



**2011 Research Symposium on
Environmental and Applied Fluid Dynamics
Friday May 13, 2011
Gilman Hall 50 + Homewood Campus
Symposium Schedule**



8:45am-9:15am	BREAKFAST AND WELCOME - Prof. Charles Meneveau The Johns Hopkins University
9:15am-10:00am	Keynote Lecture: Prof. William Dorland – University of Maryland “ <i>Turbulence in Five Dimensions</i> ”
TECHNICAL SESSION I - Session Chair: William Anderson	
10:00am-10:20am	Qian Xue: “ <i>Computational Modeling of Fluid-Structure Interaction in Phonation</i> ” (Rajat Mittal)
10:20am-10:40am	Khaled Abdelaziz: “ <i>Mayfly Nymphs and Pumping Mechanisms of Oscillating Plate Arrays</i> ” (Elias Balaras & Kenneth Kiger)
10:40am-11:00am	Justin Walker: “ <i>The Effect of Surfactants on the Breakup of an Axisymmetric Laminar Jet</i> ” (Richard Calabrese)
11:00am-11:15am	COFFEE BREAK
TECHNICAL SESSION II - Session Chair: Pranav Joshi	
11:15am-11:35am	Rozita Jalali Farahani: “ <i>SPH Modeling of Nearshore Circulation</i> ” (Robert Dalrymple)
11:35am-11:55am	Daanish Maqbool: “ <i>The Influence of Shear Layer Growth on Supersonic Film Cooling Performance</i> ” (Christopher Cadou)
11:55am-12:15pm	Matthew Hoffman: “ <i>Correcting Forcing Errors in a Estuary System Using an Ensemble Kalman Filter</i> ” (Thomas Haine)
12:15pm-12:35pm	Vivien Lecoustre: “ <i>DNS of Soot Evolution in Turbulent Diffusion Flames</i> ” (Arnaud Trouvé)
12:35pm-1:30pm	LUNCH BREAK - THE GREAT HALL - LEVERING HALL
TECHNICAL SESSION III - Session Chair: Xudong Zheng	
1:30pm-1:50pm	Ning Ren: “ <i>A Comprehensive Methodology for Characterizing Fire Sprinkler Spray</i> ” (Andre Marshall)
1:50pm-2:10pm	Rinaldo Miorini: “ <i>Turbulence Within the Tip Leakage Vortex in a Turbomachine</i> ” (Joseph Katz)
2:10pm-2:30pm	Tae Hoon Kim: “ <i>IR-Based Measurements of Two-Phase Flow Parameters</i> ” (Jungho Kim)
2:30pm-2:50pm	Kunlun Bai: “ <i>Turbulence and Mixing Lengths in Turbulent Wakes Behind a Fractal Tree</i> ” (Charles Meneveau & Joseph Katz)
2:50pm-3:05pm	AFTERNOON BREAK
TECHNICAL SESSION IV - Session Chair: Marcello Magaldi	
3:05pm-3:25pm	Lingxiao Zheng: “ <i>Effect of Wing Flexibility on the Flapping Flight of Insects</i> ” (Rajat Mittal)
3:25pm-3:45pm	Don Daniel: “ <i>Onset of Convection in a Diffusive Miscible Displacement Process with Viscosity Contrast</i> ” (Amir Riaz)
3:45pm-4:05pm	Hamid Khakpour: “ <i>Statistics of Turbulence Transport of Passive Scalars Near a Free Surface</i> ” (Lian Shen)
4:05pm - 4:25pm	Enrico Fonda: “ <i>Novel Cryogenic Turbulence Experiments</i> ” (Daniel Lathrop)
4:25pm-4:45pm	Younes Nouri: “ <i>Damping of Standing Waves Over a Mud Layer in a Small Basin</i> ” (Robert Dalrymple)
5:00pm-6:00pm	CLOSING RECEPTION - THE GREAT HALL - LEVERING HALL
(Faculty Advisors Indicated in Parenthesis)	

Center for Environmental & Applied Fluid Mechanics



and



2011 Research Symposium on Environmental and Applied Fluid Dynamics

Friday, May 13, 2011
8:30am to 6:00pm
50 Gilman 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

Barbara Rogowski
Johns Hopkins University
3400 N. Charles St. –128 Latrobe Hall
Baltimore, MD 21218

Driving Directions:

From (northbound) I-95: 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.

Campus Maps and Events:

