SIAM Conference on Nonlinear Waves and Coherent Structures

August 11-14, 2014
Churchill College,
University of Cambridge,
United Kingdom

Sponsored by the SIAM Activity Group on Nonlinear Waves and Coherent Structures. This conference is being held in cooperation with the Institute of Mathematics and its Applications (IMA).

Announcements

All sessions and on-site registration will take place on the main campus of Churchill College campus.

To RSVP to the conference on Facebook and connect with other attendees, find roommates etc., please visit https://www.facebook.com/events/545867968795450/

If you are tweeting about the conference, please use the designated hashtag to enable other attendees to keep up with the Twitter conversation and to allow better archiving of our conference discussions. The hashtag for this meeting is #SIAMNW14.

Organizing Committee

Organizing Committee Co-chairs
Paul Milewski, University of Bath, United Kingdom
Beatrice Pelloni, University of Reading, United Kingdom (IMA representative)

Margaret Beck, Boston University, USA, and Heriot-Watt University, United Kingdom
Alina Chertock, North Carolina State University, USA
Gadi Fibich, Tel-Aviv University, Israel
Philip Maini, University of Oxford, United Kingdom
Apala Majumdar, University of Bath, United Kingdom
Sheehan Olver, University of Sydney, Australia
Barbara Prinari, University of Colorado, USA and Universitá del Salento, Italy
Laurette Tuckerman, ESPCI, France
Jianke Yang, University of Vermont, USA

Description

Theoretical aspects of applied mathematical research on nonlinear waves and coherent structures are relevant to subjects as diverse as general relativity, high-energy particle and plasma physics, fluid and solid mechanics, nonlinear electrical circuits, Bose-Einstein condensation, nonlinear optics, random media, atmosphere and ocean dynamics, chemical reactions, and biology. Remarkable agreement between theory and experiments can be claimed in many of these fields.

The goals of the conference are to provide a forum for the development of mathematical methods and tools, to foster cross-fertilization among different fields of application, and most crucially to enable communication between the mathematicians who build the theory and the scientists who use it. The conference program will consist of presentations on subjects ranging from basic mathematical research to concrete applications.

Funding Agency

Themes

- Surface waves, including extreme waves
- Waves and coherent structures in geophysical fluid dynamics
- Optics, photonics and Bose-Einstein condensates
- Fronts and patterns in biology
- Fronts and dynamics in materials science
- Integrable systems and solitons
- Analytical and numerical methods
- Dynamics and stability

Important Deadlines

SUBMISSION DEADLINES
January 13, 2014: Minisymposium proposals
February 10, 2014: Abstracts for contributed and minisymposium speakers

TRAVEL FUND APPLICATION DEADLINE
Extended ~~January 27, 2014~~ February 21, 2014: SIAM Student Travel Award and Post-doc/Early Career Travel Award Applications

REGISTRATION DEADLINES
Early Bird Registration ends: July 14, 2014
Regular Registration: July 15 - August 10, 2014
Onsite Registration: August 11-14, 2014

CHURCHILL COLLEGE ACCOMMODATION RESERVATION DEADLINE
July 14, 2014