

At-A-Glance



SEPTEMBER 13–15, 2018

**DoubleTree by Hilton Hotel
Philadelphia Center City
Philadelphia, Pennsylvania, USA**



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2018 SIAM Conference on Mathematics of Planet Earth At-A-Glance

Wednesday, September 12

5:30 PM - 8:00 PM

Registration
Aria B - 3rd Floor

6:00 PM - 8:00 PM

Welcome Reception 
Restaurant or Pool Deck (weather permitting)

Thursday, September 13

7:45 AM - 4:30 PM

Registration
Aria B - 3rd Floor


8:30 AM - 8:45 AM

Opening Remarks
Symphony Ballroom - 3rd Floor

8:45 AM - 9:30 AM

IP1 Where Water Meets Land: The Mathematics of the Coastal Ocean
Clint Dawson, University of Texas at Austin, USA
Symphony Ballroom - 3rd Floor

9:30 AM - 10:00 AM

PP1 Coffee Break and Poster Session 
Posters will be on display during both Thursday coffee breaks
Overture and Balcony - 3rd Floor

10:00 AM - 12:00 PM

Concurrent Sessions
MT1 Providing Interdisciplinary Undergraduate Experiences on Earth-based Applications
Symphony Ballroom - 3rd Floor
MS1 Sustainable Management of Renewable Resources, Ecosystems, and Biodiversity - Part I of II
Aria A - 3rd Floor
MS2 Challenges in Environmental Remote Sensing - Part I of II
Concerto A - 3rd Floor
MS3 Statistics of Extreme Weather and Climate Events
Concerto B - 3rd Floor
MS4 Numerical Methods for Weather, Oceans and Climate - Part I of II
Rhapsody - 4th Floor

CP1 Computational Methods for MPE Applications
Minuet - 4th Floor

12:00 PM - 1:30 PM

Lunch Break
Attendees on their own


1:30 PM - 3:30 PM

Concurrent Sessions
MT2 Solving Environmental Uncertainty Quantification Problems with the MIT Uncertainty Quantification Library
Symphony Ballroom - 3rd Floor
MS5 Sustainable Management of Renewable Resources, Ecosystems, and Biodiversity - Part II of II
Aria A - 3rd Floor

MS6 Challenges in Environmental Remote Sensing - Part II of II
Concerto A - 3rd Floor
MS7 STEM Education for the Future of the Planet Earth - Part I of II
Concerto B - 3rd Floor

MS8 Advances and Applications of Time-integration in Earth System Modeling - Part I of II
Rhapsody - 4th Floor
CP2 Physical Systems
Minuet - 4th Floor

3:30 PM - 4:00 PM

Coffee Break and Poster Session 
Posters will be on display during both Thursday coffee breaks
Overture and Balcony - 3rd Floor

4:00 PM - 6:00 PM

Concurrent Sessions
MS9 Linking Scales in Earth's Sea Ice System - Part I of III
Symphony Ballroom - 3rd Floor
MS10 Bayesian Data Assimilation
Aria A - 3rd Floor
MS11 Geomathematical Inverse Problems - Part I of II
Concerto A - 3rd Floor
MS12 STEM Education for the Future of the Planet Earth - Part II of II
Concerto B - 3rd Floor

Thursday, September 13

MS13 Numerical Methods for Weather, Oceans and Climate - Part II of II
Rhapsody - 4th Floor

CP3 Sustainability
Minuet - 4th Floor

Friday, September 14

8:15 AM - 4:30 PM

Registration
Aria B - 3rd Floor

8:40 AM - 8:45 AM

Remarks
Symphony Ballroom - 3rd Floor

8:45 AM - 9:30 AM

IP2 Optimal Control Techniques Applied to Management of Natural Resource Models
Suzanne M. Lenhart, University of Tennessee, Knoxville, USA and National Institute for Mathematical and Biological Synthesis, USA
Symphony Ballroom - 3rd Floor

9:30 AM - 10:00 AM

Coffee Break 
Overture and Balcony - 3rd Floor

10:00 AM - 12:00 PM

Concurrent Sessions
MS14 Linking Scales in Earth's Sea Ice System - Part II of III
Symphony Ballroom - 3rd Floor
MS15 Seasonal Forecasting of Hydrological Anomalies and Their Impact on Society
Aria A - 3rd Floor
MS16 Geomathematical Inverse Problems - Part II of II
Concerto A - 3rd Floor
MS17 Efforts Toward Evaluation and Reproducibility for Science of Planet Earth - Part I of II
Concerto B - 3rd Floor
MS18 Advances and Applications of Time-integration in Earth System Modeling - Part II of II
Rhapsody - 4th Floor
CP4 Modelling for Systems Supporting Life
Minuet - 4th Floor

2018 SIAM Conference on Mathematics of Planet Earth At-A-Glance

Friday, September 14

Saturday, September 15

12:00 PM - 1:30 PM

Lunch Break

Attendees on their own

1:30 PM - 3:30 PM

Concurrent Sessions

MS19 Linking Scales in Earth's Sea Ice System - Part III of III

Symphony Ballroom - 3rd Floor

MS20 Recent Advances in Computational Methods for Data Assimilation - Part I of II

Aria A - 3rd Floor

MS21 Mathematical Methods for Conceptual Climate Modeling: From Deterministic to Stochastic

Concerto A - 3rd Floor

MS22 Efforts Toward Evaluation and Reproducibility for Science of Planet Earth - Part II of II

Concerto B - 3rd Floor

MS23 Doctoral Training Showcase in Mathematics of Planet Earth (MPE CDT) - Part I of II

Minuet - 4th Floor

MS24 One Health: Connecting Humans, Animals and the Environment - Part I of II

Rhapsody - 4th Floor

3:30 PM - 4:00 PM

Coffee Break

Overture and Balcony - 3rd Floor



4:00 PM - 4:45 PM

IP3 Insights from Studying the Interface Between Sentience and Sociability in Animal Movement Patterns

Bertrand Lemasson, US Army Corps of Engineers, USA

Symphony Ballroom - 3rd Floor

4:45 PM - 5:00 PM

Intermission

5:00 PM - 6:00 PM

PD1 Forward Looking Panel on Emerging Topics

Symphony Ballroom - 3rd Floor

8:00 AM - 8:30 AM

SIAG/MPE Business Meeting (open to SIAG/MPE members)

Symphony Ballroom - 3rd Floor

Refreshments will be served.



8:00 AM - 10:30 AM

Registration

Aria B - 3rd Floor

8:30 AM - 8:40 AM

Intermission

8:40 AM - 8:45 AM

Closing Remarks

Symphony Ballroom - 3rd Floor

8:45 AM - 9:30 AM

IP4 How Energy Optimization is Responding to the Challenge of Decarbonizing Our Economies

Claudia Sagastizabal, UNICAMP, Brazil

Symphony Ballroom - 3rd Floor

9:30 AM - 10:00 AM

Coffee Break

Overture and Balcony - 3rd Floor



10:00 AM - 12:00 PM

Concurrent Sessions

MS25 Doctoral Training Showcase in Mathematics of Planet Earth (MPE CDT) - Part II of II

Symphony Ballroom - 3rd Floor

MS26 Recent Advances in Computational Methods for Data Assimilation - Part II of II

Aria A - 3rd Floor

MS27 Decision Tools for Water Resources

Concerto A - 3rd Floor

MS28 One Health: Connecting Humans, Animals and the Environment - Part II of II

Rhapsody - 4th Floor

CP5 Climate Modelling

Minuet - 4th Floor

Key to abbreviations and symbols



= Business Meeting



= Coffee Break

MS

= Minisymposium



= Refreshments Served

IP

= Invited Plenary Speaker

PP

= Poster Session

CP

= Contributed Presentation Session

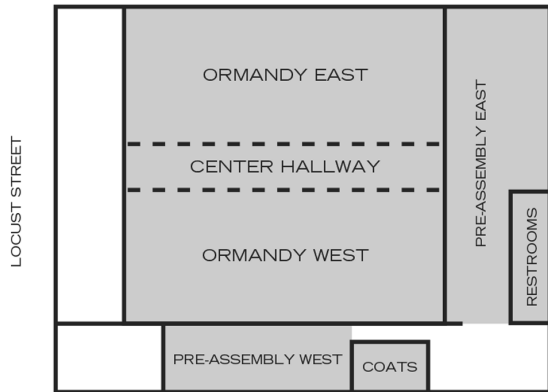
MT

= Minitutorial

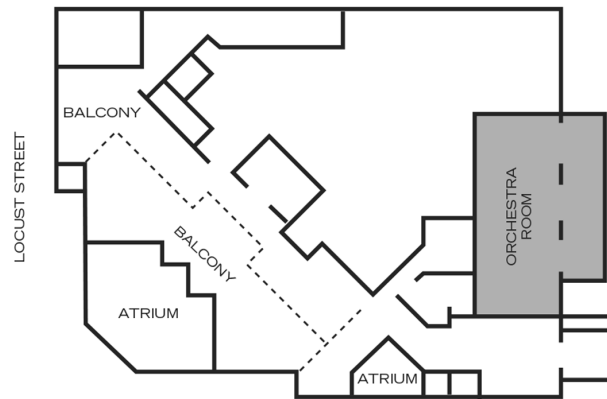
PD

= Panel Discussion

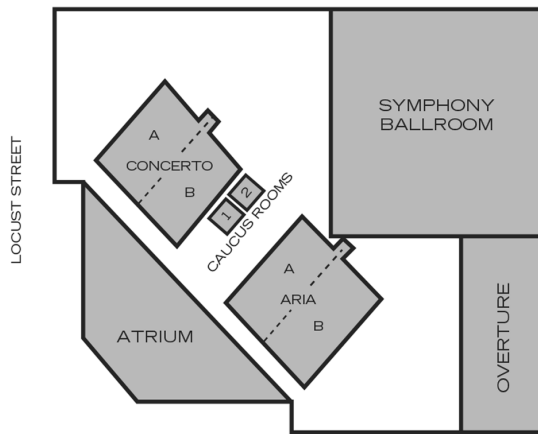
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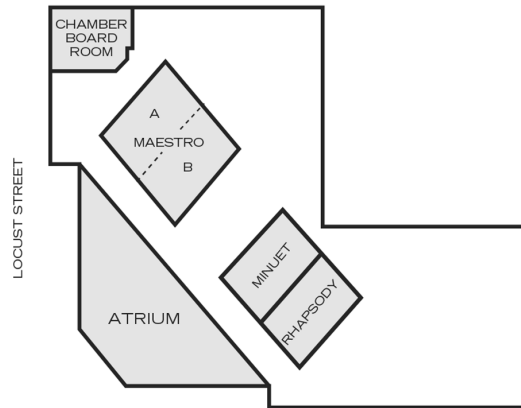
BROAD STREET
LOBBY LEVEL



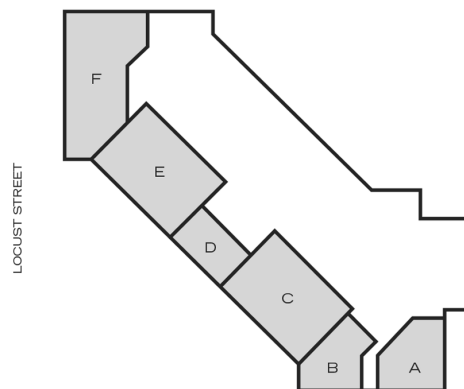
BROAD STREET
MEZZANINE LEVEL



BROAD STREET
THIRD FLOOR



BROAD STREET
FOURTH FLOOR



BROAD STREET
FIFTH FLOOR
ASSEMBLY ON FIVE