PROGRAM SCHEDULE

Monday, May 15

8:00-8:45 a.m.	Registration + coffee and pastries	GITC 3700 Lobby
	Set Up Posters	GITC 3720
	Poster session all day	
8:45-9:00 a.m.	**Introductory Remarks**	GITC 3730
	Robert M. Miura, Acting Chair Department of Mathematical Sciences	
	Welcoming Address	GITC 3730
	Fadi P. Deek, Dean of the College of Science and Liberal Arts	
9:00-10:00 a.m.	**Plenary Lecture I**	GITC 3730
	Charles S. Peskin, Courant Institute of Mathematical Sciences *Cardiac Mechanics and Electrophysiology by the Immersed Boundary Method*	
10:00-10:30 a.m.	Coffee Break	GITC 3700 Lobby

MINISYMPOSIA I

	COMPLEX- AND BIO-FLUIDS GITC 3730	**FREE SURFACE FLOW I: WAVES** GITC 3710
10:30-11:00 a.m.	**L. Cummings** University of Nottingham *Fluid Flow Problems in Rotating Bioreactors*	**T. Akylas** Massachusetts Institute of Technology *On Gravity-Capillary Lumps and Related Problems*
11:00-11:30 a.m.	**O. Jensen** University of Nottingham *The Spreading and Stability of a Surfactant-Laden Drop on a Prewetted Substrate*	**D. Henderson** Penn State University *Stability, Instability, and Stability in Deep-Water Surface Waves*
11:30-12:00 noon	**D. Rumschitzki** City College of New York *A Model for Macromolecular Transport within Heart Valves*	**J-M. Vanden-Broeck** University of East Anglia *Gravity Capillary Waves on Electrified Fluid Sheets*
12:00-12:30 p.m.	**A. Bernoff** Harvey Mudd College *Domain Relaxation in Polymer Langmuir Layers*	**S-M. Sun** Virginia Tech *2D and 3D Surface Waves in Water with Surface Tension*

12:30-2:30 p.m.	Lunch and Poster Session	GITC 3700 Lobby GITC 3720
2:30-3:30 p.m.	**Plenary Lecture II** **T. Hou**, California Institute of Technology *The Interplay between Local Geometric Properties and the Global Regularity of the 3D Incompressible Euler Equations*	GITC 3730
3:30-4:00 p.m.	**Coffee Break**	GITC 3700 Lobby

MINISYMPOSIA II

	THIN FILMS AND THREADS GITC 3730	**TURBULENCE AND GEOPHYSICAL FLUID DYNAMICS** GITC 3710
4:00-4:30 p.m.	**S. Howison** Oxford University *Fast Flows of Thin Layers*	**R. Ecke** Los Alamos National Laboratory *Experiments in Two-Dimensional Turbulence*
4:30-5:00 p.m.	**T. Witelski** Duke University *Coarsening Dynamics of Thin Fluid Films*	**K. Helfrich** Woods Hole Oceanographic Institution *The Effects of Rotation on Strongly Nonlinear Internal Waves*
5:00-5:30 p.m.	**J. Wylie** City University of Hong Kong *Thermal Instability in Drawing Viscous Threads*	**N. Balmforth** University of British Columbia *Instability in Flow through Elastic Conduits and Volcanic Tremor*
5:30-6:00 p.m.	**D. Gaver** Tulane University *The Importance of Surfactant Physicochemical Hydrodynamics in Pulmonary Atelectrauma*	**O. Buhler** Courant Institute of Mathematical Sciences *The Likely Shape of Large Waves*

6:00-9:00 p.m.	**Banquet**	Campus Center Atrium

PROGRAM SCHEDULE

Tuesday, May 16

8:00-8:45 a.m.	Coffee and pastries Poster session (half day)	GITC 3700 Lobby GITC 3720
9:00-10:00 a.m.	**Plenary Lecture III** **John Hinch**, Cambridge University *Collapse of a Column of Grains*	GITC 3730
10:00-10:30 a.m.	Coffee Break	GITC 3700 Lobby

MINISYMPOSIA III

	FREE SURFACE FLOW II GITC 3730	**REACTING FLOWS** GITC 3710
10:30-11:00 a.m.	**J-L Thiffeault** Imperial College London *Chaotic Advection in Thin Films?*	**C.K. Law** Princeton University *Experimental Perspectives on the Formulation of Laminar Flame Theory*
11:00-11:30 a.m.	**D. Crowdy** Imperial College London *Cusps, Threads and Steady Pinchoff in Free Surface Stokes Flow*	**M. Short** University of Illinois at Urbana-Champaign *Detonation Stability and Structure: A New Formulation for Condensed Phase Explosives*
11:30-12:00 noon	**A. Fokas** Cambridge University *On a New Nonlocal Formulation of Water Waves*	**A. Zlatos** University of Wisconsin-Madison *Diffusion and Mixing in Fluid Flow*
12:00-12:30 p.m.	**P. Hall** Imperial College London *Braided Rivers and Stability Theory*	**J. Quirk** Los Alamos National Laboratory *Document Engineering and Computational Fluid Dynamics*

12:30-2:00 p.m.	Lunch and Poster Session Removal of posters	GITC 3700 Lobby GITC 3720

2:00-3:00 p.m.	**Plenary Lecture IV** **G. Barenblatt**, University of California-Berkeley *Incomplete Similarity in Continuum Mechanics*	GITC 3730
3:00-3:30 p.m.	Coffee Break	GITC 3700 Lobby

MINISYMPOSIA IV

	COMPUTATIONAL FLUID DYNAMICS GITC 3730	**INSTABILITY AND MIXING** GITC 3710
3:30-4:00 p.m.	**A-K. Tornberg** Courant Institute of Mathematical Sciences *Fluid-Structure Interactions: Suspensions of Fibers and Beyond*	**J. Zhang** Courant Institute of Mathematical Sciences *Free Solid Boundaries in Thermal Convection*
4:00-4:30 p.m.	**J-G. Liu** University of Maryland *Stability and Convergence of Efficient Navier-Stokes Solvers via a Commutator Estimate*	**P. Milewski** University of Wisconsin *Stability, Breaking Waves, and Mixing in Stratified Flows*
4:30-5:00 p.m.	**W. Ren** Courant Institute of Mathematical Sciences *The Moving Contact Line Problem*	**N. Aubry** New Jersey Institute of Technology *Microfluidic Mixing in Channels of Simple Geometry*
5:00-5:30 p.m.	**J. Blawzdziewicz** Yale University *Stepwise Drainage of Thin Liquid Films Stabilized by Colloidal Particles*	**H. Huang** York University *Moisture Transport and Diffusive Instability during Bread Baking*

End of conference