

2009 Research Symposium on Environmental and Applied Fluid Dynamics

Friday May 8, 2009, 110 Maryland Hall, JHU Homewood campus

Symposium Schedule:

8:45am-9:15am	Breakfast and welcome (C. Meneveau)
9:15am-10:00am	Keynote lecture: Prof. Daniel Lathrop , <i>University of Maryland</i> "Characterization and Visualization of Quantum Turbulence"
TECHNICAL SESSION 1: Fluid Mechanics at Small Scales (session chair: Joshi Pranav)	
10:00am-10:20am	Shengfeng Cheng: "Capillary adhesion at the nanometer scale"
10:20am-10:40am	Erin Rericha: "Perturbing streaming in Dictyostelium aggregation"
10:40am-11:00am	Shao-Yiu Hsu: "Theoretical and experimental study on the resonance of a NAPL blob in porous media"
11:00am-11:15am COFFEE BREAK	
TECHNICAL SESSION 2: Atmospheric Flows and Modeling (session chair: William Anderson)	
11:15am-11:35am	Po-Lun Ma: "The Radiative Effect of Mineral Dust on the Development of African Easterly Waves"
11:35am-11:55am	Daniel Barrie: "Would large wind farms impact the weather?"
11:55am-12:15pm	Suneet Dwivedi: "Proof of concept: Regional data assimilation in the South Atlantic Ocean."
12:15pm-12:35pm	Chanh Kieu: "On the rapid intensification of tropical cyclones"
12:35pm - 1:30pm LUNCH BREAK, SHERWOOD ROOM, LEVERING HALL	
TECHNICAL SESSION 3: Turbulence, Complex Flows & Thermal Processes (session chair: Gregory Rodebaugh)	
1:30pm-1:50pm	Joseph Harris – "A new technique for probing length scales in clear air turbulence"
1:50pm-2:10pm	Huixuan Wu: "Tip leakage vortices"
2:10pm-2:30pm	Praveen Narayanan: "DNS of turbulent non-premixed flames interacting with an evaporating water spray"
2:30pm-2:50pm	Marcos Vanella: "Adaptive mesh refinements for large-eddy simulations"
2:50pm-3:10pm	Xin Guo: "Wave and turbulence generation in numerical simulation and their interaction"
3:10-3:25 AFTERNOON BREAK	
TECHNICAL SESSION 4: Waves, Ocean Currents and Rotating Flows (session chair: Younes Nouri)	
3:25pm-3:45pm	Eric Maxeiner: "A parametric investigation of breaking bow waves using a 2D+T wave maker"
3:45pm-4:05pm	Varjola Nelko: "Modeling of rip currents and field measurements"
4:05pm - 4:25pm	Daniel Zimmerman: "Bi-stability in turbulent, rapidly rotating spherical Couette flow"
4:25pm-4:45pm	Erin Hackett: "Inner part of the coastal boundary layer"
4:45pm-5:05pm	Matthew Hoffman: "The explanation of ocean instabilities using breeding"

***CLOSING RECEPTION IMMEDIATELY FOLLOWING THE LAST TALK,
SHERWOOD ROOM, LEVERING HALL***

Center for Environmental & Applied Fluid Mechanics



and



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Friday, May 8, 2009 -
8:30am to 6:00pm

110 Maryland Hall, Homewood Campus.

You are cordially invited to this one-day event. Graduate students and post-doctoral fellows will be presenting ongoing research in fluid mechanics at Johns Hopkins University and University of Maryland, College Park.

See also <http://www.jhu.edu/~ceafm>

CEAFM
Deana Santoni-Long
Johns Hopkins University
3400 N. Charles St. -223 Latrobe Hall
Baltimore, MD 21218

Campus maps and events:

Visitor's parking

Lunch and Reception:
Levering Hall, Sherwood room



Driving directions:

From I-95 (northbound): Take exit 53 onto I-395 north toward downtown Baltimore, then take the exit to Martin Luther King Jr. Follow Martin Luther King Boulevard north until it ends at Howard Street (remain in one of the middle lanes of King Boulevard to avoid a premature forced right or left turn). Turn left at Howard Street and proceed about 2 miles. One block past 29th Street, turn left at the traffic island (just before the Baltimore Museum of Art) onto Wyman Park Drive. Continue past the construction site (which will be to your right) and at the stop sign take a left to continue on Wyman Park Drive. Make an immediate right, then left into the visitors parking lot.