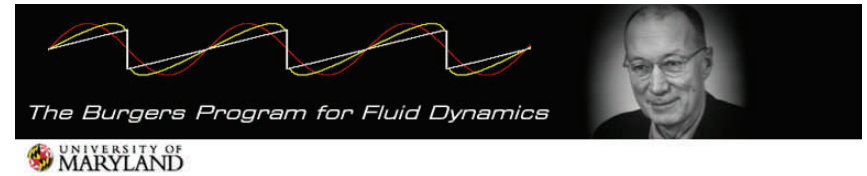
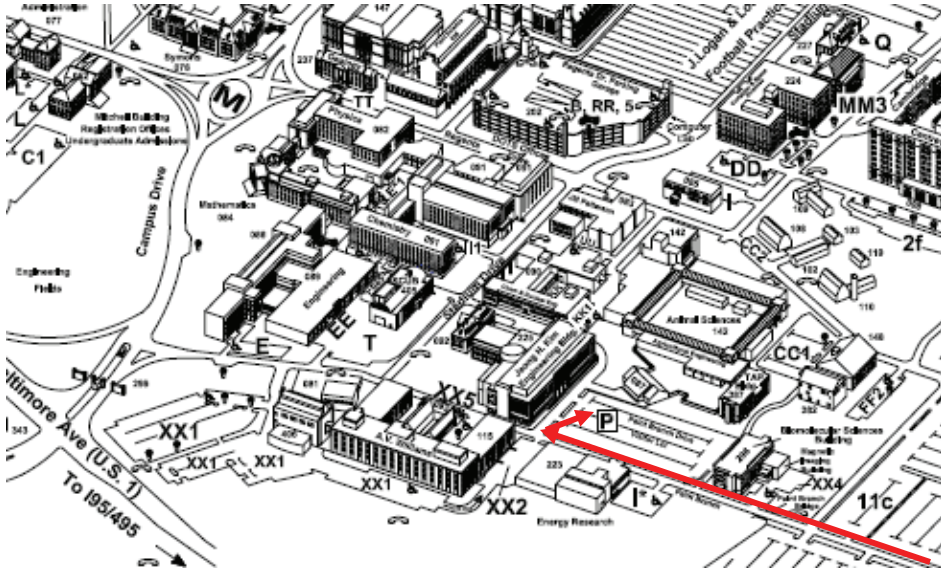


## Directions:

From I-95 South:

- Take Route 1 South (Exit 25B). Proceed approximately 1 mile to MD Rt. 193W
- Take Right onto 193W.
- Turn left at the 1st light
- Follow the map below to the Visitor Parking lot on Paint Branch Parkway (behind the Kim Building). An interactive map can be found at <http://www.parking.umd.edu/themap>



Center for Environmental  
& Applied Fluid Mechanics

# 2008 Joint Research Symposium on Fluid Dynamics

Friday, May 2, 2008

Rooms 1107 & 1111  
Jeong H. Kim  
Engineering & Applied  
Sciences Building  
University of Maryland  
College Park, MD

*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 the University of Maryland, College Park.*

## **SYMPOSIUM SCHEDULE**

09:00 **Keynote Lecture:** *Prof. Mark Robbins*  
Johns Hopkins University  
Connecting Atomic Dynamics to  
Macroscopic Flow: Where Does the  
Discreteness of Fluids Matter?

### **SESSION I**

10:00 Air Entrainment in Ship Bow Waves  
Simulated by a 2D+T Technique –  
*M. Tavakolinejad and J. Duncan*, (UMD)  
10:15 A Numerical Study of Surface Renewal  
Statistics at a Free Surface – *A. Kermani*  
*and L. Shen* (JHU)  
10:30-10:50 **Break**

### **SESSION II**

10:50 Introducing the JHU Turbulence Database  
Cluster – *Y. Yang, E. Perlman, M. Wan, et*  
*al.* (JHU)  
11:05 Flame Extinction in Turbulent Diffusion  
Flames – *P. Narayanan and A. Troune*  
(UMD)  
11:20 On the Effect of Turbulence on Large  
Particles: A Numerical Study – *L. Bott*  
*and A. Prosperetti* (JHU)  
11:35 Aerodynamics of Golf-Balls – *N. Beratlis*  
*and E. Balaras* (UMD)  
11:50 Wall-Layer Modeling in Wave-Boundary  
Layers – *S. Radhakrishnan and U. Piomelli*  
(UMD)  
12:05 A Lagrangian Study of Turbulent Energy  
Cascade – *M. Wan, C. Meneveau, G. Eyink,*  
*and S. Chen* (JHU)

12:20-1:50 **Lunch**

### **SESSION III**

1:50 Electrowetting on Dielectric – *A. Bonito*  
(UMD)  
2:05 Statistics of Multi-Scalar Turbulent Mixing  
From Planar Imaging Measurements –  
*C.J. Brownell and L.K. Su* (JHU)  
2:20 On Local and Global Resistance to  
Multiphase Flow in a Porous Medium –  
*R. Glantz and M. Hilpert* (JHU)  
2:35 Velocity Statistics of Quantum Turbulence:  
The Effects of Reconnection – *M. Paoletti,*  
*K. Sreenivasan and D. Lathrop* (UMD)  
2:50-3:10 **Break**

### **SESSION IV**

3:10 Rossby Waves in a Barotropic Shallow  
Water Model Resulting from the Mediterra  
nean Drawdown During the Messian –  
*L. Murphy and D. Kirk-Davidoff* (UMD)  
3:25 Upper Tropospheric Transport and  
Humidity – *J.M. Ryoo, T. Igusa and*  
*D.W. Waugh* (JHU)  
3:40 Probing the World of Copepods Using  
Holographic Cinematography – *J. Hong,*  
*S. Talapatra, S. Sheng, B. Wagget,*  
*P. Tester and J. Katz* (JHU)  
3:55 Living on the Boundary: From Viscous to  
Inertial Pumping Mechanics in Mayfly  
Nymphs – *A. Sensening, K. Kiger and*  
*J. Schulz* (UMD)  
4:10-5:40 **Reception**