

Conference Agenda

Session Overview

Date: Tuesday, 10/Sept/2024

4:00pm - 6:00pm	Registration
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Date: Wednesday, 11/Sept/2024

8:00am - 6:00pm	Registration						
8:45am - 9:00am	Opening Session Location: EI7 Chair: Christian Hellmich						
9:00am - 9:45am	PL1: Plenary lecture Location: EI7						
9:45am - 10:15am	Coffee Break & Poster Session						
10:15am - 12:15pm	MS05-1: Bone mechanobiology: experimental and computational assessment across the scales Location: EI8 Chair: Peter Pivonka Chair: Francisco Javier Martínez Reina	MS06-1: Structural vibration control Location: EI10 Chair: Christoph Adam Chair: Antonina Pirrotta	MS13-1: Computational geomechanics Location: EI9 Chair: Wei Wu Chair: Yunteng Wang	MS15: Fundamental and practical insights into characterizing, measuring, and mitigating shrinkage and creep in cementitious materials Location: EI3 Chair: Agathe Robisson Chair: Dana Daneshvar	MS16-1: Mechanics of wood, wood-based products, biocomposites, and timber structures Location: EI7 Chair: Markus Lukacevic Chair: Michael Dorn	MS18-1: Computational methods for stochastic engineering mechanics Location: EI2 Chair: Ioannis P. Mitseas	RS01: Various topics Location: EI5 Chair: Herbert A. Mang
12:15pm - 1:30pm	Lunch Break						
1:30pm - 2:15pm	PL2: Plenary lecture Location: EI7						
2:15pm - 2:30pm	Transition						
2:30pm - 3:50pm	MS04-1: Continuum models for material failure: nonlocal, gradient-enhanced, micromorphic, and phase-field approaches Location: EI5 Chair: Matthias Neuner	MS05-2: Bone mechanobiology: experimental and computational assessment across the scales Location: EI8 Chair: Francisco Javier Martínez Reina Chair: Peter Pivonka	MS06-2: Structural vibration control Location: EI10 Chair: Christoph Adam Chair: Antonina Pirrotta	MS16-2: Mechanics of wood, wood-based products, biocomposites, and timber structures Location: EI7 Chair: Sebastian Pech Chair: Markus Lukacevic	MS17-1: Up-scaling challenges in the modeling of civil engineering materials Location: EI9 Chair: Laurent Brochard	MS18-2: Computational methods for stochastic engineering mechanics Location: EI2 Chair: Ioannis P. Mitseas	MS19-1: Engineering mechanics in tunnelling Location: EI3 Chair: Wouter De Corte Chair: Wei Song
3:50pm - 4:20pm	Coffee Break						
4:20pm - 6:00pm	MS02: Structural dynamics and control for offshore wind turbines, including floating systems Location: EI2 Chair: Breiffni Fitzgerald Chair: You Dong	MS04-2: Continuum models for material failure: nonlocal, gradient-enhanced, micromorphic, and phase-field approaches Location: EI5 Chair: Peter Gannitzer	MS06-3: Structural vibration control Location: EI10 Chair: Christoph Adam Chair: Antonina Pirrotta	MS08-1: Instabilities at various scales: modelling, analysis and design Location: EI3 Chair: Noel Challamel Chair: Ahmer Wadee	MS10: Advanced computational analyses for geotechnical and underground engineering Location: EI8 Chair: Boshan Zhang Chair: Benyi Cao	MS13-2: Computational geomechanics Location: EI9 Chair: Shabnam J. Semnani Chair: Qi ZHANG	MS16-3: Mechanics of wood, wood-based products, biocomposites, and timber structures Location: EI7 Chair: Sebastian Pech Chair: Eric Landis
6:30pm - 9:00pm	Welcome Cocktail Location: Cupola Hall						

Date: Thursday, 12/Sept/2024

8:00am - 6:00pm	Registration						
9:00am - 9:45am	PL3: Plenary lecture Location: EI7						
9:45am - 10:15am	Coffee Break						
10:15am - 12:15pm	MS03-1: Coupled chemical, physical and mechanical processes in cementitious materials relevant to the short- and long-term behavior of R.C. and P.C. structures Location: EI10 Chair: Roman Wan-Wendner	MS08-2: Instabilities at various scales: modelling, analysis and design Location: EI3 Chair: Stylianos Yiatros Chair: Spyros Karamanos	MS13-3: Computational geomechanics Location: EI9 Chair: Qi ZHANG Chair: Chengwei Zhu	MS14-1: Vibration-based monitoring of structural systems Location: EI2 Chair: Charikleia Stoura Chair: Shamim Pakzad	MS16-4: Mechanics of wood, wood-based products, biocomposites, and timber structures Location: EI7 Chair: Michael Schweigler Chair: Markus Lukacevic	MS27: Mechanical performance and durability of novel concretes and sustainable alternatives Location: EI8 Chair: Mija Hubler	MS29: Machine learning and artificial intelligence for constrained systems Location: EI5 Chair: Roger Ghanem
12:15pm - 1:30pm	Lunch Break						
1:30pm - 2:15pm	PL4: Plenary lecture Location: EI7						
2:15pm - 2:30pm	Transition						
2:30pm - 3:50pm	MS03-2: Coupled chemical, physical and mechanical processes in cementitious materials relevant to the short- and long-term behavior of R.C. and P.C. structures Location: EI10 Chair: Giovanni Di Luzio	MS08-3: Instabilities at various scales: modelling, analysis and design Location: EI3 Chair: Spyros Karamanos Chair: Stylianos Yiatros	MS14-2: Vibration-based monitoring of structural systems Location: EI2 Chair: Charikleia Stoura Chair: Shamim Pakzad	MS16-5: Mechanics of wood, wood-based products, biocomposites, and timber structures Location: EI7 Chair: Eric Landis Chair: Michael Schweigler	MS17-2: Up-scaling challenges in the modeling of civil engineering materials Location: EI8 Chair: Laurent Brochard	MS21-1: Computational methods for granular media Location: EI5 Chair: Pei Zhang Chair: Ning Guo	MS31-1: Collagen structure and mechanics Location: EI9 Chair: Philipp J. Thurner Chair: Patrick Mesquida
3:50pm - 4:20pm	Coffee Break						
4:20pm - 6:00pm	MS03-3: Coupled chemical, physical and mechanical processes in cementitious materials relevant to the short- and long-term behavior of R.C. and P.C. structures Location: EI10 Chair: Roman Wan-Wendner	MS08-4: Instabilities at various scales: modelling, analysis and design Location: EI3 Chair: Ahmer Wadee Chair: Noel Challamel	MS09-1: Hybrid and sub-structuring analyses, experimental tests and numerical modeling in civil engineering Location: EI2 Chair: Fabrice Gatuingt Chair: Stéphane Grange	MS13-4: Computational geomechanics Location: EI8 Chair: Chengwei Zhu Chair: Shabnam J. Semnani	MS19-2: Engineering mechanics in tunnelling Location: EI7 Chair: Günther Meschke Chair: Jiao-Long Zhang	MS21-2: Computational methods for granular media Location: EI5 Chair: Rafael Rangel Chair: Shiwei Zhao	MS31-2: Collagen structure and mechanics Location: EI9 Chair: Patrick Mesquida Chair: Philipp J. Thurner
6:30pm	Bus leave to Conference Banquet						
7:30pm - 10:00pm	Conference Banquet Location: Heurigen-Restaurant Fuhrgassl-Huber						

10:00pm	Bus leave back to Conference Venue
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10:30pm	

Date: Friday, 13/Sept/2024

8:00am - 2:30pm	Registration						
9:00am - 9:45am	PL5: Plenary lecture Location: EI7						
9:45am - 10:15am	Coffee Break						
10:15am - 12:15pm	MS01-1: Discrete models for the simulation of infrastructure materials Location: EI2 Chair: Jan Elias Chair: Gilles Pijaudier-Cabot This mini-symposium will provide a forum for international experts and researchers to discuss recent advances in discrete modeling. Topics of interest include fracture and creep, multiscale modeling, coupled formulations for mass transport, heat transfer, and mechanics in concrete and timber. Computational approaches of interest include, but are not limited to the Lattice Discrete Particle Model (LDPM), lattice beam models, and the Discrete Element Method (DEM).	MS07: Stochastic mechanical behaviors of quasi-brittle materials Location: EI10 Chair: Meng-Ze Lyu	MS11-1: Mechanics of multiphase-multiscale granular and particulate systems Location: EI9 Chair: Mahdia Hattab	MS16-6: Mechanics of wood, wood-based products, biocomposites, and timber structures Location: EI7 Chair: Michael Dorn Chair: Josef Füssl	MS23-1: The mechanics, chemistry, and physics for cement and concrete decarbonization Location: EI5 Chair: Kemal Celik	MS25-1: Non-local mechanics for unconventional modelling in bioengineering and advanced manufacturing Location: EI3 Chair: Massimiliano Zingales	MS28: Innovative experimental mechanics for fracture of heterogeneous materials Location: EI8 Chair: Eric Landis
12:15pm - 1:30pm	Lunch Break						
1:30pm - 2:30pm	MS01-2: Discrete models for the simulation of infrastructure materials Location: EI2 Chair: Gilles Pijaudier-Cabot Chair: Jan Elias This mini-symposium will provide a forum for international experts and researchers to discuss recent advances in discrete modeling. Topics of interest include fracture and creep, multiscale modeling, coupled formulations for mass transport, heat transfer, and mechanics in concrete and timber. Computational approaches of interest include, but are not limited to the Lattice Discrete	MS09-2: Hybrid and sub-structuring analyses, experimental tests and numerical modeling in civil engineering Location: EI10 Chair: Magdalini Titirla Chair: Stéphane Grange	MS11-2: Mechanics of multiphase-multiscale granular and particulate systems Location: EI9 Chair: Francois Nicot	MS12: Computational wind engineering applications and validations Location: EI7 Chair: Rathinam Selvam Chair: Zhi Zhang	MS23-2: The mechanics, chemistry, and physics for cement and concrete decarbonization Location: EI5 Chair: Kemal Celik	MS25-2: Non-local mechanics for unconventional modelling in bioengineering and advanced manufacturing Location: EI3 Chair: Emanuela Bologna	

	Particle Model (LDPM), lattice beam models, and the Discrete Element Method (DEM).						
2:30pm - 2:45pm	Transition						
2:45pm - 3:30pm	PL6: Plenary lecture Location: E17						
3:30pm - 3:45pm	Closing Session Location: E17 Chair: Christian Hellmich						