

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

siam | Society for Industrial and
Applied Mathematics

3600 Market Street, 6th Floor
Philadelphia, PA 19104-2688 U.S.
Telephone: +1-215-382-9800

Conference Email: meetings@siam.org • Conference Web: www.siam.org/conferences
Membership and Customer Service: (800) 447-7426 (U.S. & Canada) or +1-215-382-9800 (worldwide)
<https://www.siam.org/conferences/cm/conference/nwcs24>

Sunday, June 23

Monday, June 24

Tuesday, June 25

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

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.

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

CP3 Numerical Methods for Nonlinear Waves
Hanover B

10:30 a.m. – 11:00 a.m.

Coffee Break
Versailles

11:00 a.m. – 11:15 a.m.

Announcements
Salon C

11:00 a.m. – 12:00 p.m.

IP3 Instability of Peaked Waves in Hydrodynamical Models
Dmitry Pelinovsky, McMaster University, Canada
Salon C

12:00 p.m. – 2:30 p.m.

Lunch Break

2:30 p.m. – 4:30 p.m.

Concurrent Sessions

MS20 Dispersive Hydrodynamics and Applications - Part I of II
Salon C

MS21 Tribute Session for VE Zakharov: Exploring Nonlinear Waves and Singularities - Part II of II
Baltimore Theater

MS22 New Results in Integrable Nonlocal Wave Models - Part I of II
Salon A

MS23 Evolution Equations and Integrable Systems - Part II of II
Salon B

MS24 Advances in Stability Analysis for Nonlinear Waves - Part II of II
Salon D

MS25 Steady Water Waves - Part II of II
Salon E

MS26 Topologically Protected Wave Motion: Theory and Computation - Part II of II
Hanover A

CP4 Nonlinear Schrodinger and Related Models & Applications
Hanover B

4:30 p.m. – 5:00 p.m.

Coffee Break
Versailles

5:00 p.m. – 5:15 p.m.

Announcements
Salon C

5:00 p.m. – 6:00 p.m.

IP4 Localised Structures in Reaction-Diffusion Systems for Cell Polarity Formation
Alan R. Champneys, University of Bristol, United Kingdom
Salon C

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 Prinari, University at Buffalo, U.S

Salon C

12:00 p.m. – 2:30 p.m.

Lunch Break

Wednesday, June 26

2:30 p.m. – 4:30 p.m.

Concurrent Sessions

MT3 Data-driven Methods for Dynamic Systems

Salon C

MS34 Reaction Diffusion Mechanisms for Localised Patterns and Waves - Part II of II

Baltimore Theater

MS35 Water Waves - Part I of II

Salon A

MS36 Peakons: Existence, Stability, and Beyond - Part II of II

Salon B

MS37 Experimental Measurements and Observations of New Phenomena in Fluid Dynamics - Part II of II

Salon D

MS38 Recent Developments in Dispersive Partial Differential Equations - Part II of II

Salon E

MS39 New Horizons in the Modelling of Interfacial Flows - Part II of II

Hanover A

MS40 Patterns on Curved Surfaces

Hanover B

4:30 p.m. – 5:00 p.m.

Coffee Break

Versailles

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

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

Thursday, June 27

MS43 Water Waves - Part II of II

Salon A

MS44 The Effect of Noise on Waves and Coherent Structures - Part I of II

Salon B

MS45 Recent Advances in Understanding of Wave Dynamics in Neuroscience, Optics, Fluid Mechanics and Turbulence - Part I of II

Salon D

MS46 Existence and Stability of Nonlinear Patterns

Salon E

MS47 Analytical and Numerical Methods in Nonlinear Wave Propagation - Part I of II

Hanover A

MS48 Nonlinear Waves and Coherent Structures on Lattices

Hanover B

10:30 a.m. – 11:00 a.m.

Coffee Break

Versailles

11:00 a.m. – 12:10 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

12:10 p.m. – 2:30 p.m.

Lunch Break

2:30 p.m. – 4:30 p.m.

Concurrent Sessions

MS1 Nonlinear Waves in Optics

Salon C

MS49 Advances in Boundary Value Problems for Integrable and Linear PDEs - Part II of II

Baltimore Theater

MS50 The Effect of Noise on Waves and Coherent Structures - Part II of II

Salon B

MS51 Recent Advances in Understanding of Wave Dynamics in Neuroscience, Optics, Fluid Mechanics and Turbulence - Part II of II

Salon D

MS52 Analytical and Numerical Methods in Nonlinear Wave Propagation - Part II of II

Hanover A

ABBREVIATION KEY

CP = Contributed Presentation Session

IP = Invited Plenary Speaker

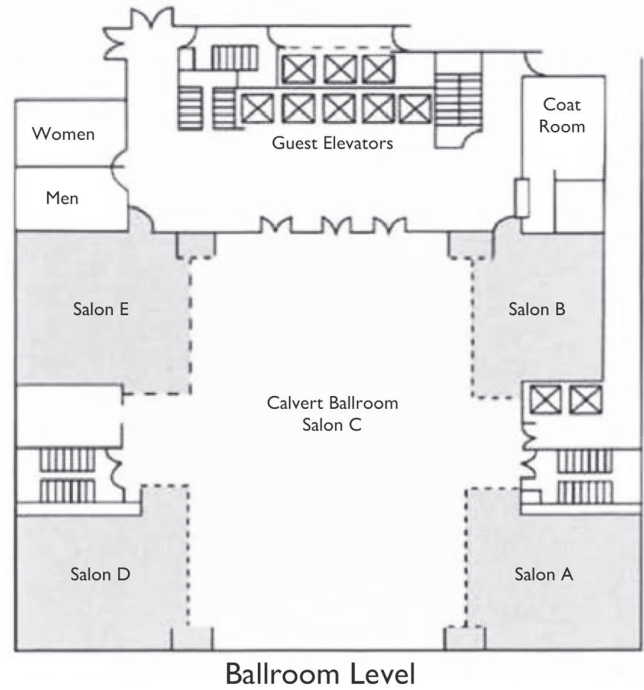
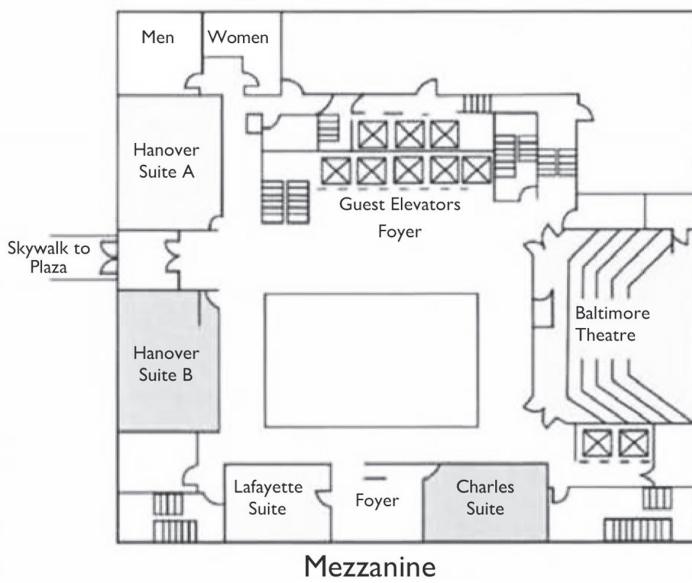
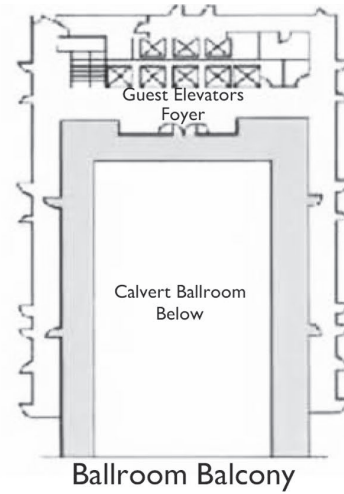
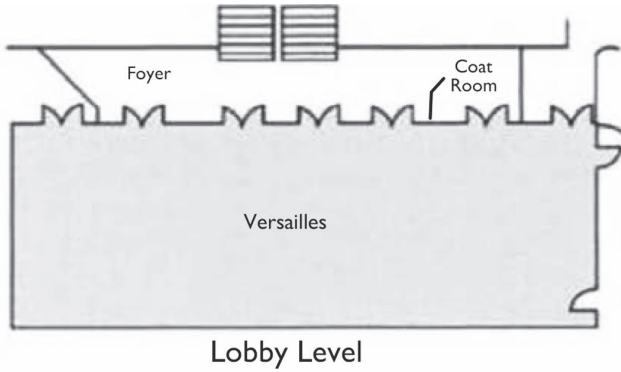
MS = Minisymposium

MT = Minitutorial

PP = Poster Session

SP = Special Lecture

Lord Baltimore Hotel Floor Plans



Thank you to our sponsor and funding agency



Academic Open Access Publishing
since 1996

