

Session Schedule
Monday, December 3, 2007 (Part 1/2)

1st Floor					2nd Floor	
Annex 1	Room 104	Room F	Room G	Room H	Room B-1	Room B-2
8:45 - 9:05 Opening Remarks by G. Yagawa, S. Valliappan and V.P. Iu (1F Annex 1)						
9:05 - 10:05 Opening Lecture by A. Tsuge (1F Annex 1)						
10:15 - 10:40 Coffee Break						
10:40 - 12:30 MS2-1 Numerical Model Developments for Geophysical Fluid Dynamics	10:40 - 12:30 MS16-1 Future Directions of Large-Scale Scientific Computing and Parallel Linear Solvers	10:40 - 12:30 MS20-1 Advances in Computational Techniques for Fluid Mechanics and Fluid-Structure Interactions	10:40 - 12:05 MS5-1 The Scaled Boundary Finite Element Method	10:40 - 12:30 MS40-1 Computational Challenges for Mechanical Systems Innovation**	10:40 - 12:30 MS9-1 Ultrascale Hierarchical Simulations on High-End Parallel and Distributed Computers	10:40 - 12:30 MS11-1 Soft Computing and its Neighborhoods in Engineering, Architecture, and Environmental Science
12:30 - 14:00 Lunch						
14:00 - 15:50 MS2-2 Numerical Model Developments for Geophysical Fluid Dynamics	14:00 - 15:50 MS16-2 Future Directions of Large-Scale Scientific Computing and Parallel Linear Solvers	14:00 - 15:50 MS20-2 Advances in Computational Techniques for Fluid Mechanics and Fluid-Structure Interactions	14:00 - 15:40 MS5-2 The Scaled Boundary Finite Element Method	14:00 - 15:50 MS40-2 Computational Challenges for Mechanical Systems Innovation**	14:00 - 15:50 MS9-2 Ultrascale Hierarchical Simulations on High-End Parallel and Distributed Computers	14:00 - 15:40 MS11-2 Soft Computing and its Neighborhoods in Engineering, Architecture, and Environmental Science
15:50 - 16:10 Coffee Break						
16:10 - 17:35 MS2-3 Numerical Model Developments for Geophysical Fluid Dynamics	16:10 - 18:00 MS16-3 Future Directions of Large-Scale Scientific Computing and Parallel Linear Solvers	16:10 - 17:35 MS20-3 Advances in Computational Techniques for Fluid Mechanics and Fluid-Structure Interactions		16:10 - 18:00 MS40-3 Computational Challenges for Mechanical Systems Innovation**	16:10 - 17:10 MS9-3 Ultrascale Hierarchical Simulations on High-End Parallel and Distributed Computers	16:10 - 17:50 MS11-3 Soft Computing and its Neighborhoods in Engineering, Architecture, and Environmental Science
19:00 - 21:00 Reception (Banquet Hall Sakura)						

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Session Schedule
Monday, December 3, 2007 (Part 2/2)

2nd Floor			5th Floor		
Room I	Room J	Room K	Room 501	Room 509	Room 510
8:45 - 9:05 Opening Remarks by G. Yagawa, S. Valliappan and V.P. Iu (1F Annex 1)					
9:05 - 10:05 Opening Lecture by A. Tsuge (1F Annex 1)					
10:15 - 10:40 Coffee Break					
10:40 - 11:30 GS1 Computational Mechanics of Ferro- and Piezoelectric Materials	10:40 - 12:30 MS19-1 Mechanics of Heterogeneous Structures*	10:40 - 11:40 MS17-1 Recent Advances in Interaction and Multiscale Mechanics	10:40 - 12:30 MS39-1 Stress Effects in Materials: From the Evolution of Microstructures to Properties	10:40 - 12:05 MS44-1 Advanced Numerical Methods in Computational Material Forming	10:40 - 11:55 GS2 Computational Mechanics of Structures 1
12:30 - 14:00 Lunch					
14:00 - 15:40 MS28-1 Modeling and Simulation on Plasticity - from Nano Scale to Macro Scale -	14:00 - 16:05 MS19-2 Mechanics of Heterogeneous Structures*	14:00 - 15:40 MS17-2 Recent Advances in Interaction and Multiscale Mechanics	14:00 - 15:15 MS39-2 Stress Effects in Materials: From the Evolution of Microstructures to Properties	14:00 - 15:50 MS44-2 Advanced Numerical Methods in Computational Material Forming	14:00 - 15:40 GS3 Computational Mechanics of Structures 2
15:50 - 16:10 Coffee Break					
16:10 - 18:15 MS28-2 Modeling and Simulation on Plasticity - from Nano Scale to Macro Scale -	16:10 - 17:50 GS4 Finite Element Methods	16:10 - 17:50 MS17-3 Recent Advances in Interaction and Multiscale Mechanics	16:10 - 18:00 MS41-1 Computational Methods in Environmental Flow Problems	16:10 - 18:00 MS44-3 Advanced Numerical Methods in Computational Material Forming	16:10 - 17:50 GS5 Computational Mechanics of Structures 3
19:00 - 21:00 Reception (Banquet Hall Sakura)					

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Session Schedule
Tuesday, December 4, 2007 (Part 1/2)

1st Floor					2nd Floor	
Annex 1	Room 104	Room F	Room G	Room H	Room B-1	Room B-2
8:15 - 10:15 PL1 Plenary Lectures S. Valliappan H. Mang W.K. Liu					8:15 - 10:15 PL2 Plenary Lectures E. Oñate T. Tezduyar R. Ohayon	8:15 - 10:15 PL3 Plenary Lectures T. Belytschko D.R.J. Owen W. Kanok- Nukulchai
10:15 - 10:40 Coffee Break						
10:40 - 12:30 MS8-1 Computational Mechanics for Electronic Devices/ Components*	10:40 - 12:30 MS16-4 Future Directions of Large-Scale Scientific Computing and Parallel Linear Solvers	10:40 - 12:30 MS21-1 Computational Biomechanics and Engineering	10:40 - 12:30 MS30-1 Measurement and Modeling of MEMS and Related Materials	10:40 - 12:30 MS40-4 Computational Challenges for Mechanical Systems Innovation**	10:40 - 12:30 MS23-1 Computational Methods in Stochastic Mechanics	10:40 - 12:30 MS12-1 Computational Methods for Multiphase Flows
12:30 - 14:00 Lunch						
14:00 - 15:50 MS8-2 Computational Mechanics for Electronic Devices/ Components*	14:00 - 15:25 MS16-5 Future Directions of Large-Scale Scientific Computing and Parallel Linear Solvers	14:00 - 15:50 MS22-1 Computational Biomechanics: From Animal Locomotion to the Cardiovascular System	14:00 - 15:50 MS30-2 Measurement and Modeling of MEMS and Related Materials	14:00 - 15:15 MS40-5 Computational Challenges for Mechanical Systems Innovation**	14:00 - 14:15 MS3-1 Efficient Solutions by Radial Basis Functions, Trefftz Methods and Other Mesh Reduction Methods	14:00 - 15:15 MS12-2 Computational Methods for Multiphase Flows
15:50 - 16:10 Coffee Break						
16:10 - 17:25 MS8-3 Computational Mechanics for Electronic Devices/ Components*	16:10 - 17:50 MS27-1 Physically-Bas ed Computer Graphics	16:10 - 18:00 MS22-2 Computational Biomechanics: From Animal Locomotion to the Cardiovascular System	16:10 - 18:00 MS30-3 Measurement and Modeling of MEMS and Related Materials	16:10 - 18:00 MS32-1 Numerical Site Calibration for Wind Turbine	16:10 - 17:25 MS3-2 Efficient Solutions by Radial Basis Functions, Trefftz Methods and Other Mesh Reduction Methods	16:10 - 17:25 MS12-3 Computational Methods for Multiphase Flows

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Session Schedule
Tuesday, December 4, 2007 (Part 2/2)

2nd Floor			5th Floor		
Room I	Room J	Room K	Room 501	Room 509	Room 510
10:15 - 10:40 Coffee Break					
10:40 - 12:20 MS28-3 Modeling and Simulation on Plasticity - from Nano Scale to Macro Scale -	10:40 - 12:30 MS43-1 Advanced Numerical Methods for Computational Electromagnetics	10:40 - 12:20 MS17-4 Recent Advances in Interaction and Multiscale Mechanics	10:40 - 12:20 MS41-2 Computational Methods in Environmental Flow Problems	10:40 - 12:30 MS46-1 Advances of CAE in Industry	10:40 - 11:55 GS6 Failure of Materials and Structures
12:30 - 14:00 Lunch					
14:00 - 15:40 MS28-4 Modeling and Simulation on Plasticity - from Nano Scale to Macro Scale -	14:00 - 15:40 MS33-1 Scale Bridging Strategies in Science and Engineering	14:00 - 15:15 MS17-5 Recent Advances in Interaction and Multiscale Mechanics	14:00 - 15:50 MS41-3 Computational Methods in Environmental Flow Problems	14:00 - 15:15 GS7 Computational Mechanics for Material Processing 1	14:00 - 15:15 GS8 Computational Analysis of Large Structures
15:50 - 16:10 Coffee Break					
16:10 - 17:50 MS28-5 Modeling and Simulation on Plasticity - from Nano Scale to Macro Scale -	16:10 - 17:50 MS33-2 Scale Bridging Strategies in Science and Engineering	16:10 - 17:50 GS9 Natural Language Processing	16:10 - 18:00 MS41-4 Computational Methods in Environmental Flow Problems	16:10 - 17:25 GS10 Computational Mechanics for Material Processing 2	16:10 - 17:00 GS11 Computational Mechanics of Geomaterials

Session Schedule
Wednesday, December 5, 2007 (Part 1/2)

1st Floor					2nd Floor	
Annex 1	Room 104	Room F	Room G	Room H	Room B-1	Room B-2
8:15 - 10:15 PL4 Plenary Lectures E. Arantes e Oliveira B.M. Kwak M.Papadrakakis					8:15 - 10:15 PL5 Plenary Lectures B. Schrefler D. Peric M.W. Yuan	8:15 - 10:15 PL6 Plenary Lectures G.R. Liu A. Leung G. Tryggvason
10:15 - 10:40 Coffee Break						
10:40 - 12:30 MS24-1 Advanced Computations for Social, Economic and Eco-Systems	10:40 - 12:30 MS29-1 Computational Geotechnics	10:40 - 11:55 MS22-3 Computational Biomechanics: From Animal Locomotion to the Cardiovascular System	10:40 - 12:30 MS7-1 Multi-Moment Scheme and Applications (CIP, etc.)	10:40 - 12:05 MS18-1 Numerical Grid Generation and Related Topics	10:40 - 12:30 MS4-1 Multi-Scale Multi-Physics Models and Simulations for Extremes on the Earth Simulator	10:40 - 12:30 MS10-1 Simulation Technology towards the Hydrogen Use World
12:30 - 14:00 Lunch						
14:00 - 15:50 MS24-2 Advanced Computations for Social, Economic and Eco-Systems	14:00 - 15:50 MS29-2 Computational Geotechnics	14:00 - 14:50 MS22-4 Computational Biomechanics: From Animal Locomotion to the Cardiovascular System	14:00 - 15:50 MS7-2 Multi-Moment Scheme and Applications (CIP, etc.)	14:00 - 15:50 MS18-2 Numerical Grid Generation and Related Topics	14:00 - 15:40 MS4-2 Multi-Scale Multi-Physics Models and Simulations for Extremes on the Earth Simulator	14:00 - 15:25 MS10-2 Simulation Technology towards the Hydrogen Use World
15:50 - 16:10 Coffee Break						
16:10 - 18:00 MS24-3 Advanced Computations for Social, Economic and Eco-Systems	16:10 - 17:00 MS29-3 Computational Geotechnics	16:10 - 17:30 MS36-1 Numerical Methods in Tissue Analysis and Remodelling	16:10 - 18:00 MS7-3 Multi-Moment Scheme and Applications (CIP, etc.)	16:10 - 18:00 MS18-3 Numerical Grid Generation and Related Topics	16:10 - 18:00 MS6-1 Advances in BEM/ Fast BEM*	16:10 - 18:00 MS15-1 Computational Fracture Mechanics and Structural Integrity Problems
19:00 - 21:00 Banquet (RIHGA Royal Hotel Kyoto)						

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Session Schedule
Wednesday, December 5, 2007 (Part 2/2)

2nd Floor			5th Floor		
Room I	Room J	Room K	Room 501	Room 509	Room 510
10:15 - 10:40 Coffee Break					
10:40 - 12:05 MS31-1 Computational Defects Field Mechanics	10:40 - 12:30 MS35-1 Structural Optimization and its Applications*	10:40 - 12:05 MS38-1 Meshfree/ Particle and Generalized/ Extended Finite Element Methods	10:40 - 11:30 GS12 Computational Methods for Fluid Dynamics 1	10:40 - 12:30 MS42-1 CAD/ CAE/ CG/ CSCW/ C-Control	10:40 - 11:55 GS13 Computational Analysis of Vibration Problems
12:30 - 14:00 Lunch					
14:00 - 15:50 MS31-2 Computational Defects Field Mechanics	14:00 - 15:40 MS35-2 Structural Optimization and its Applications*	14:00 - 15:25 MS38-2 Meshfree/ Particle and Generalized/ Extended Finite Element Methods	14:00 - 15:15 GS14 Computational Methods for Fluid Dynamics 2	14:00 - 15:40 MS42-2 CAD/ CAE/ CG/ CSCW/ C-Control	14:00 - 15:40 MS14-1 Dynamic Failure and Fracture of Materials and Structures
15:50 - 16:10 Coffee Break					
16:10 - 17:25 MS31-3 Computational Defects Field Mechanics	16:10 - 18:00 MS35-3 Structural Optimization and its Applications*	16:10 - 18:00 PL9-1 Plenary Lecture A. Huerta MS38-3 Meshfree/ Particle and Generalized/ Extended Finite Element Methods			16:10 - 17:15 PL9-2 Plenary Lecture N. Kikuchi GS15 Computational Impact Mechanics
19:00 - 21:00 Banquet (RIHGA Royal Hotel Kyoto)					

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Session Schedule
Thursday, December 6, 2007 (Part 1/2)

1st Floor					2nd Floor	
Annex 1	Room 104	Room F	Room G	Room H	Room B-1	Room B-2
8:15 - 10:15 PL7 Plenary Lectures T. Watanabe Y.Y. Kim J.S. Chen					8:15 - 9:35 PL8 Plenary Lectures J. Fish A.K. Ariffin	
10:15 - 10:40 Coffee Break						
10:40 - 12:30 MS24-4 Advanced Computations for Social, Economic and Eco-Systems	10:40 - 12:05 MS29-4 Computational Geotechnics	10:40 - 12:30 MS37-1 Computational Biomechanics: From Cell to Biomolecules*	10:40 - 12:05 MS7-4 Multi-Moment Scheme and Applications (CIP, etc.)	10:40 - 12:30 MS26-1 Numerical Simulation of MHD Flow and Heat Transfer and its Application to Nuclear Fusion Technology	10:40 - 11:50 MS6-2 Advances in BEM/ Fast BEM*	10:40 - 12:30 MS15-2 Computational Fracture Mechanics and Structural Integrity Problems
12:30 - 14:00 Lunch						
14:00 - 15:50 MS24-5 Advanced Computations for Social, Economic and Eco-Systems	14:00 - 15:50 MS29-5 Computational Geotechnics	14:00 - 15:50 MS37-2 Computational Biomechanics: From Cell to Biomolecules*	14:00 - 15:50 MS25-1 Multidisciplina ry Design Optimization and Exploration	14:00 - 15:50 MS26-2 Numerical Simulation of MHD Flow and Heat Transfer and its Application to Nuclear Fusion Technology	14:00 - 15:40 MS6-3 Advances in BEM/ Fast BEM*	14:00 - 14:25 MS15-3 Computational Fracture Mechanics and Structural Integrity Problems
15:50 - 16:10 Coffee Break						
16:10 - 17:50 MS24-6 Advanced Computations for Social, Economic and Eco-Systems	16:10 - 17:25 MS29-6 Computational Geotechnics	16:10 - 17:50 MS37-3 Computational Biomechanics: From Cell to Biomolecules*	16:10 - 17:35 MS25-2 Multidisciplina ry Design Optimization and Exploration	16:10 - 17:50 MS26-3 Numerical Simulation of MHD Flow and Heat Transfer and its Application to Nuclear Fusion Technology	16:10 - 17:25 MS6-4 Advances in BEM/ Fast BEM*	16:10 - 17:50 MS15-4 Computational Fracture Mechanics and Structural Integrity Problems

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Session Schedule
Thursday, December 6, 2007 (Part 2/2)

2nd Floor			5th Floor		
Room I	Room J	Room K	Room 501	Room 509	Room 510
10:15 - 10:40 Coffee Break					
10:40 - 11:55 MS31-4 Computational Defects Field Mechanics	10:40 - 11:55 MS35-4 Structural Optimization and its Applications*	10:40 - 11:55 MS38-4 Meshfree/ Particle and Generalized/ Extended Finite Element Methods	10:40 - 12:20 GS16 Computational Analysis of Flow Problems 1	10:40 - 12:30 MS13-1 Innovative Problem Solving Environment in Computational Science	10:40 - 11:55 GS17 Lagrange Multiplier Formulations
12:30 - 14:00 Lunch					
14:00 - 15:50 MS31-5 Computational Defects Field Mechanics	14:00 - 15:40 MS35-5 Structural Optimization and its Applications*	14:00 - 15:15 MS38-5 Meshfree/ Particle and Generalized/ Extended Finite Element Methods	14:00 - 15:40 GS18 Computational Analysis of Flow Problems 2	14:00 - 15:15 MS13-2 Innovative Problem Solving Environment in Computational Science	14:00 - 15:50 MS34-1 Inverse Analysis in Computational Mechanics
15:50 - 16:10 Coffee Break					
16:10 - 17:35 MS31-6 Computational Defects Field Mechanics		16:10 - 17:50 MS38-6 Meshfree/ Particle and Generalized/ Extended Finite Element Methods	16:10 - 17:50 GS19 Computational Analysis of Flow Problems 3		16:10 - 17:25 MS34-2 Inverse Analysis in Computational Mechanics

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