At-a-Glance Schedule

Conference on Nonlinear Waves and Coherent Structures

June 24–27, 2024
Lord Baltimore Hotel
Baltimore, MD, U.S.

Online Program and Mobile App
Attendees are encouraged to view the Online Program Schedule:
https://www.siam.org/conferences/cm/program/program-and-abstracts/nwcs24-program-abstracts

The Mobile App and Online Program Schedule contain the most up-to-date information. A searchable abstract document is also posted.

SIAM Events Mobile App

www.tripbuildermedia.com/apps/siam
### Sunday, June 23

4:00 p.m. – 6:00 p.m.  
Registration  
*Ballroom Foyer*  

### Monday, June 24

7:30 a.m. – 5:00 p.m.  
Registration  
*Ballroom Foyer*  

8:30 a.m. – 10:30 a.m.  
**Concurrent Sessions**  

**MS2** Wave Propagation in Lattice Dynamical Systems - Part I of II  
*Baltimore Theater*  

**MS3** Pattern Formation in Biological Applications - Part I of II  
*Salon A*  

**MS4** Analysis and Numerical Computations of Evolutionary Equations: Applications and Experiments - Part I of II  
*Salon B*  

**MS5** Vorticity Dynamics in Classical and Quantum Fluids - Part I of II  
*Salon D*  

**MS6** Stability of Traveling Waves - Theoretical and Numerical Methods - Part I of II  
*Salon E*  

**MS7** Nonlinear Microresonators and Frequency Microcombs: Experiment, Theory and Simulation - Part I of II  
*Hanover A*  

**CP1** Applications of Linear Waves  
*Hanover B*  

10:30 a.m. – 11:00 a.m.  
Coffee Break  
*Versailles*  

11:00 a.m. – 12:10 p.m.  
**IP1** Opening Remarks and Presentation: The Spatiotemporal Route to Turbulence  
Dwight Barkley, University of Warwick, United Kingdom  
*Salon C*  

12:10 p.m. – 2:30 p.m.  
Lunch Break  

2:30 p.m. – 4:30 p.m.  
**Concurrent Sessions**  

**MT1** Vladimir Zakharov in Science of Nonlinear Phenomena  
*Salon C*  

**MS8** Wave Propagation in Lattice Dynamical Systems - Part II of II  
*Baltimore Theater*  

4:30 p.m. – 5:00 p.m.  
Coffee Break  
*Versailles*  

5:00 p.m. – 6:00 p.m.  
**IP2** Breathers in PDE’s and Lattice Systems  
C. Eugene Wayne, Boston University, U.S.  
*Salon C*  

### Tuesday, June 25

7:30 a.m. – 5:30 p.m.  
Registration  
*Ballroom Foyer*  

8:30 a.m. – 10:30 a.m.  
**Concurrent Sessions**  

**MT2** An Introduction to Dispersive Hydrodynamics and Dispersive Shock Waves  
*Salon C*  

**MS14** Tribute Session for VE Zakharov: Exploring Nonlinear Waves and Singularities - Part I of II  
*Baltimore Theater*  

**MS15** Recent Developments in Quasi-Periodic Patterns  
*Salon A*  

**MS16** Evolution Equations and Integrable Systems - Part I of II  
*Salon B*  

**MS17** Advances in Stability Analysis for Nonlinear Waves - Part I of II  
*Salon D*  

**MS18** Steady Water Waves - Part I of II  
*Salon E*  

**MS19** Topologically Protected Wave Motion: Theory and Computation - Part I of II  
*Hanover A*  

10:30 a.m. – 11:00 a.m.  
Coffee Break  
*Versailles*  

11:00 a.m. – 11:15 a.m.  
Announcements  
*Salon C*  

12:00 p.m. – 2:30 p.m.  
Lunch Break  

2:30 p.m. – 4:30 p.m.  
**Concurrent Sessions**  

**MT3** Vladimir Zakharov in Science of Nonlinear Phenomena  
*Salon C*  

**MS9** Pattern Formation in Biological Applications - Part II of II  
*Salon A*  

**MS10** Analysis and Numerical Computations of Evolutionary Equations: Applications and Experiments - Part II of II  
*Salon B*  

**MS11** Vorticity Dynamics in Classical and Quantum Fluids - Part II of II  
*Salon D*  

**MS12** Stability of Traveling Waves - Theoretical and Numerical Methods - Part II of II  
*Salon E*  

**MS13** Nonlinear Microresonators and Frequency Microcombs: Experiment, Theory and Simulation - Part II of II  
*Hanover A*  

**CP2** Mathematical Methods for Nonlinear Waves  
*Hanover B*  

4:30 p.m. – 5:00 p.m.  
Coffee Break  
*Versailles*  

5:00 p.m. – 6:00 p.m.  
**IP3** Instability of Peaked Waves in Hydrodynamical Models  
Dmitry Pelinovsky, McMaster University, Canada  
*Salon C*  

4:00 p.m. – 6:00 p.m.  
Registration  
*Ballroom Foyer*
Tuesday, June 25

6:00 p.m. – 7:30 p.m.
Dinner Break

7:30 p.m. – 9:30 p.m.
PP1 Reception and Poster Session

Versailles

Wednesday, June 26

7:30 a.m. – 5:30 p.m.
Registration

Ballroom Foyer

8:30 a.m. – 10:30 a.m.
Concurrent Sessions

MS27 Dispersive Hydrodynamics and Applications - Part II of II
Salon C

MS28 Reaction Diffusion Mechanisms for Localised Patterns and Waves - Part I of II
Baltimore Theater

MS29 New Results in Integrable Nonlocal Wave Models - Part II of II
Salon A

MS30 Peakons: Existence, Stability, and Beyond - Part I of II
Salon B

MS31 Experimental Measurements and Observations of New Phenomena in Fluid Dynamics - Part I of II
Salon D

MS32 Recent Developments in Dispersive Partial Differential Equations - Part I of II
Salon E

MS33 New Horizons in the Modelling of Interfacial Flows - Part I of II
Hanover A

8:30 a.m. – 10:50 a.m.
CP5 Nonlinear Waves: Analysis and Applications

Hanover B

10:30 a.m. – 11:00 a.m.
Coffee Break

Versailles

11:00 a.m. – 12:00 p.m.
IP5 Inverse Scattering Transform for Nonlinear Schrödinger Systems on a Nontrivial Background: A Survey of Classical Results, New Developments and Future Directions

Barbara Primari, University at Buffalo, U.S

Salon C

12:00 p.m. – 2:30 p.m.
Lunch Break

Thursday, June 27

7:30 a.m. – 3:00 p.m.
Registration

Ballroom Foyer

8:30 a.m. – 10:30 a.m.
Concurrent Sessions

MS41 Nonlinear Water Waves
Salon C

MS42 Advances in Boundary Value Problems for Integrable and Linear PDEs - Part I of II
Baltimore Theater

10:30 a.m. – 11:00 a.m.
Coffee Break

Versailles

11:00 a.m. – 12:00 p.m.
IP6 Closing Remarks and Presentation: Universal Dynamics of Damped-Driven Systems: The Logistic Map as a Normal Form for Energy Balance and Pattern Formation

J. Nathan Kutz, University of Washington, U.S

Salon C

12:00 p.m. – 2:30 p.m.
Lunch Break

2:30 p.m. – 3:30 p.m.
SP1 Martin D. Kruskal and T. Brooke Benjamin Prize in Nonlinear Waves Award Presentations and Martin D. Kruskal Prize Lecture

Thanasis Fokas, University of Cambridge, United Kingdom

Salon C

5:00 p.m. – 6:00 p.m.
SP1 Martin D. Kruskal and T. Brooke Benjamin Prize in Nonlinear Waves Award Presentations and Martin D. Kruskal Prize Lecture

Thanasis Fokas, University of Cambridge, United Kingdom

Salon C

6:00 p.m. – 7:30 p.m.
Dinner Break

7:30 p.m. – 8:30 p.m.
SIAG/NWCS Business Meeting.

*Complimentary beer and wine will be served.*

Salon C