THE BURGERS PROGRAM 2016 SUMMER RESEARCH SCHOOL ON FLUID DYNAMICS

TOPICS IN NONLINEAR WATER WAVES

Photo by James Duncan: Waves with short wavelength approach a beach in Silver Lake, Rehoboth, Delaware.

INSTRUCTORS

Triantaphyllos Akylas **Mechanical Engineering, MIT**
James Duncan **Mechanical Engineering, University of Maryland**
Diane Henderson **Mathematics, Pennsylvania State University**
Chiang Mei **Department of Civil and Environmental Engineering, MIT**
André Nachbin **Mathematics, IMPA**
Harvey Segur **Applied Mathematics, University of Colorado**
Michael Siegel **Mathematical Sciences, NJIT**
Konstantina Trivisa **Mathematics, University of Maryland**

Organizing Committee
James Duncan
Konstantina Trivisa

SCIENTIFIC BACKGROUND

Water waves are ubiquitous in nature and are important in many engineering applications including ship design and performance, remote sensing of ocean weather conditions, the design of ocean engineering structures and beach erosion. Current theoretical and experimental studies on nonlinear water waves use a wide variety of advanced mathematical and experimental techniques and address a range of topics including nonlinear wave modulation and interactions, wave dissipation, the generation and propagation of solitary waves, wave propagation over rough seabeds, and breaking waves.

Official Program and Additional Information:
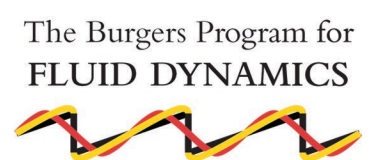http://burgers.umd.edu/school/

JUNE 6 - 10, 2016

Located at the College Park Campus of the University of Maryland in the Arnold E. Seigel Learning Center, Room 2121 J. M. Patterson Building

Apply
Application can be made at:
http://burgers.umd.edu/registration/.
For more information, contact James Duncan at duncan@umd.edu

A limited number of openings are available. Full consideration will be given to advanced graduate students and post-docs who have had an introductory graduate-level course covering linear water wave theory and who apply before the deadline of April 7, 2016. Funds are available to participants from outside the metro Washington, D.C. for travel and accommodations.

Institute for Physical Science & Technology IPST

UNIVERSITY OF MARYLAND 18 56

The Burgers Program for FLUID DYNAMICS