroleum and Minerals - KFUPM
Additive Manufacturing of Metals: Microstructure, Properties and Alloy Development	Materials Design and Processing Communications	Prashanth Konda Gokuldoss	Tallinn University of Technology
Bulk Metallic Glasses and their Composites – Progresses, Outcomes and Prospects	Special Issue of Metallurgical and Materials Engineering A	Muhammad Rafique	
Hydrogen Effects on Materials Performance	JOM 2020 Special Issue	Samantha Lawrence	Los Alamos National Laboratory
Mechanochemical Synthesis and Reactions in Materials Science IV	Journal of Materials Science	Antonio Fuentes	Cinvestav Unidad Saltillo
Modeling Variability of Mechanical Behavior through ICME Techniques with Emphasis on Verification, Validation & Uncertainty Quantification	Special Issue for JOM	Jacob Hochhalter	University of Utah
Next Generation Biomaterials	Medical Devices and Sensor Journal	Roger Narayan	University of North Carolina
Semiconductor Heterostructures: Theory, Growth, Characterization, and Device Applications	Journal of Electronic Materials	John Ayers	University Of Connecticut
Journal of the American Ceramic Society Awards Symposium	Journal of ACerS - Already Published	William Fahrenheit	Missouri University of Science and Technology
Alloy Design for Additive Manufacturing: Developing New Feedstock Materials	No manuscripts accepted	Joseph McKeown	Lawrence Livermore National Laboratory
11th International Symposium on Green and Sustainable Technologies for Materials Manufacturing and Processing	Unedited Section of Conference Proceedings	Surojit Gupta	University of North Dakota
Actinide and Lanthanide Materials III	Unedited Section of Conference Proceedings	Clarissa Yablinsky	Los Alamos National Laboratory
Activating Allies: Navigating the Intersectional Landscape of Diversity & Inclusion	Unedited Section of Conference Proceedings	Thomas Reeve	Lawrence Livermore National Laboratory
Additive Manufacturing Education	Unedited Section of Conference Proceedings	Somayeh Pasebani	Oregon State University
Additive Manufacturing of Glass, Ceramics and Composites	Unedited Section of Conference Proceedings	Tobias Schaedler	Hrl Laboratories Llc
Advanced Biomaterials for Biomedical Implants and Biosensing Devices	Unedited Section of Conference Proceedings	Tolou Shokuhfar	University of Illinois at Chicago
Advanced Coatings for Wear and Corrosion Protection	Unedited Section of Conference Proceedings	Evelina Vogli	LM Group Holdings Inc.
Advanced High Strength Steels / From Design to End Users	Unedited Section of Conference Proceedings	Alla Sergueeva	NanoSteel Company Inc
Advanced Materials for Oil and Gas Applications - Performance and Degradation	Unedited Section of Conference Proceedings	Yellapu Murty	MC Technologies LLC
Advanced Microelectronic Packaging, Emerging Interconnection Technology, and Pb-free Solder	Unedited Section of Conference Proceedings	Tae-Kyu Lee	Portland State University
Advanced Shaping & Forming for Metal Manufacturing	Unedited Section of Conference Proceedings	Kester Clarke	Colorado School of Mines
Advances in Dielectric Materials and Electronic Devices	Unedited Section of Conference Proceedings	Amar Balla	University of Texas
Advances in Surface Engineering	Unedited Section of Conference Proceedings	Brian Skinn	Faraday Technology, Inc.
Advances in Understanding of Martensite in Steels	Unedited Section of Conference Proceedings	Ian Zuazo	Global R&D ArcelorMittal, CRMC-Industeel
Advances in Zinc-coated Sheet Steel Processing and Properties	Unedited Section of Conference Proceedings	Frank Goodwin	ILZRO
Alumina at the Forefront of Technology III	Unedited Section of Conference Proceedings	William Walker	Federal-Mogul
Applications of Modern Characterization Techniques to Ferrous Alloys and Steel Products	Unedited Section of Conference Proceedings	Steven Thompson	Colorado School of Mines
Boron Based Materials and Coatings: Structure, Properties, Processing, and Applications	Unedited Section of Conference Proceedings	Jens Kunstmann	Td Dresden
Ceramic and Crystal Materials for Optics and Photonics	Unedited Section of Conference Proceedings	Yiquan Wu	Alfred University
Ceramics and Glasses Simulations and Machine Learning	Unedited Section of Conference Proceedings	Mathieu Bauchy	University of California, Los Angeles
Characterization and Modeling of Metal Whisker Formation	Unedited Section of Conference Proceedings	Philip Eisenlohr	Michigan State Univ
Characterization of Materials and Properties through Metallography, Mechanical Testing and Analysis - From Fundamentals to the Cutting Edge	Unedited Section of Conference Proceedings	Michael Keeble	Buehler
Controlled Synthesis, Processing, and Applications of Structural and Functional Nanomaterials	Unedited Section of Conference Proceedings	Haitao Zhang	University of North Carolina at Charlotte
Corrosion of Additively Manufactured Metals	Unedited Section of Conference Proceedings	Eric Schindelholz	
Crosscutting Issues in Corrosion of Materials: Control, Monitoring, Mitigation and Material Selection	Unedited Section of Conference Proceedings	Matthew Asmussen	Pacific Northwestern National Laboratory
Curricular Innovations and Continuous Improvement of Academic Programs (and Satisfying ABET along the Way): The Elizabeth Judson Memorial Symposium	Unedited Section of Conference Proceedings	Gregg Janowski	University of Alabama at Birmingham
Data Science for Material Property Interpretation	Unedited Section of Conference Proceedings	Alex Belianinov	Oak Ridge National Laboratory
Emergent Materials under Extremes and Decisive In-situ Characterizations	Unedited Section of Conference Proceedings	Xujie Lu	Center for High Pressure Science & Technology Advanced Research
Failure Analysis & Characterization	Unedited Section of Conference Proceedings	Andrew Havics	PH2 LLC
Failure Analysis: Industry Specific Failures	Unedited Section of Conference Proceedings	Andrew Havics	PH2 LLC
Failure Prevention and Unconventional Failures	Unedited Section of Conference Proceedings	Andrew Havics	PH2 LLC
Formability and Fracture of Metal Sheets	Unedited Section of Conference Proceedings	Piyush Upadhyay	Pacific Northwest National Laboratory
Functional Ceramics for Energy Conversion and Fuel Production	Unedited Section of Conference Proceedings	Xiao-Dong Zhou	University of Louisiana at Lafayette
Gas/Metal Reactions, Diffusion, and Phase Transformation during Heat Treatment of Steel	Unedited Section of Conference Proceedings	Daniel Baker	General Motors
Glasses, Optical Materials, and Devices: Current Issues in Science & Technology	Unedited Section of Conference Proceedings	Jincheng Du	University of North Texas
Global Young Investigators Forum	Unedited Section of Conference Proceedings	Kathleen Shugart Cissel	UES Inc

Grain Boundaries, Interfaces, and Surfaces in Functional Materials: Fundamental Structure-Property-Performance Relationships	Unedited Section of Conference Proceedings	Ming Tang	Rice University
Hybrid Organic-Inorganic Materials for Alternative Energy	Unedited Section of Conference Proceedings	Andrei Jitianu	Lehman College, City University of New York
Integration between Modeling and Experiments for Crystalline Metals: From Atomistic to Macroscopic Scales	Unedited Section of Conference Proceedings	M Arul Kumar	Los Alamos National Laboratory
International Symposium on Ceramic Matrix Composites	Unedited Section of Conference Proceedings	Narottam Bansal	National Aeronautics and Space Administration
Joining of Advanced and Specialty Materials XXI	Unedited Section of Conference Proceedings	Mathieu Brochu	McGill University
Light Metal Technology	Unedited Section of Conference Proceedings	Xiaoming Wang	Purdue University
Manufacturing: Solid-state and Other Nonbeam-based Technologies for the Manufacturing of Metallic Parts	Unedited Section of Conference Proceedings	Olaf Andersen	Fraunhofer Society
Materials for Nuclear Applications	Unedited Section of Conference Proceedings	Philip Edmondson	Oak Ridge National Laboratory
Materials Issues in Nuclear Waste Management	Unedited Section of Conference Proceedings	Jake Amoroso	Savannah River National Laboratory
Materials vs Minerals: Bridging the Gap between Materials Science and Earth and Planetary Science	Unedited Section of Conference Proceedings	Jessica Rimsza	Sandia National Laboratories
Metal and Polymer Matrix Composites IV	Unedited Section of Conference Proceedings	Nikhil Gupta	New York University
Metamorphic Manufacturing – Incremental Deformation Processing for Agile, High-quality Metallic Component Production	Unedited Section of Conference Proceedings	Kester Clarke	Colorado School of Mines
Multifunctional Ceramic- and Metal-matrix Composites: Processing, Microstructure, Properties and Performance	Unedited Section of Conference Proceedings	Martin Pech-Canul	Cinvestav IPN Saltillo
Nanostructured Materials under Extreme Environments	Unedited Section of Conference Proceedings	Jin Li	Purdue University
Perspectives for Emerging Materials Professionals	Unedited Section of Conference Proceedings	Christopher Marvel	Lehigh University
Phase Transformations in Ceramics: Science and Applications	Unedited Section of Conference Proceedings	Pankaj Sarin	Oklahoma State University
Powder Metallurgy of Light, Reactive and Other Non-ferrous Metals	Unedited Section of Conference Proceedings	Ma Qian	RMIT University (Royal Melbourne Institute of Technology)
PSDK XIV: Phase Stability and Diffusion Kinetics	Unedited Section of Conference Proceedings	Michael Gao	National Energy Technology Laboratory
Retained Austenite for High and Ultrahigh Strength Steels	Unedited Section of Conference Proceedings	Mahesh Somani	Univ Of Oulu
Sandphobic Thermal/Environmental Barrier Coatings	Unedited Section of Conference Proceedings	Michael Walock	US Army Research Laboratory
Sintering and Related Powder Processing Science and Technologies	Unedited Section of Conference Proceedings	Wolfgang Rheinheimer	Purdue University
Substrate Protection for Corrosion Prevention	Unedited Section of Conference Proceedings	Mary Lyn Lim	PPG Industries
Surface Properties of Biomaterials	Unedited Section of Conference Proceedings	Ryan Bock	Amedica Corporation
Surface Protection for Enhanced Materials Performance: Science, Technology, and Application	Unedited Section of Conference Proceedings	Kang Lee	NASA Glenn Research Center
Synthesis, Characterization, Modeling and Applications of Functional Porous Materials	Unedited Section of Conference Proceedings	Lan Li	Boise State University
Thermal Protection Materials and Systems	Unedited Section of Conference Proceedings	Jeff DeMange	University of Toledo
Thermodynamics of Materials in Extreme Environments	Unedited Section of Conference Proceedings	Kyle Brinkman	Clemson University
Thermomechanical Processing in Shaping and Forming of Steels	Unedited Section of Conference Proceedings	Evgueni Poliak	ArcelorMittal East Chicago
Ultra High Performance Metallic Systems for Aerospace, Defense, and Automotive Applications	Unedited Section of Conference Proceedings	Ali Yousefiani	Boeing Research And Technology
Undergraduate Global University	Unedited Section of Conference Proceedings	Kelley Wilkerson	Missouri Univ of Science and Technology