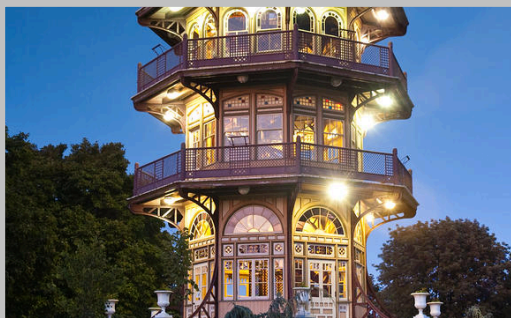
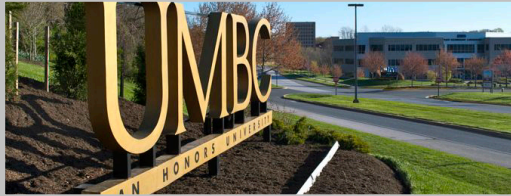


# Analysis of Nonlinear PDEs and Fluid Flows

2014



## Organizers:

Animikh Biswas, *University of Maryland Baltimore County*  
 Evelyn Lunasin, *United States Naval Academy*

## MONDAY Jan. 20, 2014

9:00 - 9:45 AM *Global Attractors for Dissipative and Semi-Dissipative Equations.* **Adam Larios**, Texas A&M University

9:50-10:35 AM *Equations of fluid dynamics for image inpainting.* **Evelyn Lunasin**, United States Naval Academy

10:35 AM *Closing remarks, Summary and Discussion*

Other guest participants: Anna Mazzucato, Mike Jolly, Michel Coti Zelati, Bingsheng Zhang, Aseel Farhat.

For more information: Contact Animikh Biswas [abiswas@umbc.edu](mailto:abiswas@umbc.edu) or Evelyn Lunasin [lunasin@usna.edu](mailto:lunasin@usna.edu)

## Schedule of Talks

SUNDAY Jan. 19, 2014

9:45-10:00AM *Welcome address.* **Professor Nagaraj Neerchal**, Chairman of Department of Mathematics and Statistics, UMBC

10:00 - 10:40 AM *A novel construction of the inertial manifold under a weaker gap condition.* **Yu-Min Chung**, Indiana University

10:45 - 11:25 AM *Time analyticity with higher norm estimates and "One=All" law for 2D-NSEs attractor.* **Yong Yang**, Texas A&M University

11:30 - 12:10 AM *TBA.* **Animikh Biswas**, University of Maryland Baltimore County

12:10 - 2:00 PM *Lunch Break*

2:15 - 2:55 PM *Data Assimilation for the 2D NSE using Noisy Data.* **Eric Olson**, University of Nevada, Reno

3:00 - 3:40 PM *On Gevrey Regularity of the Supercritical Quasi-geostrophic Equation.* **Vincent Martinez**, Indiana University

3:45 - 4:25 PM *Some Recent Results concerning the Zakharov Kuznetsov Equation in a 3D bounded domain.* **Chuntian Wang**, Indiana University

4:30 - 5:30 PM *Current and future research directions in fluid dynamics.* **Edriss Titi**, Weizmann Institute of Science, and UCI