

At-a-Glance Schedule



Conference on Nonlinear Waves and Coherent Structures

May 26–29, 2026

Concordia University, John Molson Building
Montréal, Québec, Canada

Online Program and Mobile App

Attendees are encouraged to view the Online Program Schedule:

<https://www.siam.org/conferences-events/siam-conferences/nwcs26/program/program-abstracts/>

The Mobile App and Online Program Schedule contain the most up-to-date information.

A searchable abstract document is also posted.

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Tuesday, May 26

Tuesday, May 26

Wednesday, May 27

Location details: The first number on the room assignment refers to the classroom level.

For example: *MB 3.265—3rd floor, room 265*

Large maps will be located on levels 1, 3, and 9

7:30 a.m. – 5:00 p.m.

Registration

MB Atrium (1st floor)

8:30 a.m. – 10:30 a.m.

Concurrent Sessions

MS1 Structure-Aware Learning for Nonlinear Waves - Part I of II

MB 1.210

MS2 Nonlinear Dispersive PDEs and Integrability Techniques - Part I of III

MB 9 A

MS3 Nonlinear Waves: Analysis & Computation - Part I of II

MB 9 B

MS4 Coherent Structures in Biology and Social Sciences - Part I of II

MB 9 D

MS5 Mathematics Discovering New Phenomena: Fluid Dynamics Discoveries in Math Departments - Part I of III

MB 3.430

MS6 Nonlinear Waves in a Complex Environment - Part I of III

MB 3.445

MS7 Pattern Formation, Homoclinic Snaking, and Modulation Equations in Non-Standard Systems - Part I of II

MB 3.435

MS8 Traveling Waves in Networks and Lattices

MB 3.255

CP1 Initial–Boundary Value Problems and PDE Theory

MB 3.265

10:30 a.m. – 11:00 a.m.

Coffee Break

MB 3.130 (3rd floor) and MB Atrium (1st floor)

11:00 a.m. – 12:00 p.m.

IP1 Welcome Remarks/Surface Wave Effects on the Transport of Finite-sized Particles

Michelle H. Dibenedetto, Princeton University, U.S.

MB 1.210

12:00 p.m. – 2:00 p.m.

Lunch Break

2:00 p.m. – 4:00 p.m.

Concurrent Sessions

MS9 Structure-Aware Learning for Nonlinear Waves - Part II of II

MB 1.210

MS10 Nonlinear Dispersive PDEs and Integrability Techniques - Part II of III

MB 9 A

MS11 Nonlinear Waves: Analysis & Computation - Part II of III

MB 9 B

MS12 Coherent Structures in Biology and Social Sciences - Part II of II

MB 9 D

MS13 Mathematics Discovering New Phenomena: Fluid Dynamics Discoveries in Math Departments - Part II of III

MB 3.430

MS14 Nonlinear Waves in a Complex Environment - Part II of III

MB 3.445

MS15 Pattern Formation, Homoclinic Snaking, and Modulation Equations in Non-Standard Systems - Part II of II

MB 3.435

MS16 Nonlinear Maxwell Equations - Part I of II

MB 3.255

CP2 Integrable Hierarchies and Exact Wave Dynamics

MB 3.265

4:00 p.m. – 4:30 p.m.

Coffee Break

MB- 3.130 (3rd floor) and MB Atrium (1st floor)

4:30 p.m. – 5:30 p.m.

IP2 Long-time Dynamics and Stability of Coherent Structures in Dispersive Boussinesq Systems

Claudio Munoz, CNRS and University of Chile, Chile

MB 1.210

Wednesday, May 27

7:30 a.m. – 5:00 p.m.

Registration

MB Atrium (1st floor)

8:30 a.m. – 10:30 a.m.

Concurrent Sessions

MT1 Computer-assisted Analysis for PDEs

MB 1.210

MS17 Nonlinear Dispersive PDEs and Integrability Techniques - Part III of III

MB 9 A

MS18 Nonlinear Waves: Analysis & Computation - Part III of III

MB 9 B

MS19 Recent Advances in Dispersive Hydrodynamics - Part I of III

MB 9 D

MS20 Mathematics Discovering New Phenomena: Fluid Dynamics Discoveries in Math Departments - Part III of III

MB 3.430

MS21 Nonlinear Waves in a Complex Environment - Part III of III

MB 3.445

MS22 Nonlinear Waves in Biology - Part I of II

MB 3.435

MS23 Nonlinear Maxwell Equations - Part II of II

MB 3.255

CP3 Localized, Travelling, and Breaking Waves

MB 3.265

10:30 a.m. – 11:00 a.m.

Coffee Break

MB 3.130 (3rd floor) and MB Atrium (1st floor).

11:00 a.m. – 12:00 p.m.

IP3 Localised Multi-Dimensional Patterns

David Lloyd, University of Surrey, United Kingdom

MB 1.210

12:00 p.m. – 2:00 p.m.

Lunch Break

2:00 p.m. – 4:00 p.m.

Concurrent Sessions

MT2 Semiclassical Analysis of Water Waves

MB 1.210

MS24 New Developments in Integrable Nonlinear Waves - Part I of III

MB 9 A

MS25 The Dynamics of Localized Patterns

MB 9 B

MS26 Recent Advances in Dispersive Hydrodynamics - Part II of III

MB 9 D

MS27 Particle Dynamics in the Ocean - Part I of II

MB 3.430

MS28 Minisymposium Spectral and Stability Problems Title - Part I of III

MB 3.445

MS30 Interfaces in Partial Differential Equations - Part I of II

MB 3.255

CP4 Atmospheric and Mountain Wave Theory

MB 3.265

4:00 p.m. – 4:30 p.m.

Coffee Break

MB 3.130 (3rd floor) and MB Atrium (1st floor)

4:30 p.m. – 5:30 p.m.

IP4 Resonances as a Computational Tool

Katharina Schratz, Sorbonne University, France

MB 1.210

7:30 p.m. – 9:30 p.m.

PP1 Poster Session and Dessert Reception

MB 9 Conference Center (9th floor)

Thursday, May 28**Thursday, May 28****Friday, May 29****8:00 a.m. – 5:00 p.m.**Registration
*MB Atrium (1st floor)***8:30 a.m. – 10:30 a.m.****Concurrent Sessions****MS31** Detecting Coherent Structures in Data - Part I of II*MB 1.210***MS32** New Developments in Integrable Nonlinear Waves - Part II of III*MB 9 A***MS33** Recent Advances in Dispersive Hydrodynamics - Part III of III*MB 9 B***MS34** Coherent structures, Spatio-temporal Heterogeneities, and Dynamic Bifurcations - Part I of II*MB 9 D***MS35** Particle Dynamics in the Ocean - Part II of II*MB 3.430***MS36** Minisymposium Spectral and Stability Problems Title - Part II of III*MB 3.445***MS37** On the Interface: Frontiers in Water Waves and Nonlinear Patterns - Part I of III*MB 3.435***MS38** Interfaces in Partial Differential Equations - Part II of II*MB 3.255***MS39** Recent Advances in Understanding of Waves in Stochastic PDE, Fluid Mechanics, Collective Dynamics and Atmospheric Science*MB 3.265***10:30 a.m. – 11:00 a.m.**Coffee Break
*MB 3.130 (3rd floor) and MB Atrium (1st floor)***11:00 a.m. – 12:00 p.m.****IP5** Surfing Langmuir Waves
Toan Nguyen, Pennsylvania State University, U.S.
*MB 1.210***12:00 p.m. – 2:00 p.m.**

Lunch Break

2:00 p.m. – 4:00 p.m.**Concurrent Sessions****MS40** Detecting Coherent Structures in Data - Part II of II*MB 1.210***MS41** Solitary Waves - Analytical and Numerical Methods and Applications - Part I of II*MB 9 A***MS42** Rogue Waves and Algebraic Solitons in Integrable Models - Part I of III*MB 9 B***MS43** Coherent Structures, Spatio-temporal Heterogeneities, and Dynamic Bifurcations - Part II of II*MB 9 D***MS44** Simulation and Analysis of Waves in Periodic Media - Part I of III*MB 3.430***MS45** Minisymposium Spectral and Stability Problems Title - Part III of III*MB 3.445***MS46** On the Interface: Frontiers in Water Waves and Nonlinear Patterns - Part II of III*MB 3.435***MS47** Waves and Flows in Geophysical Fluid Dynamics*MB 3.255***MS48** Nonlinear Waves in Lattices*MB 3.265***MS49** New Developments in Integrable Nonlinear Waves - Part III of III*MB 9 A***4:00 p.m. – 4:30 p.m.**Coffee Break
*MB 3.130 (3rd floor) and MB Atrium (1st floor).***4:30 p.m. – 5:30 p.m.****SP1** T. Brooke Benjamin Prize in Nonlinear Waves Award Presentation and Talk
Robert Jenkins, University of Central Florida, U.S.
*MB 1.210***5:30 p.m. – 5:40 p.m.**

Intermission

5:40 p.m. – 6:30 p.m.SIAG/NWCS Business Meeting
Complimentary beer and wine will be served.
*MB 9A & 9B***Friday, May 29****8:00 a.m. – 2:30 p.m.**Registration
*MB Atrium (1st floor)***8:30 a.m. – 10:30 a.m.****Concurrent Sessions****MS50** Rogue Waves and Algebraic Solitons in Integrable Models - Part II of III*MB 1.210***MS51** Advances in the Mathematical and Computational Analysis of Planar Patterns - Part I of II*MB 9 B***MS52** Simulation and Analysis of Waves in Periodic Media - Part II of III*MB 9 D***MS53** Solitary Waves - Analytical and Numerical Methods and Applications - Part II of II
*MB 3.430***MS54** Computer-Assisted Proofs in Nonlinear Waves and Coherent Structures
*MB 9 A***MS55** On the Interface: Frontiers in Water Waves and Nonlinear Patterns - Part III of III*MB 3.445***MS56** Existence and Stability of Traveling Wave Solutions*MB 3.435***CP5** Stochastic, Fractional, and Nonlocal Wave Models*MB 3.265***10:30 AM - 11:00 AM**Coffee Break
*MB 3.130 (3rd floor) and MB Atrium (1st floor).***11:00 AM - 12:00 PM****IP6** Instability of Waves Inside the Ocean
Bruce Sutherland, University of Alberta, Canada
*MB 1.210***12:00 p.m. – 2:00 p.m.**

Lunch Break

2:00 p.m. – 4:00 p.m.**Concurrent Sessions****MS29** Nonlinear Waves in Biology - Part II of II
*MB 3.435***MS57** Stability of Nonlinear Waves in Hyperbolic and Related Systems*MB 3.430***MS58** Rogue Waves and Algebraic Solitons in Integrable Models - Part III of III*MB 1.210***MS59** Advances in the Mathematical and Computational Analysis of Planar Patterns - Part II of II*MB 9 A***MS60** Simulation and Analysis of Waves in Periodic Media - Part III of III*MB 9 B***MS61** Fronts Invading Unstable States
*MB 9 D***CP6** Nonlinear Waves on Complex Media and Geometry*MB 3.265***ABBREVIATION KEY****CP** = Contributed Presentation Session**IP** = Invited Plenary Speaker**MS** = Minisymposium**MT** = Minitutorial**PP** = Poster Session

SIAM and the Organizing Committee wish to extend their thanks and appreciation to the U.S. National Science Foundation for their support.



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www.siam.org/Activity-Groups/NWCS

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Collaborate and interact with mathematicians and applied scientists whose work involves nonlinear waves and coherent structures.

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- Biennial conference
- Special sessions at SIAM meetings
- SIAG/NWCS web portal
- SIAG/NWCS Lecture
- SIAG/NWCS Mid-Career Prize

BENEFITS OF SIAG/NWCS MEMBERSHIP

- Listing in the SIAG's online membership directory
- Additional \$15 discount on registration at the SIAM Conference on Nonlinear Waves and Coherent Structures (excludes students)
- Access to SIAM Engage online community for SIAG/NWCS
- Eligibility for candidacy for SIAG/NWCS office
- Participation in the selection of SIAG/NWCS officers

ELIGIBILITY FOR SIAG/NWCS MEMBERSHIP

- Must be a current SIAM member

COST

- \$15 per year
- Outreach members can join one SIAM Activity Group for free and student members can join two for free!

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