

**INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS: MODELING, ANALYSIS AND COMPUTATION
CONFERENCE PROGRAM**

DAY 0 – MAY 31, 2008 (SATURDAY)

6:00-8:00 pm	WELCOMING RECEPTION & EARLY REGISTRATION Garden Café, G/F, Academic Exchange Building <i>(Free of charge & open to all conference attendees)</i>
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DAY 1 – JUNE 1, 2008 (SUNDAY)

8:00-9:00 am	REGISTRATION Registration desk located at entrance of Lecture Theatre 1			
9:00-9:15 am	OPENING CEREMONY Chairman: Gang Bao Lecture Theatre 1 Opening Remarks ♦ Hui-Hui Dai Welcoming Speech ♦ Roderick S. C. Wong			
9:00-9:05 am 9:05-9:15 am				
9:15-10:15 am	PLENARY LECTURE Chairman: Gang Bao Lecture Theatre 1 ♦ Gunther Uhlmann University of Washington <i>Cloaking Devices and Transformation Optics</i>			
10:15-10:25 am	CONFERENCE GROUP PHOTO Stage at 4/F between Academic Building and Amenities Building			
10:25-10:50 am	COFFEE BREAK			
10:50-11:50 am	PARALLEL SESSIONS FOR INVITED TALKS			
10:50-11:20 am	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; vertical-align: top;"> SESSION I Chairman: Hung-chun Chang Lecture Theatre 1 ♦ David C. Dobson <i>Electromagnetic Transmission Spectra in Periodic Hole Arrays</i> </td> <td style="width: 33%; text-align: center; vertical-align: top;"> SESSION II Chairman: Alexander B. Freidin Room Y5-206 ♦ Arkadi Berezovski <i>Macroscopic Dynamics of Phase-Transition Front and Straight Brittle Crack</i> </td> <td style="width: 33%; text-align: center; vertical-align: top;"> SESSION III Chairman: Lian-Ping Wang Room Y5-204 ♦ Yalchin Efendiev <i>Multiscale Numerical Methods for Flow and Transport in Heterogeneous Porous Media and Their Applications</i> </td> </tr> </table>	SESSION I Chairman: Hung-chun Chang Lecture Theatre 1 ♦ David C. Dobson <i>Electromagnetic Transmission Spectra in Periodic Hole Arrays</i>	SESSION II Chairman: Alexander B. Freidin Room Y5-206 ♦ Arkadi Berezovski <i>Macroscopic Dynamics of Phase-Transition Front and Straight Brittle Crack</i>	SESSION III Chairman: Lian-Ping Wang Room Y5-204 ♦ Yalchin Efendiev <i>Multiscale Numerical Methods for Flow and Transport in Heterogeneous Porous Media and Their Applications</i>
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11:50-1:30 pm	LUNCH BREAK			
1:30-2:30 pm	PLENARY LECTURE Chairman: Qiang Zhang Lecture Theatre 1 ♦ Fanghua Lin New York University <i>Flow of Incompressible Viscoelastic Fluids</i>			
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DAY 2 – JUNE 2, 2008 (MONDAY)

8:30-9:00 am	REGISTRATION Registration desk located at entrance of Lecture Theatre 1		
9:00-10:00 am	PLENARY LECTURE <i>Chairman: James M. Hill</i> Lecture Theatre 1 ♦ Raymond W. Ogden <i>University of Glasgow</i> <i>Non-Uniqueness and Non-Smooth Solutions in the Nonlinear Elasticity of Fibre-Reinforced Solids</i>		
10:00-10:30 am	COFFEE BREAK		
10:30-12:00 nn	PARALLEL SESSIONS FOR INVITED TALKS		
	SESSION I <i>Chairman: David C. Dobson</i> Lecture Theatre 1	SESSION II <i>Chairman: Zongxi Cai</i> Room Y5-206	SESSION III <i>Chairman: Yalchin Efendiev</i> Room Y5-204
10:30-11:00 am	♦ Steven G. Johnson <i>Why Does a Waveguide Guide?</i>	♦ Julius Kaplunov <i>A Rational Approach to Formulating Dynamic Analogues of Saint-Venant Principle</i>	♦ Junping Wang <i>On Interface Conditions and Numerical Methods for a Coupled Fluid Flow System</i>
11:00-11:30 am	♦ Hung-chun Chang <i>Solution of Optical Waveguide Full-Vector Eigenmodes Using Different Numerical Formulations</i>	♦ Liliana Gratie <i>Generalizations of Donati's and Saint Venant's Theorems with Applications to Linearized Elasticity</i>	♦ Zhiming Chen <i>The Adaptive PML Method for Acoustic Wave Scattering Problems</i>
11:30-12:00 nn	♦ Lindsay C. Botten <i>Semi-Analytic Approaches to Photonic Crystal Device Modelling</i>	♦ James M. Hill <i>Geometry and Mechanics of Carbon Nanotubes and Gigahertz Nano-Oscillators</i>	♦ Michael H. Du <i>Application of LBE Method in Fiber-in-Liquid Flows for Downhole Pumpable Fiber Optic DTS Technology</i>
12:00-1:30 pm	LUNCH BREAK		
1:30-2:30 pm	PLENARY LECTURE <i>Chairman: Junping Wang</i> Lecture Theatre 1 ♦ Thomas Y. Hou <i>California Institute of Technology</i> <i>Dynamic Depletion of Vortex Stretching and Nonlinear Stability of 3D Incompressible Flows</i>		
2:35-3:35 pm	PARALLEL SESSIONS FOR INVITED TALKS		
	SESSION I <i>Chairman: Kening Lu</i> Lecture Theatre 1	SESSION II <i>Chairman: Michael H. Du</i> Room Y5-206	SESSION III <i>Chairman: Julius Kaplunov</i> Room Y5-204
2:35-3:05 pm	♦ I-Liang Chern <i>Augmented Coupling Interface Method for Computing Frequency Band of Nanostructure</i>	♦ Kun Xu <i>Gas Dynamic Equations with Multiple Translational Temperature</i>	♦ Graham A. Rogerson <i>Long Wave Dispersion Phenomena in Compressible, Pre-Stressed Elastic Plates</i>
3:05-3:35 pm	♦ Jianliang Qian <i>Level-Set Based Eulerian Gaussian Beams for High Frequency Waves beyond Caustics</i>	♦ Lian-Ping Wang <i>Direct Numerical Simulation of Particle-Laden Flows</i>	♦ Yue-Sheng Wang <i>Application of Wavelets in Band Structure Calculation for Phononic Crystals</i>
3:35-4:00 pm	COFFEE BREAK		
4:00-5:20 pm	PARALLEL CONTRIBUTED TALKS		
	SESSION I COMPETITION FOR BEST STUDENT PAPER AWARD <i>Chairman: Kun Xu</i> Lecture Theatre 1	SESSION II <i>Chairman: Jianxin Zhu</i> Room Y5-206	SESSION III <i>Chairman: Shripad Markande</i> Room Y5-204
4:00-4:20 pm	♦ Yumao Wu <i>Analyzing Diffraction Gratings by Neumann-to-Dirichlet Maps and Boundary Integral Equations</i>	♦ Rencheng Song <i>A Large Range Step Method for the Waveguides with Loss</i>	♦ Zhenlu Cui <i>Rheological Behavior of Cholesteric Liquid Crystal Polymers</i>
4:20-4:40 pm	♦ Jiong Wang <i>Phase Transitions Induced by Extension in a Slender SMA Cylinder: Analytical Solution for the Hysteresis Loop based on a Quasi-3D Continuum Model</i>	♦ Li Zhao <i>Analysis of Periodic Structure and Its Application in Near-Field Optics Modeling</i>	♦ Juan Olives <i>Singularities and Equilibrium Equations at Solid-Fluid Interfaces and Solid-Fluid-Fluid Triple Contact Lines, for an Elastic Solid</i>
4:40-5:00 pm	♦ Hui Liu <i>Identification of General complex Dynamical Network with Time Delay</i>	♦ Shaojie Li <i>Dirichlet-to-Neumann Map Method for Computing Leaky Cavity Modes in Photonic Crystals</i>	♦ Yunxin Zhang <i>The Mean Velocity and Effective Diffusion Coefficient of the Molecular Motors</i>
5:00-5:20 pm	♦ Guoliang He <i>Some New Integrable Nonlinear Evolution Equations and Darboux Transformation</i>		

DAY 3 – JUNE 3, 2008 (TUESDAY)

9:00-10:00 am	<p>PLENARY LECTURE <i>Chairman: David J. Steigmann</i> Lecture Theatre 1 ♦ Rohan Abeyaratne <i>Massachusetts Institute of Technology</i> <i>Modeling the Motion of Material Interfaces</i></p>			
10:00-10:30 am	COFFEE BREAK			
10:30-11:50 am	<p>SESSION I COMPETITION FOR BEST STUDENT PAPER AWARD <i>Chairman: Xiaonan Wu</i> Lecture Theatre 1</p>	<p>PARALLEL CONTRIBUTED TALKS</p>	<p>SESSION II <i>Chairman: Zhenlu Cui</i> Room Y5-206</p>	<p>SESSION III <i>Chairman: Salvatore Federico</i> Room Y5-204</p>
10:30-10:50 am	<p>♦ Yumei Huang <i>A New Total Variation Method for Multiplicative Noise Removal</i></p>		<p>♦ Yan Xu <i>Local Discontinuous Galerkin Methods for the Camassa-Holm and Hunter-Saxton Equations</i></p>	<p>♦ Shripad Markande <i>An Exact Analysis of Unsteady Convective Diffusion of Solute in a Micropolar Fluid Flow through an Annular Region</i></p>
10:50-11:10 am	<p>♦ Yuan Fang <i>Anomalous Behavior of Granular Particles Falling through a Funnel</i></p>		<p>♦ Jianxin Zhu <i>Construction of Adjoint Eigenoperator for a Class of Acoustic Waveguides</i></p>	<p>♦ Yingyan Wu <i>Numerical Simulation of Plane Turbulent Mixing Layers</i></p>
11:10-11:30 am	<p>♦ Jie Sun <i>Invariant Manifold of Generalized Synchronization</i></p>		<p>♦ Bongsoo Jang <i>Homogenization in Irregular Shaped Periodic Materials</i></p>	<p>♦ Ming Gao <i>Dynamics of Objects in a Granular Flow</i></p>
11:30-11:50 am	<p>♦ Haili Yuan <i>Absolute Ruin in the Compound Poisson Risk Model with Constant Dividend Barrier</i></p>			
11:50-1:30 pm	LUNCH BREAK			
1:30-6:30 pm	<p>HALF-DAY TOUR (OPTIONAL) Depart at University Circle near Sports Complex</p>			

DAY 4 – JUNE 4, 2008 (WEDNESDAY)

9:00-10:30 am	PARALLEL SESSIONS FOR INVITED TALKS		
	SESSION I Chairman: Zhiming Chen Lecture Theatre 1	SESSION II Chairman: Graham A. Rogerson Room Y5-206	SESSION III Chairman: Yang Wang Room Y5-204
9:00-9:30 am	♦ Michael K. P. Ng <i>A Fast Total Variation Minimization Method for Image Restoration</i>	♦ Yi-chao Chen <i>A Unified Theory for Surface and Volumetric Growths of Biological Tissues</i>	♦ De-Xing Kong <i>Hyperbolic Geometric Flow</i>
9:30-10:00 am	♦ Yanzhao Cao <i>Sparse Collocation Method for Integral Equations with Stochastic Loading</i>	♦ Michel Destrade <i>Instabilities in Elastomers and in Soft Tissues</i>	♦ Zhaoyang Yin <i>Wave-Breaking and Global Solutions for the Degasperis-Procesi Equation</i>
10:00-10:30 am	♦ Zhimin Zhang <i>Eigenvalue Approximation Enhancement based on Gradient Recovery</i>	♦ Leah L. Sharipova <i>Modelling the Influence of Mechanical Factors on the Growth Plate</i>	♦ Yongji Tan <i>Identification of the Intensity of the Pollution Source</i>
10:30-11:00 am	COFFEE BREAK		
11:00-12:00 nn	PLENARY LECTURE Chairman: Ding-Xuan Zhou Lecture Theatre 1 ♦ Roderick S.C. Wong <i>City University of Hong Kong</i> <i>Boundary Layer Theory and Exponential Asymptotics</i>		
12:00-1:30 pm	LUNCH BREAK		
1:30-2:30 pm	PLENARY LECTURE Chairman: Jonathan Wylie Lecture Theatre 1 ♦ Robert M. Miura <i>New Jersey Institute of Technology</i> <i>Stretching of Heated Threads: Glass Microelectrodes</i>		
2:35-3:35 pm	PARALLEL SESSIONS FOR INVITED TALKS		
	SESSION I Chairman: I-Liang Chern Lecture Theatre 1	SESSION II Chairman: Yibin Fu Room Y5-206	
2:35-3:05 pm	♦ Yang Xiang <i>A Continuum Model for the Long-Range Elastic Effect on Epitaxial Surfaces</i>	♦ David M. Haughton <i>Exact Solutions in Nonlinear Elasticity</i>	
3:05-3:35 pm	♦ Huaxiong Huang <i>Moisture Transport and Diffusive Instability during Bread Baking</i>	♦ David J. Steigmann <i>Perforation of Thin Elastic Sheets by a Transverse Indenter</i>	
3:35-4:00 pm	COFFEE BREAK		
4:00-5:30 pm	PARALLEL SESSIONS FOR INVITED TALKS		
	SESSION I Chairman: Yongji Tan Lecture Theatre 1	SESSION II Chairman: Yi-chao Chen Room Y5-206	
4:00-4:30 pm	♦ Graeme Fairweather <i>Alternating Direction Implicit Orthogonal Spline Collocation Methods for Time Dependent Problems</i>	♦ Yibin Fu <i>Post-Bifurcation Analysis of a Thin-Walled Hyperelastic Tube under Inflation</i>	
4:30-5:00 pm	♦ Shunlong Luo <i>Matrix Inequalities Motivated by Quantum Information</i>	♦ Giuseppe Saccomandi <i>Secondary Deformations in Nonlinear Elasticity: The Stress Field in a Pulled Cork</i>	
5:00-5:30 pm		♦ Jeyabal Sivaloganathan <i>On the Symmetry of Energy Minimising Deformations in Nonlinear Elasticity</i>	
from 6:30 pm	CONFERENCE BANQUET City Chinese Restaurant, 8/F, Amenities Building (To get there, please take Lift 19 or 20 near the Swimming Pool at Amenities Building from 3/F to 8/F)		

DAY 5 – JUNE 5, 2008 (THURSDAY)

9:00-10:00 am	<p>PLENARY LECTURE <i>Chairman: Ya Yan Lu</i> Lecture Theatre 1 ♦Vladimir Rokhlin <i>Yale University</i> <i>Accurate Randomized Algorithms of Numerical Analysis</i></p>												
10:00-11:00 am	<p>PLENARY LECTURE <i>Chairman: Wei Wei Sun</i> Lecture Theatre 1 ♦Graeme W. Milton <i>University of Utah</i> <i>Variational Principles for Acoustics, Elastodynamics and Electromagnetism</i></p>												
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<p>SESSION I <i>Chairman: Jianli Xie</i> Lecture Theatre 1 ♦Zhiwei Pan <i>Least Square Regularized Regression with Dependent and Not Identical Sampling</i></p>	<p>SESSION II <i>Chairman: Hui-Hui Dai</i> Room Y5-206 ♦Jingzhi Li <i>Blending Finite Elements for Elliptic Interface Problems with Optimal Convergence</i></p>	<p>SESSION III <i>Chairman: Juan Olives</i> Room Y5-204 ♦Jeong-Mi Yoon <i>An Adomian Decomposition Method for Solving Predator-Prey Model</i></p>											
11:50-12:10 pm	12:10-12:30 pm												
<p>♦Junyi Zhu <i>Perturbations of Davey-Stewartson (DS) Equation and their Solutions</i></p>	<p>♦Dawei Song <i>Fourth-Order Finite Difference Methods for Diffraction Gratings</i></p>	<p>♦Zeng-Qi Wang <i>On Accelerated SOR-Like Methods for Augmented Linear Systems</i></p>											
<p>♦Douglas Kei Shing Ng <i>Knowledge Discovery and Management in Biomedical Information Systems</i></p>	<p>♦Hongyu Liu <i>Recovery of Inhomogeneities and Buried Obstacles</i></p>	<p>♦Buyang Li <i>Newton-Cotes Rule and its Superconvergence for Hadamard Finite-Part Integrals on a Curve</i></p>											

Remarks:

- Lecture Theatre 1 is located at Academic Building 4/F and Rooms Y5-### are located at Academic Building 5/F.
- For presentation, all rooms are equipped with a desktop computer, a cable for connecting a notebook computer, an overhead projector and whiteboards.
- Participants can use Rooms Y5-202, Y5-203 and Y5-205 as study rooms.

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