## TMS2018 Symposium and Session List Updated November 20, 2017

2018 EPD Distinguished Lecture	
Mon 03/12/2018	8:00 AM Distinguished Lecture and Award Presentation
2018 Light Metals Keynote Session	
	Sustainability in the Aluminum Industry: Climate Neutral Industry with Zero
Mon 03/12/2018	8:00 AM Emissions and Zero Waste?
2018 Symposium on Functional Nar	nomaterials: Discovery and Integration of Nanomaterials
Mon 03/12/2018	8:00 AM 3D Structures and Hybrid Materials
Mon 03/12/2018	2:30 PM 2D Nanoelectronics
Tues 03/13/2018	8:30 AM Nanomaterials for Environmental and Energy Applications
Tues 03/13/2018	2:00 PM Design and Synthesis of 2D Materials
Wed 03/14/2018	8:30 AM Nanomaterials, Characterization, and Applications
Wed 03/14/2018	2:00 PM Joint with Bio-Nano Interface Engineering and Applications Symposium
9th International Symposium on Hig	gh Temperature Metallurgical Processing
Mon 03/12/2018	8:00 AM Energy-efficient and Clean Metallurgical Technology
Mon 03/12/2018	2:30 PM Simulation and Modeling of High Temperature Metallurgical Process
Tues 03/13/2018	8:30 AM Alloys and Materials Preparation
Tues 03/13/2018	2:00 PM Fundamental Research on High Temperature Metallurgical Processing
Wed 03/14/2018	8:30 AM Extraction and Recovery of Metals
Wed 03/14/2018	2:00 PM Treatment and Recycling of Metallurgical Slag/Solid Wastes
Thur 03/15/2018	8:30 AM Ironmaking, Steelmaking and Casting
Thur 03/15/2018	2:00 PM Agglomeration and Direct Reduction of Complex Iron Ores
Accelerated Materials Evaluation fo	r Nuclear Application Utilizing Test Reactors, Ion Beam Facilities and Integrated Modeling
Mon 03/12/2018	8:00 AM Ion Irradiation and In-situ TEM
Mon 03/12/2018	2:30 PM Neutron Irradiation and Ion vs Neutron
Tues 03/13/2018	8:30 AM Modeling-simulation and Fundamental Studies
Tues 03/13/2018	2:00 PM Ceramics and Nuclear Fuels
Wed 03/14/2018	8:30 AM Mechanical Behavior and Technique Development
Wed 03/14/2018	2:00 PM Facility Overviews and Materials Development
Accident Tolerant Fuels for Light Wa	
Mon 03/12/2018	8:00 AM ATF Program Overview
Mon 03/12/2018	2:30 PM Modeling & Simulation
Tues 03/13/2018	8:30 AM Advanced Fuels
Tues 03/13/2018	2:00 PM Structural Materials
Wed 03/14/2018	8:30 AM Ceramic Cladding & Coatings
Wed 03/11/2018	2:00 PM Cladding Materials
Acta Materialia Symposium	2.00 TWI Cladding Waterials
Mon 03/12/2018	3:15 PM Acta Materialia Award Session
Additive Manufacturing Joint Keyno	
Mon 03/12/2018	2:30 PM Joint Keynote Session
141011 03/12/2010	2.50 FW Joint Reynote Session
Additive Manufacturing of Motals:	Establishing Location-Specific Processing-Microstructure-Property Relationships III
Mon 03/12/2018	8:00 AM Additive Manufacturing: A Revolution in Materials Processing
Tues 03/13/2018	8:30 AM Mechanical Behavior of Additively Manufactured Materials
Tues 03/13/2018	·
	2:00 PM High Temperature Alloys and Properties
Wed 03/14/2018	8:30 AM Post-build Thermal Processing: Effects on Microstructure and Properties
Wed 03/14/2018	2:00 PM Emerging Materials and Processes
Wed 03/14/2018	2:00 PM Modeling of Additive Manufacturing Processes
Thur 03/15/2018	8:30 AM Additive Manufacturing of Advanced Light-weight Materials
Thur 03/15/2018	2:00 PM Advanced Characterization and Innovative Applications
Additive Manufacturing of Metals: F	•
Mon 03/12/2018	8:00 AM Session I
Tues 03/13/2018	8:30 AM Session II
Tues 03/13/2018	2:00 PM Session III
Wed 03/14/2018	8:30 AM Session IV

Additive Manufacturing: Building	the Pathway towards Process and Material Qualification
Mon 03/12/2018	8:00 AM High Speed Imaging in Additive Manufacturing
Tues 03/13/2018	8:30 AM Beam Line Science in Additive Manufacturing
Tues 03/13/2018	2:00 PM Modeling in Additive Manufacturing
Wed 03/14/2018	8:30 AM Metals in Additive Manufacturing I
Wed 03/14/2018	2:00 PM Metals in Additive Manufacturing II
Thur 03/15/2018	8:30 AM Qualification in Additive Manufacturing
	iques for Quantifying and Modeling Deformation
Mon 03/12/2018	8:00 AM Local Strain & Misorientation I
Mon 03/12/2018	2:30 PM Local Strain & Misorientation II
Tues 03/13/2018	8:30 AM Damage / Phase Transformation Plasticity
Tues 03/13/2018	2:00 PM Dislocations and Planar Faults
Wed 03/14/2018	8:30 AM Constitutive Behavior I
Wed 03/14/2018	2:00 PM Plasticity Modeling / Experiments
Thur 03/15/2018	8:30 AM Constitutive Behavior II
Advanced High-Strength Steels	
Mon 03/12/2018	8:00 AM High Mn Steels
Mon 03/12/2018	2:30 PM Quenching and Partitioning (Q&P) Steels
Tues 03/13/2018	8:30 AM 1st Generation AHSS
Tues 03/13/2018	2:00 PM Medium Mn Steels
Wed 03/14/2018	8:30 AM Hydrogen Embrittlement, Fracture and Damage
Wed 03/14/2018	2:00 PM Phase Transformation and Thermo-mechanical Processing
Thur 03/15/2018	8:30 AM Bainitic and Stainless Steels
Advanced Magnetic Materials for	Energy and Power Conversion Applications
	Application of Advanced Soft Magnetic Materials in Power Electronics and
Mon 03/12/2018	8:00 AM Motors
Mon 03/12/2018	2:30 PM Advances in Permanent Magnet Alloys
Tues 03/13/2018	8:30 AM Development in Rare Earth Free Permanent Magnet Alloys
Tues 03/13/2018	2:00 PM Alloy Development and Application of Magneto-thermal Materials
	Additive Manufacturing and Advanced Processing of Permanent Magnetic
Wed 03/14/2018	8:30 AM Materials
Wed 03/14/2018	2:00 PM Additive Manufacturing and Advanced Processing of Soft Magnetic Materials
Thur 03/15/2018	8:30 AM Development and Application of Soft Magnetic Materials
_	ing, Emerging Interconnection Technology, and Pb-free Solder
Mon 03/12/2018	8:00 AM 3D Microelectronic Packaging
Mon 03/12/2018	2:30 PM Quality and Reliability of Advanced Microelectronic Packaging I
Tues 03/13/2018	8:30 AM Advanced Microelectronic Packaging Materials
Tues 03/13/2018	2:00 PM Quality and Reliability of Advanced Microelectronic Packaging II
Wed 03/14/2018	8:30 AM Emerging Interconnects
Wed 03/14/2018	2:00 PM Pb Free Solder Alloy I
Thur 03/15/2018	8:30 AM Pb Free Solder Alloy II
Advanced Real Time Optical Imag Wed 03/14/2018	8:30 AM Iron and Steelmaking I
Wed 03/14/2018 Wed 03/14/2018	2:00 PM High Temperature Phenomena
Thur 03/15/2018	8:30 AM Iron and Steelmaking II
Thur 03/15/2018	2:00 PM Iron and Steelmaking III
	ng of Titanium and Titanium Based Alloys
Mon 03/12/2018	8:00 AM Overview of Additive Manufacturing for Titanium Alloys
Tues 03/13/2018	8:30 AM Processing for Quality
Tues 03/13/2018	2:00 PM Solidification and Microstructure I
Wed 03/14/2018	8:30 AM ICME for Additive Manufacturing
Wed 03/14/2018 Wed 03/14/2018	2:00 PM Solidification and Microstructure II
Thur 03/15/2018	8:30 AM Emerging Methods and Materials
Algorithm Development in Materi	
A SOLITION DEVElopment in Water	DFT, Atomistic and Machine Learning Algorithms for Study and Design of
Tues 03/13/2018	8:30 AM Materials
Tues 03/13/2018	2:00 PM DFT and Atomistic Algorithms for Study and Design of Materials
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Wed 03/14/2018	8:30 AM Atomistic Algorithms for Study and Design of Materials
Wed 03/14/2018	2:00 PM Atomistic and Micro Scale Algorithms and Models
Thur 03/15/2018	8:30 AM Experimental and Computational Algorithms
Thur 03/15/2018	2:00 PM Applications of Microscale Algorithms and Models
	Manufacture for Additive Manufacturing
Wed 03/14/2018	8:30 AM ICME General Approaches
Wed 03/14/2018	2:00 PM Powder Development
Thur 03/15/2018	8:30 AM Design of Aluminum Alloys
Thur 03/15/2018	2:00 PM Design of Ni and Fe Alloys
•	oelectric and Solar Cell Applications VI
Mon 03/12/2018	8:00 AM Session I
Mon 03/12/2018	2:30 PM Session II
Tues 03/13/2018	8:30 AM Session III
Tues 03/13/2018	2:00 PM Session IV
Wed 03/14/2018	8:30 AM Session V
Alumina & Bauxite	
Mon 03/12/2018	2:30 PM Digestion and Precipitation
Tues 03/13/2018	8:30 AM Fundamentals, Product Quality, Efficiency and Modeling
Wed 03/14/2018	8:30 AM Valorisation of Bayer Process Residues: Red Mud Treatment and Scandium Extraction
Wed 03/14/2018	2:00 PM Processing of Low Grade Bauxite: Flotation and Pretreatment
Aluminum Alloys, Processing and	Characterization
Mon 03/12/2018	2:30 PM Characterizations and Applications of High Strength Aluminum Alloys
Tues 03/13/2018	8:30 AM Behavior of Casting Alloys
Tues 03/13/2018	2:00 PM Aluminum Alloy Development
Wed 03/14/2018	8:30 AM Microstructures and Mechanical Properties of Aluminum Alloys
Wed 03/14/2018	2:00 PM Simulations and Studies of Processing
Thur 03/15/2018	8:30 AM Emerging Technologies
<b>Aluminum Reduction Technology</b>	
Mon 03/12/2018	2:30 PM Cell Operations, Control & Improvements
Tues 03/13/2018	2:00 PM Joint Session: Alumina Quality
Wed 03/14/2018	8:30 AM Cell Design & Modelling
Wed 03/14/2018	2:00 PM Fundamentals, Electrolyte Chemistry & Market
Thur 03/15/2018	8:30 AM Environment, Gas Treatment & Alumina Transport
Thur 03/15/2018	2:00 PM Cell Technology Development
Application of Solidification Funda	amentals to Challenges in Metal Additive Manufacturing
Mon 03/12/2018	8:00 AM Process to Microstructure Relationships
Tues 03/13/2018	8:30 AM Advanced Characterization
Tues 03/13/2018	2:00 PM Solidification Modeling
	anced Characterization of Metals, Minerals and Materials
Tues 03/13/2018	8:30 AM General Methods and Development
Tues 03/13/2018	2:00 PM Novel Applications and Modelling
Wed 03/14/2018	8:30 AM Lightweight Alloys
Wed 03/14/2018	2:00 PM Fe-based Alloys and High-entropy Alloys
Thur 03/15/2018	8:30 AM Nuclear Materials
Bio-Nano Interfaces and Engineer	
Mon 03/12/2018	8:00 AM Bio-Nano Interfaces I
Mon 03/12/2018	2:30 PM Bio-Nano Interfaces II
Tues 03/13/2018	8:30 AM Bio-Nano Interfaces III
Biodegradable Materials for Medi	
Wed 03/14/2018	8:30 AM Magnesium Alloys I
Wed 03/14/2018 Wed 03/14/2018	2:00 PM Magnesium Alloys II
Thur 03/15/2018	8:30 AM Biodegradable Metals
Thur 03/15/2018	2:00 PM Polymers and Glasses
Biological Materials Science	2.00 i Wi i Olymera ana Glasaca
Mon 03/12/2018	8:00 AM Structural Biological Materials
	2:30 PM Synthesis of Bio-inspired Materials and Structures
Mon 03/12/2018	,
Tues 03/13/2018	8:30 AM Biomaterials and Biomedical Applications I
Tues 03/13/2018	2:00 PM Bones, Teeth, and Dental Materials

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	03/14/2018		Functional Biological Materials
	03/14/2018	2:00 PIVI	Biomaterials and Biomedical Applications II
Bladesmithing 201	.8 03/14/2018	0.20 414	Pladaemithing
	· ·		Bladesmithing I
	mrastructure: Dev	veloping i	ools that Integrate Across Length and Time Scales to Accelerate Materials
Design			ICME Gap Analysis: Multiscale Modeling and Characterization of Structural
ha\//	03/14/2018	8·30 AM	Materials: I
vvca	03/14/2010	0.30 AIVI	ICME Gap Analysis: Multiscale Modeling and Characterization of Structural
Wed	03/14/2018	2:00 PM	Materials: II
	03/15/2018		Materials Design Collaboration Platforms and Tools
	,,		Integration Tools and Methods for Linking Processing-structure-property
Thur	03/15/2018	2:00 PM	Relationships
Bulk Metallic Glass	ses XV		
Tues	03/13/2018	8:30 AM	Alloy Development and Application I
Tues	03/13/2018	2:00 PM	Structures and Mechanical Properties I
Wed	03/14/2018	8:30 AM	Alloy Development and Application II
Wed	03/14/2018	2:00 PM	Structures and Mechanical Properties II
Thur	03/15/2018	8:30 AM	Structures and Modeling
Thur	03/15/2018	2:00 PM	Structures and Characterization
	03/15/2018	2:00 PM	Modeling and Thermal Properties
Cast Shop Technol			
	03/12/2018		HSE and Cast House Operation
	03/14/2018		Melt Treatment
	03/15/2018		Casting and Cast House Products
	03/15/2018		Continuous Casting
Cast Shop Technol	03/13/2018		Cast Shan Tashnalagu Fnargu Iaint Sassian
	• •		Cast Shop Technology: Energy Joint Session  inum Alloy Solidification Joint Session
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Wed	03/14/2018	2:00 PM	
	03/14/2018 logy: Recycling and	2:00 PM d Sustaina	Session
Cast Shop Technol	• •	d Sustaina	Session ability Joint Session
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Cast Shop Technol Tues CFD Modeling and Mon Mon Tues Tues Wed Characterization o Mon Mon Mon Tues Tues Ved Wed Wed Wed Wed Wed Thur Thur Thur	ogy: Recycling and 03/13/2018 Simulation in Ma 03/12/2018 03/12/2018 03/13/2018 03/13/2018 03/14/2018 of Minerals, Metals 03/12/2018 03/12/2018 03/12/2018 03/12/2018 03/12/2018 03/13/2018 03/13/2018 03/13/2018 03/14/2018 03/14/2018 03/14/2018 03/14/2018 03/15/2018 03/15/2018 03/15/2018	d Sustaina 2:00 PM terials Pro 8:00 AM 2:30 PM 8:30 AM 2:00 PM 8:30 AM 8:00 AM 2:30 PM 2:30 PM 2:30 PM 2:30 PM 2:00 PM	Session  Ability Joint Session  Cast Shop Technology: Recycling and Sustainability Joint Session  Decessing  Casting and Solidification I Casting and Solidification II Processing I Processing II Processing III Processing III  Terials  Characterization Methods Characterization of Non-ferrous Metals Characterization of Ceramics Microstructure and Performance of Materials Characterization and Uses of Metallurgical Slags Characterization of Polymer and Composite Materials Analysis of Surfaces and Interfaces Characterization Methods II Characterization of Powder Materials Mechanical Behaviors of Materials Characterization of Ferrous Materials Mineral Processing and Analysis Nanostructure and Characterization of Materials Thermal Processing and Analysis
Cast Shop Technol Tues CFD Modeling and Mon Mon Tues Tues Wed Characterization o Mon Mon Mon Mon Mon Ved Wed Wed Wed Wed Wed Thur Thur Thur Thur Thur Computational De	ogy: Recycling and 03/13/2018 Simulation in Ma 03/12/2018 03/12/2018 03/13/2018 03/13/2018 03/13/2018 03/14/2018 03/12/2018 03/12/2018 03/12/2018 03/12/2018 03/12/2018 03/12/2018 03/13/2018 03/13/2018 03/14/2018 03/14/2018 03/14/2018 03/14/2018 03/15/2018 03/15/2018 03/15/2018 03/15/2018	d Sustaina 2:00 PM terials Pro 8:00 AM 2:30 PM 8:30 AM 8:30 AM 8:00 AM 2:30 PM 2:30 PM 2:30 PM 2:30 PM 2:00 PM	Session  Idility Joint Session  Cast Shop Technology: Recycling and Sustainability Joint Session  Decessing  Casting and Solidification I Casting and Solidification II Processing I Processing II Processing III  Processing III  Terials  Characterization Methods Characterization of Non-ferrous Metals Characterization of Ceramics Microstructure and Performance of Materials Characterization and Uses of Metallurgical Slags Characterization of Polymer and Composite Materials Analysis of Surfaces and Interfaces Characterization Methods II Characterization of Powder Materials Mechanical Behaviors of Materials Characterization of Ferrous Materials Mineral Processing and Analysis Nanostructure and Characterization of Materials
Cast Shop Technol Tues CFD Modeling and Mon Mon Tues Tues Wed Characterization o Mon Mon Mon Mon Mon Ved Wed Wed Wed Wed Wed Thur Thur Thur Thur Thur Thur Computational De	ogy: Recycling and 03/13/2018 Simulation in Ma 03/12/2018 03/12/2018 03/13/2018 03/13/2018 03/14/2018 of Minerals, Metals 03/12/2018 03/12/2018 03/12/2018 03/12/2018 03/12/2018 03/13/2018 03/13/2018 03/13/2018 03/14/2018 03/14/2018 03/14/2018 03/14/2018 03/15/2018 03/15/2018 03/15/2018	2:00 PM terials Pro 8:00 AM 2:30 PM 8:30 AM 2:00 PM 8:30 AM 8:00 AM 8:00 AM 2:30 PM 2:30 PM 2:30 PM 2:30 PM 2:00 PM 2:00 PM 2:00 PM 2:00 PM 2:00 PM 2:00 PM 2:00 PM 8:30 AM 8:30 AM 8:30 AM 8:30 AM	Session Ibility Joint Session Cast Shop Technology: Recycling and Sustainability Joint Session Iccessing Casting and Solidification I Casting and Solidification II Processing I Processing II Processing III Processing III  Processing III
Cast Shop Technol Tues CFD Modeling and Mon Mon Tues Tues Wed Characterization o Mon Mon Mon Tues Tues Ved Wed Wed Wed Wed Thur Thur Thur Thur Thur Computational De Mon Tues	ogy: Recycling and 03/13/2018 Simulation in Ma 03/12/2018 03/12/2018 03/13/2018 03/13/2018 03/14/2018 o3/12/2018 03/12/2018 03/12/2018 03/12/2018 03/12/2018 03/13/2018 03/13/2018 03/13/2018 03/14/2018 03/14/2018 03/14/2018 03/14/2018 03/15/2018 03/15/2018 03/15/2018 03/15/2018 03/15/2018 03/15/2018 03/15/2018	2:00 PM terials Pro 8:00 AM 2:30 PM 8:30 AM 2:00 PM 8:30 AM 8:00 AM 8:00 AM 2:30 PM 2:30 PM 8:30 AM 2:00 PM 2:00 PM 2:00 PM 2:00 PM 2:00 PM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 8:30 AM 8:30 AM 8:30 AM	Session  Ability Joint Session Cast Shop Technology: Recycling and Sustainability Joint Session  Coessing Casting and Solidification I Casting and Solidification II Processing I Processing II Processing III  Processing III  Processing III  Characterization Methods Characterization of Non-ferrous Metals Characterization of Ceramics Microstructure and Performance of Materials Characterization and Uses of Metallurgical Slags Characterization of Polymer and Composite Materials Analysis of Surfaces and Interfaces Characterization Methods II Characterization of Powder Materials Mechanical Behaviors of Materials Characterization of Ferrous Materials Mineral Processing and Analysis Nanostructure and Characterization of Materials Thermal Processing and Analysis erials (CDSM 2018): Atomistic Simulations Boundaries and Interfaces I

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Wed 03/14/2018
                                  8:30 AM Diffusion I
            Wed 03/14/2018
                                  2:00 PM Diffusion II
            Thur 03/15/2018
                                  8:30 AM Defects and Microstructure
            Thur 03/15/2018
                                  2:00 PM Thermodynamics
            Thur 03/15/2018
                                  2:00 PM Transport
Computational Design and Simulation of Materials (CDSM 2018): Meso/Macroscale Simulations
            Mon 03/12/2018
                                  8:00 AM Phase Field Simulations I: Functional Materials and Alloys
            Mon 03/12/2018
                                  4:40 PM Phase Field Simulations II: Lightweight Alloys
                                  8:30 AM Dislocation and Plasticity
            Tues 03/13/2018
            Tues 03/13/2018
                                  2:00 PM Multiscale Modeling
            Wed 03/14/2018
                                  8:30 AM Microstructure and Processing Simulations I
            Wed 03/14/2018
                                  2:00 PM Microstructure and Processing Simulations II
            Thur 03/15/2018
                                  8:30 AM Mechanical and Process Simulations
Computational Design and Simulation of Materials (CDSM 2018): Computational Design of Materials
            Mon 03/12/2018
                                  8:00 AM Computational Design of Materials: CALPHAD
            Mon 03/12/2018
                                  4:40 PM Computational Design of Materials: Uncertainty
            Tues 03/13/2018
                                  8:30 AM Computational Design of Materials: Case Studies
            Tues 03/13/2018
                                  2:00 PM Computational Design of Materials: Machine Learning
            Wed 03/14/2018
                                  8:30 AM Computational Design: Microstructure and Mechanical Behaviors
            Wed 03/14/2018
                                  2:00 PM Computational Design: Tools and Data
Computational Design and Simulation of Materials (CDSM 2018): Plenary Session
            Mon 03/12/2018
                                  2:30 PM Plenary
Computational Materials Discovery and Optimization
            Mon 03/12/2018
                                  8:00 AM Materials Informatics
            Mon 03/12/2018
                                  2:30 PM Materials Interfaces, 2D Materials, and Nanomaterials
            Tues 03/13/2018
                                  8:30 AM Bulk Materials: Thermal, Magnetic, and Optical Properties
            Tues 03/13/2018
                                  2:00 PM Materials for Energy Technologies
Computational Materials Science and Engineering for Nuclear Energy
            Mon 03/12/2018
                                  8:00 AM Nuclear Fuels and Cladding I
            Mon 03/12/2018
                                  2:30 PM Nuclear Fuels and Cladding II
            Tues 03/13/2018
                                  8:30 AM Structural Materials I
            Tues 03/13/2018
                                  2:00 PM Structural Materials II
                                  8:30 AM Novel Models and Method Development
            Wed 03/14/2018
            Wed 03/14/2018
                                  2:00 PM Fundamentals of Radiation Effects I
            Thur 03/15/2018
                                  8:30 AM Fundamentals of Radiation Effects II
Computational Method and Experimental Approaches for Model Development and Validation, Uncertainty Quantification,
and Stochastic Predictions
            Wed 03/14/2018
                                  8:30 AM Mathematical and Machine Learning Approaches Applied to UQ
            Wed 03/14/2018
                                  2:00 PM Development, UQ and Validation of Classical Potential
            Thur 03/15/2018
                                  8:30 AM UQ of Quantum Calculations (DFT and Other Approaches)
            Thur 03/15/2018
                                  2:00 PM UQ and Validation of Mesoscale Simulations
Computational Thermodynamics and Kinetics
            Mon 03/12/2018
                                  8:00 AM Structure and Property
            Mon 03/12/2018
                                  2:30 PM Transport
            Tues 03/13/2018
                                  8:30 AM Transport and Structure
            Wed 03/14/2018
                                  8:30 AM Phase Equilibria and Transformations
            Wed 03/14/2018
                                  2:00 PM Thermochemistry and Thermomechanics
            Thur 03/15/2018
                                  8:30 AM Phase Field
Coupling Advanced Characterization and Modeling Tools for Understanding Fundamental Phase Transformation Mechanisms:
An MPMD Symposium in Honor of Hamish Fraser
            Tues 03/13/2018
                                  8:30 AM Session I
            Tues 03/13/2018
                                  2:00 PM Session II
            Wed 03/14/2018
                                  8:30 AM Session III
            Wed 03/14/2018
                                  2:00 PM Session IV
Coupling Experiments and Modeling to Understand Plasticity and Failure
            Mon 03/12/2018
                                  8:00 AM Plasticity
            Mon 03/12/2018
                                  2:30 PM Fatigue
            Tues 03/13/2018
                                  8:30 AM Plasticity Induced Damage
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Tues 03/13/2018 2:00 PM Dislocation Scale Plasticity Wed 03/14/2018 8:30 AM Plasticity in HCP Alloys

## Deformation and Damage Mechanisms in High Temperature Ni, Co and Fe-based Superalloys

Mon 03/12/2018	8:00 AM	1A: Grain Size Development During Forging & Heat Treatment in Ni-based Superalloys.1B: Recrystallization & Grain Growth Ni-based Superalloys.  2A: Precipitation Dissolution, Liquation in & Welding of Ni-based Superalloys.2B: Effects of Ordering and Precipitate Behavior in Ni-based
Mon 03/12/2018	2:30 PM	Superalloys.
Tues 03/13/2018	8:30 AM	3A: Characterising Strain Localization in Ni-based Superalloys.3B Characterization & Understanding of Deformation in Ni-based Superalloys. 4A: Characterization of Creep Deformation & Damage in Ni-based Superalloys.4B: Characterization of Creep or Fatigue Deformation & Damage in
Tues 03/13/2018	2:00 PM	Ni-based Superalloys 5A: Fe-based Superalloy Development & Properties.5B: Deformation &
Wed 03/14/2018	8:30 AM	Damage in Fe and Ni-based Superalloys 6A:Ni-based Superalloy Development & Properties.6B: Microstructure &
Wed 03/14/2018	2:00 PM	Properties of Co-based Superalloys.
	ste Mate	rials: Recycling and Sustainability Joint Session
Wed 03/14/2018		Urban Mining and Electronic Waste
Thur 03/15/2018	8:30 AM	Industrial Streams I
Thur 03/15/2018	2:00 PM	Industrial Streams II
Design for Mechanical Behavior of A	Architectu	red Materials via Topology Optimization
Mon 03/12/2018		Optimal Design of Microlattices and Architected Materials Architected and Topology Optimization (TO) Design for Dynamic, Nonlinear,
Mon 03/12/2018	2:30 PM	and Energy Applications  Design and Topology Optimization (TO) Considering Manufacturability,
Tues 03/13/2018	8:30 AM	Microstructure, and Surface Effects Recent Advancements and Material Applications of Topology Optimization
Tues 03/13/2018	2:00 PM	(TO)
Dynamic Behavior of Materials VIII		
Mon 03/12/2018		Effect of Microstructure of Dynamic Response I
Mon 03/12/2018		Energetic Materials
Tues 03/13/2018		Dynamic Response of BCC Materials
Tues 03/13/2018		Effect of Microstructure of Dynamic Response II
Wed 03/14/2018		Dynamic Response of HCP Materials
Wed 03/14/2018	2:00 PM	Effect of Microstructure of Dynamic Response III
Electrode Technology	2.20 DM	Anode Raw Materials
Mon 03/12/2018		Joint Session with Aluminum Reduction
Tues 03/13/2018 Tues 03/13/2018		Anode Materials and Properties
Wed 03/14/2018		Cathode Materials and Properties
Wed 03/14/2018		Anode Forming and Baking
Energy Technologies and CO2 Mana		
Mon 03/12/2018	_	CO2 Capture
Mon 03/12/2018		Carbon-based Energy Materials and Sustainable Metallurgical Processes
Tues 03/13/2018		Novel Energy Technologies
Tues 03/13/2018	2:00 PM	Technologies for Energy Efficiency
Environmentally Assisted Cracking:		
Mon 03/12/2018	2:30 PM	Stress Corrosion Cracking I
Tues 03/13/2018	2:00 PM	Hydrogen Embrittlement
Wed 03/14/2018		Stress Corrosion Cracking II
Wed 03/14/2018		Environmental Degradation of Structural Materials
Thur 03/15/2018		Environmentally Assisted Cracking in Aluminum Alloys
Fatigue in Materials: Fundamentals,		
Mon 03/12/2018		Data-driven Investigations of Fatigue
Mon 03/12/2018	2:30 PIVI	Multiscale Modeling Approaches to Improve Fatigue Predictions

Tues 03/13/2018	8:30 AM Multi-mechanical Interactions During Extreme Environment Fatigue Loadings
Tues 03/13/2018	2:00 PM Relationships among Processing, Microstructure, and Fatigue Properties
Wed 03/14/2018	8:30 AM Fatigue Characterization Using Advanced Experimental Methods in 2D and 3D
Wed 03/14/2018	2:00 PM Fatigue Behaviors in Engineering Materials
Federation of European Materials S	Societies (FEMS) Keynote Symposium: Energy and Transportation from a European
Materials Perspective	
Wed 03/14/2018	8:30 AM Keynote Session I
Wed 03/14/2018	2:00 PM Keynote Session II
Fracture: 65 Years after the Weibu	ll Distribution and the Williams Singularity
Mon 03/12/2018	8:00 AM Session I
Mon 03/12/2018	2:30 PM Session II
Tues 03/13/2018	8:30 AM Session III
Tues 03/13/2018	2:00 PM Session IV
	hin Films and Nanostructured Materials
Mon 03/12/2018	8:00 AM Session I
Mon 03/12/2018	2:30 PM Session II
Tues 03/13/2018	8:30 AM Session III
Tues 03/13/2018	2:00 PM Session IV
Frontiers in Solidification Science a	
Tues 03/13/2018	2:00 PM Eutectic and Dendritic Growth
Wed 03/14/2018	8:30 AM Nucleation and Grain Refinement
Wed 03/14/2018	2:00 PM Effect of Microgravity and/or Convection on Solidification
<b>-</b> 1 00/1-/0010	Solidification Microstructures, Defects, Processing Methods, and Advanced
Thur 03/15/2018	8:30 AM Imaging
Thur 03/15/2018	2:00 PM Computational Modelling of Solidification: From Nano to Macro Scales
High Entropy Alloys VI	0.00 ANA The condend Other Borne divel
Mon 03/12/2018	8:00 AM Alley Bayeleys and Applications I
Mon 03/12/2018	8:00 AM Alloy Development and Applications I
Mon 03/12/2018	2:30 PM Alloy Davidson and Applications II
Mon 03/12/2018 Tues 03/13/2018	2:30 PM Alloy Development and Applications II 8:30 AM Structures and Mechanical Properties I
Tues 03/13/2018	2:00 PM Structures and Mechanical Properties II
Wed 03/14/2018	8:30 AM Structures and Modeling I
Wed 03/14/2018 Wed 03/14/2018	8:30 AM Structures and Characterization I
Wed 03/14/2018	2:00 PM Mechanical and Other Properties I
Wed 03/14/2018 Wed 03/14/2018	2:00 PM Structures and Characterization II
Thur 03/15/2018	8:30 AM Mechanical and Other Properties II
Thur 03/15/2018	8:30 AM Structures and Modeling II
Thur 03/15/2018	2:00 PM Mechanical and Other Properties III
Thur 03/15/2018	2:00 PM Alloy Development and Applications III
High Temperature Corrosion of Str	·
Wed 03/14/2018	8:30 AM Ni-base Alloys and Corrosive Environments at Elevated Temperatures
Wed 03/14/2018	2:00 PM Fe-base Alloys, Effect of CO2, and Coatings  Hot Corrosion, Materials Developed for Corrosive Environments at Elevated
Thur 03/15/2018	8:30 AM Temperatures, and Ti-alloys I  Hot Corrosion, Materials Developed for Corrosive Environments at Elevated
Thur 03/15/2018	2:00 PM Temperatures, and Ti-alloys II
	Computational Thermodynamics and Its Implications to Kinetics, Properties, and Materials
Design	
Mon 03/12/2018	8:00 AM Keynote Session
Mon 03/12/2018	2:30 PM Density Functional Theory Methods
Tues 03/13/2018	8:30 AM CALPHAD Methods
Tues 03/13/2018	2:00 PM Computational Thermodynamic Approaches
Wed 03/14/2018	8:30 AM Data Science and Diffusion
Wed 03/14/2018	2:00 PM Early Career Scientist
Integrative Materials Design III: Per	·

		New Directions, Process Optimization, and Computational Modeling in Additive
Mon 03/12/2018	8.00 AM	Manufacturing
141011 03/12/2010	0.007111	Microstructure Evolution and Fatigue Performance in Additive Manufacturing
Mon 03/12/2018	2:30 PM	& Other Advanced Manufacturing Technologies
		Advanced Materials Characterization & Multi-scale Computational Modeling
Tues 03/13/2018	8:30 AM	for Integrative Design and Reliability
		Role of ICME, Data Management & Integrative Design for Fatigue and High
Tues 03/13/2018	2:00 PM	Temperature Performance
		Integrative Materials Design and Manufacturing: Approaches, Advances, and
Wed 03/14/2018	8:30 AM	Applications
		Energy and Sustainability Considerations in Integrative Materials Design and
Wed 03/14/2018		Manufacturing
Looking through the Kaleidoscope: I		•
Tues 03/13/2018		Morning Session
Tues 03/13/2018		Afternoon Session
Magnesium Alloy Development: An	-	
Tues 03/13/2018		Cast Alloys
Tues 03/13/2018		Wrought Alloys
Wed 03/14/2018	8:30 AM	Degradation and Microstructure
Magnesium Technology 2018	0.00 414	Voyante Cossian
Mon 03/12/2018		Keynote Session
Mon 03/12/2018		Corrosion and Surface Protection
Tues 03/13/2018		Alloy Design
Wed 03/14/2018		Primary Production and Casting
Thur 03/15/2018		Deformation Mechanisms The arms March arrival Processing
Thur 03/15/2018		Thermo-Mechanical Processing
Materials and Fuels for the Current		
Mon 03/12/2018	8:00 AM	
Mon 03/12/2018		Nuclear Materials
Tues 03/13/2018	8:30 AM	
Tues 03/13/2018		Structural Materials I
Wed 03/14/2018		Structural Materials II
Wed 03/14/2018		Structural Materials III
Wed 03/14/2018		Structural Materials IV
Thur 03/15/2018		Modeling Structural Materials V
Thur 03/15/2018		Structural Materials V
Thur 03/15/2018		Structural Materials VI
Materials for Energy Conversion and	_	For a service to the service of the
Mon 03/12/2018		Energy Storage I
Mon 03/12/2018		Solid Oxide Fuel Cells I
Tues 03/13/2018		Solid Oxide Fuel Cells II
Tues 03/13/2018		Energy Storage II Functional Materials I
Wed 03/14/2018		
Wed 03/14/2018		Energy Harvesting I
Thur 03/15/2018		Energy Storage III
Thur 03/15/2018	2:00 PIVI	Energy Storage IV
Materials Innovation Keynote	0.20 414	Dia Data and Machina Learning for Materials
Tues 03/13/2018	8:30 AIVI	Big Data and Machine Learning for Materials
Materials Processing Fundamentals	0.00 414	Chalmaking Processing
Mon 03/12/2018 Mon 03/12/2018		Steelmaking - Processing Steelmaking - Properties
		Steelmaking - Properties  Multiphysics - Process Modeling and Sensing
Tues 03/13/2018		Multiphysics - Process Modeling and Sensing
Tues 03/13/2018		Alloy Processing and Properties Modeling
Wed 03/14/2018  Mechanical Behavior at the Nanosca		Extractive and Recovery Processing
Mon 03/12/2018		Nanonarous Materials and Thin Films
Mon 03/12/2018		Nanoporous Materials and Thin Films Twinning at the Nanoscale
Tues 03/13/2018		Nanolayers and Nanocomposites
1403 03/13/2010	O.JU AIVI	realizações ana realización posices

Tues 03/13/2018	2:00 PM 2D and Unique Structured Materials
Wed 03/14/2018	8:30 AM Material Properties in Small Dimensions
Wed 03/14/2018	8:30 AM Temperature, Rate and Environmental Effects
Wed 03/14/2018	2:00 PM Damage, Failure and Fracture
Thur 03/15/2018	8:30 AM Crystallite Effects and the Nanoscale
Thur 03/15/2018	2:00 PM Atomistic Simulations
	plication Properties of Metals and Non-metals for Technology: An EPD Symposium in
Honor of Donato Firrao	9:00 AM Compounds and Alloys
Mon 03/12/2018 Mon 03/12/2018	8:00 AM Compounds and Alloys 2:30 PM Steel
Tues 03/13/2018	
Tues 03/13/2018	8:30 AM Corrosion and Fatigue 2:00 PM Mechanical Properties
1des 03/13/2016	2.00 FW Wechanical Properties
Metal-Matrix Composites Innovation	ons, Advances and Applications: An SMD Symposium in Honor of William C. Harrigan, Jr.
Mon 03/12/2018	8:00 AM Aluminum and Lightweight Metal Matrix Composites
Mon 03/12/2018	2:30 PM Synthesis and Developments of Emerging Composites
Tues 03/13/2018	8:30 AM Basic History and Advances in Metal Matrix Composites
Tues 03/13/2018	2:00 PM Mechanical Behavior of Metal Matrix Composites
	ring: Processing and Materials Design
Tues 03/13/2018	8:30 AM Functionally Graded Metals and Composites
Tues 03/13/2018	2:00 PM Architectured and Mesostructured Materials
Wed 03/14/2018	8:30 AM Non-beam Based and Emerging AM Technologies for Metals
Wed 03/14/2018	2:00 PM Extrusion, Stereolithography, Binder Jetting, and Others
Nanocomposites V: Structure-Prop	erty Relationships in Nanostructured Materials
Mon 03/12/2018	8:00 AM Nanolaminates
Mon 03/12/2018	2:30 PM Nanostructures and Polymer Nanocomposites
Tues 03/13/2018	8:30 AM Nanocarbon/Metal Composites
Tues 03/13/2018	2:00 PM Metallic and Ceramic Nanocomposites
Wed 03/14/2018	8:30 AM Metal Matrix Nanocomposites
Non-equilibrium Features of Grain	
Mon 03/12/2018	8:00 AM Thermal Stability of Non-equilibrium Grain Boundaries
Mon 03/12/2018	2:30 PM Structure of Non-equilibrium Grain Boundaries
Tues 03/13/2018	8:30 AM Mechanical Responses of Non-equilibrium Grain Boundaries - Part I
Tues 03/13/2018	2:00 PM Mechanical Responses of Non-equilibrium Grain Boundaries - Part II
Perfluorocarbon Generation and En	
Tues 03/13/2018	2:00 PM PFC Generation Mechanisms from Industrial Processes
Wed 03/14/2018	8:30 AM PFC Measurements, Reduction and Abatement Methods
Wed 03/14/2018	2:00 PM PFC Emissions Accounting Methods and Global Inventory
•	ons, and Reactive Phase Formation in Electronic Materials XVII
Wed 03/14/2018	8:30 AM Phase Stability of Advanced Electronic Interconnection I
Wed 03/14/2018	2:00 PM Electromigration and Stability of Electronic Materials
Thur 03/15/2018 Thur 03/15/2018	8:30 AM Phase Stability of Advanced Electronic Interconnection II 2:00 PM Phase Stability of Energy Materials
Phase Transformation Across Multi	
Mon 03/12/2018	8:00 AM Structural Materials
Mon 03/12/2018	2:30 PM Modeling and Joined Materials
Tues 03/13/2018	8:30 AM Nanoscale Interfaces, Grain Boundaries and Coatings
Phase Transformations and Micros	
Mon 03/12/2018	8:00 AM Phase Transformations in Steels I
Mon 03/12/2018	2:30 PM Phase Transformations in Steels II
Tues 03/13/2018	8:30 AM Phase Transformations in Non-ferrous Systems I
Tues 03/13/2018	2:00 PM Phase Transformations in Non-ferrous Systems II
Wed 03/14/2018	8:30 AM Phase Transformations in Titanium I
Wed 03/14/2018	8:30 AM Special Topics in Phase Transformations I
Wed 03/14/2018	2:00 PM Phase Transformations in Titanium II
Wed 03/14/2018	2:00 PM Special Topics in Phase Transformations II
Powder Metallurgy of Light, Reactive	
Tues 03/13/2018	8:30 AM Metal Powder Production
. •	

Tues 03/13/2018	2:00 PM Aluminium Powder Metallurgy and Composites
Wed 03/14/2018	8:30 AM Porous Metal Materials
Wed 03/14/2018	2:00 PM Powder Metallurgy Processes of Various Materials
Thur 03/15/2018	8:30 AM Titanium Powder Metallurgy and Additive Manufacturing I
Thur 03/15/2018	2:00 PM Titanium Powder Metallurgy and Additive Manufacturing II
Rare Metal Extraction & Processing	
Mon 03/12/2018	8:00 AM Rare Earth Element I
Mon 03/12/2018	2:30 PM Rare Earth Elements II and Platinum Group Metals
Tues 03/13/2018	8:30 AM Base and Rare Metals
Tues 03/13/2018	2:00 PM Ti, V, Mo & W rerials for Printed, Flexible and Wearable Electronics
Wed 03/14/2018	2:00 PM Printed Electronics and Additive Manufacturing
Thur 03/15/2018	8:30 AM 2D/3D Sensors and Devices
Thur 03/15/2018 Thur 03/15/2018	2:00 PM Material, Process Integration, and Characterization
	Structural and Functional Thin Films & Coatings
Mon 03/12/2018	8:00 AM Biomedical & Polymeric Applications
Mon 03/12/2018	2:30 PM Functional Films & Coatings I
Tues 03/13/2018	8:30 AM Functional Coatings for Green Technology and Sustainability
Tues 03/13/2018	2:00 PM Functional Films & Coatings II
Refractory Metals 2018	
Mon 03/12/2018	8:00 AM Refractory Metal Silicides and Composites
Mon 03/12/2018	2:30 PM Refractory Metals and Alloys
Scandium Extraction and Use in Alu	
Mon 03/12/2018	2:30 PM Scandium Extraction
Tues 03/13/2018	8:30 AM Aluminum Scandium Alloys
Solar Cell Silicon	
Wed 03/14/2018	2:00 PM Silicon Photovoltaics
Thur 03/15/2018	8:30 AM Silicon Recycling, Refining, and Impurity Removal
Thur 03/15/2018	2:00 PM Silicon Production, Crystallization, and Properties
Chanad Danawahla Engage in Coal	
Stored Renewable Energy in Coal	
Wed 03/14/2018	8:30 AM Stored Renewable Energy in Coal
Wed 03/14/2018	
Wed 03/14/2018 Surface Engineering for Improved C	Corrosion Resistance
Wed 03/14/2018 Surface Engineering for Improved C Mon 03/12/2018	Corrosion Resistance 2:30 PM Session I
Wed 03/14/2018 Surface Engineering for Improved C Mon 03/12/2018 Tues 03/13/2018	Corrosion Resistance 2:30 PM Session I 8:30 AM Session II
Wed 03/14/2018 Surface Engineering for Improved C Mon 03/12/2018 Tues 03/13/2018 Tues 03/13/2018 Surface Interactions in Materials Mon 03/12/2018	Corrosion Resistance 2:30 PM Session I 8:30 AM Session II
Wed 03/14/2018 Surface Engineering for Improved C Mon 03/12/2018 Tues 03/13/2018 Tues 03/13/2018 Surface Interactions in Materials Mon 03/12/2018 Mon 03/12/2018	2:30 PM Session I 8:30 AM Session II 2:00 PM Session III  8:00 AM Chemical and Physical Interactions 2:30 PM Physical and Mechanical Interactions
Wed 03/14/2018 Surface Engineering for Improved C Mon 03/12/2018 Tues 03/13/2018 Tues 03/13/2018 Surface Interactions in Materials Mon 03/12/2018 Mon 03/12/2018 Thermal and Mechanical Stability o	2:30 PM Session I 8:30 AM Session II 2:00 PM Session III  8:00 AM Chemical and Physical Interactions 2:30 PM Physical and Mechanical Interactions f Nanocrystalline Materials
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Wed 03/14/2018  Surface Engineering for Improved C  Mon 03/12/2018  Tues 03/13/2018  Tues 03/13/2018  Surface Interactions in Materials  Mon 03/12/2018  Mon 03/12/2018  Thermal and Mechanical Stability of Tues 03/13/2018  Wed 03/14/2018	2:30 PM Session I 8:30 AM Session II 2:00 PM Session III  8:00 AM Chemical and Physical Interactions 2:30 PM Physical and Mechanical Interactions f Nanocrystalline Materials 2:00 PM Thermal Stability of Nanocrystalline Metals II 8:30 AM Thermal Stability of Nanocrystalline Metals II
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Wed 03/14/2018  Surface Engineering for Improved C  Mon 03/12/2018  Tues 03/13/2018  Tues 03/13/2018  Surface Interactions in Materials  Mon 03/12/2018  Mon 03/12/2018  Thermal and Mechanical Stability of Tues 03/13/2018  Wed 03/14/2018  Wed 03/14/2018  Thur 03/15/2018  Thur 03/15/2018  Thur 03/15/2018	2:30 PM Session I 8:30 AM Session II 2:00 PM Session III  8:00 AM Chemical and Physical Interactions 2:30 PM Physical and Mechanical Interactions f Nanocrystalline Materials 2:00 PM Thermal Stability of Nanocrystalline Metals I 8:30 AM Thermal Stability of Nanocrystalline Metals II 2:00 PM Joint Session with Non-equilibrium Features of Grain Boundaries 8:30 AM Mechanical Stability and Deformation Behavior 8:30 AM Nanotwin and Oxide Induced Stabilization 2:00 PM Composites and Heterophase Interfaces
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Wed 03/14/2018  Surface Engineering for Improved C  Mon 03/12/2018  Tues 03/13/2018  Tues 03/13/2018  Surface Interactions in Materials  Mon 03/12/2018  Mon 03/12/2018  Thermal and Mechanical Stability of Tues 03/13/2018  Wed 03/14/2018  Wed 03/14/2018  Thur 03/15/2018  Thur 03/15/2018  Thur 03/15/2018  Thur 03/15/2018  Thermo-mechanical Response of Materials  Tues 03/13/2018	2:30 PM Session I 8:30 AM Session II 2:00 PM Session III  8:00 AM Chemical and Physical Interactions 2:30 PM Physical and Mechanical Interactions f Nanocrystalline Materials 2:00 PM Thermal Stability of Nanocrystalline Metals I 8:30 AM Thermal Stability of Nanocrystalline Metals II 2:00 PM Joint Session with Non-equilibrium Features of Grain Boundaries 8:30 AM Mechanical Stability and Deformation Behavior 8:30 AM Nanotwin and Oxide Induced Stabilization 2:00 PM Composites and Heterophase Interfaces laterials with Special Emphasis on In-situ Techniques 8:30 AM High Temperature Mechanical Properties of Materials I
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Wed 03/14/2018  Surface Engineering for Improved C  Mon 03/12/2018  Tues 03/13/2018  Tues 03/13/2018  Surface Interactions in Materials  Mon 03/12/2018  Mon 03/12/2018  Thermal and Mechanical Stability of Tues 03/13/2018  Wed 03/14/2018  Wed 03/14/2018  Thur 03/15/2018  Thur 03/15/2018  Thur 03/15/2018  Thur 03/15/2018  Thermo-mechanical Response of M  Tues 03/13/2018  Tues 03/13/2018  Wed 03/14/2018  Wed 03/14/2018	2:30 PM Session I 8:30 AM Session II 2:00 PM Session III  8:00 AM Chemical and Physical Interactions 2:30 PM Physical and Mechanical Interactions f Nanocrystalline Materials 2:00 PM Thermal Stability of Nanocrystalline Metals II 8:30 AM Thermal Stability of Nanocrystalline Metals II 2:00 PM Joint Session with Non-equilibrium Features of Grain Boundaries 8:30 AM Mechanical Stability and Deformation Behavior 8:30 AM Nanotwin and Oxide Induced Stabilization 2:00 PM Composites and Heterophase Interfaces laterials with Special Emphasis on In-situ Techniques 8:30 AM High Temperature Mechanical Properties of Materials II
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Wed 03/14/2018 Surface Engineering for Improved C Mon 03/12/2018 Tues 03/13/2018 Tues 03/13/2018 Surface Interactions in Materials Mon 03/12/2018 Mon 03/12/2018 Thermal and Mechanical Stability of Tues 03/13/2018 Wed 03/14/2018 Wed 03/14/2018 Thur 03/15/2018 Thur 03/15/2018 Thur 03/15/2018 Thur 03/15/2018 Thur 03/13/2018 Tues 03/13/2018 Wed 03/14/2018 Ultrafine-grained Materials X Mon 03/12/2018 Mon 03/12/2018 Tues 03/13/2018 Tues 03/13/2018	2:30 PM Session I 8:30 AM Session II 2:00 PM Session III  8:00 AM Chemical and Physical Interactions 2:30 PM Physical and Mechanical Interactions f Nanocrystalline Materials 2:00 PM Thermal Stability of Nanocrystalline Metals I 8:30 AM Thermal Stability of Nanocrystalline Metals II 2:00 PM Joint Session with Non-equilibrium Features of Grain Boundaries 8:30 AM Mechanical Stability and Deformation Behavior 8:30 AM Nanotwin and Oxide Induced Stabilization 2:00 PM Composites and Heterophase Interfaces laterials with Special Emphasis on In-situ Techniques 8:30 AM High Temperature Mechanical Properties of Materials I 2:00 PM High Temperature Mechanical Properties of Materials II 8:30 AM In-Situ TEM/SEM Nanomechanics 2:00 PM Nanomechanics with Synchrotron Diffraction  8:00 AM Pioneers of ECAE/ECAP and HPT 2:30 PM Pioneers of Alternative SPD Methods 8:30 AM Temperature Effects and Thermal Stability 2:00 PM Early Career Scientist

Wed 03/14/2018	2:00 PM Surface Processing and Twinning Phenomena
Wed 03/14/2018	2:00 PM Radiation Tolerance and Particulate Approaches
Thur 03/15/2018	8:30 AM High Pressure Torsion and Equal Channel Angular Extrusion/Pressing Studies
Thur 03/15/2018	8:30 AM Texture Studies and Microstructural Evolution
Thur 03/15/2018	2:00 PM Bulk Processing and Applications