

The conference program listed below is tentative. There may be minor changes made before the congress. Minisymposium organizers should be contacted regarding the session and time for each presentation.

Date	Monday, July 25			Tuesday, July 26			Wednesday, July 27		
Plenary Lectures	8:15-9:15	1:00-2:00		8:15-9:15	1:00-2:00		8:15-9:15	1:00-2:00	
	Plenary Lecture Ghattas (Ballroom D)	Plenary Lectures LeTallec/Srolovitz (Ballrooms E&G)		Plenary Lecture Chew (Ballroom D)	Plenary Lectures Ortiz/Karniadakis (Ballrooms E&G)		Plenary Lecture Sato (Ballroom D)	Plenary Lectures Glimm/Fish (Ballrooms E&G)	
Room	9:45-11:35 - Technical Session I	2:10-4:00 - Technical Session II	4:30-6:20 - Technical Session III	9:45-11:35 - Technical Session IV	2:10-4:00 - Technical Session V	4:30-6:20 - Technical Session VI	9:45-11:35 - Technical Session VII	2:10-4:00 - Technical Session VIII	4:30-6:20 - Technical Session IX
Ballroom E	Nanoscale Mechanics and Materials (1)	Nanoscale Mechanics and Materials (2)	Nanoscale Mechanics and Materials (3)	Nanoscale Mechanics and Materials (4)	Nanoscale Mechanics and Materials (5)	Nanoscale Mechanics and Materials (6)	Nanoscale Mechanics and Materials (7)	Nanoscale Mechanics and Materials (8)	Nanoscale Mechanics and Materials (9)
Ballroom G	Bioengineering (1)	Bioengineering (2)	Bioengineering (3)	Bioengineering (4)	Bioengineering (5)	Bioengineering (6)	Bioengineering (7)	Bioengineering (8)	Bioengineering (9)
4A	Infrastructures - Large Scale and Dynamic (1)	Infrastructures - Large Scale and Dynamic (2)	Infrastructures - Large Scale and Dynamic (3)	Domain Decomposition and Fictitious Domain Methods (1)	Domain Decomposition and Fictitious Domain Methods (2)	Domain Decomposition and Fictitious Domain Methods (3)	Scalable Domain Decomposition Methods (1)	Scalable Domain Decomposition Methods (2)	
4BC		Impact and detonation effects on CE Structures (1)	Impact and detonation effects on CE Structures (2)	AM-FEM: Interacting Adaptive Modeling and Discretization (1)	AM-FEM: Interacting Adaptive Modeling and Discretization (2)	Solid & Fluid Mechanics: Multiphysical and Multiscale Problems (1)	Solid & Fluid Mechanics: Multiphysical and Multiscale Problems (2)	Solid & Fluid Mechanics: Multiphysical and Multiscale Problems (3)	
5A	Fracture and Durability of Heterogeneous Materials (1)	Fracture and Durability of Heterogeneous Materials (2)	Fracture and Durability of Heterogeneous Materials (3)	Advances in Functionally Graded Materials (1)	Advances in Functionally Graded Materials (2)	Advances in Functionally Graded Materials (3)	PhoXonic Bandgap Materials and Structures (1)	PhoXonic Bandgap Materials and Structures (2)	
5C	FEMs in Environmental Fluid Mechanics (1)	FEMs in Environmental Fluid Mechanics (2)	Automating Finite Element Computation: Will You Sign the Blueprints? (1)	Automating Finite Element Computation: Will You Sign the Blueprints? (2)	Discrete and Finite Element Simulation (1)	Discrete and Finite Element Simulation (2)			
6A	Advances in Boundary Element Methods (1)	Advances in Boundary Element Methods (2)	Advances in Boundary Element Methods (3)	Advances in Boundary Element Methods (4)	Advances in Boundary Element Methods (5)	Advances in Boundary Element Methods (6)	Topics in Computational Mechanics (1)	Topics in Computational Mechanics (2)	Topics in Computational Mechanics (3)
6B	Least-Squares Finite Element Method (1)	Least-Squares Finite Element Method (2)	Least-Squares Finite Element Method (3)	Least-Squares Finite Element Method (4)	Preconditioned Least Squares Methods and Applications (1)	Preconditioned Least Squares Methods and Applications (2)	NM for Quantum Mechanics and Continuum-Atomistic Coupling (1)	NM for Quantum Mechanics and Continuum-Atomistic Coupling (2)	NM for Quantum Mechanics and Continuum-Atomistic Coupling (3)
8A	Recent Advances in Enriched Finite Element Technology (1)	Recent Advances in Enriched Finite Element Technology (2)	Recent Advances in Enriched Finite Element Technology (3)	Recent Advances in Enriched Finite Element Technology (4)	Recent Advances in Enriched Finite Element Technology (5)	Superconvergence in Finite Elements (1)	Superconvergence in Finite Elements (2)	Superconvergence in Finite Elements (3)	Superconvergence in Finite Elements (4)
8C	Advances in the Mathematics of Finite Elements (1)	Advances in the Mathematics of Finite Elements (2)	Advances in the Mathematics of Finite Elements (3)	Advances in the Mathematics of Finite Elements (4)	Computational Mechanics and the cyberInfrastructure(1)				
9A	FEMs for Acoustics and Structural Sound (1)	FEMs for Acoustics and Structural Sound (2)	Fluid Structure Interaction (1)	Fluid Structure Interaction (2)	Fluid Structure Interaction (3)	Computational Wave Propagation (1)	Computational Wave Propagation (2)	Computational Wave Propagation (3)	Computational Wave Propagation (4)
9C	Spectral Methods for Mechanics Problems (1)	Spectral Methods for Mechanics Problems (2)	The hp-Version of the BEM - Mathematical Foundation	hp-FEM: Singularities, Solvers and Thin Structures (1)	hp-FEM: Singularities, Solvers and Thin Structures (2)	hp-FEM: Singularities, Solvers and Thin Structures (3)	hp-FEM: Singularities, Solvers and Thin Structures (4)	hp-FEM: Singularities, Solvers and Thin Structures (5)	hp-FEM: Singularities, Solvers and Thin Structures (6)
11A	Methods, Applications-Coupled Engineering Simulation (1)	Methods, Applications-Coupled Engineering Simulation (2)	Methods, Applications-Coupled Engineering Simulation (3)	Methods, Applications-Coupled Engineering Simulation (4)	Coupled Nonlinear Flow and Transport Phenomena (1)	Coupled Nonlinear Flow and Transport Phenomena (2)	Coupled Nonlinear Flow and Transport Phenomena (3)	Coupled Nonlinear Flow and Transport Phenomena (4)	Coupled Nonlinear Flow and Transport Phenomena (5)
11B	Advances in Pavement Mechanics (1)	Advances in Pavement Mechanics (2)	Inverse Problems (1)	Inverse Problems (2)	Inverse Problems (3)	Inverse Problems (4)	Wood and Wood Based Materials (1)	Wood and Wood Based Materials (2)	
12A	Homogenization and Effective Characteristics (1)	Homogenization and Effective Characteristics (2)	Homogenization and Effective Characteristics (3)	Homogenization and Effective Characteristics (4)	Defense and Security (1)	Defense and Security (2)	Defense and Security (3)	Defense and Security (4)	Defense and Security (5)
12B	Impact of Materials Chemistry on Materials Performance (1)	Scientific Visualization (1)	Scientific Visualization (2)	Homogenization (1)	Homogenization (2)	Homogenization (3)	Homogenization (4)	Homogenization (5)	Homogenization (6)
13A	Computational Contact Mechanics (1)	Computational Contact Mechanics (2)	Computational Contact Mechanics (3)	Crashworthiness and Impact Engineering (1)	Crashworthiness and Impact Engineering (2)	Crashworthiness and Impact Engineering (3)	Crashworthiness and Impact Engineering (4)	Crashworthiness and Impact Engineering (5)	
13B	Compatible Locally Mass Conservative Discretizations for Flow (1)	Compatible Locally Mass Conservative Discretizations for Flow (2)	Compatible Locally Mass Conservative Discretizations for Flow (3)	Micro-Flows: Computational Methods and Simulations (1)	Micro-Flows: Computational Methods and Simulations (2)	Advances in Hydrocode Methods and Applications (1)	Advances in Hydrocode Methods and Applications (2)	Advances in Hydrocode Methods and Applications (3)	Advances in Hydrocode Methods and Applications (4)
14	Verification and Validation in Solid Mechanics (1)	Verification and Validation in Solid Mechanics (2)	Verification and Validation in Solid Mechanics (3)	Uncertainties, Verification and Validation (1)	Uncertainties, Verification and Validation (2)	Uncertainties, Verification and Validation (3)	Uncertainties, Verification and Validation (4)	Uncertainties, Verification and Validation (5)	Uncertainties, Verification and Validation (6)
15	Math and Comp Foundations of Multiscale Modeling (1)	Math and Comp Foundations of Multiscale Modeling (2)	Math and Comp Foundations of Multiscale Modeling (3)	Math and Comp Foundations of Multiscale Modeling (4)	Math and Comp Foundations of Multiscale Modeling (5)	Math and Comp Foundations of Multiscale Modeling (6)	Math and Comp Foundations of Multiscale Modeling (7)	Math and Comp Foundations of Multiscale Modeling (8)	Math and Comp Foundations of Multiscale Modeling (9)
16A	Meshless Methods (1)	Meshless Methods (2)	Meshless Methods (3)	Meshless Methods (4)	Mesh and Geometry Generation (1)	Mesh and Geometry Generation (2)	Mesh and Geometry Generation (3)	Mesh and Geometry Generation (4)	Mesh and Geometry Generation (5)
16B	Mathematics of Meshless Methods, Generalized FEMs (1)	Mathematics of Meshless Methods, Generalized FEMs (2)	Mathematics of Meshless Methods, Generalized FEMs (3)	Meshfree and Particle Methods (1)	Meshfree and Particle Methods (2)	Meshfree and Particle Methods (3)	Meshfree and Particle Methods (4)	Meshfree and Particle Methods (5)	Meshfree and Particle Methods (6)
17A	A Posteriori Error Estimation from 1976 to 2005 (1)	A Posteriori Error Estimation from 1976 to 2005 (2)	A Posteriori Error Estimation from 1976 to 2005 (3)	A Posteriori Error Estimation from 1976 to 2005 (4)	A Posteriori Error Estimation from 1976 to 2005 (5)	A Posteriori Error Estimation from 1976 to 2005 (6)	A Posteriori Error Estimation from 1976 to 2005 (7)	A Posteriori Error Estimation from 1976 to 2005 (8)	A Posteriori Error Estimation from 1976 to 2005 (9)
17B	Geomechanics (1)	Geomechanics (2)	Geomechanics (3)	Geomechanics (4)	Geomechanics (5)	Generalized Continua (1)	Generalized Continua (2)	Generalized Continua (3)	
18A	Thin Films and Small Scale Mechanical Behavior (1)	Thin Films and Small Scale Mechanical Behavior (2)	Thin Films and Small Scale Mechanical Behavior (3)	Thin Films and Small Scale Mechanical Behavior (4)	Thin Films and Small Scale Mechanical Behavior (5)	Thin Films and Small Scale Mechanical Behavior (6)	Research Needs/Funding Opportunities	IBM	IBM
18B	Flow Simulation and Modeling: 1) Fundamental Technologies, 2) Moving Boundaries (1)	Flow Simulation and Modeling: 1) Fundamental Technologies, 2) Moving Boundaries (2)	Flow Simulation and Modeling: 1) Fundamental Technologies, 2) Moving Boundaries (3)	Flow Simulation and Modeling: 1) Fundamental Technologies, 2) Moving Boundaries (4)	Multiscale and Stabilized FEM (1)	Multiscale and Stabilized FEM (2)	Multiscale and Stabilized FEM (3)	Multiscale and Stabilized FEM (4)	Multiscale and Stabilized FEM (5)
18C	Computational MEMS/NEMS (1)	Computational MEMS/NEMS (2)	Computational MEMS/NEMS (3)	Solid and Fluid Mechanics: honor of J.N. Reddy (1)	Solid and Fluid Mechanics: honor of J.N. Reddy (2)	Solid and Fluid Mechanics: honor of J.N. Reddy (3)	Solid and Fluid Mechanics: honor of J.N. Reddy (4)	Solid and Fluid Mechanics: honor of J.N. Reddy (5)	
18D	Computational Mechanics and Optimization: Mukherjee (1)	Computational Mechanics and Optimization: Mukherjee (2)	Computational Mechanics and Optimization: Mukherjee (3)	Computational Mechanics and Optimization: Mukherjee (4)	Computational Mechanics and Optimization: Mukherjee (5)	Computational Mechanics and Optimization: Mukherjee (6)	Computational Mechanics and Optimization: Mukherjee (7)		
19A	Multiscale - Solid Mechanics (1)	Multiscale - Solid Mechanics (2)	Multiscale-Solid Mechanics (3)	Multiscale - Solid Mechanics (4)	Novel Analyses of Moving Boundary Problems (1)	Novel Analyses of Moving Boundary Problems (2)	Novel Analyses of Moving Boundary Problems (3)	Novel Analyses of Moving Boundary Problems (4)	
19B	Discontinuous Galerkin Methods (1)	Discontinuous Galerkin Methods (2)	Discontinuous Galerkin Methods (3)	Discontinuous Galerkin Methods (4)	Discontinuous Galerkin Methods (5)	Discontinuous Galerkin Methods (6)	Discontinuous Galerkin Methods (7)	Discontinuous Galerkin Methods (8)	Discontinuous Galerkin Methods (9)