



2013 Research Symposium on Environmental and Applied Fluid Dynamics

Tuesday, May 21, 2013

Gilman Hall 50 ♦ Homewood Campus

Symposium Schedule



THE GEORGE WASHINGTON UNIVERSITY
SCHOOL OF ENGINEERING
AND APPLIED SCIENCE

8:30am-9:00am	BREAKFAST AND WELCOME - Prof. Joseph Katz Johns Hopkins University
9:05am-9:50am	Keynote Lecture: Prof. Michael W. Plesniak George Washington University Presents: “Fluid Dynamics of Human Phonation - Pathology of Polyyps”
TECHNICAL SESSION I - Session Chair: Rinaldo Miorini (JHU)	
9:50am-10:10am	Christian C. Lalescu (JHU): “Flux-Freezing Breakdown Observed in High-Conductivity MHD Turbulence” (Prof. Eyink)
10:10am-10:30am	Min Xu (UMD): “Regional Climatic Effects of the Great Lakes” (Prof. Liang)
10:30am-10:50am	Hussein Ezz Eldin (GWU): “Multi-Scale Modeling and Analysis of Hemolysis in Prosthetic Devices” (Prof. Balaras)
10:50am-11:05am	COFFEE BREAK – GILMAN HALL, ROOM # 50
TECHNICAL SESSION II - Session Chair: Kartik Venkat Bulusu (GWU)	
11:05am-11:25am	Jung Hee Seo (JHU): “Towards Simulation Based Therapy for Heart Disease” (Prof. Mittal)
11:25am-11:45pm	Daisuke Hotta (UMD): “Semi-Implicit Modification to Lorenz N-Cycle Scheme and its Application to an Atmospheric General Circulation Model” (Prof. Kalnay)
11:45pm-12:05pm	Keegan Delaney(GWU): “A Two-phase Flow Solver with Adaptive Mesh Refinement” (Prof. Balaras)
12:05pm-12:25pm	Adrien Thormann (JHU): “Wind Tunnel Measurements in Decaying Turbulence behind Active Fractal Grids” (Prof. Meneveau)
12:25pm-12:45pm	Kerstin Nordstrom (UMD): “Soft Matter: From Grains to Cells” (Prof. Losert)
12:45pm-1:40pm	LUNCH BREAK: - HODSON HALL, 2ND FLOOR LOBBY
TECHNICAL SESSION III - Session Chair: Richard J.A.M. Stevens (JHU)	
1:40pm-1:50pm	Kartik Venkat Bulusu (GWU): “Multi-Scale Secondary Flows in Curved Artery Models: Effects of Perturbations Induced by Fractured Stents” (Prof. Plesniak)
1:50pm-2:20pm	Kial Stewart (JHU): “Wind-Driven Arctic Freshwater Export Anomalies” (Prof. Haine)
2:20pm-2:40pm	John W. Biddle (UMD): “Heat Conduction and Sound Propagation in Supercooled Water” (Prof. Anisimov/Jan Sangers)
2:40pm-3:00pm	Nicholas Lasalle (GWU): “Study of Passive Flow Control for Ship Air Wakes” (Prof. Snyder)
3:00pm-3:15pm	AFTERNOON BREAK - GILMAN HALL, ROOM # 50
TECHNICAL SESSION IV - Session Chair: Kial Stewart (JHU)	
3:15pm-3:35pm	Chao Zhang (JHU): “Flight Stabilization With Flapping Wings In Gusty Environments” (Prof. Mittal)
3:35pm-3:55pm	Ahmed Kaffel (UMD): “Linear Stability Analysis of Evaporating Liquid Films in Wall Bounded Shear” (Prof. Riaz)
3:55pm-4:15pm	Paul Shirshendu (GWU): “Material Characterization of the Encapsulation of Ultrasound Contrast Microbubbles” (Prof. Sarkar)
4:15pm - 4:35pm	Aditya Nayak (JHU): “Wave-Current Interaction in the Coastal Ocean Bottom Boundary Layer” (Prof. Katz)
4:35pm-4:55pm	Rahul Mulinti (UMD): “Particle Suspension by a Forced Jet Impinging on a mobile Sediment Bed” (Prof. Kiger)
5:00pm-6:00pm	CLOSING RECEPTION – GILMAN HALL ATRIUM