

2026 Chesapeake Community Research Symposium DAY 1 (June 1)				
	Arundel A	Arundel B	Arundel C	Queen Anne Ballroom
9:00 AM	Introduction Raleigh Hood, UMCES Horn Point Laboratory and CCMP Program Coordinator			
9:15 AM	Plenary Speaker (9:15-10:00) Lauren Bridges, University of Virginia, Assistant Professor of Media Studies			
10:00 AM	Break (10:00-10:15)			
10:15 AM	Plenary Speaker (10:15-11:00) Josh Kurtz, Maryland Secretary of Natural Resources			
11:00 AM	Plenary Speaker (11:00-11:45) Brandon Jones, AGU President			
12:00 PM	Lunch (12:00-1:00)			
	Session 14: <i>Low-Cost Physical Environmental Monitoring Systems</i> Michael Maddox and Taryn Sudol	Session 2: <i>Advancing Chesapeake Bay Water-quality Science and Management: I. Innovative monitoring techniques and modeling tools</i> Qian Zhang, Kaylyn Gootman, Peter Tango, and Breck Sullivan	Session 19: <i>Advanced Data Analytics for Water Quality and Public Health</i> Jianyong Wu, Dongmei Alvi, and Efeturi Oghenekaro	Session 1: <i>Estuarine Carbon Dynamics and Acidification in the Chesapeake Bay: Monitoring, Impacts, and Emerging Solutions</i> Emma Venarde, Raymond Najjar, Janet Reimer, Cassie Gurbisz, Whitman Miller, and Amanda Knobloch
1:00 PM	Drew Powell, Matthew Baker, Dillon Mahmoudi: Understanding Spatiotemporal Variation in Air Quality Using Purple Air Sensors	Richard Zimmerman, Victoria Hill, David Ruble, et al.: A Low-Cost Spectoradiometer for Aquatic Sciences and Water Quality Monitoring	Emily H. Majcher: Status of PFAS in surface waters of the Chesapeake Bay Watershed and associations with sources and landscape characteristics	Lisa Haber, Paul Bukaveckas, Ed Crawford, et al.: Vertical, Lateral, Tidal: Towards a comprehensive net ecosystem carbon budget for a tidal freshwater marsh in Virginia
1:15 PM	Tiberias Okanga: Advancing Community Air Quality Monitoring Through Low-Cost Sensors in the Baltimore–Washington Corridor	Victoria Hill, Richard Zimmerman, Jacob Gallagher, et al.: Mapping Seasonality in Submerged Aquatic Vegetation growth in the Chesapeake Bay Using Planet Satellite Imagery	Yanni Cao: Environmental Indicators of PFAS in an Urban Watershed Revealed by Explainable Machine Learning	Stephanie J. Wilson: Long-term monitoring to calculate lateral carbon and alkalinity flux from a mesohaline tidal marsh
1:30 PM	Katie Lehman, Ava Puschnigg: Mesoterps: Building a Resilient Campus With High-Resolution Environmental Monitoring	Maria Guardado, Victoria Hill, Richard Zimmerman: Quantifying Seasonal Variability in Seagrass Extent and Density Using Physics-Based Remote Sensing Models	Benjamin Schelling, Margaret Mulholland: The Effects of Tidal Flooding on the Transport of Per- & Polyfluoroalkyl Substances (PFAS) into the Lafayette and Elizabeth Rivers	Andrea Pain, Lorie Staver, Jeff Cornwell, et al.: Rates and magnitudes of blue carbon sequestration in marshes created by dredged material placement in Chesapeake Bay
1:45 PM	Tim Canty, Michael Maddox, Louis Uccellini, et al.: Addressing Adaptation Challenges Facing the Chesapeake Bay Through Low-Cost Monitoring Supporting Impact-Based Decision Support Services	Jacob Gallaher, Victoria Hill, Richard Zimmerman: Using Satellite Imagery to Map Seasonal Variation of Seagrass Meadow Area and Blue Carbon in Chincoteague Bay	Dongmei Alvi: Explainable AI Illuminates Microbial Contributions in a Highly Urbanized Watershed	Amanda Knobloch: Comparing Carbon Concentrations and Composition in Tidal Marshes and Oyster Aquaculture
2:00 PM	Tori Tomiczek, Lilliana Velasquez Montoya, Jasmine Wilding, et al.: Monitoring Local Coastal Backflow in Storm Drains Using Low-Cost Accelerometers: Flood Frequency and Duration in Annapolis, MD Using Low-Cost Accelerometers	Max Ruehrmund, Jay Lazar: Leveraging Collaborative Infrastructure for Monitoring Dissolved Oxygen in Chesapeake Bay	Anna Van Dongen: Public Health and Water Quality: Investigating the Relationship between Bacteria and Colored Dissolved Organic Matter	Richard Hale, Richard Zimmerman, Victoria Hill, David Burdige: Blue Carbon Sequestration by Submerged Aquatic Vegetation in Chesapeake Bay: Where's the Peat?
2:15 PM	Megan Curtiss: Cities as climate labs: Measuring tree growth responses across urban stress gradients with dendrometer bands	Weston M. Slaughter: Sensor networks reveal salinity-dependent controls on hypoxia, diel extremes, and productivity–alkalinity coupling in a Chesapeake Bay tidal tributary	Veronica Manka'a Tangiri: Analysis of the Health and Population of Benthic Macroinvertebrates with Increasing development: Quantico Creek Watershed, Prince William County, Virginia	David J Burdige, Richard Zimmerman, Rip Hale, et al.: Alkalinity production and pyrite burial in seagrass sediments as a mechanism of Blue Carbon sequestration
2:30 PM	Break (2:30-2:45)			

DAY 1 Continued				
	Session 24 <i>Phytoplankton Dynamics in Chesapeake Bay: Analysis, Methods and Models</i> Emily Brownlee, Greg Silsbe, and Catherine Wazniak	Session 2 Continued	Session 4: <i>Data Centers and Water, Air, and Environmental Impacts and Solution Options in the Chesapeake Watershed</i> Kevin Sellner and Charles Bott	Session 1 Continued
2:45 PM	Michelle C. Tomlinson, Kirstin Wakefield: From lab to space: Co-developing a regional prototype for a National HAB Observation Network (NHABON) in Chesapeake Bay	Claire Welty, Mary McWilliams, Andy Miller, et al.: Evaluation of pollutant removal effectiveness of stormwater facilities using high-frequency water quality sensors	Kevin Sellner: Data Centers and Water, Air, and Environmental Impacts and Solutions	Cassie Gurbisz, Theresa Murphy, Hunter Walker, et al.: Submersed aquatic vegetation modifies estuarine inorganic carbon and alkalinity dynamics
3:00 PM	Khari Crommarty: Mapping the Risk of High Chlorophyll & HAB events in the Chesapeake Bay	Alexander Soroka: Large sediment yield after mitigation projects, then development: The story of Foster Branch	Lauren Barbir: Data Centers: the water-energy nexus	Anamika Das Kona, Victoria Hill, Richard Zimmerman: Impact of Climate Change on Seagrass Dynamics in the Chesapeake Bay: Comparative Metabolic Responses of Widgeon Grass (<i>Ruppia Maritima</i>) and Eelgrass (<i>Zostera Marina</i>)
3:15 PM	Xin Yu, Michelle C. Tomlinson: A short-term harmful algal bloom (HAB) forecasting system for the lower Chesapeake Bay	Shuyu Y. Chang, Robert C. Walter, Mia Aaronson, et al.: Cooler Waters, Reconnected Valleys: Restoration Gains from Milldam Legacy Sediment Removal	Michael College, P.E.: From Megawatts to Megabytes: Advancing Dry Cooling Success in the Susquehanna River Basin	Madison Griffin: Saturated with Data: Modeling Carbonate Chemistry Saturation State Thresholds in Mid-Atlantic Shellfish
3:30 PM	Dante M. L. Horemans, Pierre St-Laurent, Marjorie A. M. Friedrichs, et al.: Environmental controls on interannual Margalefidinium polykrikoides blooms in the Lafayette River	Greg Noe: Watershed controls and Chesapeake-wide predictions of streambank erosion rates	Charles Bott, Alexandria Gagnon, Kevin Sellner: Understanding the Impact of Discharges from Data Centers on Wastewater Treatment Plants: Fundamentals and Potential Impacts	Amin Boukari, Tahera Attarwala, Gulnihal Ozbay: Aragonite Saturation State as an Indicator for Oyster Habitat Health in the Delaware Inland Bays
3:45 PM	Allen R. Place: Karlodinium veneficum - The little dinoflagellate with a big bite is missing?	Andrew Sekellick, Alexander Soroka: Modeling Nutrient Sources, Fate, and Transport in the Chesapeake Bay Watershed Using an Updated SPARROW Framework to Support Stakeholder Decision-Making	Kendra Sveum: Data Center Effluent Case Study: Operations Impacts on a Wastewater Treatment Plant	Gabriel Duran, Paul A. del Giorgio, Candice Aulard, et al.: Quantifying the aquatic carbon budget of two Canadian boreal watersheds: a tale of two lakes
4:00 PM	Danyang Zhai, Jian Shen: Primary production in Chesapeake Bay: Spatial and Temporal Patterns Using Open Water Method	Qian Zhang, Gopal Bhatt, Kaylyn Gootman: Are we on track? Integrating monitoring and models to track load reduction progress in the Chesapeake Bay watershed	Larry Band, Rouyu Zhang, Tejendra Kandell, et al.: Watersheds and Data Center Development Impacts	Raymond G. Najjar, Riley Westman, Devon Kerins, et al.: The carbonate chemistry of rivers draining to the Chesapeake Bay viewed through a new simplifying metric: Excess dissolved inorganic carbon
4:15 PM	Margaret R. Mulholland, Eileen Hofmann, Peter Bernhardt, et al.: Enhanced surveillance to improve HAB monitoring and detection: toward an early warning system for HABs in the lower Chesapeake Bay	Thomas Fisher, Judith O'Neil, Anne B. Gustafson, et al.: Assessment of phytoplankton nutrient and light limitation in Chesapeake Bay in response to nutrient management strategies over the last 25 years	Allison Welch, Daniel Koval: Global Data, Local Impacts: How data center development is changing your local landscape	Whitman Miller, Amanda Reynolds: Continuous but contrasting multi-year comparisons of measured carbonate parameters in the mesohaline Rhode River, MD
4:30 PM	Kami Lentzsch, Amy Hamilton, Catherine Wazniak, et al.: Evaluating FlowCam Precision for Reliable Phytoplankton Assessment in the Chesapeake Bay	Kelly Kosiarski: Evaluating Riparian Buffer Zone Effectiveness at Mitigating PFAS from Surface Runoff of Biosolids Amended Fields	Julia Davis, Landon Marston, Majid Shafiee-Jood: A Review of Data Center Water Use, Methodological Gaps, and Policy Implications	Novia Mann, Hunter Walker, Quinn Roberts, et al.: A Comparative Analysis of Carbonate System Dynamics of the York River and Potomac River Estuaries
4:45 PM	Catherine Wazniak, Jeremy Testa: Benthic Microalgae in the Chesapeake Bay	Kathryn Dixon, Claire Barlow: Rapid Water Quality Evaluation of the Potomac River Sewage Overflow	Lauren Barbir: Data Centers: Trends and innovation for water use for a circular economy	Zhendong Ji, Wei-jun Cai, Jeremy Testa, et al.: Quantifying the Efficacy of Wastewater Alkalinity Enhancement on Carbon Emission and Uptake in Chesapeake Bay
5:00 PM				Alexa Labossiere, Pierre St-Laurent, Kyle Hinson, et al.: Efficiency of ocean alkalinity enhancement in the Chesapeake Bay
5:15 PM				Kyle Hinson: A Data-Driven Ocean Alkalinity Enhancement Module for the Chesapeake Bay
5:00 PM	Poster Session, Reception, Guardian Award <i>Light refreshments provided and cash bar available</i>			
7:00 PM				

DAY 2 (June 2)				
	Arundel A	Arundel B	Arundel C	Queen Anne Ballroom
9:00 AM	Panel Discussion (9:00-10:15) Big Data to Better Decisions: Leveraging AI and Machine Learning for Chesapeake Bay Research and Management			
10:15 AM	Break (10:15-10:30)			
10:30 AM	Panel Discussion (10:30-11:45) Hail CESR? Weighing the Benefits of Deep and Shallow Restoration			
12:00 PM	Lunch (12:00-1:00)			
	Session 8: <i>Advancing the Development and Management Applications of Next-generation Airshed, Land-use, Watershed, and Estuarine Models</i> Zhengui Wang, Gopal Bhatt, Joseph Delesantro, and Wenfan Wu	Session 3: <i>Advancing Chesapeake Bay Water-quality Science and Management: II. Novel analysis and scientific communication approaches to inform management</i> Qian Zhang, James Webber, Rebecca Murphy, and Kaylyn Gootman	Session 15: <i>Next Generation Tools and Team Science for Chesapeake Bay Living Resource Assessment and Management</i> Bruce Vogt and Christina Garvey	Session 11: <i>Geospatial Targeting of Restoration and Conservation Actions</i> Peter Claggett, John Wolf
1:00 PM	Lewis C. Linker, Gopal Bhatt, Joseph Zhang, et al.: Phase 7 Models of the Chesapeake Watershed, Estuary, and Airshed – Exploring Future Challenges of Changing Environmental Conditions and Growth	Ashok Jacob, Raj Cibin: A Deep Learning Framework for Continuous Stream Nitrate Estimation across the Chesapeake Bay Watersheds	Hongsheng Bi, Cailian Liu: High-Frequency Imaging of Phytoplankton and Zooplankton Dynamics in the Chesapeake Bay	<i>I. High-Resolution Geospatial Data and Technical Advances</i> Labeeb Ahmed: Seamless Elevation Data in the Chesapeake Bay watershed
1:15 PM	Joseph Delesantro, Isabella Bertani, Gopal Bhatt, et al.: Characterizing annual streamflow, nutrient, and sediment loading and drivers in the Chesapeake Bay watershed through data-driven models	Quinn Domanski: Investigating Bidirectional Dynamics in Chesapeake Bay Tributaries Using Long-Term Monitoring Data and Machine Learning	Alexandria Rhodes, Victoria Hill, PhD & Richard Zimmerman, PhD: Mapping Submerged Aquatic Vegetation Around the Tangier-Smith Archipelago Using Satellite Imagery	Michelle Katoski, Peter Claggett, Joseph Delesantro, et al.: Characterizing hydrologic connectivity for water quality modeling and BMP targeting in the Chesapeake Bay Watershed
1:30 PM	Joseph Delesantro, Conor Keitzer, Gopal Bhatt, et al.: Closing the phosphorus modeling gap in the Chesapeake Bay watershed	Xueting Pu: Toward Generalizable and Interpretable Sediment Modeling with AI-Augmented HSPF	Matthew Ogburn, Allison Blanchette: Leveraging Underwater Video, High-Resolution Sonar, eDNA, and Animal Telemetry for Fisheries and Fish Habitat Monitoring	Jackie Pickford: Mapping Sewer Service Areas and Septic Systems to Inform Management Decisions
1:45 PM	Gopal Bhatt, Joseph Delesantro, Lewis Linker, et al.: Progress in the development and linkage of fine-scale Phase 7 Chesapeake Bay Watershed Model	Abigail Percich, Admin Husic, Allen Gellis, et al.: Watershed-scale sediment source prediction using machine learning	Julie Reichert-Nguyen, Julia Fucci, Ron Vogel, et al.: From Buoys, Satellites, and Models: Data Comparisons to Inform Marine Heatwave Forecasting for Fisheries Management Application	Sarah McDonald: Four Decades of Land Use Change in the Chesapeake Bay Watershed: Integrating High Spatial and Temporal Resolution Datasets
2:00 PM	Zhengui Wang, Yinglong J. Zhang, Jian Shen, et al.: Status of The Phase-7 Chesapeake Bay Water Quality Model	Diver Marin Palacio, Chuqiang Chen, Stanley Grant, et al.: Capturing Event-Driven Salinity Pulses and Nonlinear SC Dynamics in Chesapeake Bay Tributaries using a Deep Learning Model	Genny Nesslage, Vyacheslav Lyubchich, Glenn Davis, et al.: Quantifying linked rare events in fish and environmental Chesapeake Bay time series	Peter Claggett: Simulating future development in the Chesapeake Bay Watershed
2:15 PM	Richard Tian, Nicole Cai: Simulation of benthic microalgae impacts on water quality in shallow water systems, Corsica River, Chesapeake Bay	Lindsey Boyle, Kelly Maloney, Rosemary Fanelli: Watershed wide predictions of specific conductance show increasing salinity across half of the Chesapeake Bay watershed	Robert Daniels, Ava Ellett: Chesapeake Bay Vibrio Seasonal Outlook	Amy Freitag, Katherine Auerswald, Seann Regan: A Community Risk Assessment of Flooding and Heat Hazards in the Baltimore Metropolitan Area
2:30 PM	Amir Reza Azarnivand, Jeremy Mark Testa: Modeling climate-driven flow increases on stratification in the Patuxent River Estuary: Implications for oxygen depletion	Marina Metes, Matthew Cashman, Zachary Clifton: Predicting Aquatic Physical Habitat Over a 38-Year Period Using Machine Learning	Allison Dreiss, Ryan E. Langendorf, Ryan Woodland, et al.: Modeling benthic biomass responses to climate change in the Chesapeake Bay	<i>II. Audience-Driven Design for Conservation and Restoration Tools, Maps, and Data</i> Sophie Waterman: Turning User Insights into Action: Redesigning Geospatial Tools for Conservation and Restoration
2:45 PM	Wenfan Wu, Zhengui Wang, Jian Shen, et al.: Disentangling Drought-induced Algal Blooms in Tidal Freshwater Zones with an Interpretable Bloom Risk Index	Chuqiang Chen, Admin Husic: Increasing event water fraction across the Chesapeake Bay Watershed under climatic and anthropogenic change	Theresa Davenport, Kenny Rose, Limin Sun, et al.: Coupling hydrodynamic, water quality, and habitat suitability models to assess the habitat co-benefits from living shorelines	John Wolf: Modernizing the Chesapeake Targeting Portal: Aligning Data, Maps, Tools, and Outcomes through User-Driven Feedback
3:00 PM	Break (3:00-3:15)			

DAY 2 Continued				
	<i>Session 8 Continued</i>	<i>Session 3 Continued</i>	<i>Session 15 Continued</i>	<i>Session 11 Continued</i>
3:15 PM	Anand Gnanadesikan, Rui Jin, Marie-Aude Pradal, et al.: CDOM Absorption by Phytoplankton Modulates the distribution of Hypoxia in Chesapeake Bay	Lorena Pinheiro-Silva, Xiaoxu Guo, Matthew Houser, et al.: Tracking Nutrient Pollution and Best Management Practice Effectiveness in the Choptank River Using Explainable Machine Learning and Satellite Data	Emi McGeady: Evaluating Localized Food Web Response to Oyster Restoration using a 3D Multispecies Individual-Based Model	Zhaoying Wei: Designing Outcome-Centered Interactive Maps for the Chesapeake Targeting Portal 2.0
3:30 PM	Jiangtao Xu, Lixia Wang, Aijun Zhang, et al.: Update on NOAA's New Operational Forecast System for the Northeast US	Nivedita Priyadarshini Kamaraj, Sundarabalan V. Balasubramanian, Manoochehr Shirzaei, et al.: Multi-Sensor Nutrient Mapping in the Chesapeake Bay	Vaskar Nepal, Mary C Fabrizio, Troy D. Tuckey, et al.: Mechanistic Habitat Modeling for Chesapeake Bay Fish and Shellfish: From Individual Physiology to Management Tool	Andrew Fitch, Catherine Krikstan: Building With, Not For: Developing ChesapeakeData Through Audience Engagement
3:45 PM	Robin Glas: When Is "Typical" Typical? Re-evaluating Hydrologic Base and Critical Periods for Chesapeake Bay Program Models	Breck Sullivan, Jon Harcum, Elgin Perry, et al.: Filling the Gaps: A space-time interpolation tool for Chesapeake Bay dissolved oxygen	Colin A. Hawes, Marjorie A.M. Friedrichs, Pierre St-Laurent, et al.: Modeling Juvenile Atlantic Croaker Habitat Suitability: Impacts of Future Climate and Nutrient Management	Alex Gunnerson: Integrating User Research Principles into Phase 7 Watershed Model Planning Tools
4:00 PM	Gopal Bhatt, Lewis Linker, Richard Tian, et al.: Initial assessment of future energy scenarios in Chesapeake airshed, watershed, and tidal bay nitrogen loads	Jeremy Testa, Amir Azarnivand, Damian Brady, et al.: The diversity of patterns and controls on oxygen depletion in Chesapeake Bay tributetse	Aaron Bever, Colin Hawes, Marjorie A.M. Friedrichs, et al.: Realtime Forecasting and Seasonal Summaries of Habitat for Fishes in Chesapeake Bay	<i>III. Stakeholder-Driven Targeting Applications</i>
				Rebecca K. Ransom, John Wolf: Geographic Targeting and Source Water Protection
4:15 PM	Garett Pignotti, Stephanie Nummer, Carlington Wallace: Modeling Water Quality Response of Urban Watersheds to Future Management Scenarios	Gabriel Duran, Jon Harcum, Elgin Perry, et al.: Utilizing Cluster Analysis to Assess Water Quality Trends in the Chesapeake Bay	Matthew Gray, Theresa Daven, William Nardin, et al.: Designing Oyster Restoration for Today's Bay: Leveraging Next-Generation Models to Maximize and Manage Ecosystem Services	Coral Howe: Toward a Capacity-Informed Targeting Framework for Chesapeake Bay Restoration
4:30 PM	Lewis C. Linker, Gopal Bhatt, Richard Tian, et al.: Estimated Impacts of Environmental Change on Water Quality in the Chesapeake Bay Beyond Midcentury	David Parrish, Carl Friedrichs, William Reay, et al.: Recent Shifts in Water Clarity Across Virginia's Lower Chesapeake Tributaries: Evidence from Four Decades of Kd Observations	Kenneth Rose, Mark Monaco, Thomas Ihde, et al.: CESR: moving forward with assessing living resource responses for prioritizing projects and restoration plan formulation	David Strong, John Wolf: Recognizing Organizational Service Areas to Strengthen Geospatial Targeting in Sentinel Landscapes
4:45 PM		Peichen Huang, Dante M.L. Horemans, Marjorie A.M. Friedrichs: The Importance of Mixotrophy for Phytoplankton Production and Nutrient Management		Michael Evans, David Saavedra: Automatically identifying wetland conservation and restoration opportunities with AI
5:00 PM				Rosemary Fanelli: Taking the pulse of Chesapeake Bay Watershed stream ecosystems: A synthesis of observational data for six indicators of freshwater stream health, 2018-2023
5:00 PM	Poster Session, Reception <i>Cash bar</i>			
7:00 PM				

DAY 3 (June 3)				
	Arundel A	Arundel B	Arundel C	Queen Anne Ballroom
	<p>Session 25 (Panel): Supporting the Next Generation: Career Development for Emerging Chesapeake Bay Scientists</p> <p>Gabriel Duran and Melissa Fagan</p>	<p>Session 23: Molecular Approaches for Chesapeake Bay Ecology and Biogeochemical Functions: from Genes to Insights</p> <p>Sairah Malkin and Isabel Baker</p>	<p>Session 5: Balancing agricultural and ecological goals of Chesapeake Bay restoration: Insights from interdisciplinary team science</p> <p>Lisa Wainger and Caitlin Grady</p>	<p>Session 21: General: Estuarine and Watershed Processes and Coupled Human-Natural Systems in Chesapeake Bay</p> <p>Raleigh Hood</p>
9:00 AM	<p>Panelists:</p> <p>1. Curtis Bennett Director of Equity & Community Engagement, National Aquarium</p> <p>2. Kyle Hinson Postdoctoral Research Fellow, Pacific Northwest Laboratory</p> <p>3. Julie Kiang Deputy Regional Director, Northeast, USGS</p>	<p>Feng Chen, Changfei He, Judith M. O'Neil, et al.: Chesapeake Bay metagenomes across broad organisms and spatio-temporal scales</p>	<p>Lisa A. Wainger, Dave Abler, Caitlin Grady: Co-developing Resilient Futures: Integrating Agricultural and Ecological Goals Through Interdisciplinary Scenario Modeling</p>	<p>Matthew Gray, Jeffrey Cornwell, Cindy Palinkas, et al.: Balancing Interests: improved understanding of shellfish aquaculture production and submerged aquatic vegetation through studies and synthesis</p>
9:15 AM		<p>Clara A. Fuchsman, Michael E. Kalinowski, Jacob A. Cram, et al.: Examining Metagenomics Across Particle Size and Redox Gradients in Chesapeake Bay</p>	<p>Raj Cibin, Jesna Ismail: Can dietary transition improve water quality in the Susquehanna River Basin?</p>	<p>Gulnihal Ozbay: Assessing Interactions Between Shellfish and Seagrass Beds and Macroalgae to Promote Sustainable Aquaculture in the Delaware Inland Bays</p>
9:30 AM		<p>Isabel Baker, Kaley Hantsoo, Anna Hildebrand, et al.: Microbial methane sinks are insufficient under continued eutrophication in the Chesapeake Bay</p>	<p>Caitlin Grady: Identifying Leverage Points for Nitrogen Reduction With a Production-Chain Approach</p>	<p>Elka T. Porter, Lawrence P. Sanford, Jeffrey C. Cornwell: Denitrification in the STURM Resuspension Mesocosms, Part 1: Particle Dynamics</p>
9:45 AM		<p>Michael E. Kalinowski, Clara A. Fuchsman, Carol Kim, et al.: The Bottom Water Oxygen Impacts on Downcore Sulfur Cycling in Chesapeake Bay Sediments Inferred using Metagenomics</p>	<p>Kristin Fisher, Matthew Houser: Leveraging natural and social science to maximize impact of agricultural stakeholder driven conservation in the Chesapeake Bay watershed.</p>	<p>Amy Hamilton, Catherine Wazniak: Hidden Neurotoxins in Cyanobacterial Harmful Algal Mats in Maryland</p>
10:00 AM		<p>Anand Gnanadesikan, Rui Jin: How does including heterotrophic bacteria in a biogeochemical model change the simulation of biogeochemical cycling?</p>	<p>Lora Harris, Cathlyn Davis, Sarah Garvey, et al.: Emerging Nitrogen Technology And Sustainability Challenges From Farm To Fork : An International, Transdisciplinary Course.</p>	<p>Qubin Qin, Xun Cai, Jian Shen, et al.: Quantifying Inter-Tributary Freshwater Connectivity and Its Implications for Flushing Time in Chesapeake Bay</p>
10:15 AM		<p>Anne Baldino, Dr. Tsvetan Bachvaroff: Deciphering the Functional Capacity of Chesapeake Bay Microbes through Long-Read Sequencing</p>		<p>Kehinde Bosikun, Joel Moore, Claire Welty: Quantifying urban versus natural contributions to stream chemistry in a Chesapeake Bay tributary using reactive transport modeling</p>
10:30 AM	Break (10:30-10:45)			

DAY 3 Continued

	Session 18 (Panel): <i>Increasing the Effectiveness and Impact of Technical Assistance Delivery to Low-Capacity Communities</i> Elizabeth Van Dolah and Michele Romolini	Session 23 Continued	Session 16: <i>Recent Modeling Advances in Compound Flooding, a 10-year Retrospective of Technological Innovations in Hydrodynamic Modeling and Monitoring Since 2016 Hurricane Matthew</i> J. Derek Loftis, Navid Tahvildari, Patrick Taylor	Session 21 Continued
10:45 AM	<p>Panelists:</p> <p>1. Elizabeth Van Dolah, Ayanna Healy, Joe Galarraga, et al.: Applying the Sustainable Livelihoods Framework to Support Resilience Planning in Pocomoke City, Maryland</p> <p>2. Conor Keitzer, Katie May Laumann, Sidney Anderson, et al.: Assessing and communicating climate resilience at the community-level in Maryland</p> <p>3. Jaline McPherson: Cultivating Canopies: Artistic Approaches to Community-Based Forestry</p> <p>4. Michele Romolini: Network Brokers to Facilitate Knowledge Coproduction in Community Forestry: Implementing Maryland's 5 Million Tree Initiative in Baltimore</p> <p>5. Emily Eisenhauer, Katie See: Technical Assistance to Brownfields Communities</p>	<p>Jenna Lee: Drivers of temporal co-occurrence patterns and microeukaryote community dynamics in a multispecies diatom bloom</p>	<p>Joseph Zhang: A 25-year reanalysis of compound flooding hazard in US east and Gulf coast</p>	<p>Harry Wang, Breanna Maldonado, Derek Loftis, et al.: Three-dimensional, non-tidal three-layered circulation in Baltimore Harbor – Insights into harbor-bay exchange</p>
11:00 AM		<p>Alex Flynn, Dr. Isabel Baker, Dr. William Schroer, et al.: Characterizing Microbial Communities of Baltimore Harbor's Pistachio Tide</p>	<p>HaoCheng Yu, Lars Nerger, Fei Ye, et al.: Elevation skill enhancement from an efficient ensemble-based assimilation method in a large application STOFs-3D-Atlantic</p>	<p>Rebecca Hale, Megan Stallard, Katrina Lohanet al.: Combining incubations, sensors, and molecular approaches to understand E. coli sources across the Anacostia Watershed</p>
11:15 AM		<p>William F. Schroer, Shaochen Fan, Sarah P. Preheim: Quantitative sequencing coupled with dilution experiments reveals taxa specific growth and mortality rates in aquatic microbial communities</p>	<p>Jon Derek Loftis: Hydrodynamic Modeling of Compound Flooding During 2016 Hurricane Matthew: Then, Now, and Storms Like It In The Future</p>	<p>Patrick Bitterman: Leveraging CHANS Science for Chesapeake Bay Restoration: Findings from a 2026 State of the Science Workshop</p>
11:30 AM		<p>Sairah Malkin, Emily Brownlee, Alex Burns, et al.: Weekly eDNA Monitoring Captures Multi-Trophic Seasonal Dynamics and Emerging Interannual Variability: 125 Weeks from the PhytoChop Observatory</p>	<p>Zanko Zandsalimi, Mehdi Taghizadeh, Majid Shafiee-Jood, et al.: Explicit Interdomain Learning of Rainfall-Tide Coupling for Compound Flood Forecasting Using Graph Neural Networks</p>	<p>Amalia Deloney: The Amphibious Council: Experiential Futures and More-Than-Human Governance in the Baltimore Harbor</p>
11:45 AM		<p>Katrina M Pagenkopp Lohan, Emma M. Palmer, Calli Wise, et al.: Hidden Connections: Uncovering Complex Trophic Networks Through DNA Metabarcoding</p>	<p>Hyungju Yoo, Y. Joseph Zhang, Zhengui Wang, et al.: Enhancing Thermal Process Representation in Intertidal Areas through Soil-Air-Water Heat Exchange: A Case Study of Charleston Harbor</p>	<p>Patrick Bitterman, Jason Yoo: A Novel Integrated Framework for Simulating BMP Prioritization and Governance Dynamics in the Chesapeake Bay Watershed</p>
12:00 PM			<p>Jon Derek Loftis, Yash Kishor Sanap, Sridhar Katragadda, et al.: High-Precision River Stage Estimation via Passive Video Imagery Using Deep Learning and Image Segmentation</p>	<p>Raj Cibin, Kalra Marali: Impacts of a warming climate and increased land use changes on crop productivity and water quality: a case study in the Susquehanna River Basin</p>
12:15 PM			<p>Jon Derek Loftis: Spatial Evaluation of Flood Resilience Solutions Combining Real Time Water Level Sensors, Hydrodynamic Modeling, and High-Resolution Aerial Inundation Observations</p>	<p>Farshad Hesamfar, Teresa Culver: Assessing the social footprint of coastal groundwater variability under CMIP6 scenarios in Virginia's Eastern Shore</p>
	Adjourn			