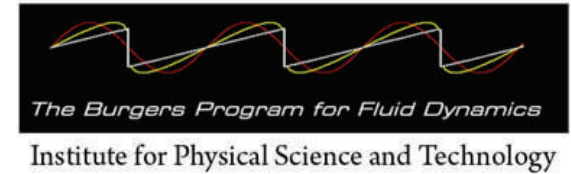
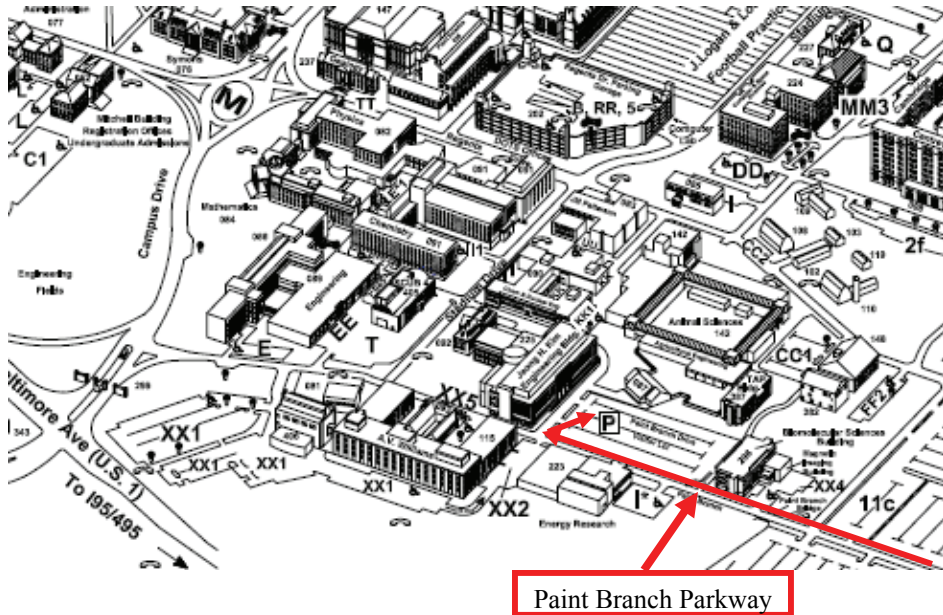


Directions:

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 onto Paint Branch Parkway 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

2010 Joint Research Symposium on Fluid Dynamics

Friday, May 28, 2010

Rooms 1107 and 1111
Jeong H. Kim
Engineering and 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

Morning

- 09:00 **Keynote Lecture: Prof. Robert Dalrymple**
The Johns Hopkins University
Modeling Free Surface Flows with
a Mesh-Free Method
- 10:00 Direct Simulation of Turbulence over a
Waving Surface – **Di Yang**
(Advisor: Lian Shen)
- 10:20 Information Propagation and Data
Assimilation Localization in a Wave
Turbulent Weather Model –
Young Noh Yoon (Advisor: Ed Ott)
- 10:40 Turbulence in the Inner Part of a Turbulent
Boundary Layer over a Rough Wall –
Jiarong Hong (Advisor: Joseph Katz)
- 11:00 **Break**
- 11:15 Laboratory Models of Geophysical and
Astrophysical Flows – **Santiago Triana**
(Advisor: Dan Lathrop)
- 11:35 On the Variability of the East Greenland
Spill Jet in Summer 2003 –
Marcello Magaldi (Advisor: Thomas Haine)
- 11:55 The Atmosphere of Mars – **Steve Greybush**
(Advisor: Eugenia Kalnay)
- 12:15 Trends in Southern Hemisphere Rossby
Wave Breaking – **Thando Ndarana**
(Advisor: Darren Waugh)
- 12:35 **Lunch**

Afternoon

- 1:30 Direct Numerical Simulations of Soot
Emission from Luminous Diffusion Flames –
Vivien Lecoustre (Advisor: Arnaud Trouve)
- 1:50 Cavitation Near Stagnation Points of Blunt
Surfaces – **Yuan Lu** (Advisor: Joe Katz)
- 2:10 Pressure Waves Generated by the
Implosion of Shell Structures in a High-
Pressure Water Environment –
Christine Ikeda (Advisor: Jim Duncan)
- 2:30 A Versatile Immersed Boundary Method for
Computational Aeroacoustics – **Jung-Hee
Seo** (Advisor: Rajat Mittal)
- 2:50 Direct Numerical Simulations of Shock
Wave and Isotropic Turbulence Interactions
– **Nate Grube** (Advisor: Pino Martin)
- 3:10 **Break**
- 3:25 A Dynamic Wall Model for LES of
Boundary Layer Flow over Multiscale,
Fractal-like Surfaces – **William Anderson**
(Advisor: Charles Meneveau)
- 3:45 The Fluid Dynamics of Mayfly Naiads –
Khaled Abdelaziz (Advisor: Elias Balaras)
- 4:05 High Fidelity Flow-Structure Interaction
Modeling of Phonation – **Xudong Zheng**
(Advisor: Rajat Mittal)
- 4:25 A Comprehensive Investigation of Film-
Cooled Surfaces – **Fernando Raffan**
(Advisor: Andre Marshall)
- 4:45 **Reception**