Aug 3, 2010 Tuesday			
8:30 - 9:00	Opening remarks Group photo		
9:00 - 9:30	Zhong-Ci Shi	Studies on Wilson Nonconforming Finite Element	Chair: Jie Shen
9:30 - 10:00	Jeng-Tzong Chen	On near-trapped modes and fictitious frequencies for water waves problems containing an array of circular and/or elliptical cylinders using null-field integral	
10:00 -10:30	Tea Break		
10:30 - 11:00	Shi Jin	Asymptotic-preserving schemes for Boltzmann equation and relative problems with stiff sources	Chair: Qun Lin
11:00 - 11:30	Chien-Sen Huang	A locally conservative streamtube method for miscible displacement transport problem	
11:30 - 12:00	Benqi Guo	Progresses on Theory and Methodology of High-Order Finite Element Method in the 21th Century	
12:00	Lunch		
13:30 - 14:00	Ming-Chih Lai	Simulating the dynamics of inextensible vesicles by the penalty immersed boundary method	Chair: I-Liang Chern
14:00 - 14:30	Qi Wang	Kinetic theories for multiphase complex fluids	
14:30 - 15:00	Huazhong Tang	An adaptive GRP scheme for compressible fluid flows	
15:00 - 15:30	Chi-Tien Lin	Numerical Study on Solutions for Hyperbolic p-System with Nonlinear Damping	
15:30 - 16:00	Tea Break		
16:00 - 16:30	Benyu Guo	A Collocation Method For Initial Value Problems Of Second Order ODEs	Chair: Shi Jin
16:30 - 17:00	Yuesheng Xu	Fast Algorithms for High Dimensional Data Analysis	
17:00 - 17:30	Chien-Hong Cho	Stability condition for the finite difference schemes of the wave equation with non-uniform time meshes	
17:30 -18:00	Xiao-Ming Zeng	Some results on curves and surfaces modeling	
18:00	Reception Dinner		

Aug 4, 2010 Wednesday			
8:30 - 9:00	Tao Tang	Adaptive time-stepping methods for partial differential equations	Chair: Ming-Chih Lai
9:00 - 9:30	Wei-Cheng Wang	Boundary treatment, exact Hodge decomposition and the LBB condition for MAC-like schemes on curvilinear domains	
9:30 - 10:00	Tzon-Tzer Lu	The Method of Fundamental Solutions for Helmholtz Equation	
10:00 - 10:30	Tea Break		
10:30 - 11:00	Weizhu Bao	Analysis and Efficient Computation for the Semiclassical Limits of the Nonlinear Schrödinger Equations	Chair: Tzon-Tzer Lu
11:00 - 11:30	Li-Lian Wang	Efficient Dual Algorithms for Variational Image Segmentation	
11:30 - 12:00	I-Liang Chern	Exploring Ground States and Excited States of Spin-1 Bose-Einstein Condensates by Continuation Methods	
12:00	Lunch		
13:00 - 18:00	Tour		
18:30	Banquet		

**Aug 5, 2010 Thursday**			
8:30 - 9:00	Pingwen Zhang	Numerical Methods of Self-Consistent Field Theory	Chair: Yunqing Huang
9:00 - 9:30	Jinn-Liang Liu	Modeling and Simulation of Classical and Quantum Computer Devices	
9:30 - 10:00	Chin-Tien Wu	A numerical study in solving the Monge Ampere equation using the BCIZ element	
10:00 - 10:30	Tea Break		
10:30 - 11:00	Yunqing Huang	The Analysis of the Lower Approximation of Eigenvalues by the Wilson Element	Chair: Cheng-Sheng Chien
11:00 - 11:30	Jianxian Qiu	Hybrid weighted essentially non-oscillatory schemes with different indicators	
11:30 - 12:00	Suh-Yuh Yang	A novel least-squares finite element method enriched with residual-free bubbles for solving convection-dominated problems	
12:00	Lunch		
13:30 - 14:00	Zhimin Zhang	Spectral Collocation/p-Version Finite Element Methods for Hamiltonian Dynamical Systems	Chair: Linzhang Lu
14:00 - 14:30	Hung-Tsai Huang	Effective Condition Number for Numerical Partial Differential Equations	
14:30 - 15:00	Tzyy-Leng Horng	Vortices Reconnection in a Non-Uniform Bose-Einstein Condensate	
15:00 - 15:30	Yueh-Cheng Kuo	An improvement of continuation method in Rotating Bose-Einstein Condensates	
15:30 - 16:00	Tea Break		
16:00 - 16:30	Yanping Chen	On weighted norm error estimates for Jacobi spectral-collocation methods for weakly singular Volterra integral equations	Chair: Pingwen Zhang
16:30 - 17:00	Haijun Yu	Fast Spectral Sparse Grid Method and Its Applications	
17:00 - 17:30	Huiyuan Li	A Legendre Spectral Method for the Electromagnetic Scattering from a Cavity	
17:30 - 18:00	Zhongqing Wang	Error analysis of a second-order time-splitting Laguerre-Hermite collocation method for Gross-Pitaevskii equation	
18:00	Dinner		

Aug 6, 2010 Friday			
9:00 - 9:30	Tsung-Min Hwang	Preconditioning Effects of Eigenvalue Problems in Three Dimensional Photonic Crystals Simulations	Chair: Jinn-Liang Liu
9:30 - 10:00	Chern-Shuh Wang	Perturbation Analysis for Palindromic Polynomial Eigenvalue Problems	
10:00 - 10:30	Tea Break		
10:30 - 11:00	Zheng-Jian Bai	A Generalized Nonlinear Conjugate Gradient Method for Inverse Eigenvalue Problems	Chair: Chuanju Xu
11:00 - 11:30	Juan-Ming Yuan	Recent progress on the fifth-order Korteweg-de Vries type equations	
11:30 - 12:00	Cheng-Sheng Chien	Spectral continuation methods using Chebyshev polynomials for nonlinear Schrödinger equations	
12:00	Lunch		