

Schedule-At-A-Glance

	Symposium 1: Development & Characterization of Multi-Functional Materials	Symposium 2: Mechanics and Behavior of Active Materials	Symposium 4: Integrated System Design and Implementation		Symposium 5: Structural Health and Performance Monitoring	Symposium 6: Bioinspired Smart Materials and Systems	Special Symposium: Embodying Physical Computing and Mechano- Intelligence			
		Symposium 3: Modeling Simulation and Control of Adaptive Systems			Symposium 7: Energy Harvesting					
Sunday, September 7										
1:00 PM - 6:00 PM										Leadership Summit Matterhorn
6:30 pm - 9:30 pm									Student Networking Event/ Game Night Zurich	
Monday, September 8										
	Bern	Zermatt	St. Moritz	Lugano	Davos	Alpine 1	Alpine 2	Versailles Ballroom 1	Versailles Foyer / Versailles Ballroom 2	
7:00 AM - 8:00 AM									Breakfast	
8:00 AM - 9:00 AM								Keynote: Steve Griffin		
9:10 AM - 10:30 AM	1-1 Shape Memory Alloys 1 (Constantin Ciocanel (Northern Arizona University), Peter Caltagirone (NASA))	2-1 Electro- and Magnetoactive Materials (Zhangxian Deng, Robin Collet)	4-1 SS: Deployable Space Structures (Maria Sakovsky, Xin Ning)		5-1 Smart Sensors for SHM (Haifeng Zhang, Zhenhua Tian)	6-1 Bioinspired Materials (Vanessa Restrepo, Sumit Das Lala)	S-1 Living and Bio-Inspired Systems (Suyi Li, Jovana Jovanova)			
10:30 AM - 10:50 AM									Coffee Break	
10:50 AM - 12:10 PM	1-2 Sensor and Actuator Materials 1 (Monday only) (Amir Ameli (UML), Brittany Newell (Purdue))	3-1 Mission-Adaptive Morphing UAVs (Darren Hartl (TAMU), Jay Kudva (Nextgenaero))	4-2 SMA Application in Mechanical Engineering (Kenny Pagel (FhG), Martin Radestock (DLR))	Best Student Paper Finals	7-1 Thermal and Biomechanical Energy Harvesting (Feng Qian (PSU Behrend), Lihua Tang (U of Auckland))	6-2 Biomolecular Networks and Synthetic Tissues (Eric Freeman (U Georgia), Andy Sarles (UT Knoxville))	S-2 Physical Intelligence in Robots I (Suyi Li, Patrick Musgrave)			
12:10 PM - 1:40 PM	TC: Active Material Technologies and/or Multifunctional Materials	TC: Adaptive Systems Dynamics and Controls	TC: Active Material Technologies and Integrated Systems	TC: Structural Health Monitoring	TC: Energy Harvesting	TC: Bioinspired Structures and Systems			Lunch	
1:40 PM - 3:00 PM									Hardware Showcase until 3:30	
3:00 PM - 3:30 PM									Coffee Break	
3:30 PM - 4:50 PM	1-3 Shape Memory Alloys 2 (Glen Bigelow (NASA), Constantin Ciocanel (Northern Arizona University))	3-2 Wave Propagation, Buckling, and Dynamic Response (Michael Philen)	4-3 Special Session: Toyota/University of Michigan Technology Incubator (Diann Brei (University of Michigan), Umesh Gandhi (Toyota Research))	4-4: SS: Multifunctional Energy Storage Systems (Sebastian Geier (DLR), Cody Gonzalez (UTSA))	5-2 Smart Materials and Sensors for SHM (Kim (Georgia Southern))	6-3 Soft Robotic Swimmers for Aquatic Applications (Salvador Rojas (CSULA), Ophelia Bolmin (Carnegie Mellon))	S-3 Novel Structural Concepts (Patrick Musgrave, Maria Sakovsky)			
5:30 PM - 7:00 PM									Reception	
7:00 PM - 9:00 PM								SMASIS Division		
6:30 PM - 9:30 PM										Student Outing

Schedule-At-A-Glance

Tuesday, September 9										
	Bern	Zermatt	St. Moritz	Lugano	Davos	Alpine 1	Alpine 2	Versailles Ballroom 1	Versailles Foyer / Versailles Ballroom 2	
7:00 AM - 8:00 AM									Breakfast	
8:00 AM - 9:00 AM								Keynote: George A Lesieutre		
9:10 AM - 10:30 AM	1-4 Multifunctional Composites/ Nanocomposites (Leily Majidi (California Poly), Amir Ameli (UML))	2-2 Shape Memory Alloy and Polymer Applications (Othmane Benafan, Koray Benli)	4-5 Morphing Aerospace Systems (Farhan Gandhi (NCSU), Brent Bielefeld (AFRL))	4-6 SS: Yarns and Textiles (Julianna Abel (UMN), Paul Alexander (GM))	5-3 Wave Physics-based SHM (Zhenhua Tian (VT), Haifeng Zhang (UNT))	6-4 Neuromorphic Computing (Andy Sarles (UT Knoxville), Reza Montazami (Iowa State))	5-4 Computing with Acoustic Wave (Andres Arrieta, Patrick Dorin)			
10:30 AM - 10:50 AM									Coffee Break	
10:50 AM - 12:10 PM	1-5 Sensor and Actuator Materials 2 (Amin Joodaky (MSU), Glen Bigelow (NASA))	3-3 Morphing Airfoils and Biomedical Systems (Sevki Cesmec)	4-7 Application of Advanced Computational Methods (Brent Bielefeld (AFRL), Darren Hartl (TAMU))	4-8 SS: Smart Textiles (Paul Alexander (GM), Julianna Abel (UMN))	7-2 Auxetic & Multistable Structures (Wei-Che Tai (MSU), Feng Qian (PSU Behrend))	6-5 Implants and Biomedicine (Cody Gonzalez (UTSA), Muibar Kahn (Georgia Southern))	5-5 Intelligence Embodied in Fluid-Structure Interactions (Suyi Li, Noel Naughton)			
12:10 PM - 1:40 PM									Lunch (Including Student Trivia)	JIMSS Editorial Board Meeting Geneva
1:40 PM - 3:00 PM	1-6 3D Printing/AM (Brittany Newell (Purdue), Zhenhua Tian (Virginia Poly))	3-4 Tensegrity and Adaptive Stiffness Mechanisms (Jeff Hill (BYU), Tatian Li)	4-9 SS: Adaptive and Multi-functional Space Structures (Maria Sakovsky (Stanford), Giada Rizzo (Harvard))	4-10 Wave Propagation, Acoustics, and Thermoelectrics (Martin Radestock (DLR), Sebastian Geier (DLR))	7-3 Metamaterials & Data-driven Identification (Wei-Che Tai (MSU), Lihua Tang (U of Auckland))	6-6 Bioinspired Design (Ophelia Bolmin (Carnegie Mellon), Caterina Lamuta (Ulowa))	5-6 Physical Intelligence in Robots II (Suyi Li, Mahdi Haghshenas-Jaryani)			
3:00 PM - 3:30 PM									Coffee Break	
3:30 PM - 4:50 PM		3-5 Nonlinear and Acoustic Metamaterials (Suyi Li, Chris Sugino)	4-11 Aerospace Applications of SMAs (Hans Peter Monner (DLR), Salvatore Ameduri (CIRA))	Students Career Panel			Industry Forum			
5:20 PM - 6:00 PM	Bus loading and Travel to Banquet									
6:30 PM- 8:45 PM	Pioneer Awards Banquet									
Wednesday, September 10										
	Bern	Zermatt	St. Moritz	Lugano	Davos	Alpine 1	Alpine 2	Versailles Ballroom 1	Versailles Foyer / Versailles Ballroom 2	
7:00 AM - 8:00 AM									Breakfast	
8:00 AM - 9:00 AM								Keynote: Katia Bertoldi		
9:10 AM - 10:30 AM	1-7 AI/ML for materials (Amin Joodaky (MSU), Donghyeon Ryu (New Mexico Tech))	2-3 Smart composites, Structures, and Metamaterials (Darren Hartl, Mustafa Alshaqqa)	4-12 Tailored Structures and Robots (Patrick Musgrave (UFL), Wonhee Kim (GM))		5-4 Fusion of Computation and Sensing for SHM (Bo Mi Lee (Missouri S&T), Hossain Ahmed (Georgia Southern))	6-7 Adaptive Systems in Robotics and Control (Aimy Wissa (Princeton), Cody Gonzalez (UTSA))	5-7 Computing Metamaterials (Andres Arrieta)			
10:30 AM - 10:50 AM									Coffee Break	
10:50 AM - 12:10 PM	1-8 Metamaterials (Amir Ameli (UML), Leily Majidi (Cal Poly))	3-6 Vibration Mitigation and Energy Harvesting (Abdu Abdelkefi)	4-13 SS: Active Hybrid Composites (Martin Gurka (IWW), Kenny Pagel (PhG-IWU))		5-5 SHM for Additive Manufacturing (Jinki Kim (Georgia Southern), Xinchang Zhang (INL))	6-8 Systems and Structures for Extreme Environments (Jovana Jovanova (TU Delft), Salvador Rojas (CSULA))	5-8 Physical Reservoir Computing: Fundamental Design and Analysis (Patrick Musgrave, Steven Kiyabu)			
Boeing's James S. McDonnell Prologue Room private tour (Pre-registration required) One hour tour: 2PM or 3PM (two options for the one hour tour: 2 pm or 3 pm (Attendees will need to arrange their own transportation))										