| MS 0101 | Plan the future: Innovations in advanced cementitious materials and sustainability  
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| MS 0102 | Geometries & design: Opportunities for sustainable construction  
Ann Sychterz, Mija Hubler, Jiaolong Zhang, Ali Ghahremani and Yao Wang |
| MS 0103 | Mechanics of granular materials: Modeling and characterization  
Dawa Seo, Nitin Daphalapurkar and Darby Jon Luscher |
| MS 0104 | Mechanics of wood and wood-based materials  
Markus Lukacevic, Eric Landis, Sebastian Pech and Josef Füssl |
| MS 0105 | Mechanics of soft synthetic and biological materials: Theory, simulation, and experiment  
Berkin Dortdivanlioglu and Aditya Kumar |
| MS 0106 | Advances in modeling of material damage and fracture  
Lampros Svolos, Aditya Kumar, Mostafa Mobasher, Georgios Moutsanidis, Alessandro Fascetti, Ravindra Duddu and Haim Waisman |
| MS 0107 | Multiscale organization, mechanics and physics of layer-like, fibrous materials and related structures  
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| MS 0108 | Using pavement mechanics to develop pavement materials with less environmental impact  
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| MS 0109 | Modeling of materials with interfaces and scales using physics-based and machine-learning methods  
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MS 0114: Phase change materials (PCMs)-based multifunctional architected construction composites
Qingxu Jin and Hongyan Ma

MS 0115: Molecular scale modeling and experimentation
Dinesh Katti, Sinan Keten, Nima Rahbar, Rouzbeh Shahsavari, Kalpana Katti, Steve Cranford and Wenjie Xia

MS 0116: Pavement mechanics for digital twin of roadway infrastructure
Hao Wang, Michael Kaliske and Linbing Wang

MS 0117: Mechanics and physics of granular materials
Alessandro F. Rotta Loria, Ryan Hurley and Marcial Gonzalez

MS 0118: Physics informed machine learning for pavement mechanics
Egemen Okte

MS 0119: On the mechanics of road and paving materials in the cold, Nordic, and Arctic Regions
Augusto Cannone Falchetto, Shane Underwood and Di Wang

MS 0120: Architected materials
Pablo Zavattieri, Josephine Carstensen, Tian "Tim" Chen, Evgeni Filipov, Nilesh Mankame, Reza Moini, Jochen Mueller, Jordan Raney, David Restrepo, Mazdak Tootkaboni, X. Shelly Zhang and Yunlan Zhang

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Fariborz Tehrani

MS 0122: Modeling and characterization of brittle and quasibrittle fracture
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MS 0123: Multiscale behavior of damage and healing mechanics
Oliver Giraldo-Londoño, Poh Leong Hien, Glauco H. Paulino, George Z. Voyiadjis, Jiann-Wen Ju and Lizhi Sun

MS 0124: Physics informed machine learning (PIML) for mechanics of porous media
Dakshina Valiveti, Yanhua Yuan and Xiao-Hui Wu

MS 0125: Discrete models for the simulation of infrastructure materials
Gianluca Cusatis, Giovanni Di Luzio, Mohammed Alnaggar, Madura Pathirage and Jan Elias

MS 0126: Mechanics and modeling of pavement structures and materials
Ramez Hajj, Shane Underwood and Hao Wang
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**MS 0802:** *Machine learning applications in wind engineering*
Pedro Fernández-Cabán, Sungmoon Jung and Haifeng Wang

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Audrey Olivier, Michael Shields, Hadi Meidani and Lori Graham-Brady

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**MS 0902:** *Analytical, numerical and experimental modeling of complex dynamical systems under deterministic and stochastic inputs*
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MS 1002: Uncertainty characterization and propagation in complex nonlinear structures
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MS 1004: Multi-fidelity methods and machine learning for uncertainty propagation, inference, and optimization
Negin Alemazkoor and Ruda Zhang

MS 1005: Probabilistic, physics-guided, and multi-fidelity generative modeling for uncertainty quantification
Agnimitra Dasgupta, Roger Ghanem, Sanjay Govindjee and Assad Oberai

MS 1006: Uncertainty quantification and machine learning for design, optimization, and inference in multiscale systems
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MS 1009: Toward data-driven approaches for uncertainty quantification and propagation
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MS 1102: Objective resilience: Harnessing emerging technologies for enhancing infrastructure and community resilience
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MS 1103: Climate change, extreme weather events, and infrastructure resiliency
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Michael Hillman, Rudraprasad Bhattacharyya, Kundan Goswami and Gourab Ghosh

1300  **NOVEL METHODS IN ENGINEERING MECHANICS**

MS 1301:  **Novel methods in engineering mechanics**
Xiaojia Shelly Zhang

1400  **NOVEL METHODS AND APPLICATIONS IN PROBABILISTIC MECHANICS, MODELING AND RELIABILITY**

MS 1401:  **PMC - General session**
Paolo Gardoni