TMS2017 Symposium and Session List Updated February 1, 2017

2017 EDD Dictinguished Leature	
2017 EPD Distinguished Lecture	8:20 ANA Koupoto sossion
Mon 02/27/2017	8:30 AM Keynote session
2017 Light Metals Keynote Session	
Mon 02/27/2017	8:30 AM Global Aluminum Industry 2017: A Look Forward
	anomaterials: Emerging Nanomaterials and Nanotechnology
Mon 02/27/2017	8:30 AM Novel Nanomaterials and Techniques
Mon 02/27/2017	2:00 PM 2D Nanomaterials for Nanoelectronics
Tues 02/28/2017	8:30 AM Materials Design
Tues 02/28/2017	2:00 PM Nanomaterials for Nanoelectronics
Wed 03/01/2017	8:30 AM Nanomaterials for BT Applications
Wed 03/01/2017	8:30 AM Nanomaterials for ET Applications
Wed 03/01/2017	2:00 PM Nanomaterials Generals
Wed 03/01/2017	2:00 PM Low Dimensional Nanomaterials
8th International Symposium on H	ligh Temperature Metallurgical Processing
Mon 02/27/2017	9:20 AM Energy Efficient Clean Metallurgical Technology
Mon 02/27/2017	2:00 PM Simulation of High Temperature Process
Tues 02/28/2017	8:30 AM Fundamental Research of Metallurgical Process
Tues 02/28/2017	2:00 PM Alloys and Materials Preparation
Wed 03/01/2017	8:30 AM Extraction and Recovery of Metals
Wed 03/01/2017	2:00 PM Ironmaking and Steelmaking
Thur 03/02/2017	8:30 AM Treatment and Recycling of Slag/Wastes
Thur 03/02/2017	2:00 PM Utilization of Complex Ores
A Prospective Look at the MGI Aft	er Five Years
A Prospective Look at the MGI After Mon 02/27/2017	
Mon 02/27/2017	er Five Years 3:25 PM Keynote Session
Mon 02/27/2017 Acta Materialia Symposium	3:25 PM Keynote Session
Mon 02/27/2017 Acta Materialia Symposium Mon 02/27/2017	3:25 PM Keynote Session 3:15 PM Award Session
Mon 02/27/2017 Acta Materialia Symposium Mon 02/27/2017 Additive Manufacturing of Metals	3:25 PM Keynote Session
Mon 02/27/2017 Acta Materialia Symposium Mon 02/27/2017 Additive Manufacturing of Metals Relationships	3:25 PM Keynote Session 3:15 PM Award Session : Establishing Location-Specific Processing-Microstructure-Property
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Additive Manufacturing: Past, Prese	ent, and F	uture
Mon 02/27/2017	2:00 PM	Joint Keynote Session
Advanced Characterization Techniq	ues for Q	uantifying and Modeling Deformation Mechanisms
Mon 02/27/2017	8:30 AM	Session I
Mon 02/27/2017	2:00 PM	Session II
Tues 02/28/2017	8:30 AM	Session III
Tues 02/28/2017	2:00 PM	Session IV
Wed 03/01/2017	8:30 AM	Session V
Wed 03/01/2017	2:00 PM	Session VI
Thur 03/02/2017	8:30 AM	Session VII
Thur 03/02/2017	2:00 PM	Session VIII
Advanced High-Strength Steels		
Mon 02/27/2017	8:30 AM	Fundamentals of Steel Design
Mon 02/27/2017	2:00 PM	Recent Developments in High-/Medium Mn Steels
Tues 02/28/2017	8:30 AM	Planar Defects and Interfaces
Tues 02/28/2017	2:00 PM	Impact of Solutes
Wed 03/01/2017	8:30 AM	Nanostructures and Precipitates
Wed 03/01/2017	2:00 PM	Microstructure Property Relationship
Thur 03/02/2017	8:30 AM	Processing of Advanced Steels
Advanced Materials for Energy Con	version a	nd Storage
Tues 02/28/2017	8:30 AM	Mico & Macro Reliability
Tues 02/28/2017	2:00 PM	Energy Storage I
Wed 03/01/2017	8:30 AM	Energy Storage II
Wed 03/01/2017	2:00 PM	Functional Materials I
Thur 03/02/2017	8:30 AM	Functional Materials II
Thur 03/02/2017		Energy Storage III
Advanced Materials in Dental and C	Orthopedi	c Applications
Mon 02/27/2017	8:30 AM	Session I
Mon 02/27/2017	2:00 PM	Session II
		on of Materials with Special Emphasis on In Situ Techniques
Mon 02/27/2017		In Situ Techniques I
Mon 02/27/2017		In Situ Techniques II
Tues 02/28/2017		In Situ Techniques III
Tues 02/28/2017		In Situ Techniques IV
Wed 03/01/2017		In Situ Techniques V
Advances in Environmental Techno	logies: Re	cycling and Sustainability Joint Session
		Advances in Environmental Technologies: Characterization and
Mon 02/27/2017	8:30 AM	Uncertainty
		Advances in Environmental Technologies: New Areas of Value
Mon 02/27/2017		Recovery
Alloys and Compounds for Thermoe		
Mon 02/27/2017		Session I
Mon 02/27/2017		Session II
Tues 02/28/2017		Session III
Tues 02/28/2017		Session IV
Thur 03/02/2017	8:30 AM	Session V

Alumina & Bauxite		
Mon 02/27/2017	2:00 PM	Digestion and Calcination
Tues 02/28/2017	8:30 AM	Bauxite Residues Technology
Wed 03/01/2017	8:30 AM	Non-traditional Resources
Aluminum Alloys, Processing and Cl	naracteriz	ation
Mon 02/27/2017	2:00 PM	Alloy Development and Applications
Tues 02/28/2017	8:30 AM	Heat Treatment
Tues 02/28/2017		Plasticity and Mechanical Behavior
Wed 03/01/2017		Solidification and Casting
Wed 03/01/2017	2:00 PM	Characterization
Aluminum Reduction Technology		
		Electrolyte and Fundamentals, Anode Effects and PFC
Mon 02/27/2017		Emissions
Tues 02/28/2017		Joint Session on Cell Lining Materials
Tues 02/28/2017		Cell Voltage and Pot Control
Wed 03/01/2017		Dry Scrubbing, Alumina Transport and Dissolution
Wed 03/01/2017		Modelling and Cell Design, Potroom Operations
Thur 03/02/2017		Technology Development
	•	s in Materials Processing, Energy and Environmental
Technologies: An EPD Symposium in		
Mon 02/27/2017		Plenary Session
Mon 02/27/2017		Electrometallurgy
Tues 02/28/2017		Hydrometallurgy
Tues 02/28/2017 Wed 03/01/2017		Pyrometallurgy I
Wed 03/01/2017 Wed 03/01/2017		Pyrometallurgy II Materials Processing and Plasma Processing
Thur 03/02/2017		Energy Storage and Engineering Issues
Thur 03/02/2017		Modeling and Simulation
Thur 03/02/2017		Thermodynamics and Kinetics
Applications of Solidification Fundar		
Mon 02/27/2017		Characterization of Solidification Structures I
Mon 02/27/2017		Characterization of Solidification Structures II
Tues 02/28/2017		Phase Field Modeling
Tues 02/28/2017		Simulation and Modeling of Solidification Behavior
Wed 03/01/2017		Solidification of Iron and Steel
Biological Materials Science		
Mon 02/27/2017	8:30 AM	Synthesis of Bio-inspired Composites
Mon 02/27/2017	2:00 PM	Biomaterials and Biomedical Applications
Tues 02/28/2017	8:30 AM	Bones, Teeth and Dental Materials
Tues 02/28/2017	2:00 PM	Structural Biological Materials I
Wed 03/01/2017	8:30 AM	Structural Biological Materials II
Wed 03/01/2017		Functional Biological Materials
Bio-Nano Interfaces and Engineerin	g Applicat	tions
Mon 02/27/2017	8:30 AM	Bio-Nano Interfaces: Fundamentals I
Mon 02/27/2017		Bio-Nano Interfaces: Biomedical Applications
Tues 02/28/2017		Bio-Nano Interfaces: Fundamentals II
Tues 02/28/2017	2:00 PM	Bio-Nano Interfaces: Engineering Applications

Bulk Metallic Glasses XIVMon 02/27/20178:30 AM Alloy Development and Application IMon 02/27/20172:00 PM Alloy Development and Application IITues 02/28/20178:30 AM Structures and Mechanical Properties ITues 02/28/20172:00 PM Structures and Mechanical Properties IIWed 03/01/20178:30 AM Structures and Mechanical Properties IIIWed 03/01/20178:30 AM Structures and Mechanical Properties IIIWed 03/01/20178:30 AM Structures and Mechanical Properties IIIWed 03/01/20178:30 AM Structures and Modeling IThur 03/02/20178:30 AM Mechanical and Other Properties IThur 03/02/20172:00 PM Structures and Modeling IIThur 03/02/20172:00 PM Mechanical and Other Properties IICast Shop Technology2:00 PM Continuous Strip Casting Mon 02/27/2017Mon 02/27/20172:00 PM Continuous Strip Casting Tues 02/28/2017Mon 02/27/20178:30 AM Melting, Energy, and Dross Wed 03/01/2017Wed 03/01/20178:30 AM Casthouse Management and AutomationCast Shop Technology:8:30 AM Casthouse Management and AutomationCast Shop Technology: Recycling and Sustainability Joint Session Tues 02/28/20172:00 PM Cast Shop/Recycling Joint SessionCast Shop Technology: Recycling and Sustainability Joint Session2:00 PM Cast Shop/Recycling Joint SessionCast Shop Technology: Recycling and Sustainability Joint Session2:00 PM Cast Shop/Recycling Joint SessionCast Shop Technology: Recycling and Sustainability Joint Session2:00 PM Cast Shop/Recycling Joint SessionCeramic Materials for Nuclear Energy
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Fuel Performance Modeling and Fundamental Defect Science inMon 02/27/20172:00 PM Ceramics
Mon 02/27/2017 2:00 PM Ceramics
Tues 02/28/2017 8:30 AM Transport
Tues 02/28/2017 2:00 PM Advanced Sintering, Characterization, and Measurement
Wed 03/01/2017 8:30 AM Non-oxide Ceramics for Nuclear Applications I
Wed 03/01/2017 2:00 PM Non-oxide Ceramics for Nuclear Applications II
Characterization of Materials through High Resolution Coherent Imaging
Mon 02/27/2017 8:30 AM Coherent Imaging I
Mon 02/27/2017 2:00 PM Coherent Imaging II
Tues 02/28/2017 8:30 AM Coherent Imaging and Phase Contrast I
Tues 02/28/2017 2:00 PM Phase Contrast Imaging II
Characterization of Minerals, Metals, and Materials
Mon 02/27/2017 8:30 AM Clays and Ceramics
Mon 02/27/2017 8:30 AM Soft Materials
Mon 02/27/2017 2:00 PM Electronic, Magnetic, Environmental, and Advanced Materials
Mon 02/27/2017 2:00 PM Nano Materials
Tues 02/28/2017 8:30 AM Alloys
Tues 02/28/2017 2:00 PM Powders and Foams
Wed 03/01/2017 8:30 AM Minerals
Wed 03/01/2017 2:00 PM Ferrous Metals

Thur 03/02/2017	8:30 AM	Method Development
Thur 03/02/2017	8:30 AM	Composites
Thur 03/02/2017	8:30 AM	Welding and Solidification
Thur 03/02/2017	2:00 PM	Non-Ferrous Metals
Thur 03/02/2017	2:00 PM	Materials Extraction
Computational Approaches to Mate	erials for E	nergy Applications
Wed 03/01/2017	8:30 AM	Session I
Wed 03/01/2017	2:00 PM	Session II
	-	nization – From Bulk to Materials Interfaces and 2D Materials
Mon 02/27/2017		Materials Informatics Approaches
Mon 02/27/2017		2D Materials and Materials Epitaxy
Tues 02/28/2017		Materials Surfaces, Interfaces, and Electrochemistry
Tues 02/28/2017	2:00 PM	Electronic, Magnetic, and Optical Properties
Wed 03/01/2017	8:30 AM	Mechanical Properties
Wed 03/01/2017	2:00 PM	Bulk Material Structures and Properties
Thur 03/02/2017	8:30 AM	Kinetics and Processing
Computational Methods and Exper	imental A	oproaches for Uncertainty Quantification and Propagation,
Model Validation, and Stochastic P	redictions	
		Mathematical Tools for Uncertainty Quantification and
Wed 03/01/2017	8:30 AM	Propagation
Wed 03/01/2017	2.00 bW	Uncertainty Quantification in Density Functional Theory (DFT)
	2.00110	Uncertainty Quantification and Model Validation for Classical
Thur 03/02/2017	8·30 AM	Force Fields
	0.507.101	Uncertainty Quantification for Multiscale and Continuum
Thur 03/02/2017	2.00 bW	Methods (FEM, Crystal Plasticity, etc.)
Computational Thermodynamics a		
Mon 02/27/2017		Microstructure Evolution I
Mon 02/27/2017		Thermodynamics and Alloy Design
Tues 02/28/2017		Grain Boundaries and Defects I
Tues 02/28/2017		Diffusion and Kinetics I
Wed 03/01/2017		Materials Physics
Wed 03/01/2017		Microstructure Evolution II, Thermodynamics and Alloys II
Thur 03/02/2017		Grain Boundaries and Defects II
Thur 03/02/2017		Diffusion and Kinetics II
Defects and Properties of Cast Met		
Mon 02/27/2017	als	
		Defects L - Molten Metal and Inclusions
	8:30 AM	Defects I - Molten Metal and Inclusions
Mon 02/27/2017	8:30 AM 2:00 PM	Defects II & Properties I
Mon 02/27/2017 Tues 02/28/2017	8:30 AM 2:00 PM 8:30 AM	Defects II & Properties I Properties II & Hot Tearing
Mon 02/27/2017 Tues 02/28/2017 Tues 02/28/2017	8:30 AM 2:00 PM 8:30 AM 2:00 PM	Defects II & Properties I Properties II & Hot Tearing Porosity
Mon 02/27/2017 Tues 02/28/2017 Tues 02/28/2017 Wed 03/01/2017	8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM	Defects II & Properties I Properties II & Hot Tearing Porosity Cast Iron & Steel
Mon 02/27/2017 Tues 02/28/2017 Tues 02/28/2017 Wed 03/01/2017 Wed 03/01/2017	8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM	Defects II & Properties I Properties II & Hot Tearing Porosity
Mon 02/27/2017 Tues 02/28/2017 Tues 02/28/2017 Wed 03/01/2017 Wed 03/01/2017 Deformation and Transitions at Interview	8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM erfaces	Defects II & Properties I Properties II & Hot Tearing Porosity Cast Iron & Steel Continuous and DC Casting
Mon 02/27/2017 Tues 02/28/2017 Tues 02/28/2017 Wed 03/01/2017 Wed 03/01/2017	8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM erfaces 8:30 AM	Defects II & Properties I Properties II & Hot Tearing Porosity Cast Iron & Steel

			Meso/Microstructural Scale Mechanical Behavior of
	Tues 02/28/2017	8:30 AM	Polycrystals I
	Tues 02/28/2017	2:00 PM	Fracture and Decohesion
			Meso/Microstructural Scale Mechanical Behavior of
	Wed 03/01/2017	8:30 AM	Polycrystals II
	Wed 03/01/2017	2:00 PM	Interfaces in Materials
			Grain Boundary Interactions with Dislocation and Twins in
	Thur 03/02/2017	8:30 AM	Hexagonal Metals
	Thur 03/02/2017	2:00 PM	Deformation and Grain Growth in Polycrystalline Materials
Deriving Valu	ue from Challenging Wa	aste Mate	rials: Recycling and Sustainability Joint Session
	Wed 03/01/2017	2:00 PM	Deriving Value from Challenging Waste I
	Thur 03/02/2017	8:30 AM	Deriving Value from Challenging Waste II
	Thur 03/02/2017	2:00 PM	Deriving Value from Challenging Waste III
Electrode Teo	chnology		
	Mon 02/27/2017	2:00 PM	Anode Characterization
	Tues 02/28/2017	2:00 PM	Electrodes: Raw Materials and Anode Quality
	Wed 03/01/2017	8:30 AM	Baking Furnace/Electrode Design
	Wed 03/01/2017	2:00 PM	Operation/Practice
Emerging Int	erconnect and Pb-free	Materials	for Advanced Packaging Technology
	Mon 02/27/2017	8:30 AM	Cu- and Ag- related Bonding Materials
	Mon 02/27/2017	2:00 PM	Mechanical Properties of Pb-free Materials
			Electromigration, Thermomigration and Electrochemical
	Tues 02/28/2017	8:30 AM	Behaviors
	Tues 02/28/2017	2:00 PM	Alloying and Doping of Pb-free Materials
			Intermetallic Compound and Microstructural Evolution of Pb-
	Wed 03/01/2017	8:30 AM	free Materials
	Wed 03/01/2017	2:00 PM	Tin Whisker and Wettability
	Thur 03/02/2017	8:30 AM	Transient Liquid Phase Bonding and Nanosolder
Energy Mate	rials 2017: Energy and	Environm	ental Issues in Materials Manufacturing and Processing
	Tues 02/28/2017	8:30 AM	Opportunities in the Steel Industry
			Opportunities in Aluminum Production, Waste Heat and Water
	Tues 02/28/2017	2:00 PM	Recovery
			Energy and Environmental Issues in Materials Manufacturing
	Wed 03/01/2017	8:30 AM	and Processing III
Energy Mate	rials 2017: Materials fo	r Coal-Ba	sed Power
	Tues 02/28/2017	2:00 PM	Session I
	Wed 03/01/2017	8:30 AM	Session II
	Wed 03/01/2017	2:00 PM	Session III
	Thur 03/02/2017	8:30 AM	Session IV
	Thur 03/02/2017	2:00 PM	Session V
Energy Mate	rials 2017: Materials fo	r Energy (Conversion with Emphasis on SOFC
	Mon 02/27/2017	8:30 AM	Session I
	Mon 02/27/2017	2:00 PM	Session II
	Tues 02/28/2017	8:30 AM	Session III
Energy Mate	rials 2017: Materials fo	r Gas Tur	bines
	Mon 02/27/2017	8:30 AM	Coatings

Mon 02/27/2017	2:00 PM	Hot Corrosion and New Materials
Tues 02/28/2017	8:30 AM	Creep and Failure
Tues 02/28/2017	2:00 PM	Microstructure and Processing
Energy Materials 2017: Materials for	or Nuclear	Energy
Wed 03/01/2017	8:30 AM	Materials for Nuclear Applications I
Wed 03/01/2017	2:00 PM	Materials for Nuclear Applications II
Thur 03/02/2017	8:30 AM	Environmental Effects
Thur 03/02/2017	2:00 PM	Accident Tolerant Fuels & Irradiation Effects
Energy Materials 2017: Materials for	or Oil and	Gas and AMREE Oil & Gas III
Mon 02/27/2017	8:30 AM	Harnessing Bulk Nanostructured Materials for Energy I
Mon 02/27/2017	2:00 PM	Harnessing Bulk Nanostructured Materials for Energy II Technological Innovation for Efficiency Enhancements in
Tues 02/28/2017	8:30 AM	-
Tues 02/28/2017		Hydrogen Effects on Materials in Energy
		Materials, Interfaces and Innovations for Hostile Oil and Gas /
Wed 03/01/2017	8:30 AM	
	0.007.00	Materials, Interfaces and Innovations for Hostile Oil and Gas /
Wed 03/01/2017	2:00 PM	Energy II
Energy Materials 2017: Materials in		
Mon 02/27/2017		Session I
Mon 02/27/2017	2:00 PM	Session II
Energy Technologies		
Wed 03/01/2017	8:30 AM	Energy Technologies
Wed 03/01/2017	2:00 PM	Novel Technologies
Thur 03/02/2017	8:30 AM	CO2 Management and Sustainable Metallurgical Processes
Thur 03/02/2017 Thur 03/02/2017		CO2 Management and Sustainable Metallurgical Processes Heat Recovery
	2:00 PM	Heat Recovery
Thur 03/02/2017	2:00 PM Theory ar	Heat Recovery
Thur 03/02/2017 Environmentally Assisted Cracking:	2:00 PM Theory ar 8:30 AM	Heat Recovery nd Practice
Thur 03/02/2017 Environmentally Assisted Cracking: Mon 02/27/2017	2:00 PM Theory ar 8:30 AM 2:00 PM	Heat Recovery nd Practice Hydrogen Embrittlement I
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Thur 03/02/2017 Environmentally Assisted Cracking: Mon 02/27/2017 Mon 02/27/2017 Tues 02/28/2017 Tues 02/28/2017 Wed 03/01/2017 Wed 03/01/2017 Fatigue in Materials: Fundamentals Mon 02/27/2017	2:00 PM Theory ar 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM , Multisca 8:30 AM 2:00 PM	Heat Recovery Ad Practice Hydrogen Embrittlement I Stress Corrosion Cracking I Hydrogen Embrittlement II Stress Corrosoin Cracking II Environmentally Assisted Embrittlement and Cracking I Environmentally Assisted Embrittlement and Cracking II le Modeling and Prevention Data-Driven Investigations of Fatigue Modeling Approaches to Improve Fatigue Predictions
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Thur 03/02/2017 Environmentally Assisted Cracking: Mon 02/27/2017 Mon 02/27/2017 Tues 02/28/2017 Tues 02/28/2017 Wed 03/01/2017 Wed 03/01/2017 Fatigue in Materials: Fundamentals Mon 02/27/2017 Mon 02/27/2017 Tues 02/28/2017 Mon 02/27/2017 Fatigue in Materials: Fundamentals Mon 02/27/2017 Tues 02/28/2017 Wed 03/01/2017 Wed 03/01/2017 Wed 03/01/2017 Wed 03/01/2017 Wed 03/01/2017 Wed 03/01/2017	2:00 PM Theory ar 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM	Heat Recovery de Practice Hydrogen Embrittlement I Stress Corrosion Cracking I Hydrogen Embrittlement II Stress Corrosoin Cracking II Environmentally Assisted Embrittlement and Cracking I Environmentally Assisted Embrittlement and Cracking II te Modeling and Prevention Data-Driven Investigations of Fatigue Modeling Approaches to Improve Fatigue Predictions Relationships Among Processing, Microstructure, and Fatigue Properties Fatigue Characterization Using Advanced Experimental Methods in 2D and 3D Creep, Fatigue, and Environmental Interactions Fatigue Behaviors of Engineering Alloys Small Dimensions Fracture Mechanisms and Modeling
Thur 03/02/2017 Environmentally Assisted Cracking: Mon 02/27/2017 Mon 02/27/2017 Tues 02/28/2017 Tues 02/28/2017 Wed 03/01/2017 Wed 03/01/2017 Fatigue in Materials: Fundamentals Mon 02/27/2017 Mon 02/27/2017 Tues 02/28/2017 Mon 02/27/2017 Mon 02/27/2017 Mon 02/27/2017 Fatigue in Materials: Fundamentals Mon 02/27/2017 Wed 03/01/2017 Yues 02/28/2017 Wed 03/01/2017 Fracture Properties and Residual St Wed 03/01/2017 Wed 03/01/2017 Wed 03/01/2017	2:00 PM Theory ar 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM	Heat Recoveryad PracticeHydrogen Embrittlement IStress Corrosion Cracking IHydrogen Embrittlement IIStress Corrosoin Cracking IIEnvironmentally Assisted Embrittlement and Cracking IEnvironmentally Assisted Embrittlement and Cracking IIIe Modeling and PreventionData-Driven Investigations of FatigueModeling Approaches to Improve Fatigue PredictionsRelationships Among Processing, Microstructure, and FatiguePropertiesFatigue Characterization Using Advanced ExperimentalMethods in 2D and 3DCreep, Fatigue, and Environmental InteractionsFatigue Behaviors of Engineering AlloysSmall DimensionsFracture Mechanisms and ModelingIn Situ Fracture Testing Methodologies
Thur 03/02/2017 Environmentally Assisted Cracking: Mon 02/27/2017 Mon 02/27/2017 Tues 02/28/2017 Tues 02/28/2017 Wed 03/01/2017 Wed 03/01/2017 Fatigue in Materials: Fundamentals Mon 02/27/2017 Mon 02/27/2017 Tues 02/28/2017 Mon 02/27/2017 Fatigue in Materials: Fundamentals Mon 02/27/2017 Tues 02/28/2017 Wed 03/01/2017 Wed 03/01/2017 Wed 03/01/2017 Wed 03/01/2017 Wed 03/01/2017 Wed 03/01/2017	2:00 PM Theory an 8:30 AM 2:00 PM 8:30 AM 2:00 PM 3:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM 8:30 AM 2:00 PM	Heat Recovery de Practice Hydrogen Embrittlement I Stress Corrosion Cracking I Hydrogen Embrittlement II Stress Corrosoin Cracking II Environmentally Assisted Embrittlement and Cracking I Environmentally Assisted Embrittlement and Cracking II te Modeling and Prevention Data-Driven Investigations of Fatigue Modeling Approaches to Improve Fatigue Predictions Relationships Among Processing, Microstructure, and Fatigue Properties Fatigue Characterization Using Advanced Experimental Methods in 2D and 3D Creep, Fatigue, and Environmental Interactions Fatigue Behaviors of Engineering Alloys Small Dimensions Fracture Mechanisms and Modeling

Friction Stir Welding and Processing IX

	Mon 02/27/2017	8:30 AM	High Temperature Applications I
	Tues 02/28/2017	8:30 AM	High Temperature Applications II
	Tues 02/28/2017	2:00 PM	Derivative Technologies
	Wed 03/01/2017	8:30 AM	Lightweight Applications
	Wed 03/01/2017	2:00 PM	Dissimilar Applications
	Thur 03/02/2017	8:30 AM	Industrial Applications
	Thur 03/02/2017		Control and Simulation
Frontiers in N	Materials Science. Engir	eering.a	nd Technology: An FMD Symposium in Honor of Sungho Jin
		0, -	Process-Property-Performance Correlations: Metals, Alloys and
	Mon 02/27/2017	8:30 AM	Ferroelectrics
		0.007.00	Process-Property-Performance Correlations: Q-D, 2-D and 3-D
	Mon 02/27/2017	2.00 PM	Materials & Structures
	111011 02/2//2017	2.00110	Structure-Property-Performance Correlations: Carbon
	Tues 02/28/2017	8.30 AM	Nanotubes, Boron Nitride and Biomaterials
	1003 02/20/2017	0.507.101	Process-Property-Performance Correlations: Titanates,
	Tues 02/28/2017	2.00 DM	Transition Metal Oxides, Chalcogenides & Beyond
	1003 02/20/2017	2.001101	Process-Property-Performance Correlations: Ferrites, Alloys,
	Wed 03/01/2017	8.30 VW	Devices & Systems
	Wed 03/01/2017	0.30 AIVI	Process-Property-Performance Correlations: Devices, Circuits,
	Wed 03/01/2017	2.00 014	Lead Free Solder & Packaging
			Metal Synthesis and Processing
i unuannenta	Mon 02/27/2017		Titanium and Advanced Materials
	Mon 02/27/2017		Powder Atomization and Synthesis
	Tues 02/28/2017		Field-assisted Processing
	Tues 02/28/2017		Fundamentals of Powder Consolidation
			JB>) Co-Based Superalloys II
-	Tues 02/28/2017		Microstructural Evolution
	Tues 02/28/2017		Alloy Development
	Wed 03/01/2017		Processing and Environmental Resistance
	Wed 03/01/2017		Mechanical Behavior I
	• •		
	Thur 03/02/2017		Mechanical Behavior II
GAT-2017 (G	amma Alloys Technolog		
	Mon 02/27/2017	8:30 AM	Keynote and Aero-Engine Blades Applications
	Mon 02/27/2017	2:00 PM	Surface Protection with Panel Discussion, and Posters Briefing
			Other Applications and Materials-Processes Development
	Tues 02/28/2017	8:30 AM	
	Tues 02/28/2017		Microstructure Evolution, Simulation and Prediction
	Wed 03/01/2017	8:30 AM	Processing-Microstructure-Property Relationships
			Microstructure Types, Boundary Effects, and Directional
	Wed 03/01/2017	2:00 PM	Solidification
	Thur 03/02/2017		Novel Processing - Additive Manufacturing, SPS and Ductility
	Thur 03/02/2017	2:00 PM	Technologically Critical Areas - Discussions
High Entropy	Allovs V		

Tues 02/28/2017	8:30 AM	Alloy Development and Applications I
Tues 02/28/2017	2:00 PM	Alloy Development and Applications II
Wed 03/01/2017	8:30 AM	Structures and Mechanical Properties I
Wed 03/01/2017	2:00 PM	Mechanical and Other Properties
Wed 03/01/2017	2:00 PM	Structures and Mechanical Properties II
Thur 03/02/2017		Structures and Characterization
Thur 03/02/2017	8:30 AM	Structures and Modeling I
Thur 03/02/2017		Structures and Modeling II
Thur 03/02/2017		Thermal and Other Properties
High Temperature Electrochemistry		
Wed 03/01/2017	8:30 AM	Nuclear Materials
Wed 03/01/2017	2:00 PM	Materials Electrochemistry I
Thur 03/02/2017		Materials Electrochemistry II
Hume-Rothery Award Symposium:	Alloy Pha	se Chemistry at the Atomic Level - Opportunities and Challenges
Mon 02/27/2017	8:30 AM	Session I
Mon 02/27/2017	2:00 PM	Session II
Tues 02/28/2017	8:30 AM	Session III
Tues 02/28/2017	2:00 PM	Session IV
Wed 03/01/2017	8:30 AM	Session V
ICME Gap Analysis: Structural Mate		utomotive Applications (Abstracts by invitation only)
Mon 02/27/2017	8:30 AM	High-Temperature Alloys for Automotive Applications
Mon 02/27/2017	2:00 PM	Light-weight Materials for Automotive Applications
In-situ Methods for Unraveling Stru	cture-Pro	perty Relationships in Light Metals
Tues 02/28/2017	8:30 AM	Imaging and Acoustic Emission
Tues 02/28/2017	2:00 PM	Diffraction and Other Novel Methods
Interface-Mediated Properties of Na	anostruct	ured Materials
Mon 02/27/2017	8:30 AM	Nanolaminates and Nanotwinned Materials I
Mon 02/27/2017	2:00 PM	Nanolaminates and Nanotwinned Materials II
Tues 02/28/2017	8:30 AM	Hierarchical Nanostructured Materials
Tues 02/28/2017	2:00 PM	Measurement and Modeling of Nanoscale Deformation
Magnesium Technology 2017		
Mon 02/27/2017	8:30 AM	Keynote Session
Tues 02/28/2017	8:30 AM	Alloy Development
Tues 02/28/2017	2:00 PM	Solidification and Processing I
		Mechanical Behavior: Twinning, Plasticity, Texture, and Fatigue
Wed 03/01/2017	8:30 AM	I
Wed 03/01/2017	8:30 AM	Solidification and Processing II
		Solidification and Processing III and Magnesium-Rare Earth
Wed 03/01/2017	2:00 PM	Alloys I
		Mechanical Behavior: Twinning, Plasticity, Texture, and Fatigue
Wed 03/01/2017	2:00 PM	II
Thur 03/02/2017	8:30 AM	Corrosion
Thur 03/02/2017	8:30 AM	Magnesium-Rare Earth Alloys II
		Mechanical Behavior: Twinning, Plasticity, Texture, and Fatigue
Thur 03/02/2017	2:00 PM	III
Materials and Euels for the Current	and Adva	nced Nuclear Reactors VI

Mon 02/27/2017	8:30 AM Fuels I
Mon 02/27/2017	2:00 PM Fuels II
Tues 02/28/2017	8:30 AM Fuels III
Tues 02/28/2017	2:00 PM Structural Materials I
Wed 03/01/2017	8:30 AM Structural Materials II
Wed 03/01/2017	2:00 PM Structural Materials III
Thur 03/02/2017	8:30 AM Structural Materials IV
Thur 03/02/2017	2:00 PM Modeling
	5
Materials by Design: An MPMD Sy	ymposium Honoring Greg Olson on the Occasion of His 70th Birthday
Tues 02/28/2017	8:30 AM Materials Design I
Tues 02/28/2017	2:00 PM Materials Design II
Materials Engineering of Soft Mag	gnets for Power and Energy Applications
	Nanocomposite Soft Magnetic Alloys for Power Electronics,
Wed 03/01/2017	8:30 AM Transformers, and Inductors
	Ferrites, Soft Magnetic Composites, and Bulk Soft Magnet
Wed 03/01/2017	2:00 PM Materials
	Advanced Soft Magnetic Material Characterization and
Thur 03/02/2017	8:30 AM Development Techniques
	Advanced Silicon Steels and Soft Magnetic Alloys for Rotating
Thur 03/02/2017	2:00 PM Electrical Machinery
	Applications: Next Generation Superalloys and Beyond
Mon 02/27/2017	8:30 AM Next Generation Superalloys I
Mon 02/27/2017	2:00 PM Next Generation Superalloys II
Tues 02/28/2017	8:30 AM Emerging Materials and Refractory Metals
Tues 02/28/2017	2:00 PM Refractory Metals
Wed 03/01/2017	8:30 AM Intermetallics and Additive Manufacturing of Superalloys
Wed 03/01/2017	2:00 PM Coatings and Environmental Resistance
Thur 03/02/2017	8:30 AM Ir Alloys and Next Generation Superalloys
Materials Processing Fundamenta	
Wed 03/01/2017	8:30 AM Steelmaking
Wed 03/01/2017	2:00 PM Metal Extraction
Thur 03/02/2017	8:30 AM Solid-state Processing
Thur 03/02/2017	2:00 PM Molten & Gas State Processing
Materials Science for High-Perfor	<u> </u>
Mon 02/27/2017	2:00 PM Nd-Fe-B: Microstructure and Properties
Tues 02/28/2017	8:30 AM Coercivity Mechanism
Tues 02/28/2017	2:00 PM Magnetization Process / Microstruacural Stability
Wed 03/01/2017	8:30 AM Nd-Fe-B Processing / New RE-lean Hard Magnets
Thur 03/02/2017	8:30 AM Search for New Hard Magnets / Non-Rare Earth Magnets
Thur 03/02/2017	2:00 PM Synthesis and Processing
11101 03/02/2017	
Mechanical and Creep Behavior c	of Advanced Materials: A SMD Symposium Honoring Prof. K. Linga Murty
	Introductory Session: Unique Mechanical Behavior and
Mon 02/27/2017	8:30 AM Technologies
Mon 02/27/2017	2:00 PM High Temperature Creep of Structural Materials
Tues 02/28/2017	8:30 AM Crystal Defects: Experiments and Modeling/Simulation

Tues 02/28/2017	2:00 PM	Advanced Materials and Processing
Wed 03/01/2017	8:30 AM	Materials for Nuclear Environments
		Creep, Creep-Fatigue and Related High Temperature
Wed 03/01/2017	2:00 PM	Mechanical Behavior
Thur 03/02/2017	8:30 AM	Miscellaneous Structure-property Correlations
		Mechanical Behavior of Titanium and Zirconium Containing
Thur 03/02/2017	2:00 PM	Alloys
Mechanical Behavior of Nanostruct	ured Mate	erials
Mon 02/27/2017	8:30 AM	Mechanical Behavior of Bulk Nanostructured Materials I
Mon 02/27/2017	2:00 PM	Mechanical Milling
Tues 02/28/2017	8:30 AM	Mechanical Behavior of Bulk Nanostructured Materials II
Tues 02/28/2017	2:00 PM	Metallic Glass and High Entropy Alloys
Wed 03/01/2017	8:30 AM	Mechanical Properties of Thin Films, Low Dimensional Material
		Modeling and Thermal Stability, Radiation, Corrosion of
Wed 03/01/2017	2:00 PM	Nanocrystals
Microstructural Processes in Irradia	ted Mate	rials
Mon 02/27/2017	8:30 AM	Advanced Characterization and Techniques
Mon 02/27/2017	2:00 PM	Reactor Pressure Vessel Steels
Tues 02/28/2017	8:30 AM	Ferritic and Ferritic-Martensitic Alloys I
Tues 02/28/2017	2:00 PM	Ferritic and Ferritic-Martensitic Alloys II
Wed 03/01/2017	8:30 AM	Austenitic Alloys
Wed 03/01/2017	2:00 PM	Fusion Materials and High-Temperature Alloys
Thur 03/02/2017	8:30 AM	Zr-Alloys and Advanced Modeling
Thur 03/02/2017	2:00 PM	Nuclear Fuels and Ceramics
Multiscale Architectured Materials	(MAM II):	Tailoring Mechanical Incompatibility for Superior Properties
Mon 02/27/2017	8:30 AM	Gradient Materials
Mon 02/27/2017		Heterogeneous Materials
Tues 02/28/2017		Heterogeneous and Gradient Materials
Tues 02/28/2017	2:00 PM	Laminated Materials
Wed 03/01/2017	8:30 AM	Materials with Architectured Structures
Wed 03/01/2017	2:00 PM	Novel and Complex Materials I
Thur 03/02/2017		Novel and Complex Materials II
Nanocomposites IV: Nanoscience for	or Renewa	ible Energy
Mon 02/27/2017		NanoScience Part I
Mon 02/27/2017		NanoScience Part II
Nanostructured Materials for Nucle		
Mon 02/27/2017		Session I
Mon 02/27/2017		Session II
Tues 02/28/2017		Session III
Tues 02/28/2017		Session IV
Nanostructured Surfaces for Improv		
Wed 03/01/2017		Session I
Wed 03/01/2017		Session II
Pan American Materials Congress P	-	
Tues 02/28/2017	8:30 AM	Session I

Tues 02/28/20	17 2:00 PM	Session II
Wed 03/01/20	17 8:30 AM	Session III
Wed 03/01/20	17 2:00 PM	Session IV
Pan American Materials Con	ngress: Advanced	Biomaterials
Wed 03/01/20	17 10:10 AM	Bioinspired, Drug Delivery and Biomimetic Materials
Wed 03/01/20	17 3:40 PM	Scaffolds and Nanobiomaterials
Thur 03/02/20	17 8:30 AM	Antibacterial and Nanostructured Materials
Thur 03/02/20	17 2:00 PM	Implants, Bone Graft and Drug Delivery
Pan American Materials Con	ngress: Advanced	Manufacturing
Tues 02/28/20	17 10:20 AM	Materials Processing
Tues 02/28/20	17 3:40 PM	Metals and Alloys
Wed 03/01/20	17 10:10 AM	Polymer, Composites, and Metals
Pan American Materials Con	ngress: Materials	for Green Energy
Tues 02/28/20	17 10:20 AM	Materials for Green Energy
Tues 02/28/20	17 3:40 PM	Environmental Assessment of Green Energy
Wed 03/01/20	17 10:10 AM	Battery Technologies for Green Energy
Pan American Materials Con	ngress: Materials	for Infrastructure
Wed 03/01/20	17 3:40 PM	Session I
Thur 03/02/20	17 2:00 PM	Session II
Pan American Materials Con	ngress: Materials	for Oil and Gas Industry
		Next Generation of Metallic and Non-metallic Materials Design,
Wed 03/01/20	17 3:40 PM	Manufacture and Processing
		Welding Technology, Corrosion Protection, Non-Destructive
Thur 03/02/20	17 8:30 AM	Evaluation, and Structural Integrity
Pan American Materials Con	ngress: Materials	for Transportation and Lightweighting
Tues 02/28/20	17 10:20 AM	Processing-Structure-Property Relationships I
Tues 02/28/20	17 3:40 PM	Structure-Property relationships II
Wed 03/01/20	17 3:40 PM	Aluminum Processing
Thur 03/02/20	17 8:30 AM	Composite Materials I
Thur 03/02/20	17 2:00 PM	Composite Materials II
Thur 03/02/20	17 2:00 PM	Joining
Pan American Materials Con	-	Extraction and Processing
Wed 03/01/20	17 3:40 PM	Waste Treatment and Processing
Thur 03/02/20	17 8:30 AM	Hydrometallurgical Processing
Thur 03/02/20	17 2:00 PM	Ore Processing
Pan American Materials Con	ngress: Nanocryst	alline and Ultra-fine Grain Materials and Bulk Metallic Glasses
		SPD Processing, Mechanical Properties of Nanocrystalline
Tues 02/28/20	17 10:20 AM	Materials, BMG
Tues 02/28/20	17 3:40 PM	Mechanical Properties of Structural Materials Processed by SPD
Wed 03/01/20	17 10:10 AM	Microstructure Evolution
Wed 03/01/20		Superplasticity, Wear, Corrosion, Magnetic, Electric and
Wed 03/01/20 Wed 03/01/20	17 3:40 PM	Superplasticity, Wear, Corrosion, Magnetic, Electric and Functional Properties
Wed 03/01/20	17 3:40 PM 17 8:30 AM	Superplasticity, Wear, Corrosion, Magnetic, Electric and

Thur 03/02/2017	2:00 PM	Phase, Interface and Crystalline Defects Evolution during SPD
Pan American Materials Congress: Steels		
Tues 02/28/2017	10:20 AM	Properties and Performance
Tues 02/28/2017	3:40 PM	Steelmaking & Solidification
Wed 03/01/2017	10:10 AM	Thermomechanical Processing and Properties
Phase Stability, Phase Transformations, and Reactive Phase Formation in Electronic Materials XVI		
Mon 02/27/2017	8:30 AM	Phase Stability on Energy Materials
Mon 02/27/2017	2:00 PM	Phase Stability & Phase Equilibria
Tues 02/28/2017	8:30 AM	Electromigration
Tues 02/28/2017	2:00 PM	Electronic Interconnection
Wed 03/01/2017	8:30 AM	Electrochemistry & Pb-free Soldering
Wed 03/01/2017	2:00 PM	Pb-free Soldering & UBM
Phase Transformations and Microstructural Evolution		
Mon 02/27/2017	8:30 AM	Steels & General
Mon 02/27/2017	2:00 PM	Ti & Zr, and Lightweight Metals Al & Mg
Tues 02/28/2017	8:30 AM	Shape Memory Alloys, and Lightweight Metals Al & Mg
Tues 02/28/2017	2:00 PM	Ti & Zr, and Steels
Wed 03/01/2017	8:30 AM	Shape Memory Alloys, and General
Wed 03/01/2017	2:00 PM	Ti & Zr
Thur 03/02/2017	8:30 AM	Steels and Shape Memory, and General
Pioneers in Additive Manufacturi	ng	
Tues 02/28/2017	8:30 AM	Session I
Tues 02/28/2017		Session II
Rare Metal Extraction & Processin	-	
Mon 02/27/2017	2:00 PM	Rare Earth Elements I
Tues 02/28/2017	8:30 AM	Rare Earth Elements II and Platinum Group Metals
Tues 02/28/2017		Base and Rare Metals
Recent Developments in Biological, Structural and Functional Thin Films and Coatings		
Mon 02/27/2017		Biomaterials and Functional Films
Mon 02/27/2017		Multiscale Modeling of Thin Films
Tues 02/28/2017		Functional Surfaces and Thin Films I
Tues 02/28/2017	2:00 PM	Functional Surfaces and Thin Films II
Solar Cell Silicon		
Wed 03/01/2017		Silicon Production, Crystallization, and Properties
Thur 03/02/2017		Silicon Impurity Removal and Refining
Thur 03/02/2017	2:00 PM	Silicon Photovoltaics
Solid State Precipitation		
Wed 03/01/2017		Session I
Thur 03/02/2017		Session II
Thur 03/02/2017		Session III
Student-Run Symposium: Building Bridges – Connecting Academic and Industry Research		
Mon 02/27/2017		Session I
Mon 02/27/2017		Session II
The John Cahn Memorial Symposium		
Wed 03/01/2017		Session I
Wed 03/01/2017	2:00 PM	Session II

The Science of Melt Refining: An LMD Symposium in Honor of Christian Simensen and Thorvald Abel Engh

Tues 02/28/2017 Tues 02/28/2017 8:30 AM TAE/CJS Honorary Symposium I: Inclusion Removal 2:00 PM TAE/CJS II Degassing and Oxidation