



Annual Meeting

July 6–10, 2026

Conference on the Life Sciences

July 6–9, 2026

Conference on Mathematics of Planet Earth

July 6–8, 2026

Conference on Applied Mathematics Education

July 9–10, 2026

**Unless otherwise noted, all events will take place at the Huntington Convention Center of Cleveland:
300 Lakeside Avenue East, Cleveland, OH 44114**

Attendees are encouraged to view the Online Programs:

AN26: <https://www.siam.org/conferences-events/siam-conferences/an26/program/program-abstracts/>

LS26: <https://www.siam.org/conferences-events/siam-conferences/ls26/program/program-abstracts/>

MPE26: <https://www.siam.org/conferences-events/siam-conferences/mpe26/program/program-abstracts/>

ED26: <https://www.siam.org/conferences-events/siam-conferences/ed26/program/program-abstracts/>



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

Conference E-mail: meetings@siam.org

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Sunday, July 5

8:30 a.m. – 4:30 p.m.

Short Course: From Data to Equations: Weak Form Methods for Discovering Models from Noisy Data (separate registration fee applies)

Room 3

3:30 p.m. – 7:30 p.m.

Registration Open
Hall C Foyer

4:00 p.m. – 5:00 p.m.

Student Orientation
Grand Ballroom B

5:00 p.m. – 6:00 p.m.

Near to Peer Mentoring Session
Grand Ballroom B

6:00 p.m. – 8:00 p.m.

Welcome Reception
Roofstop Terrace

Monday, July 6

7:00 a.m. – 5:00 p.m.

Registration Open
Hall C Foyer

8:00 a.m. – 10:00 a.m.**Concurrent Sessions**

MS1 AWM Workshop: Structure-Preserving and Computationally-Efficient Methods for Complex Systems - Part I of II

Room 3

MS2 Optimization and Real Algebraic Geometry - Part I of II

Room 4

MS3 Algebraic Statistics - Part I of II

Room 5

MS4 From Theory to Computation: Modern Methods for PDE Inverse Problems - Part I of II

Room 6

MS5 Recent Advances in Computational Data Science

Room 7

MS6 Recent Advances in Large Population Systems and Quantitative Finance - Part I of II

Room 8

MS7 From Orthogonal Polynomials to Nonlinear Special Functions with Applications - Part I of III

Room 9

MS8 Recent Advances in Asymptotic Analysis and Special Functions - Part I of III

Atrium Ballroom A

MS9 Quantum Computing: Numerical Algorithms and Applications - Part I of II

Atrium Ballroom C

Monday, July 6

MS10 Performance Portability and Scalability for Scientific Applications - Part I of II

Atrium Ballroom D

MS11 Low-order Analysis and Modeling of Transient Flows - Part I of II

Atrium Ballroom F

MS12 Research Highlights from The Southwest Section of SIAM - Part I of III

Room 205A

MS13 Research from SIAM-Simons Undergraduate Summer Research Program - Part I of II

Room 205B

MS14 Optimal Experimental Design: Theory, Algorithms, and Applications - Part I of II

Room 302

MS16 Mathematical Frontiers in Social Sciences: Models, Methods, and Applications - Part I of II

Room 307B

MS17 Weak-form SciML: Theory and Applications - Part I of III

Room 15

CP1 Numerical Methods

Room 202

CP2 Disease Progression

Room 307A

CP3 Dynamical Systems

Room 203

9:30 a.m. – 4:30 p.m.

Exhibit Hall Open
Hall C

10:00 a.m. – 10:30 a.m.

Coffee Break
Hall C

10:30 a.m. – 11:30 a.m.

IP1 The Secret Life of Partitions
Ken Ono, University of Virginia, U.S.
Grand Ballroom A

11:45 a.m. – 12:30 p.m.

IP2 Sampling on Graphs
Rekha Thomas, University of Washington, U.S.
Grand Ballroom A

12:30 p.m. – 1:45 p.m.

Lunch Break

AWM Luncheon (by invitation only)

Room 1

12:30 p.m. – 1:15 p.m.

Learning with AI: A Framework for Students, Instructors, and Universities
Join Mac Hyman (former SIAM president) for an overview of Learning with AI: A Framework for Students, Instructors, and Universities, a forthcoming SIAM book on teaching and learning

continues in next column

Monday, July 6

in a world where AI tools are part of ordinary academic life. Topics will include the conflict students face between earning grades, demonstrating understanding, and being honest about AI use; approaches to verify that learning is internalized; and practical frameworks for assignment design, grading, and assessment in AI-aware courses. This session is relevant for faculty, administrators, students, and anyone interested in how mathematical and scientific reasoning is changing in the AI era. Attendees will have the chance to share feedback to help shape the book before publication and review a draft at the SIAM bookstore.

Hall C, the SIAM-plyfy Stage

1:45 p.m. – 2:30 p.m.

SP1 SIAM Industry Prize Lecture: Topological Data Analysis for Machine Learning-Based Network Intrusion Detection
Nandi Leslie, Raytheon Technologies, U.S.
Grand Ballroom A

2:45 p.m. – 3:30 p.m.

SP2 W. T. and Idalia Reid Prize Lecture: Rattlebacks, Spinning Tops, and Snakeboards: The Mathematics of Nonholonomic Mechanics and Control
Anthony M. Bloch, University of Michigan, U.S.
Grand Ballroom A

3:30 p.m. – 4:00 p.m.

Coffee Break
Hall C

4:00 p.m. – 6:00 p.m.**Concurrent Sessions**

MS18 AWM Workshop: Structure-Preserving and Computationally-Efficient Methods for Complex Systems - Part II of II

Room 3

MS19 Optimization and Real Algebraic Geometry - Part II of II

Room 4

MS20 Algebraic Statistics - Part II of II

Room 5

MS21 From Theory to Computation: Modern Methods for PDE Inverse Problems - Part II of II

Room 6

MS22 Recent Advances in Large Population Systems and Quantitative Finance - Part II of II

Room 8

MS23 From Orthogonal Polynomials to Nonlinear Special Functions with Applications - Part II of III

Room 9

MS24 Recent Advances in Asymptotic Analysis and Special Functions - Part II of III

Atrium Ballroom A

MS25 Quantum Computing: Numerical Algorithms and Applications - Part II of II

Atrium Ballroom C

Monday, July 6

MS26 Performance Portability and Scalability for Scientific Applications - Part II of II

Atrium Ballroom D

MS27 Low-order Analysis and Modeling of Transient Flows - Part II of II

Atrium Ballroom F

MS28 Numerical Methods for High-Frequency Waves and Related Inverse Problems - Part I of II
Room 203

MS29 Research Highlights from The Southwest Section of SIAM - Part I of III
Room 205A

MS30 Research from SIAM-Simons Undergraduate Summer Research Program - Part II of II
Room 205B

MS31 Optimal Experimental Design: Theory, Algorithms, and Applications - Part II of II
Room 302

MS33 Mathematical Frontiers in Social Sciences: Models, Methods, and Applications - Part II of II
Room 307B

MS34 Weak-form SciML: Theory and Applications - Part II of III
Room 15

CP4 Statistics and Operations Research
Room 202

CP5 Population Dynamics
Room 307A

6:15 p.m. – 6:45 p.m.

PD1 Industry Lightning Talks
Grand Ballroom A

6:45 p.m. – 7:45 p.m.

PD2 Industry Career Panel
Grand Ballroom A

7:00 p.m. – 9:00 p.m.

SIAMS Editorial Board Meeting
Room 308

7:45 p.m. – 9:15 p.m.

Graduate Student Reception and Industry Reception
Grand Ballroom B

Tuesday, July 7

7:00 a.m. – 8:00 a.m.

Student Chapter Breakfast with Leadership (by invitation only)
Room 1

7:00 a.m. – 5:00 p.m.

Registration Open
Hall C Foyer

Tuesday, July 7

8:00 a.m. – 10:00 a.m.

Concurrent Sessions

PD3 AWM Career Panel: Navigating Opportunities and Challenges in the Era of AI
Room 7

PD4 Math Meets AI Policy: From Task Force to Washington
Room 3

MS36 Real Numerical Algebraic Geometry - Part I of II
Room 4

MS37 Nonlinear Algebra for Biologically-inspired and Cooperative Robotics and Aerospace - Part I of II
Room 5

MS38 New Perspectives in the Mathematical Theory of Fluid Mechanics - Part I of II
Room 6

MS39 Connections Between Mean Field Control and Machine Learning
Room 8

MS40 Recent Advances in Asymptotic Analysis and Special Functions - Part III of III
Atrium Ballroom A

MS41 Quantum Computing: Algorithms and Applications - Part I of II
Atrium Ballroom C

MS42 Advanced Time Integration Methods and Multiphysics Applications - Part I of II
Atrium Ballroom D

MS43 Advances in Numerical Methods for Kinetic and Plasma Equations - Part I of III
Room 202

MS44 Numerical Methods for High-Frequency Waves and Related Inverse Problems - Part II of II
Room 203

MS45 Research Highlights from The Southwest Section of SIAM - Part III of III
Room 205A

MS47 Discrete Spectral and Inverse Problems - Part I of II
Room 302

MS48 Inverse Problems and Regularization Methods for Geophysical Applications
Room 304

MS49 Recent Advances in Uncertainty Quantification - Part I of II
Room 307A

MS50 Recent Advances in Mathematical Methods for Applied Modeling - Part I of II
Room 307B

MS51 Weak-form SciML: Theory and Applications - Part III of III
Room 15

9:30 a.m. – 4:30 p.m.

Exhibit Hall Open
Hall C

Tuesday, July 7

10:00 a.m. – 10:30 a.m.

Coffee Break
Hall C

10:30 a.m. – 11:15 a.m.

JP1 Joint Plenary Speaker with 2026 SIAM Conference on the Life Sciences: When More Isn't Better: A Lesson from Rethinking Scale in Single-Cell Foundation Models
Lorin Crawford, Microsoft Research, U.S.
Grand Ballroom A

11:30 a.m. – 12:15 p.m.

IP3 Unintended Consequences of Artificial Intelligence in Financial Markets
Alvaro Cartea, University of Oxford, United Kingdom
Grand Ballroom A

12:15 p.m. – 1:45 p.m.

Lunch Break
Honors and Awards Luncheon (ticketed event)
Grand Ballroom B

2:00 p.m. – 2:45 p.m.

SP3 AWM-SIAM Sonia Kovalevsky Lecture: Spectral Problems in Inverse Scattering
Fioralba Cakoni, Rutgers University, U.S.
Grand Ballroom A

3:00 p.m. – 3:45 p.m.

SP4 John Von Neumann Prize: Epidemics, Erdos numbers, and the Internet: Graphs and Networks in the Real World
Mark Newman, University of Michigan and Santa Fe Institute, U.S.
Grand Ballroom A

3:45 p.m. – 4:00 p.m.

Coffee Break
Hall C

4:00 p.m. – 6:00 p.m.

Concurrent Sessions

PD5 Connecting Mathematical Research to Emerging Biotechnology Initiatives
Room 3

MS53 Real Numerical Algebraic Geometry Part II of II
Room 4

MS54 Nonlinear Algebra for Biologically-Inspired and Cooperative Robotics and Aerospace - Part II of II
Room 5

MS55 New Perspectives in the Mathematical Theory of Fluid Mechanics - Part II of II
Room 6

MS56 Modern Scientific Computational Methods for Learning Dynamical Systems - Part I of III
Room 7

Tuesday, July 7

MS57 Recent Development of Machine Learning in Finance
Room 8

MS58 Orthogonal Polynomials and Special Functions in Mathematical Physics - Part I of III
Atrium Ballroom A

MS59 Quantum Computing: Algorithms and Applications - Part II of II
Atrium Ballroom C

MS60 Advanced Time Integration Methods and Multiphysics Applications - Part II of II
Atrium Ballroom D

MS61 Advances in Numerical Methods for Kinetic and Plasma Equations - Part II of III
Room 202

MS62 Synchrony and Spatial Population Dynamics: Insights From Statistical Physics
Room 203

MS64 Discrete Spectral and Inverse Problems - Part II of II
Room 302

MS65 Inverse Problems and Applications: Ideas from Early-career Researchers
Room 304

MS66 Recent Advances in Uncertainty Quantification - Part II of II
Room 307A

MS67 Recent Advances in Mathematical Methods for Applied Modeling - Part II of II
Room 307B

CP6 Partial Differential Equations
Room 9

CP7 AI and Learning
Room 15

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6:15 p.m. – 7:00 p.m.

SIAM Business Meeting

****Complimentary beer & wine will be served****
All are welcome to attend.
Grand Ballroom A

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7:00 p.m. – 8:30 p.m.

Donor Reception

Hope Ballroom E, Hilton

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7:30 p.m. – 8:00 p.m.

SIAG/LS Business Meeting

****Complimentary beer and wine will be served****
Grand Ballroom C

SIAG/MPE Business Meeting

****Complimentary beer and wine will be served****
Room 10

SIAG/EDI Business Meeting

****Complimentary beer and wine will be served****
Room 8

SIAG/OPSF Business Meeting

****Complimentary beer and wine will be served****
Room 9

Tuesday, July 7

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8:00 p.m. – 10:00 p.m.

PP1 Poster Session and Dessert Reception

PP2 AWM Miniposterium

MP1 Applications of Algebraic Geometry

MP2 Evaluating Urban Fire Coverage Using Optimal Transport
Hall C

Wednesday, July 8

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7:30 a.m. – 4:30 p.m.

Registration Open

Hall C Foyer

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8:00 a.m. – 9:00 a.m.

MS147 2026 Student Paper Prize Presentations
Grand Ballroom A

.....
8:00 a.m. – 10:00 a.m.

Concurrent Sessions

MS15 Imaging and Inverse Problems: Theory, Computation, and Data-Driven Methods - Part I of II
Room 5

MS68 Advances in Applications of Topological Data Analysis
Room 3

MS69 Algebraic Methods for Phylogenetic Inference - Part I of II
Room 4

MS70 Applications of Partial Differential Equations in Fluid Mechanics and Free Boundary Problems - Part I of II
Room 6

MS71 Modern Scientific Computational Methods for Learning Dynamical Systems - Part II of III
Room 7

MS72 The Mathematics of Financial Technology
Room 8

MS73 AI Assistance in Special Functions and Number Theory: A New Paradigm - Part I of II
Room 9

MS74 Orthogonal Polynomials and Special Functions in Mathematical Physics - Part II of III
Atrium Ballroom A

MS75 Reduced Order Modeling for Parametric Flow Problems - Part I of II
Atrium Ballroom D

MS77 Advances in Numerical Methods for Kinetic and Plasma Equations - Part III of III
Room 202

MS78 Topological Dynamics in Natural Systems - Part I of II
Room 203

Wednesday, July 8

MS79 Stochastic Population Dynamics in Discrete and Continuous Time
Room 205A

MS80 Math Circles as Engines for Undergraduate Community, Belonging, and Persistence in STEM - Part I of II
Room 205B

MS81 Sparsity-Driven Methods for Scientific Computing and Inverse Problems - Part I of II
Room 304

MS82 Integrating Data and Management Choices into Models for Ecology and Epidemiology
Room 307B

MS83 Recent Advances in Latent Representation Learning - Part I of II
Room 15

CP8 Fluid Flow and Particle Systems
Atrium Ballroom C

CP9 Optimization
Room 302

CP10 Epidemiology
Room 307A

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9:30 a.m. – 4:30 p.m.

Exhibit Hall Open

Hall C

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10:00 a.m. – 10:30 a.m.

Coffee Break

Hall C

SIAM Journal on Life Sciences (SIALS) – Meet the Editors
Hall C, The SIAM-plify Stage

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10:30 a.m. – 11:15 a.m.

JP2 Joint Plenary with SIAM Conference on Mathematics of Planet Earth: Grid to Grid: A Vision for Coupling Earth Systems Models to Energy Networks

Katherine J. Evans, Oak Ridge National Laboratory, U.S.
Grand Ballroom A

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11:30 a.m. – 12:15 p.m.

IP4 Mathematical Modeling and Optimization for Vertical Farming: From Engineered Substrates to Dynamic Microclimate Control
Simona Perotto, Politecnico di Milano, Italy
Grand Ballroom A

Wednesday, July 8

Wednesday, July 8

Thursday, July 9

12:15 p.m. – 1:00 p.m.

SIAM Publications Update – AI, SIALS, and Accessibility

Join Tamara G. Kolda, SIAM Vice President for Publications, Kivmars Bowling, SIAM Publications Director, and Jonathan Rubin, SIAM Journal on Life Sciences (SIALS) Editor-in-Chief, for an update on new developments across journals, books, and proceedings. Topics will include AI and research integrity; the recently launched SIALS; and the new Joint Math Society Author Guidelines on Accessibility. This session is relevant for anyone who engages with SIAM Publications, whether as a reader, author, editor and/or instructor. Attendees will have the chance to ask questions as well as share feedback and ideas regarding the SIAM Publications program.
Hall C, The SIAM-plify Stage

12:15 p.m. – 1:45 p.m.

Lunch Break

MGB-SIAM EC Fellows Luncheon
(by invitation only)
Room 1

1:45 p.m. – 2:30 p.m.

SP5 Julian Cole Lectureship: A Nonlinear Plancherel Theorem, Dispersive Equations and the Inverse Problem of Calderón
Adrian Nachman, University of Toronto, Canada
Grand Ballroom A

2:45 p.m. – 3:30 p.m.

SP6 AMS Invited Address: Computer-Assisted Proofs of 3D Euler Singularity and Nonuniqueness of Leray–Hopf Solutions for the Unforced 3D Navier–Stokes Equations
Thomas Hou, California Institute of Technology, U.S.
Grand Ballroom A

3:30 p.m. – 4:00 p.m.

Coffee Break
Hall C

4:00 p.m. – 6:00 p.m.**Concurrent Sessions**

MS84 Cross-Disciplinary Modeling and Machine Learning
Room 3

MS85 Algebraic Methods for Phylogenetic Inference - Part II of II
Room 4

MS86 Applications of Partial Differential Equations in Fluid Mechanics and Free Boundary Problems - Part II of II
Room 6

MS87 Modern Scientific Computational Methods for Learning Dynamical Systems - Part III of III
Room 7

MS88 AI Assistance in Special Functions and Number Theory: A New Paradigm - Part II of II
Room 9

MS89 Orthogonal Polynomials and Special Functions in Mathematical Physics - Part III of III
Atrium Ballroom A

MS90 Reduced Order Modeling for Parametric Flow Problems - Part II of II
Atrium Ballroom D

MS92 Numerical Methods for Electromagnetic Transient Simulation (EMT) of Large-scale Power Grids: Challenges and Opportunities
Room 202

MS93 Topological Dynamics in Natural Systems - Part II of II
Room 203

MS94 Variational Structures in Stochastic Systems: Large Deviations and Mean-Field Limits
Room 205A

MS95 Math Circles as Engines for Undergraduate Community, Belonging, and Persistence in STEM - Part II of II
Room 205B

MS96 Sparsity-Driven Methods for Scientific Computing and Inverse Problems - Part II of II
Room 304

MS97 Project INSIGHT: Integrating Human Behavior and Social Responses into Disease Modeling
Room 307B

MS98 Recent Advances in Latent Representation Learning - Part II of II
Room 15

CP11 Financial Mathematics
Room 8

CP12 Computational Fluids
Atrium Ballroom C

CP13 Math for Health
Room 307A

6:15 p.m. – 7:15 p.m.

SP7 I.E. Block Community Lecture: Modeling for Life with a Little Help from Our Friends
Magnus Fontes, Institut Roche, France
Grand Ballroom A

7:15 p.m. – 8:15 p.m.

Community Reception
Grand Ballroom B

8:15 p.m. – 9:30 p.m.

Spectra Reception (Association for LGBTQ+ Mathematicians)
Room 14

7:30 a.m. – 4:30 p.m.

Registration Open
Hall C Foyer

8:00 a.m. – 10:00 a.m.**Concurrent Sessions**

MS32 Imaging and Inverse Problems: Theory, Computation, and Data-Driven Methods - Part II of II
Room 8

MS76 Dynamical Systems and Reduced-Order Modeling for Complex Multiscale Applications - Part I of III
Room 307B

MS99 Tensors for All: Algebraic, Geometric, and Computational Perspectives of Multilinear Algebra - Part I of II
Room 3

MS100 Algebro-geometric Methods in Deep Learning - Part I of III
Room 4

MS101 Algebraic Geometry and Computer Vision - Part I of II
Room 5

MS102 Advances in Numerical Methods for PDEs - Part I of II
Room 6

MS103 Data-driven Methods for Scientific Computing and Discovery - Part I of II
Room 7

MS104 The Hypergeometric Motive: Hypergeometric Functions in Geometry and Number Theory - Part I of II
Atrium Ballroom A

MS105 CANCELLED: Applied and Computational Complex Analysis
MS106 Experimental Sciences and Mathematical Modeling
Atrium Ballroom D

MS108 Recent Advances in High-Order and Adaptive Finite Element Methods - Part I of II
Room 202

MS109 Biological Cells as Dynamical Systems: Swimming, Migration, and Pattern Formation
Room 203

MS110 Optimization Theory and Computation for Decision-Driven Problems
Room 302

MS111 Data-adaptive Kernels in Forward and Inverse Problems - Part I of II
Room 304

MS112 Recent Progress in Analysis and Methods for Nonsmooth System Dynamics, Control and Optimization
Room 307A

MS113 Applications of Tensor Ranks and Their Decompositions - Part I of II
Room 15

Thursday, July 9

CP14 Applied Modeling*Room 205A***CP15 Education***Room 205B***9:30 a.m. – 5:00 p.m.**

Exhibit Hall Open

*Hall C***10:00 a.m. – 10:30 a.m.**

Coffee Break

*Hall C***10:30 a.m. – 11:15 a.m.****IP5** From Polynomials to Nonlinear Special Functions

Nalini Joshi, University of Sydney, Australia

*Grand Ballroom A***11:30 a.m. – 12:15 p.m.****JP3** Joint Plenary with SIAM Conference on Applied Mathematics Education: Ooh, Ooh, Ooh What a Little Course Can Do: Personal and Institutional Transformation Through I-credit ADAPT CoursesRachel Levy, North Carolina State University, U.S.
*Grand Ballroom A***12:15 p.m. – 1:45 p.m.**

Lunch Break

Workshop Celebrating Diversity (WCD) Luncheon (by invitation only)

*Room 1***1:45 p.m. – 2:30 p.m.****IP6** Cutting Through the Noise: Denoising and Data Completion Using Low-Rank Tensor Optimization
Sue Minkoff, Brookhaven National Laboratory, U.S.
*Grand Ballroom A***2:45 p.m. – 3:30 p.m.****IP7** Discontinuous Solutions for Partial Differential Equations in Fluid Mechanics

Alexis F. Vasseur, University of Texas at Austin, U.S.

*Grand Ballroom A***3:30 p.m. – 4:00 p.m.**

Coffee Break

Hall C

Thursday, July 9

3:30 p.m. – 5:00 p.m.

Résumé-Building Workshop

Organized by the SIAM Career Opportunities Committee, the resume-building workshop will provide one-on-one mentoring tailored to positions in academia, industry, government, and non-profits. Bring your resume, CV, and/or cover letter and receive valuable feedback from our experienced mentors.

*Hall C***4:00 p.m. – 6:00 p.m.****Concurrent Sessions****MS91** Dynamical Systems and Reduced-Order Modeling for Complex Multiscale Applications - Part II of III*Room 307B***MS114** Tensors for All: Algebraic, Geometric, and Computational Perspectives of Multilinear Algebra - Part II of II*Room 3***MS115** Algebraic-geometric Methods in Deep Learning - Part II of III*Room 4***MS116** Algebraic Geometry and Computer Vision - Part II of II*Room 5***MS117** Advances in Numerical Methods for PDEs - Part II of II*Room 6***MS118** Data-driven Methods for Scientific Computing and Discovery - Part II of II*Room 7***MS119** Hypergeometric Series and Modular Forms - Part I of II*Room 9***MS120** The Hypergeometric Motive: Hypergeometric Functions in Geometry and Number Theory - Part II of II*Atrium Ballroom A***MS121** CANCELLED: Applied and Computational Complex Analysis**MS122** Numerical Methods and Modeling for Multiphysics Problems - Part I of III*Atrium Ballroom D***MS123** Recent Advances in High-Order and Adaptive Finite Element Methods - Part II of II*Atrium Ballroom F***MS124** Advances in Modeling and Inference for Dynamics on Networks - Part I of III*Room 205A***MS125** Artificial Intelligence Case Uses in Mathematics Education and Research*Room 205B***MS126** Data-adaptive Kernels in Forward and Inverse Problems - Part II of II*Room 304***MS127** Applications of Tensor Ranks and Their Decompositions - Part II of II*Room 15*

Thursday, July 9

CP16 Mathematical Biology*Room 307A***CP17 Stochastic Systems***Room 203***4:00 p.m. – 11:00 p.m.**

SIAM Council Meeting

*Room 308***6:00 p.m. – 8:00 p.m.****ED26** Welcome Reception*Room 14***8:00 p.m. – 10:00 p.m.****MS46** An Applied Mathematicians' Storytelling Event*Room 13*

Friday, July 10

7:30 a.m. – 3:00 p.m.

Registration Open

*Hall C Foyer***8:00 a.m. – 10:00 a.m.****Concurrent Sessions****MT1** Introduction to Bayesian Inverse Problems Governed by Partial Differential Equations (PDEs): A Hands-on Tutorial using hIPPYlib*Room 1***MS107** Dynamical Systems and Reduced-Order Modeling for Complex Multiscale Applications - Part III of III*Room 307B***MS128** CANCELLED: Algebraic-geometric Methods in Deep Learning - Part III of III**MS129** Algebraic Biology Part I of II*Room 5***MS130** Recent Trends in Nonlinear Partial Differential Equations: Theory, Computation, Applications - Part I of II*Room 6***MS131** Stochastic and Data-Driven Computation in Science and Engineering - Part I of II*Room 7***MS132** Hypergeometric Series and Modular Forms - Part II of II*Room 9***MS133** From Orthogonal Polynomials to Nonlinear Special Functions with Applications - Part III of III*Atrium Ballroom A***MS134** Modeling, Computation and Analysis of the Dynamics of Interfaces and Particles in Fluid Flow*Atrium Ballroom C***MS135** Numerical Methods and Modeling for Multiphysics Problems - Part II of III*Atrium Ballroom D*

Friday, July 10

Friday, July 10

Saturday, July 11

MS136 Advances in Modeling and Inference for Dynamics on Networks - Part II of III
Room 205A

MS137 Scalable and Hardware-Aware Algorithms for Large-Scale Inverse Problems - Part I of II
Room 304

CP18 Data Science
Room 15

CP19 Earth Systems Modeling
Room 307A

CP20 Topical Dynamics
Room 203

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8:30 a.m. – 10:00 a.m.
SIAM Human Resources Committee Meeting
Room 308

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10:00 a.m. – 10:30 a.m.
Coffee Break
Grand Ballroom Foyer

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10:30 a.m. – 11:15 a.m.
IP8 Scalable Methods for Large-Scale Bayesian Inverse Problems Under Model Uncertainty
Noemi Petra, University of California, Merced, U.S.
Grand Ballroom A

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10:30 a.m. – 2:30 p.m.
SIAM Financial Management Committee Meeting
Room 308

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11:30 a.m. – 12:15 p.m.
IP9 Is It Noise, Or Is It Superconvergence?
Jennifer K. Ryan, KTH Royal Institute of Technology, Sweden
Grand Ballroom A

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12:15 p.m. – 1:45 p.m.
Lunch Break

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12:20 p.m. – 12:50 p.m.
SIAG/ED Business Meeting
Soft drinks and snacks will be provided
Room 13

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1:45 p.m. – 2:30 p.m.
IP10 Nonlinear Algebra Meets Tensors in Quantum Information
Luke Oeding, Auburn University, U.S.
Grand Ballroom A

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2:30 p.m. – 3:00 p.m.
Coffee Break
Grand Ballroom Foyer

.....

3:00 p.m. – 5:00 p.m.
Concurrent Sessions

MS138 Topology, Geometry and Physics in High-Dimensional Representation Learning
Room 4

MS139 Algebraic Biology - Part II of II
Room 5

MS140 Recent Trends in Nonlinear Partial Differential Equations: Theory, Computation, Applications - Part II of II
Room 6

MS141 Stochastic and Data-Driven Computation in Science and Engineering - Part II of II
Room 7

MS142 Computation of Special Functions
Room 9

MS143 Special Functions with Applications in Number Theory and Combinatorics
Atrium Ballroom A

MS144 Numerical Methods and Modeling for Multiphysics Problems - Part III of III
Atrium Ballroom D

MS145 Advances in Modeling and Inference for Dynamics on Networks - Part III of III
Room 205A

MS146 Scalable and Hardware-Aware Algorithms for Large-Scale Inverse Problems - Part II of II
Room 304

CP21 Materials Science
Atrium Ballroom C

CP22 Uncertainty Quantification
Room 307A

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3:00 p.m. – 6:00 p.m.
Executive Session of the Board
Room 308

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9:00 a.m. – 4:00 p.m.
SIAM Board Meeting
Center Street Room C, Hilton

Abbreviation Key

CP = Contributed Presentation Session

IP = Invited Plenary Speaker

JP = Joint Plenary Speaker

MP = Miniposterium

MT = Minitutorial

PD = Panel Discussion

PP = Poster Session

SP = Special Lecture

Sunday, July 5

8:30 a.m. – 4:30 p.m.

Short Course: From Data to Equations: Weak Form Methods for Discovering Models from Noisy Data (separate registration fee applies)

Room 3

3:30 p.m. – 7:30 p.m.

Registration
Hall C Foyer

4:00 p.m. – 5:00 p.m.

Student Orientation
Grand Ballroom B

5:00 p.m. – 6:00 p.m.

Near to Peer Mentoring Session
Grand Ballroom B

6:00 p.m. – 8:00 p.m.

Welcome Reception
*held jointly with AN26 and MPE26**
Rooftop Terrace

Monday, July 6

7:00 a.m. – 5:00 p.m.

Registration
Hall C Foyer

8:00 a.m. – 10:00 a.m.**Concurrent Sessions**

MT1 Interpretable Machine Learning and Deep Learning for Biological Modeling
Grand Ballroom C

MS2 Modeling, Learning, and Control of Collective Biological Systems - Part I of II
Room 19

MS3 Homeostasis and Breathing - Part I of III
Room 20

MS4 Equation Learning Methods in the Biological Sciences - Part I of III
Room 21

MS5 Topological Data Analysis of Complex Systems - Part I of II
Room 22

MS6 Case Studies in Data-Driven and Data-Informed Modeling of Biological Systems - Part I of II
Room 23

MS7 Stochastic Transport and Resource Accumulation in Biology - Part I of III
Room 24

MS9 AI for Life Sciences - Part I of III
Room 25B

MS10 Connecting Biology to Medicine and Pharmacy through Real-World Mathematical Modeling - Part I of II
Room 25C

Monday, July 6

MS11 Recent Advances in Digital Twins and Trial Simulations to Guide Clinical Decisions
Room 26A

MS12 Mathematical Approaches to Advancing Women's Health - Part I of II
Room 26B

MS13 Mathematical Modeling and Immunological Perspectives on Infectious Diseases - Part I of III
Room 26C

MS42 From Atoms to Heartbeats: Scientific Machine Learning For Biodynamical Systems
Room 16

MS63 Recent Advances in Contagion Modeling and Simulation at Scale - Part I of III
Room 25A

9:30 a.m. – 4:30 p.m.

Exhibit Hall Open
Hall C

10:00 a.m. – 10:30 a.m.

Coffee Break
Hall C

10:30 a.m. – 10:45 a.m.

Opening Remarks
Grand Ballroom C

10:45 a.m. – 11:30 a.m.

IP1 Counterintuitive Optimization for Airplanes and Medicines: How to Improve Patient Outcomes Using Mathematics
Helen Moore, University of Florida, U.S.
Grand Ballroom C

11:30 a.m. – 11:45 a.m.

Intermission

11:45 a.m. – 12:30 p.m.

IP2 Nonreciprocity in Cell Locomotion
Kenta Ishimoto, Kyoto University, Japan
Grand Ballroom C

12:30 p.m. – 1:45 p.m.

Lunch Break

1:45 p.m. – 2:30 p.m.

SIAM Annual Meeting (AN26): Industry Prize Presentation
Grand Ballroom A

2:30 p.m. – 2:45 p.m.

Intermission

2:45 p.m. – 3:30 p.m.

SIAM Annual Meeting (AN26): W. T. and Idalia Reid Prize Presentation
Grand Ballroom A

Monday, July 6

3:30 p.m. – 4:00 p.m.

Coffee Break
Hall C

4:00 p.m. – 6:00 p.m.**Concurrent Sessions**

MS1 Mechanistic Physiological Modeling: A Celebration of Aaron Fogelson's 70th Birthday - Part I of III
Room 16

MS16 Modeling, Learning, and Control of Collective Biological Systems - Part II of II
Room 19

MS17 Homeostasis and Breathing - Part II of III
Room 20

MS18 Equation Learning Methods in the Biological Sciences - Part II of III
Room 21

MS19 Topological Data Analysis of Complex Systems - Part II of II
Room 22

MS20 Case Studies in Data-Driven and Data-Informed Modeling of Biological Systems - Part II of II
Room 23

MS21 Stochastic Transport and Resource Accumulation in Biology - Part II of III
Room 24

MS23 AI for Life Sciences - Part II of III
Room 25B

MS24 Connecting Biology to Medicine and Pharmacy through Real-World Mathematical Modeling - Part II of II
Room 25C

MS25 Computational Methods and Applications for Medical Digital Twins
Room 26A

MS26 Mathematical Approaches to Advancing Women's Health - Part II of II
Room 26B

MS27 Mathematical Modeling and Immunological Perspectives on Infectious Diseases - Part II of III
Room 26C

MS55 Using Sensitivity Analysis to Improve Models in the Life Sciences
Grand Ballroom C

MS76 Recent Advances in Contagion Modeling and Simulation at Scale - Part II of III
Room 25A

6:15 p.m. – 6:45 p.m.

SIAM Annual Meeting (AN26): Industry Lightning Talks
Grand Ballroom A

6:45 p.m. – 7:45 p.m.

SIAM Annual Meeting (AN26): Industry Career Panel
Grand Ballroom A

Monday, July 6

7:00 p.m. – 9:00 p.m.

SIALS Editorial Board Meeting
Room 308

7:45 p.m. – 9:15 p.m.

SIAM Annual Meeting (AN26): Graduate Student
and Industry Reception
Grand Ballroom B

Tuesday, July 7

7:00 a.m. – 5:00 p.m.

Registration
Hall C Foyer

8:00 a.m. – 10:00 a.m.

Concurrent Sessions

MT2 Practical tools for Model Calibration with
SimBiology - Part I of II
Grand Ballroom C**MS15** Mechanistic Physiological Modeling: A
Celebration of Aaron Fogelson's 70th Birthday -
Part II of III
Room 16**MS30** From Oscillators to Sleep Cycles: Modeling
Biological Time in Physiology - Part I of II
Room 19**MS31** Homeostasis and Breathing - Part III of III
Room 20**MS32** Equation Learning Methods in the Biological
Sciences - Part III of III
Room 21**MS33** Data-Driven Discovery and Inference in
Biological Systems - Part I of II
Room 22**MS34** Development of New Crop Varieties Using
Computational, Statistical, and AI/ ML Models
Room 23**MS35** Stochastic Transport and Resource
Accumulation in Biology - Part III of III
Room 24**MS37** AI for Life Sciences - Part III of III
Room 25B**MS39** Data-driven Stochastic Modeling in
Mathematical Oncology - Part I of III
Room 26A**MS40** From Cells to Patients: Advances in
Understanding Cardiac Arrhythmias Through
Mechanistic Modeling and Machine Learning - Part
I of III
Room 26B**MS41** Mathematical Modeling and Immunological
Perspectives on Infectious Diseases - Part III of III
Room 26C**MS78** Quantitative Systems Pharmacology
Modeling in Inflammation and Immunology - Part I
of II
Room 25C

Tuesday, July 7

MS87 Recent Advances in Contagion Modeling and
Simulation at Scale - Part III of III
Room 25A

9:30 a.m. – 4:30 p.m.

Exhibit Hall Open
Hall C

10:00 a.m. – 10:30 a.m.

Coffee Break
Hall C

10:30 a.m. – 11:15 a.m.

JP1 Joint Plenary Speaker with 2026 SIAM Annual
Meeting: When More Isn't Better: A Lesson from
Rethinking Scale in Single-cell Foundation Models
Lorin Crawford, Microsoft Research, U.S.
Grand Ballroom A

11:15 a.m. – 11:30 a.m.

Intermission

11:30 a.m. – 12:15 p.m.

IP3 Parkinsonian Oscillations Episode 2: Motor
Rescue
Jonathan E. Rubin, University of Pittsburgh, U.S.
Grand Ballroom C

12:15 p.m. – 1:45 p.m.

Lunch Break

Honors and Awards Luncheon
ticketed event; separate fee applies
Grand Ballroom B

2:00 p.m. – 2:45 p.m.

SIAM Annual Meeting (AN26): AWM-SIAM Sonia
Kovalevsky Lecture
Grand Ballroom A

2:45 p.m. – 3:00 p.m.

Intermission

3:00 p.m. – 3:45 p.m.

SIAM Annual Meeting (AN26): John Von Neumann
Prize Lecture
Grand Ballroom A

3:45 p.m. – 4:00 p.m.

Coffee Break
Hall C

4:00 p.m. – 6:00 p.m.

Concurrent Sessions

MT3 Practical Tools for Model Calibration with
SimBiology - Part II of II
Grand Ballroom C

Tuesday, July 7

MS29 Mechanistic Physiological Modeling: A
Celebration of Aaron Fogelson's 70th Birthday -
Part III of III
Room 16**MS43** From Oscillators to Sleep Cycles: Modeling
Biological Time in Physiology - Part II of II
Room 19**MS44** Mathematical Principles of Decentralized
Collective Decisions - Part I of II
Room 20**MS45** Emerging Mathematical Methods in Life
Sciences: From Model-free Optimization and
Control to Nonsmooth Sensitivity Techniques
Room 21**MS46** Data-Driven Discovery and Inference in
Biological Systems - Part II of II
Room 22**MS47** Autocatalytic Reaction Networks in Life
Sciences - Part I of II
Room 23**MS48** Integrative Data-Driven Modeling in Cell
Biology - Part I of II
Room 24**MS49** PINning Down Life's Equations: Data-
Driven Model Discovery in Biology
Room 25A**MS50** Modeling and Data Analysis Considerations
for Clinical Scenarios
Room 25B**MS52** Data-driven Stochastic Modeling in
Mathematical Oncology- Part II of III
Room 26A**MS53** From Cells to Patients: Advances in
Understanding Cardiac Arrhythmias Through
Mechanistic Modeling and Machine Learning - Part
II of III
Room 26B**MS54** Mathematical Modeling of Oncolytic Viruses
Room 26C**MS89** Quantitative Systems Pharmacology
Modeling in Inflammation and Immunology - Part II
of II
Room 25C**PD1** Connecting Mathematical Research to
Emerging Biotechnology Initiatives
Room 3

6:15 p.m. – 7:00 p.m.

SIAM Annual Meeting (AN26): SIAM Business
Meeting
**Complimentary beer and wine will be served.
All are welcome to attend.**
Grand Ballroom A

7:30 p.m. – 8:00 p.m.

SIAG/LS Business Meeting
Complimentary beer and wine will be served
Grand Ballroom C

Tuesday, July 7

8:00 p.m. – 10:00 p.m.

PP1 Poster Session and Dessert Reception **held jointly with AN26 and MPE26*

MP1 Expanding Modeling Experiences for Life Science Students and Mathematics Teachers

MP2 Hemostasis, Coagulation, and the Mathematical Modeling of Blood

MP3 Moving with the Flow: Modeling Locomotion at Intermediate Reynolds Numbers

Hall C

Wednesday, July 8

7:30 a.m. – 4:30 p.m.

Registration

Hall C Foyer

8:00 a.m. – 10:00 a.m.

Concurrent Sessions

MT4 Structure-based Modeling of Biochemical Reaction Networks using BioNetGen
Grand Ballroom C

MS8 CANCELLED: Physiologic Timeseries Analysis and Modeling in Critical Care

MS51 Leveraging Mathematical and Computational Modeling for Drug Development for Decision-Making - Part I of II

Room 25C

MS56 Biofluids Across Scales: Locomotion, Soft Actuation, and Hemodynamics - Part I of III

Room 16

MS57 Cross-Tissue Perspectives on Ephaptic Coupling: Heart and Nervous System

Room 19

MS58 Mathematical Principles of Decentralized Collective Decisions - Part II of II

Room 20

MS59 Probabilistic Methods for Optimization under Uncertainty in Biology - Part I of III

Room 21

MS60 Recent Advances in Mathematical Methods for Understanding Biological Systems

Room 22

MS61 Autocatalytic Reaction Networks in Life Sciences - Part II of II

Room 23

MS62 Integrative Data-driven Modeling in Cell Biology - Part II of II

Room 24

MS64 Novel Mathematical Models for Novel Cancer Immunotherapies

Room 25B

MS66 Data-driven Stochastic Modeling in Mathematical Oncology- Part III of III

Room 26A

Wednesday, July 8

MS67 From Cells to Patients: Advances in Understanding Cardiac Arrhythmias Through Mechanistic Modeling and Machine Learning - Part III of III

Room 26B

MS68 Actionable Modeling: Integrating Mechanisms and Data for Real-World Applications - Part I of III

Room 26C

MS70 Exploring Effects of Stochasticity, Delay, and Network Architecture on Dynamics of Biomolecular Feedback Systems - Part I of II

Room 25A

9:30 a.m. – 4:30 p.m.

Exhibit Hall Open

Hall C

10:00 a.m. – 10:30 a.m.

SIAM Journal on Life Sciences (SIALS) – Meet the Editors

Hall C, The SIAM-plify Stage

Coffee Break

Hall C

10:30 a.m. – 11:15 a.m.

IP4 From Small-noisy to Big-biased Data: Modeling, Learning and Inference Across Scales Under Uncertainty During Pandemic Crisis

Ruian Ke, Los Alamos National Laboratory, U.S.

Grand Ballroom C

11:15 a.m. – 11:30 a.m.

Intermission

11:30 a.m. – 12:15 p.m.

IP5 Mathematics of Self-Organisation Across Scales

Dagmar Iber, ETH Zurich, Switzerland

Grand Ballroom C

12:15 p.m. – 1:00 p.m.

SIAM Publications Update – AI, SIALS, and Accessibility

Join Tamara G. Kolda, SIAM Vice President for Publications, Kivmars Bowling, SIAM Publications Director, and Jonathan Rubin, SIAM Journal on Life Sciences (SIALS) Editor-in-Chief, for an update on new developments across journals, books, and proceedings. Topics will include AI and research integrity; the recently launched SIALS; and the new Joint Math Society Author Guidelines on Accessibility. This session is relevant for anyone who engages with SIAM Publications, whether as a reader, author, editor and/or instructor. Attendees will have the chance to ask questions as well as share feedback and ideas regarding the SIAM Publications program.

Hall C, The SIAM-plify Stage

Wednesday, July 8

12:15 p.m. – 1:45 p.m.

Lunch Break

1:45 p.m. – 2:30 p.m.

SIAM Annual Meeting (AN26): Julian Cole

Lectureship

Grand Ballroom A

2:30 p.m. – 2:45 p.m.

Intermission

2:45 p.m. – 3:30 p.m.

SIAM Annual Meeting (AN26): AMS Invited Address

Grand Ballroom A

3:30 p.m. – 4:00 p.m.

Coffee Break

Hall C

4:00 p.m. – 6:00 p.m.

Concurrent Sessions

CP1 Mathematical Oncology

Grand Ballroom C

CP2 Systems Biology

Room 16

CP3 Mathematical Neuroscience

Room 19

CP4 Mathematical Epidemiology

Room 20

CP5 Modeling and Dynamical Systems Analysis in Life Sciences

Room 21

CP6 Mathematical Ecology I

Room 22

CP7 Mathematical Ecology II

Room 23

CP8 AI/ML Approaches in Life Sciences

Room 24

CP9 Reaction Diffusion and Transport in Life Sciences

Room 25A

CP10 Biofluid Dynamics and Mechanics

Room 25B

CP11 Mathematical Physiology I

Room 25C

CP12 Mathematical Cell Biology

Room 26A

CP13 Mathematical Physiology II

Room 26B

CP14 Modeling and Analysis Across Scales

Room 26C

6:15 p.m. – 7:15 p.m.

SIAM Annual Meeting (AN26): I.E. Block

Community Lecture

Grand Ballroom A

Wednesday, July 8

7:15 p.m. – 8:15 p.m.

SIAM Annual Meeting (AN26): Community Reception
Grand Ballroom B

8:15 p.m. – 9:30 p.m.

Spectra Reception (Association for LGBTQ+ Mathematicians)
Room 14

Thursday, July 9

7:30 a.m. – 4:30 p.m.

Registration
Hall C Foyer

8:00 a.m. – 10:00 a.m.**Concurrent Sessions**

MS14 Early-Career Research in Ecological and Epidemiological Modeling - Part I of II
Grand Ballroom C

MS22 Computational Modeling of Auditory Neurons, Circuits, and Signals
Room 25A

MS65 Leveraging Mathematical and Computational Modeling for Drug Development for Decision-Making - Part II of II
Room 25C

MS69 Biofluids Across Scales: Locomotion, Soft Actuation, and Hemodynamics - Part II of III
Room 16

MS71 Probability and Information Theory in Biological Dynamical Systems
Room 20

MS72 Probabilistic Methods for Optimization under Uncertainty in Biology - Part II of III
Room 21

MS73 Uncertainty Quantification in Mathematical Biology - Part I of II
Room 22

MS74 Computational and Mathematical Approaches to Cytoskeletal Dynamics - Part I of II
Room 23

MS75 Machine Learning for Complex Health Data Integration and Analysis - Part I of II
Room 24

MS77 Mathematical Modeling of Biomarkers from Detection-to-Treatment - Part I of II
Room 25B

MS79 Advances in Mechanistic Models of Immune Responses and Inflammation - Part I of II
Room 26A

MS80 Actionable Modeling: Integrating Mechanisms and Data for Real-World Applications - Part II of III
Room 26C

Thursday, July 9

9:30 a.m. – 4:30 p.m.

Exhibit Hall Open
Hall C

10:00 a.m. – 10:30 a.m.

Coffee Break
Hall C

10:30 a.m. – 10:40 a.m.

Closing Remarks
Grand Ballroom C

10:40 a.m. – 11:25 a.m.

IP6 Topology for Multiscale Biology
Heather Harrington, Max Planck Institute of Molecular Cell Biology and Genetics, Germany
Grand Ballroom C

11:30 a.m. – 12:15 p.m.

SIAM Annual Meeting (AN26) and Applied Mathematics Education (ED26) Joint Plenary
Speaker, Rachel Levy
Grand Ballroom A

12:15 p.m. – 1:45 p.m.

Lunch Break

1:45 p.m. – 2:30 p.m.

SP1 SIAG/Life Sciences Early Career Prize
Lecture: Understanding Self-organization in the Cell Cytoskeleton with Simulation-based Inference
Ondrej Maxian, Notre Dame University, U.S.
Grand Ballroom C

2:30 p.m. – 2:45 p.m.

Intermission

2:45 p.m. – 3:30 p.m.

SIAM Annual Meeting (AN26): Invited Plenary
Speaker, Alexis F. Vasseur
Grand Ballroom A

3:30 p.m. – 4:00 p.m.

Coffee Break
Hall C

4:00 p.m. – 6:00 p.m.**Concurrent Sessions**

MS28 Early-Career Research in Ecological and Epidemiological Modeling - Part II of II
Grand Ballroom C

MS36 Computational Modeling Approaches in Ocular Disease
Room 25A

MS38 Applied Mathematical Methods for Translational Mechanistic Modeling in Drug Development
Room 25C

MS81 Biofluids Across Scales: Locomotion, Soft Actuation, and Hemodynamics - Part III of III
Room 16

MS82 Exploring Effects of Stochasticity, Delay, and Network Architecture on Dynamics of Biomolecular Feedback Systems - Part II of II
Room 19

MS83 Probabilistic Methods for Optimization under Uncertainty in Biology - Part III of III
Room 21

MS84 Uncertainty Quantification in Mathematical Biology - Part II of II
Room 22

MS85 Computational and Mathematical Approaches to Cytoskeletal Dynamics - Part II of II
Room 23

MS86 Machine Learning for Complex Health Data Integration and Analysis - Part II of II
Room 24

MS88 Mathematical Modeling of Biomarkers from Detection-to-Treatment - Part II of II
Room 25B

MS90 Advances in Mechanistic Models of Immune Responses and Inflammation - Part II of II
Room 26A

MS91 Actionable Modeling: Integrating Mechanisms and Data for Real-World Applications - Part III of III
Room 26C

Abbreviation Key

CP = Contributed Presentation Session

IP = Invited Plenary Speaker

JP = Joint Plenary Speaker

MS = Minisymposium

MP = Miniposterium

MT = Minitutorial

PD = Panel Discussion

PP = Poster Session

SP = Special Lecture

Sunday, July 5

8:30 a.m. – 4:30 p.m.

Short Course: From Data to Equations: Weak Form Methods for Discovering Models from Noisy Data (separate registration fee applies)

Room 3

3:30 p.m. – 7:30 p.m.

Registration
Hall C Foyer

4:00 p.m. – 5:00 p.m.

Student Orientation
Grand Ballroom B

5:00 p.m. – 6:00 p.m.

Near to Peer Mentoring Session
Grand Ballroom B

6:00 p.m. – 8:00 p.m.

Welcome Reception
*held jointly with AN26 and LS26**
Rooftop Terrace

Monday, July 6

7:00 a.m. – 5:00 p.m.

Registration
Hall C Foyer

8:00 a.m. – 10:00 a.m.**Concurrent Sessions**

MS1 Data-driven Methods for Extreme Events and Climate Inference - Part I of II

Room 10

MS2 Dynamical Systems Approaches to Planet Earth and Planetary Processes - Part I of II

Room 11

MS3 Recent Developments in Computation and Multiscale Modeling for the Sea Ice Pack - Part I of II
Room 12

MS4 Graph Neural Networks and Digital Twins for Geological Storage of CO₂ - Part I of II
Room 13

MS5 Curriculum Materials for Embedding Climate into the College Math Classroom - Part I of II
Room 14

9:30 a.m. – 4:30 p.m.

Exhibit Hall Open
Hall C

10:00 a.m. – 10:30 a.m.

Coffee Break
Hall C

10:30 a.m. – 10:45 a.m.

Opening Remarks
Room 10

Monday, July 6

10:45 a.m. – 11:30 a.m.

IP1 Assessing and Anticipating Arctic Risks: Advanced Modeling of Permafrost Erosion and Infrastructure Stability
Irina K. Tezaur, Sandia National Laboratories, U.S.
Room 10

11:30 a.m. – 11:45 a.m.

Intermission

11:45 a.m. – 12:30 p.m.

SP1 SIAG/Mathematics of Planet Earth Early Career Prize Lecture - Theory and Scaling in AI for Multi-scale Dynamics
Ashesh Chattopadhyay, University of California, Santa Cruz, U.S.
Room 10

12:30 p.m. – 1:45 p.m.

Lunch Break

1:45 p.m. – 2:30 p.m.

SIAM Annual Meeting (AN26): Industry Prize Presentation
Grand Ballroom A

2:30 p.m. – 2:45 p.m.

Intermission

2:45 p.m. – 3:30 p.m.

SIAM Annual Meeting (AN26): W. T. and Idalia Reid Prize Presentation
Grand Ballroom A

3:30 p.m. – 4:00 p.m.

Coffee Break
Hall C

4:00 p.m. – 6:00 p.m.**Concurrent Sessions**

MS6 Data-driven Methods for Extreme Events and Climate Inference - Part II of II
Room 10

MS7 Dynamical Systems Approaches to Planet Earth and Planetary Processes - Part II of II
Room 11

MS8 Recent Developments in Computation and Multiscale Modeling for the Sea Ice Pack - Part II of II
Room 12

MS9 Graph Neural Networks and Digital Twins for Geological Storage of CO₂ - Part II of II
Room 13

MS10 Curriculum Materials for Embedding Climate into the College Math Classroom - Part II of II
Room 14

6:15 p.m. – 6:45 p.m.

SIAM Annual Meeting (AN26): Industry Lightning Talks
Grand Ballroom A

Monday, July 6

6:45 p.m. – 7:45 p.m.

SIAM Annual Meeting (AN26): Industry Career Panel
Grand Ballroom A

7:45 p.m. – 9:15 p.m.

SIAM Annual Meeting (AN26): Graduate Student and Industry Reception
Grand Ballroom B

Tuesday, July 7

7:00 a.m. – 5:00 p.m.

Registration
Hall C Foyer

8:00 a.m. – 10:00 a.m.**Concurrent Sessions**

MS11 AI-Driven Methods for Large-Scale Codes and Long-Term Earth System Predictability - Part I of II
Room 10

MS12 Recent Developments in Coupling Mechanisms in Geophysical Models
Room 11

MS13 Mathematical and Computational Methods for Polar Systems - Part I of II
Room 12

MS14 Machine Learning and Artificial Intelligence for Natural Hazard Modeling
Room 13

MS15 Spatial, Group, and Network Models of Social and Ecological Systems
Room 14

9:30 a.m. – 4:30 p.m.

Exhibit Hall Open
Hall C

10:00 a.m. – 10:30 a.m.

Coffee Break
Hall C

10:30 a.m. – 11:15 a.m.

IP2 Beyond the Bonanza: AI as a Science Discovery Engine
Maike Sonnewald, University of California, Davis
Room 10

11:15 a.m. – 11:30 a.m.

Intermission

11:30 a.m. – 12:15 p.m.

SP2 SIAG/Mathematics of Planet Earth Prize Lecture - New Mathematics and Statistical Physics for Climate Extremes: Theory, Algorithms, and Applications
Freddy Bouchet, École Normale Supérieure Paris, France
Room 10

Tuesday, July 7

12:15 p.m. – 1:45 p.m.

Lunch Break

Honors and Awards Luncheon

ticketed event; separate fee applies

Grand Ballroom B

2:00 p.m. – 2:45 p.m.

SIAM Annual Meeting (AN26): AWM-SIAM

Sonia Kovalevsky Lecture

Grand Ballroom A

2:45 p.m. – 3:00 p.m.

Intermission

3:00 p.m. – 3:45 p.m.

SIAM Annual Meeting (AN26):

John Von Neumann Prize Lecture

Grand Ballroom A

3:45 p.m. – 4:00 p.m.

Coffee Break

Hall C

4:00 p.m. – 6:00 p.m.

Concurrent Sessions**MS16** AI-Driven Methods for Large-Scale Codes and Long-Term Earth System Predictability - Part II of II*Room 10***MS17** The Mathematics of Resilience: Dynamics, Robustness and Tipping*Room 11***MS18** CANCELLED: Mathematical and Computational Methods for Polar Systems - Part II of II**MS19** Mathematical Modeling of Natural Hazards and Impacts on Energy Systems*Room 13***CP1** Contributed Presentations 1*Room 14*

6:15 p.m. – 7:00 p.m.

SIAM Annual Meeting (AN26): SIAM Business Meeting

**Complimentary beer and wine will be served.

All are welcome to attend.**

Grand Ballroom A

7:30 p.m. – 8:00 p.m.

SIAG/MPE Business Meeting

Complimentary beer and wine will be served

Room 10

8:00 p.m. – 10:00 p.m.

PP1 Poster Session and Dessert Reception

**held jointly with AN26 and LS26*

Hall C

Wednesday, July 8

7:30 a.m. – 4:30 p.m.

Registration

Hall C Foyer

8:00 a.m. – 10:00 a.m.

Concurrent Sessions**MS20** Advances in Data Assimilation and Machine Learning*Room 10***MS21** Mathematics in Wildfire: Leveraging Mathematical Expertise in a Changing Field*Room 11***MS22** Challenges, Innovations and Future Directions in Sea Ice forecasting and Data Assimilation*Room 12***CP2** Contributed Presentations 2*Room 13***CP3** Contributed Presentations 3*Room 14*

9:30 a.m. – 4:30 p.m.

Exhibit Hall Open

Hall C

10:00 a.m. – 10:30 a.m.

Coffee Break

Hall C

10:30 a.m. – 11:15 a.m.

JP1 Joint Plenary Speaker with 2026 SIAM Annual Meeting: Grid to Grid: A Vision for Coupling Earth Systems Models to Energy Networks
Katherine J. Evans, Oak Ridge National Laboratory, U.S.*Grand Ballroom A*

11:15 a.m. – 11:30 a.m.

Intermission

11:30 a.m. – 11:40 a.m.

Closing Remarks

Room 10

11:40 a.m. – 12:25 p.m.

IP3 Earthquakes, Tsunamis, and Supercomputers
Alice Gabriel, University of California, San Diego, U.S.*Room 10*

12:15 p.m. – 1:00 p.m.

SIAM Publications Update – AI, SIALS, and Accessibility

Join Tamara G. Kolda, SIAM Vice President for Publications, Kivmars Bowling, SIAM Publications Director, and Jonathan Rubin, SIAM Journal on Life Sciences (SIALS) Editor-in-Chief, for an update on new developments across journals, books, and proceedings. Topics will include AI and research

continues in next column

Wednesday, July 8

integrity; the recently launched SIALS; and the new Joint Math Society Author Guidelines on Accessibility. This session is relevant for anyone who engages with SIAM Publications, whether as a reader, author, editor and/or instructor. Attendees will have the chance to ask questions as well as share feedback and ideas regarding the SIAM Publications program.

Hall C, The SIAM-plyfy Stage

12:25 p.m. – 1:45 p.m.

Lunch Break

1:45 p.m. – 2:30 p.m.

SIAM Annual Meeting (AN26): Julian Cole Lectureship

Grand Ballroom A

2:30 p.m. – 2:45 p.m.

Intermission

2:45 p.m. – 3:30 p.m.

SIAM Annual Meeting (AN26): AMS Invited Address

Grand Ballroom A

3:30 p.m. – 4:00 p.m.

Coffee Break

Hall C

4:00 p.m. – 6:00 p.m.

MS23 Advances in Data Assimilation and Machine Learning - Part II of II*Room 10*

6:15 p.m. – 7:15 p.m.

SIAM Annual Meeting (AN26): I.E. Block Community Lecture

Grand Ballroom A

7:15 p.m. – 8:15 p.m.

SIAM Annual Meeting (AN26): Community Reception

Grand Ballroom B

8:15 p.m. – 9:30 p.m.

Spectra Reception (Association for LGBTQ+ Mathematicians)

*Room 14***Abbreviation Key****CP** = Contributed Presentation Session**IP** = Invited Plenary Speaker**JP** = Joint Plenary Speaker**MS** = Minisymposium**PP** = Poster Session**SP** = Special Lecture

Wednesday, July 8

7:30 a.m. – 4:30 p.m.

Registration
Hall C Foyer

12:15 p.m. – 1:00 p.m.

SIAM Publications Update – AI, SIALS, and Accessibility
Join Tamara G. Kolda, SIAM Vice President for Publications, Kivmars Bowling, SIAM Publications Director, and Jonathan Rubin, SIAM Journal on Life Sciences (SIALS) Editor-in-Chief, for an update on new developments across journals, books, and proceedings. Topics will include AI and research integrity; the recently launched SIALS; and the new Joint Math Society Author Guidelines on Accessibility. This session is relevant for anyone who engages with SIAM Publications, whether as a reader, author, editor and/or instructor. Attendees will have the chance to ask questions as well as share feedback and ideas regarding the SIAM Publications program.
Hall C, The SIAM-plify Stage

Thursday, July 9

7:30 a.m. – 4:30 p.m.

Registration
Hall C Foyer

8:00 a.m. – 10:00 a.m.

Concurrent Sessions

MT1 Enhancing Student Learning Experiences in the Presence of AI - Part I of II
Room 13

MS1 Modeling Makes Mathematics More Meaningful (MS⁵)\$ - Certainly in Differential Equations Education - Part I of II
Room 12

CP1 Contributed Lecture Session 1
Room 11

9:30 a.m. – 5:00 p.m.

Exhibit Hall Open
Hall C

10:00 a.m. – 10:30 a.m.

Coffee Break
Hall C

10:30 a.m. – 10:40 a.m.

Welcome Remarks
Room 13

10:40 a.m. – 11:25 a.m.

IP1 Shaping the Future of Applied Mathematics Education in the Age of AI
Talitha Washington, Howard University, U.S.
Room 13

Thursday, July 9

11:25 a.m. – 11:30 a.m.

Intermission

11:30 a.m. – 12:15 p.m.

JP3 Joint Plenary Speaker with SIAM Annual Meeting AN26: Ooh, Ooh, Ooh What a Little Course Can Do: Personal and Institutional Transformation Through 1-credit ADAPT Courses
Rachel Levy, North Carolina State University, U.S.
Grand Ballroom A

12:15 p.m. – 1:45 p.m.

Lunch Break

1:45 p.m. – 2:30 p.m.

IP2 Embeddings, Manifolds, and LLMs in K-12 AI Education
David Touretzky, Carnegie Mellon University, U.S.
Room 13

2:30 p.m. – 2:45 p.m.

Intermission

2:45 p.m. – 3:30 p.m.

SIAM Annual Meeting (AN26): Invited Plenary Speaker, Alexis F. Vasseur
Grand Ballroom A

3:30 p.m. – 4:00 p.m.

Coffee Break
Hall C

4:00 p.m. – 6:00 p.m.

Concurrent Sessions

MS2 Linear Algebra Education for the Modern World
Room 13

MS3 Thinking Systemically about Improving Undergraduate Education in the Mathematical Sciences
Room 12

MS4 Applied Mathematics in the Liberal Arts: Curriculum, Pedagogy, and Technology
Room 11

CP2 Contributed Lecture Session 2
Room 10

6:00 p.m. – 8:00 p.m.

ED26 Welcome Reception
Room 14

Friday, July 10

7:30 a.m. – 3:00 p.m.

Registration
Hall C Foyer

8:00 a.m. – 10:00 a.m.

Concurrent Sessions

MS5 Modeling Makes Mathematics More Meaningful (MS⁵)\$ - Certainly in Differential Equations Education - Part II of II
Room 13

MS6 Applying Innovative Teaching Strategies to Undergraduate Applied Mathematics - Part I of II
Room 12

CP3 Contributed Lecture Session 3
Room 11

10:00 a.m. – 10:30 a.m.

Coffee Break
Hall C

10:30 a.m. – 11:15 a.m.

IP3 Academia to Industry: A Journey from Applied Math PhD to Construction Autonomy at John Deere
Matt Elsey, Blue River Technology, U.S.
Room 13

11:15 a.m. – 11:30 a.m.

Intermission

11:30 a.m. – 12:15 p.m.

IP4 From Early Exposure to Independent Modeling: Developing Applied Mathematical Thinking
Julie Blackwood, Williams College, U.S.
Room 13

12:15 p.m. – 12:20 p.m.

Closing Remarks
Room 13

12:20 p.m. – 12:50 p.m.

SIAM/ED Business Meeting
Soft drinks and snacks will be provided.
Room 13

12:20 p.m. – 1:45 p.m.

Lunch Break

1:45 p.m. – 2:30 p.m.

SIAM Annual Meeting (AN26): Invited Plenary Speaker, Luke Oeding
Grand Ballroom A

2:30 p.m. – 3:00 p.m.

Coffee Break
Hall C

Friday, July 10

3:00 p.m. – 5:00 p.m.

Concurrent Sessions

MT2 Enhancing Student Learning Experiences in the Presence of AI - Part II of II

Room 13

MS7 The Data Science Education Pipeline: Secondary, Postsecondary, and Teacher Preparation

Room 12

MS8 Applying Innovative Teaching Strategies to Undergraduate Applied Mathematics - Part II of II

Room 11

Abbreviation Key

CP = Contributed Presentation Session

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JP = Joint Plenary Speaker

MS = Minisymposium

Thank you to our Sponsors!







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SIAM and the Organizing Committees wish to extend their thanks and appreciation to the U.S. National Science Foundation for its support of these conferences.

Visit the Exhibitors!

Booth #1

National Institute for Theory and Mathematics in Biology

The mission of the NITMB is to create a nationwide collaborative research community that aims to integrate the disciplines of mathematics and biology in order to transform the practice of biological research and to inspire new mathematical discoveries.

Booth #2

MathWorks

MATLAB and Simulink are used as fundamental modeling and simulation tools for research and development wherever engineering and science is applied. More than 6,500 colleges and universities use MATLAB and Simulink for teaching and research. MathWorks products also help prepare students for careers in industry, where the tools are widely used for algorithm development, data analysis, visualization, and numeric computation.

Booth #3

American Mathematical Society

The AMS, founded in 1888 to further the interests of mathematical research and scholarship, serves the national and international community through its publications, meetings, advocacy and other programs, which

- promote mathematical research, its communication and uses,
- encourage and promote the transmission of mathematical understanding and skills,
- support mathematical education at all levels,
- advance the status of the profession of mathematics, encouraging and facilitating full participation of all individuals,
- foster an awareness and appreciation of mathematics and its connections to other disciplines and everyday life.

Booth #4

Association for Women in Mathematics

The Association for Women in Mathematics (AWM) is a non-profit organization founded in 1971. Its mission is to create a community in which women and girls can thrive in their mathematical endeavors and to promote equitable opportunity and gender-inclusivity across the mathematical sciences.

Booth #5

International Society of Pharmacometrics (ISoP)

The International Society of Pharmacometrics (ISoP) is a global professional organization advancing pharmacometrics through collaboration, education, and scientific exchange. ISoP connects academia, industry, and regulators to share best practices and work together to improve drug development and therapeutic decision-making through quantitative modeling and simulation across the full pharmaceutical product lifecycle.

Booth #6

Springer Nature

Through our leading brands, trusted for more than 180 years, we provide technology-enabled products, platforms and services that help researchers to uncover new ideas and share their discoveries. We are proud to be part of progress and accelerate solutions to address the world's urgent challenges.

Booth #7

National Academies of Sciences, Engineering, and Medicine

The National Academies provide independent, trustworthy advice and facilitate solutions to complex challenges by mobilizing expertise and knowledge in science, engineering, and medicine. Come by our booth for free math posters and to hear about our work, including our latest reports on Foundation Models and the Frontiers of Statistics.

Booth #8

SIAM Bookstore

Visit the SIAM book booth to browse our latest publications and take advantage of the special conference discount. Thinking of writing a book? Talk to Executive Editor Elizabeth Greenspan.

Booth #9

SIAM Membership

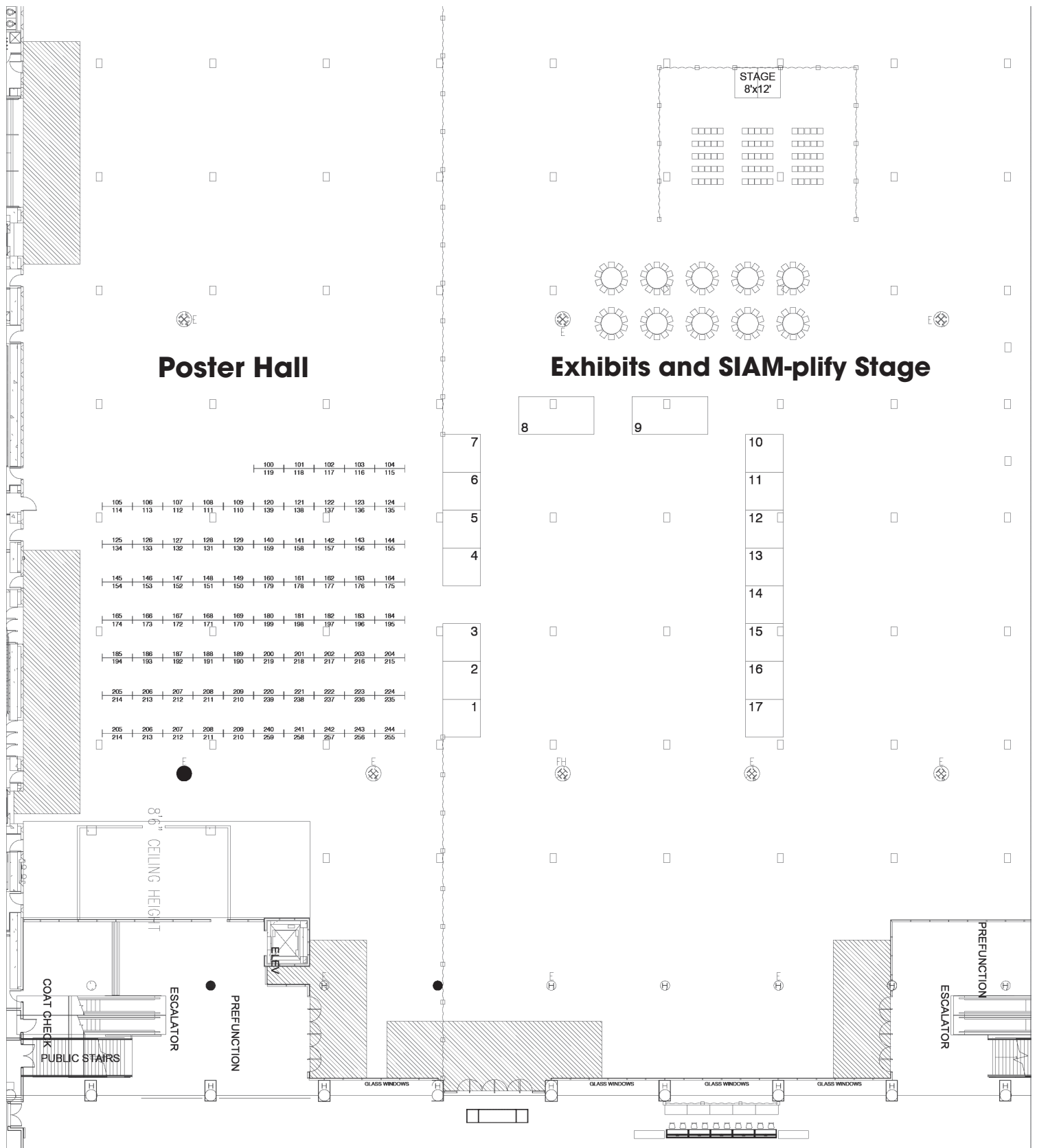
SIAM members should stop by the membership booth to claim a piece of free SIAM merch as a thank you for being a SIAM member. Come spin our wheel to see what free SIAM merchandise you will claim--a pair of socks, t-shirt, koozie, chip clip, hand sanitizer, pen, notepad, or sticker!

Not a member? SIAM membership is included in all paid Annual Meeting attendees' registrations. You can claim your membership at the membership table and then spin the wheel for your free SIAM merchandise! Attendees will also be able to find information about SIAM member benefits, SIAM activity groups, student chapters, upcoming conferences, and more...

(Merchandise available while supplies last.)

Huntington Convention Center of Cleveland Floor Plans

Hall C

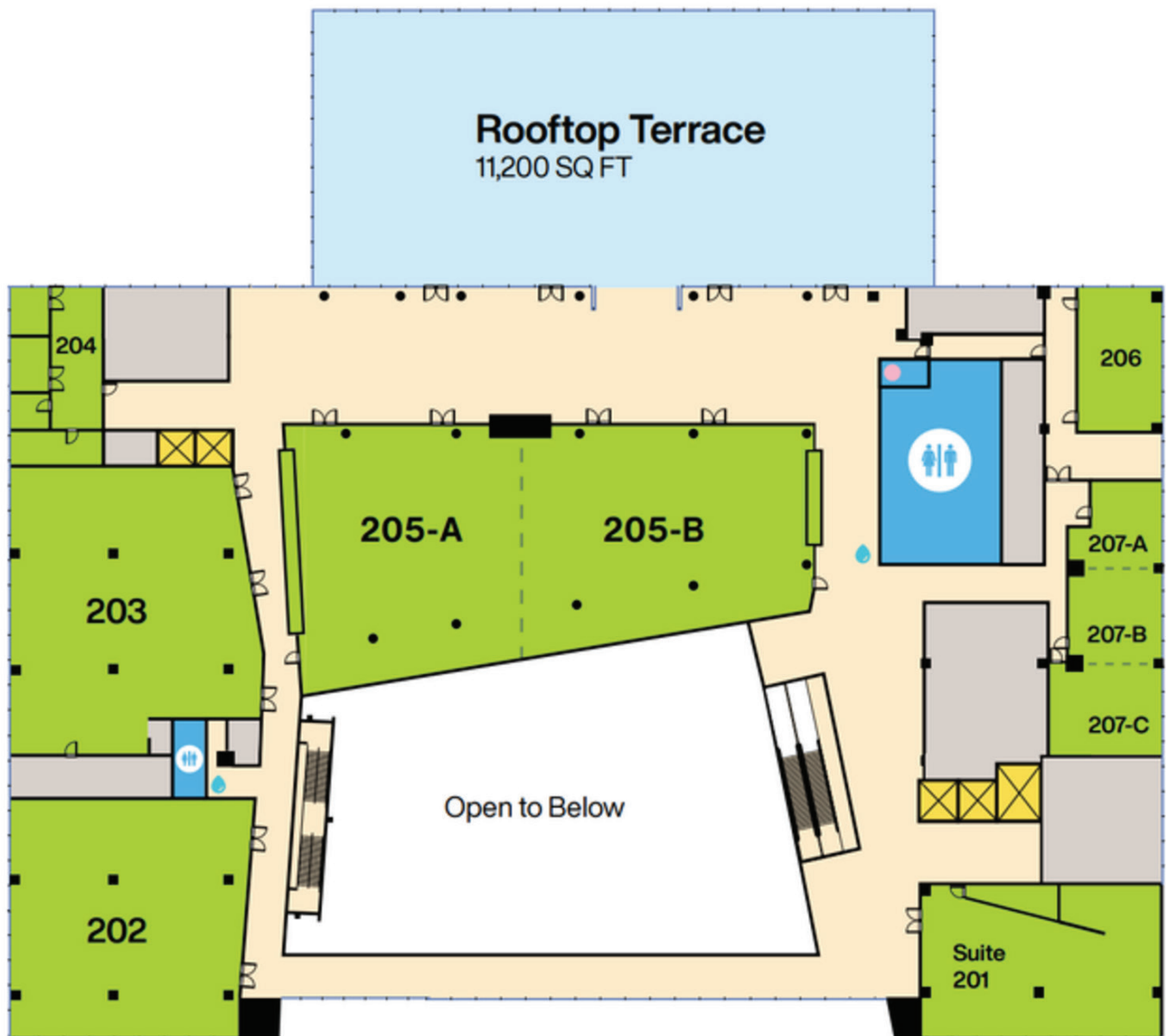


Huntington Convention Center of Cleveland Floor Plans



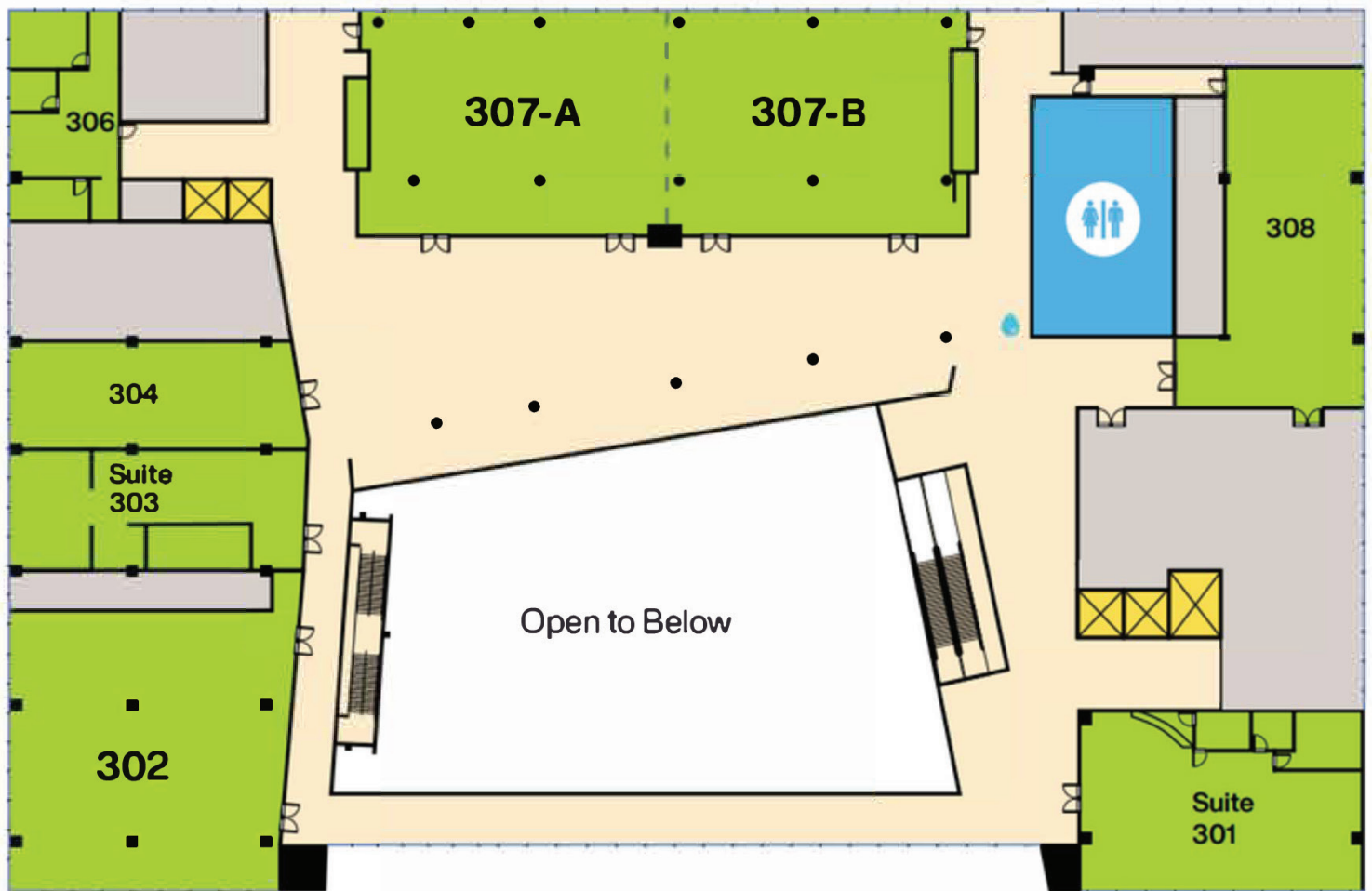
Floor One

Huntington Convention Center of Cleveland Floor Plans



Floor Two

Huntington Convention Center of Cleveland Floor Plans



Floor Three

Huntington Convention Center of Cleveland Floor Plans

