

2024 SEM Annual Conference Proposed Sessions

| TD/FG | Title | Organizer |
|---|--|---|
| Thermomechanics and Infrared Imaging | Advanced thermographic techniques for SHM | Rosa, Geir, Suhasini |
| Thermomechanics and Infrared Imaging | Thermomechanics | Rosa, Geir, Suhasini |
| Thermomechanics and Infrared Imaging | Thermography-based NDE and process monitoring | Rosa, Geir, Suhasini |
| Thermomechanics and Infrared Imaging | Low-cost thermography applications | Rosa, Geir, Suhasini |
| Thermomechanics and Infrared Imaging | Data fusion with thermographic techniques | Rosa, Geir, Suhasini |
| Thermomechanics and Infrared Imaging | Development and Applications of Novel temperature sensing Studies | Rosa, Geir, Suhasini |
| Thermomechanics and Infrared Imaging AND Additive and Advanced Manufacturing | IR-based techniques to assess fatigue and fracture in AM materials | Rosa, Geir, Suhasini |
| Dynamic Behavior of Materials | Brittle Materials and Geomaterials | Brett Williams, Addis Kidane, Mohamed Abbas |
| Dynamic Behavior of Materials | Low Impedance | Andrew Matejunas, Jennifer Jordan |
| Dynamic Behavior of Materials | Quantitative Visualization | Emily Pittman, Vignesh Kannan |
| Dynamic Behavior of Materials | Novel Experimental Techniques | Nathan Spulak, Trey Leonard |
| Dynamic Behavior of Materials | Shock Failure | Helios Matos, Piyush Wanchoo |
| Dynamic Behavior of Materials | Shock loading | Finnegan Wilson, Helios Matos |
| Dynamic Behavior of Materials | Impact/Penetration | Brady Aydelotte, George Vankirk |
| Dynamic Behavior of Materials AND Additive and Advanced Manufacturing | Dynamic Behavior of AM Materials | Trevor Fleck, Suraj Ravindran, Behrad Koohbor |
| Dynamic Behavior of Materials AND Inverse Methods and Machine Learning | Standardization and Automation of Dynamic Testing | Matt Shaeffer, Arezoo Zare, Andrew Roginski |
| Dynamic Behavior of Materials | Energetic Materials | Tom Kosta, Trey Leonard |
| Dynamic Behavior of Materials AND 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials | Composites | Drew Hackney, Helio Matos |
| Dynamic Behavior of Materials | Phase Transformations | Vignesh Kannan, Arezoo Zare |
| Residual Stress | Residual stress from manufacturing processes in heavy equipment | Jeff Bunn, Adrian DeWald |
| Residual Stress | Residual stress in the automotive industry | Nicholas Bachus |
| Residual Stress | Residual stress measured by high energy source diffraction: national facility capabilities | ?? |
| Residual Stress AND Additive and Advanced Manufacturing | Residual stress in additive manufacturing | Tom Bernfield |
| Residual Stress | Near surface residual stress | Ritan Mathews, Christopher D'Elia |
| Inverse Methods and Machine Learning | General Inverse Method Session | Marco Rossi |
| Inverse Methods and Machine Learning | Virtual Fields Methods | Marco Rossi |
| Inverse Methods and Machine Learning | Inverse Methods For Plasticity | Johan Hoefnagels |
| Inverse Methods and Machine Learning | Optimal experiment design | Sharlotte Kramer |
| Inverse Methods and Machine Learning | Machine Learning for Material Identification | Michael Mac Isaac |
| Inverse Methods and Machine Learning | Inverse methods for Dynamic Testing | Marco Sasso |
| Inverse Methods and Machine Learning AND Fracture and Fatigue | Identification for Fracture and Fatigue | John Considine |
| Inverse Methods and Machine Learning | Inverse Method on biological and biomedical applications | Nathan Bechle |
| Inverse Methods and Machine Learning AND Applications Committee | Industrial application for Material Identification | Pascal Lava ? |
| Fracture and Fatigue | Vibration and High Cycle Fatigue | Ryan Berke, Leah Ginsberg, Brian Wisner |
| Fracture and Fatigue | Brittle Material Failure | Scott Grutzik, Kimberly Mac Donald |

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| Fracture and Fatigue AND Time Dependent Materials | Damage and Fracture of Highly Deformable Solids | Kimberly Mac Donald |
| Fracture and Fatigue | Temperature Effects | Joe Indeck, Michael Schuster |
| Fracture and Fatigue | Interface-Mediated Damage and Failure | Scott Grutzik, Kimberly Mac Donald |
| Fracture and Fatigue | Fracture and Fatigue in Additive Manufacturing | Garrett Pataky, Will LePaige |
| Fracture and Fatigue | In-situ Techniques and Microscale Effects on Failure and Fatigue | Jay Carroll, Kaitlynn Fitzgerald |
| Fracture and Fatigue | Mechanics of Electrochemical and Electromechanical Materials | John Kolinski, Joe Indeck, Siva Nadimpalli |
| Fracture and Fatigue | Advances of Mechanics of Deformation, Plasticity, and Failure | J.C. Stimville, Ben Young |
| Fracture and Fatigue AND Research Committee | 3D Characterization of Plasticity and Failure | Philip Noell |
| Fracture and Fatigue | Integration of Models and Experiments | Scott Grutzik |
| Time-Dependent Materials | Time Dependences in Composites and Interfaces | Amy Engelbrecht-Wiggans & Richard Sheridan |
| Time-Dependent Materials | Polymer Physics/Mechanics | Pavan Kolluru & Sadeq Malakooti |
| Time-Dependent Materials | Data-driven methods in Time-Dependent Materials | Kshitiz Upadhyay & Hongbing Lu |
| Time-Dependent Materials | Damage, Fatigue and Fracture and Durability | Alireza Amirkhizi & Bonnie Antoun |
| Time-Dependent Materials | Time-Dependent Behavior in Biomaterials | Kshitiz Upadhyay & Meredith Silberstein |
| Time-Dependent Materials | Time-Dependent Behavior in Additively Manufactured Materials | Pavan Kolluru & Alireza Amirkhizi |
| Time-Dependent Materials | General Session | Pavan Kolluru, Kshitiz Upadhyay & Amy Engelbrecht-Wiggans |
| Additive and Advanced Manufacturing AND Dynamic Behavior of Materials | Dynamics Behavior of AM Materials | Trevor Fleck |
| Additive and Advanced Manufacturing AND Fracture and Fatigue | Fracture of Additively Manufactured Materials | Garrett Pataky |
| Additive and Advanced Manufacturing AND Residual Stress | Residual Stresses in Additive and Advanced Manufacturing | Ritin Mathews |
| Additive and Advanced Manufacturing AND 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials | AM of Composites | Piyush Thakre Frank Gardea |
| Additive and Advanced Manufacturing | Novel Testing Method | Emily Retzlaff |
| Additive and Advanced Manufacturing | Process-Structure-Properties | Emily Retzlaff |
| Additive and Advanced Manufacturing | Novel Processing Methods | Emily Retzlaff |
| Additive and Advanced Manufacturing | Process Monitoring of AM | Emily Retzlaff |
| Additive and Advanced Manufacturing | AM of Microsystems | Emily Retzlaff |
| Additive and Advanced Manufacturing | Applications of Additive and Advanced Manufacturing | Emily Retzlaff |
| Additive and Advanced Manufacturing | Metals | Emily Retzlaff |
| Additive and Advanced Manufacturing | Novel Structures and Design | Emily Retzlaff |
| 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials | Multifunctional composites | Brad Lawewnce |
| 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials | Sustainable Constituent Composites | Emin Bayraktar |
| 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials | Advances in composites | Michael Keller, Frank Gardea |
| 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials | Mechanics of Fibers and Inclusions | Frank Gardea |

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| 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials | Fracture and Fatigue of Composites | Michael Keller, Caroline Schell |
| 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials | Application/Industry session | Kevin Hart |
| 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials | Metamaterials | Sarah Fischer |
| 11th Int'l Symp on the Mechanics of Composite and Multifunctional Materials AND Time-Dependent Materials | Rate/Time Dependent joint session | ? |
| 15th International Symposium on the Mechanics of Biological Systems & Materials | Mechanics of the Brain and Traumatic Brain Injury | Karen Kasza, Jon Estrada, Alex McGhee |
| 15th International Symposium on the Mechanics of Biological Systems & Materials | Experimental Techniques in Biomechanics and Mechanobiology | Karen Kasza, Jon Estrada, Alex McGhee |
| 15th International Symposium on the Mechanics of Biological Systems & Materials AND Time-Dependent Materials | Time-dependent Behavior of Biological Materials | Karen Kasza, Jon Estrada, Alex McGhee |
| 15th International Symposium on the Mechanics of Biological Systems & Materials AND Optical Methods | Optical Methods for Biological Materials | Karen Kasza, Jon Estrada, Alex McGhee |
| 15th International Symposium on the Mechanics of Biological Systems & Materials | Multiscale Mechanics of Biological Materials | Karen Kasza, Jon Estrada, Alex McGhee |
| 15th International Symposium on the Mechanics of Biological Systems & Materials AND Inverse Methods and Machine Learning | Machine Learning and Biological Materials | Karen Kasza, Jon Estrada, Alex McGhee |
| 15th International Symposium on the Mechanics of Biological Systems & Materials | Biofilm Mechanics | Karen Kasza, Jon Estrada, Alex McGhee |
| 15th International Symposium on the Mechanics of Biological Systems & Materials | Novel and Emerging Techniques for Biofabrication and Engineered Living Materials | Karen Kasza, Jon Estrada, Alex McGhee |
| 15th International Symposium on the Mechanics of Biological Systems & Materials | Mechanics of Multicellular Tissues | Karen Kasza, Jon Estrada, Alex McGhee |
| 15th International Symposium on the Mechanics of Biological Systems & Materials | Cellular Force Generation and Mechanobiology | Karen Kasza, Jon Estrada, Alex McGhee |
| Education | Basics of... | Keller/Ginsberg? |
| Applications | Challenges in Industry | Sarah Fischer Evan Breedlove |
| Optical Methods | To celebrate Prof. Fu-Pen Chiang's Retirement | Austin Giordano We-Chung Wang Chi-Hung Hwang |
| Optical Methods | Optical Methods on Bio-Mechanics | Cosme Furlong Daniel Ruiz-Cadalso |
| Optical Methods | Visualization based Methods | Jonathan Oliveira Luis Motoharu Fujigaki |
| Optical Methods | Optical Measurement for Industry | Chi Hung Hwang Gordon Shaw Motoharu Fujigaki |
| Optical Methods | DIC Challenge | Phillip Reu Helena Jin |

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| Optical Methods | Machine Learning based Optical methods | Chi Hung Hwang Gordon Shaw |
| Optical Methods | Standardization of Optical Methods | Phillip Reu Gordon Shaw |
| Optical Methods | In-Situ Optical Methods on Manufacturing Quality Control | Koray Senol Cosme Furlong Motoharu Fujigaki Chi Hung Hwang |
| Optical Methods | Optical methods in micro- and nano-systems | Cosme Furlong Gordon Shaw |
| Optical Methods | New optical methods in experimental mechanics | Cosme Furlong Gordon Shaw Motoharu Fujigaki Chi Hung Hwang |
| Optical Methods | Holographic and LDV methods | Chi Hung Hwang Cosme Furlong |
| Optical Methods | DIC Applications | Phillip Reu Helena Jin Ming-Tzer Lin |
| Optical Methods | General topics in Photoelasticity and Interferometry | Wei-Chung Wang Ming-Tzer Lin Terry Chen |