



**1st Miami Workshop on Aerosol Science and Technology
Summer School in Winter
January 17 and 18, 2023
Shalala Student Center, University of Miami
FULL PROGRAM AGENDA**

Time	Title	Speaker/Moderator
1/17/2023, Tuesday		
8:00 to 8:50	Breakfast	
8:50 to 9:00	Opening Remarks and Introduction of Online Attendees	Pratim Biswas
Session I: Aerosols in South Florida: Fires, Toxins, and Dusts		Paquita Zuidema Jiayu Li
9:00 to 9:45	Fires and Air Quality in Florida and Beyond	Christopher Holmes
9:45 to 10:00	Aerosolized Algal Toxins in South Florida, Health Impacts, and Exposure Mitigation Strategies	Cassandra Gaston
10:00 to 10:15	The Impact of African Dust on Aerosol Properties in the Caribbean Basin and Southern United States: Past History and Future Prospects	Joseph M. Prospero
10:15 to 10:45	Panel Discussion	
11:00 to 12:00	Group Picture and Campus Tour	Jan Macko
12:00 to 14:00	Poster Session and Lunch (In-person Only)	
Session II: Aerosol and Cloud Physics, and Instrumentation		Yang Wang
14:00 to 14:45	Deployment of the DOE 3 rd ARM Mobile Facility (AMF3) to the Southeastern United States: A Vision for Integrated Model-Observing System Design for Targeting Land-Aerosol-Cloud Interactions	Chongai Kuang
14:45 to 15:00	Smoke And Its Interactions with Clouds Over The Southeast Atlantic: Do Similar Processes Operate Over South Florida	Paquita Zuidema
15:00 to 15:15	Aqueous Processing of Water-Soluble Organic Compounds in the Eastern United States	Marwa El-Sayed
15:15 to 15:45	Panel Discussion	
16:00 to 16:30	Coffee Break	
16:30 to 17:15	Tutorial I: Aerosol Fundamentals and Dynamics	Pratim Biswas
17:15 to 18:00	Instrument Demo by Handix Scientific Inc. SailBri Cooper, Inc. TSI Inc.	Ping Chen Varun Yadav Timothy Wright
18:30	Dinner	
1/18/2023, Wednesday		
8:00 to 9:00	Breakfast	
Session III: Aerosol Health Effects		Chang-Yu Wu
9:00 to 9:45	Aerosol Exposure Measurement: Challenges and Opportunities	Pramod Kulkarni



9:45 to 10:00	Applications of Water-based Condensational Growth Technology to Study Adverse Health Outcomes Associated with Exposure to Airborne Particles	Arantzazu Eiguren-Fernandez
10:00 to 10:15	Indoor and Outdoor Particulate Matter – Implications for Ocular Surface Diseases	Naresh Kumar
10:15 to 10:45	Panel Discussion	
11:00 to 12:00	Tutorial II: Aerosol Instrumentation	Chang-Yu Wu Yang Wang
12:00 to 14:00	Poster Session and Lunch (In-person Only)	
Session IV: Nanoparticle Technology: Synthesis, Characterization and Applications		Pratim Biswas Samiul Amin
14:00 to 14:45	Design, Manufacture and Applications of Functional Environmentally Benign Nanoparticles	Orlin Velev
14:45 to 15:00	Sustainability and Circularity Driven Innovation at Eastman	Deep Bhattacharya
15:00 to 15:15	Reactive Laser Ablation Synthesis in Solution (r-LASiS): A New Paradigm for Synthesizing Functional Composite Nanomaterials	Dibyendu Mukherjee
15:15 to 15:45	Panel Discussion	
16:00	Closing	

Speakers and Workshop Convenors:

Samiul Amin, Professor of Practice of the Department of Chemical, Environmental and Materials Engineering, University of Miami

Pratim Biswas, Dean of the College of Engineering, Professor of Chemical, Env and Materials Engr. & Atmospheric Sci. (RSMAS), Member of the National Academy of Engineering, University of Miami

Deep Bhattacharya, Vice President, Care Solutions Technology and Technology Operations, Eastman Chemical Company

Ping Chen, Founder & CEO, Handix Scientific Inc.

Arantzazu Eiguren-Fernandez, Senior Research Chemist, Aerosol Dynamics Inc.

Marwa El-Sayed, Assistant Professor of Environmental Engineering, Embry-Riddle Aeronautical University

Cassandra Gaston, Associate Professor of the Department of Atmospheric Sciences (ATM), University of Miami

Christopher Holmes, Werner A. and Shirley B. Baum Associate Professor of the Department of Earth, Ocean, and Atmospheric Science, Florida State University

Chongai Kuang, Atmospheric Scientist, Environmental and Climate Sciences Department, Brookhaven National Laboratory



Pramod Kulkarni, Chief of Chemical and Biological Monitoring Branch, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention

Naresh Kumar, Professor of the Department of Public Health Sciences, University of Miami

Jiayu Li, Assistant Professor of the Department of Mechanical and Aerospace Engineering, University of Miami

Jan Macko, Director of Admission, College of Engineering, University of Miami

Dibyendu Mukherjee, Research Assistant Professor of the Department of Chemical & Biomolecular Engineering, University of Tennessee, Knoxville

Joseph M. Prospero, Professor Emeritus of the Department of Atmospheric Science & the Cooperative Institute for Marine and Atmospheric Studies (CIMAS), Rosenstiel School of Marine, Atmospheric, and Earth Science, University of Miami

Orlin Velev, S. Frank and Doris Culberson Distinguished Professor of the Department of Chemical Engineering, North Carolina State University

Yang Wang, Assistant Professor of the Department of Chemical, Environmental and Materials Engineering, University of Miami

Chang-Yu Wu, Professor and Chair of the Department of Chemical, Environmental and Materials Engineering, University of Miami

Timothy Wright, Regional Manager, Research & Analytics Instruments | Southeast US Territory, TSI Inc.

Varun Yadav, Vice President of Operations, Sailbri Cooper Inc.

Paquita Zuidema, Professor and Chair of the Department of Atmospheric Sciences, University of Miami