

AWI Symposium 2023 Agenda

Thursday, April 6, 2023 – Bryant Conference Center (BCC)		
Registration Open	BCC Registration Desk	3:00 PM – 5:30 PM
Welcoming Remarks	BCC Seller’s Auditorium	4:00 PM – 4:30 PM
Opening Plenary Address—Joshua Yates, Director of Public Works, City of Birmingham	BCC Seller’s Auditorium	4:30 PM – 5:15 PM
Poster Session & Networking Dinner	BCC Seller’s Lobby (Posters) & Auditorium (Dinner)	5:15 PM – 7:30 PM

Friday, April 7, 2023				
Registration Open		BCC Registration Desk		7:30 AM – 12:00 PM
		Upstairs Check-In Table		12:00 PM – 3:30 PM
Breakfast		BCC Birmingham-Central		7:30 AM - 8:15 AM
Concurrent Oral Talks				
Freshwater Quality & Pollution BCC Room: Lackey Moderator: Brock Parker		8:15 – 9:15 AM	Urban Flooding & Water Infrastructure BCC Room: Wilson Moderator: Steve Burian	
Assessment of the Impact of Pre-Law Mining of Coal on Water and Sediment Quality in the Upper Hurricane Creek Watershed, Tuscaloosa County, Alabama	Dr. Rona Donahoe, University of Alabama	8:15– 8:30 AM	Role of Elevation and Socio-Demographic factors in susceptibility to urban flooding in Birmingham, Alabama	Aishwarya Kaushal, University of Alabama at Birmingham
Challenges in long-term remote sensing monitoring of freshwater quality at regional scale	Hongxing Liu, University of Alabama	8:30– 8:45 AM	Mitigating the Impacts of Future Climate Change on Urban Stormwater Infrastructure in Alabama Through Updating IDF Curves for Alabama	Kofi Opare, University of Alabama at Birmingham
Land use and climate change effects on eco-hydrological responses in central Alabama	Dr. Abi N Giglou, University of Alabama at Birmingham	8:45– 9:00 AM	Appropriate Pipe Replacement in Context of Life Cycle Impacts of Water Distribution Systems	Jonathan Clayton, University of Alabama
Organic Pollutants in Sediments of Coastal Alabama, USA: Source, Occurrence, and Ecological Risk	Yuehan Lu, University of Alabama	9:00– 9:15 AM	N/A	N/A

Networking Beverage Break					
Networking Beverage Break		Upstairs Hallways & Birmingham-Central		9:15 AM – 9:45 AM	
Concurrent Oral Talks					
Pollutants & Purification BCC Room: Lackey Moderator: Brock Parker		9:45 – 10:30 AM			A.I./M.L. & F.I.M. BCC Room: Wilson Moderator: James Halgren
Development of functionalized membranes and adsorbents for PFAS removal from water	Dr. Milad Esfahani, University of Alabama	9:45 – 10:00 AM	Exploring Low-Code AI Techniques for Streamflow Reconstruction in the Po River Basin, Italy	Dr. Jiaqi Gong, University of Alabama	
High Internal Phase Emulsion Polymer Foams as a Water Adsorbent Platform Technology	Dr. Amanda Koh, University of Alabama	10:00 – 10:15 AM	Predicting Coastal Residential Property Damage During Extreme Storm Event using a Multi-Variable Ensemble-Based Machine Learning Approach	Dr. Abi N. Giglou, University of Alabama at Birmingham	
Factors controlling the abundance and distribution of microplastic particles in surface sediments of Mobile Bay, Alabama	Alyssa Kandow, University of Alabama	10:15– 10:30 AM	Recent advances and future directions in CIROH Flood Inundation Mapping	Dr. Sagy Cohen, University of Alabama	
Networking Beverage Break					
Networking Beverage Break		Upstairs Hallways & Birmingham-Central		10:30 AM – 11:00 AM	
Concurrent Oral Talks					
Digital & Physical Tools BCC Room: Lackey Moderator: Amy Hammett		11:00 – 11:30 AM			The Living Environment BCC Room: Wilson Moderator: Mary Eliza Beaumont
Visualizing the Research Infrastructure at the new USGS Hydrologic Instrumentation Facility: New Opportunities for Water Research on the University of Alabama Campus	Christopher Wilson, U.S. Geological Survey	11:00 – 11:15 AM	Diverse farmer behaviors lead to complex water-energy-food interactions	Dr. Nicholas Magliocca, University of Alabama	
Improving National Water Model Forecast Access and Usability through Education, Applications, and APIs	Dr. Dan Ames, Brigham Young University	11:15 – 11:30 AM	Hierarchical Structuring of Genomic Differentiation and Beta Diversity within Freshwater Mussel Communities	Jamie Bucholz, University of Alabama	

Keynote Lunch		
Keynote Luncheon, James Spann, ABC	Hotel Capstone Ballroom (adjacent to BCC)	12:00 PM – 1:00 PM
Faculty Seminar/Workshop	Water Career/Exhibitor Fair	
BCC Wilson 1:30 PM – 2:30 PM	BCC Birmingham-Central 1:30 PM – 3:30 PM	
Successful Grantsmanship: Guidance for a Winning Proposal from a Former Federal Program Officer <i>Dr. Kelvin Chu, President and Chief Operating Officer at The Implementation Group</i>	<i>Students Encouraged to Attend at the Start</i>	<i>Faculty & Other Professionals Encouraged to Attend 2:30-3:30</i>

*Agenda subject to change

