

Tentative Program Schedule (v. 31Jan2025)

color code:

Technical Session	Workshop
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Tuesday, May 20

8:30a - 10:00a	24. Hydrogen Production and Storage: Engineering Sustainable Solutions for Human-Environmental Systems	26. Managing the Financial Risk of Environmental Extremes	33. Advancing Life Cycle Assessment via Integration with Machine Learning: Challenges and Opportunities	9a. Emerging Waterborne Viruses: Challenges in Water and Wastewater Treatment	4a. One Water Solution to Infrastructure Challenges in Rural, Underserved U.S. Communities	11a. Integrated Multi-omics for Environmental Engineering and Science: Opportunities and Challenges	16a. Advanced Reactive Materials and Interface Engineering for Pollution Mitigation, Disinfection, and Sustainable Resource Recovery	32a. Machine Learning in Environmental Science, Health, and Engineering	35a. Advances in PFAS Treatment and Destruction
	Break	Break	Break	Break	Break	Break	Break	Break	Break
10:15a - 11:45a	15. Lessons Learned from Studying Lead in U.S. School Drinking Water: Compiling Best Practices on Sampling, Testing, and Remediation	23. Equitable Solutions to Air, Energy, and Human Health	17. Dumping our Data: Challenges Faced in Municipal Solid Waste Data Management and Implications to Public Policy and Health	9b. Emerging Waterborne Viruses: Challenges in Water and Wastewater Treatment	4b. One Water Solution to Infrastructure Challenges in Rural, Underserved U.S. Communities	11b. Integrated Multi-omics for Environmental Engineering and Science: Opportunities and Challenges	16b. Advanced Reactive Materials and Interface Engineering for Pollution Mitigation, Disinfection, and Sustainable Resource Recovery	32b. Machine Learning in Environmental Science, Health, and Engineering	35b. Advances in PFAS Treatment and Destruction

Lunch

1:00p - 3:45p	Career Paths in Environmental Engineering & Science after Graduate School	Preparing for the NSF CAREER Proposal	Environmental Engineering Program Leaders Meeting	Community Based Research and Teaching Project Development and Evaluation	CSU AGEP Alliance for Diversity and Strengths of STEM Faculty: Applying culturally informed, strengths-based attitudes and practices in faculty work	Reviving your Teaching Practice: AI, SoTL and CBL approaches to enhancing student engagement and creating inclusive classrooms	Research Translation to Public Health Action: Case Studies in Wastewater Based Surveillance	CAPEES Panel Discussion on International Collaboration
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4:00p - 5:30p	Plenary I and AEESP Awards	
5:30p - 8:00p	Student & Postdoc Social Mixer	Faculty/Professionals Social Mixer

Wednesday, May 21

8:30a - 10:30a	6a. Innovation in Environmental Engineering and Science Education through Emerging Technologies and Experiential Learning	20a. Climate Change Solutions	28a. Chemical and Biological Contaminant Oxidation and Reduction Processes	30. Advances in UV Treatment of Air, Water and Surfaces	31. Next-Generation Water Management: Mainstreaming Anaerobic Wastewater Treatment and Sustainable Wastewater Resource Recovery	12. Microbiology and Chemistry of Indoor Environments	22. Sustainable Agriculture: Meeting a Nexus of Sustainable Development Goals	25. Creating Circular Phosphorus and Nitrogen Systems
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Break

11:00a - 12noon	Plenary II
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Lunch

1:00p - 3:00p	AEESP Award Ceremony							
3:00p - 5:30p	6b. Innovation in Environmental Engineering and Science Education through Emerging Technologies and Experiential Learning	20b. Climate Change Solutions	28b. Chemical and Biological Contaminant Oxidation and Reduction Processes	36. PFAS in Water and Wastewater Treatment Residuals: Technology Hurdles and Solutions	14. Microbial Dynamics of the Built Environment: Designing for Health and Sustainability	18. Data-Driven Solutions to Emerging Issues in Solid Waste Management	Empowering AEESP Members to Engage in Public Policy	An Introduction to Machine Learning Tools for Solving Environmental Challenges
6:00p - 9:00p	Party on the Plaza!							

Thursday, May 22

8:30a - 10:30a	19a. Resource Recovery from Waste Streams Towards a Circular Economy	29a. Electrified Approaches at the Water-Energy-Environment Nexus	7. Mobilizing Our Universities for Education on Energy Use, Carbon Emissions, and Climate Change	3. Leveraging Public Datasets for Water and Energy Information Across Sectors and Spatial and Temporal Scales	5. Community-based Air Quality Research: Technical Tools, Communication Strategies, Engagement Approaches, and Public Policy Implications	13. Biofilm-Associated Risks in the Built Environment	21. Wastewater GHG Emissions and Decarbonization	27. Environmental Implications of Renewable Energy Infrastructure	37. New Insights into PFAS Exposure, Mixture Effects, and Control Strategies
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Break

11:00a - 12noon	Plenary III
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Lunch

1:00p - 3:00p	Poster Session II									
3:00p - 5:30p	19b. Resource Recovery from Waste Streams Towards a Circular Economy	29b. Electrified Approaches at the Water-Energy-Environment Nexus	10. Preventing Good Microbes from Going Bad: Environmental Biotechnology Applications and Management in the Era of Synthetic Biology	34. Modeling Contaminant Fate and Transport in Natural and Engineered Systems	Charting the Future for Environmental Engineering and Science: Research, Reaching, Practice, Communications	Adding Sustainability Content to Engineering Courses: From Fundamental Principles to Public Sector Applications	Early Career Faculty Survival Guide: Tips and Best Practices for Navigating the Tenure Process	Bridging Research and Practice: Strategies for Enhancing Stakeholder Communication for Data-driven Management of PFAS Impacts		
5:30p - 9:00p	Night Out in Durham Reception									