

SCIENCE · POLICY · PRACTICE

DETAILED DAILY SCHEDULE



Clean water. Global health. Powered by science.

2025 Schedule at a Glance



FRIDAY CONFERENCE CENTER, CHAPEL HILL, NORTH CAROLINA

Note: Early check-in begins Sunday, October 26 from 2-5pm Eastern Time (ET) at the William and Ida Friday Center.

FRI, OCT. 31	CHECK-IN & BREAKFAST	Networking MeetingsWorking Group Meetings	BREAK: FIELD TRIPS**	 Networking Meetings Working Group Meetings 	LUNCH					HALLOWEEN ON	Optional (not a Conference-sponsored event)
THU, OCT. 30		MORNING SIDE EVENTS	NETWORKING BREAK	PLENARY 4 Measuring Climate Resilience in WASH: From Indicators to Impact	LUNCH SPECIAL SESSIONS 1. Josh's Water Jobs 2. Soft Power, Safe Water 3. Tech Showcase		SPOTLIGHT SPEAKER SERIES & SIDE EVENTS				
WED, OCT. 29	& BREAKFAST	MORNING SIDE EVENTS	NETWORKING BREAK	PLENARY 3 The Emerging Global Public Health Emergency: Drivers, Diseases, and Diplomacy, What Role for WASH?	LUNCH SPECIAL SESSIONS 1. Josh's Water Jobs 2. Soft Power, Safe Water 3. Tech Showcase		SPOTLIGHT SPEAKER SERIES & SIDE EVENTS	VORKING BREAK	SENTATIONS	SENTATIONS	CONFERENCE DINNER 6:00p
TUE, OCT. 28	REGISTRATION & BREAKFAST	MORNING SIDE EVENTS	NETWORKING BREAK	PLENARY 2 The Role of the State	SPECIAL SESSIONS 1. Josh's Water Jobs 2. Beyond the Post-Mortem: From Toilet Talk to Tactical	3. Tech Showcase	SPOTLIGHT SPEAKER SERIES & SIDE EVENTS	15-MINUTE NETWORKING BREAK	VERBAL PRESENTATIONS	POSTER PRESENTATIONS	AY YOUNG PERFORMANCE 7:00p
MON, OCT. 27		MORNING SIDE EVENTS	NETWORKING BREAK	PLENARY 1 Oh Shiti, Now What?		LUNCH	SIDE EVENTS				
START	7:30a	8:30a	10:00a	10:30а	12:00p	12:30p	1:30p	3:00p	3:15p	4:30p	5:45p

^{**}Friday Field trips: Jones Ferry Road Water Treatment Plant, Mason Farm Wastewater Treatment Plant, Falls Lake Dam

Detailed schedule: Monday, October 27

8:30-10:00 AM -	SIDE EVENTS		
DOGWOOD	Exploring the impact of water and sanitation challenges in Alabama's Black Belt through community voices – University of North Carolina at Chapel Hill, Auburn Rural Studio, and Hale County, Alabama community members		
REDBUD	Beyond Basic: Harmonizing Advanced Indicators for Global WASH in Schools Monitoring – UNICEF, WHO, GIZ, the Global WinS Network, SPLASH, Helvetas, Swiss Water and Sanitation Consortium, Stanford, Northwestern, London School of Hygiene and Tropical Medicine		
SUNFLOWER	The Additionality of Climate Resilient Sanitation in National Programs - UNICEF, WHO, WaterAid, WSUP		
WINDFLOWER	Menstrual Friendly Public Toilets: What Does it Take to Get Started? - Tearfund, Living Water International, State of Life, World Vision International		
BELLFLOWER	Will private companies invest in solarizing rural piped water systems? - Winrock International		
AZALEA	Beyond the Post-mortem: Charting USAID's Technical Trajectory - Former USAID		
10:00-10:30 AM	- 30-MINUTE NETWORKING BREAK		
10:30 AM - 12:00	PM - PLENARY SESSION		
GRUMMAN AUDITORIUM	OPENING PLENARY SESSION: OH SH!T!, NOW WHAT? - Panelists: Raj Kumar, Jeff Goldberg, Jane Nabunnya, Joel Kolker, Bruce Gordon, Barbara Evans; Moderators: Joe Brown, Clarissa Brocklehurst		
12:30 - 1:30 PM -	LUNCH		
TRILLIUM DINING ROOM	Lunch for all participants is served. Please ensure that you are wearing your lanyard when checking in for lunch. *Meals are prepared using halal methods, with a variety of options available to meet dietary needs.		
1:30 - 3:00 PM - 9	SPOTLIGHT SERIES		
GRUMMAN AUDITORIUM	Spotlight Speaker: Ashok K. K. Meena. Secretary, Department of Drinking Water & Sanitation; Ministry of Jal Shakti, Government of India.		
1:30 - 3:00 PM - 9	SIDE EVENTS		
DOGWOOD	Improving WASH Education: Successes, Challenges, and Future Opportunities for WASH in the Classroom. UNICEF, WHO, Emory University, World Bank, WaterAid		
REDBUD	Can technical innovation really increase handpump functionality? Experiences from Uganda, Malawi, and Zambia - Design Outreach, Living Water International, WaterAid		

SUNFLOWER	Understanding the Pathogen Flows Associated with Sanitation in Urban Communities and Health Care Facilities - Uganda Ministry of Water and Environment, Center for Global Safe WASH, Emory University, WaterAid; Tanga Water, Ghana Ministry of Local Government, PACE, Kampala Capital City Authority, Awutu Senya Municipal
	Assembly, icddr,b, Senegal Ministry of Sanitation, TREND, Makerere University School of Public Health, Korley Klottey Metropolitan Authority, UNC, University of Zambia, Zambia Institute for Environmental Health; Accra Metropolitan Authority, APHRC, Weiga Gdawe Municipal Assembly, UDSM, Accra School of Hygiene, CSIR
WINDFLOWER	Local Solutions for Global Impact: Strengthening Menstrual Health through Local Access Models - UNICEF, WaterAid, Days for Girls International (DfGI), Menstrual Health Action for Impact (MHAi), iDE
BELLFLOWER	From Inception to Exit: How WASH Operation and Maintenance Systems Evolve and Strengthen - Stanford University, Splash International, Boston University, Sanitation and Health Rights in India (SHRI)
AZALEA	Engaging local faith actors to accelerate progress to meet SDG6 - multi-country study and case stories - Tearfund, Living Water International, Water Mission, World Vision

3:00 - 3:15 PM - NETWORKING BREAK

3:15 - 4:30 PM - VERBAL PRESENTATIONS

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Sanitation

- Automated Classification of Sewage Infrastructure Vulnerabilities in Urban
 Salvador, Brazil Christine Stauber, Georgia State University
- Breaking the hog lagoon cycle: Biochar as an effective and low-cost intervention for per- and polyfluoroalkyl substances (PFAS), antibiotics, and antimicrobial resistant genes (AMR) pollution -Ellen Marie, The University of North Carolina at Chapel Hill, Gillings School of Global Public Health
- Enhancing black soldier fly larvae density for scalable swine waste treatment and environmental health
 protection Zhihan Sun, The University of North Carolina at Chapel Hill, Gillings School of Global Public Health
- A Simple, Rapid Field Culture Test to Enumerate Pathogenic Vibrio cholerae
 Bacteria in Drinking Water Mark Sobsey, University of North Carolina

REDBUD

East & Southern African WaSH

- Evaluating drinking water quality in the rural areas of East Africa within the
 WHO water safety framework Adrienne Lane, Water For Good
- Assessing Household Water Insecurity Among Pastoralist Communities in Northern Kenya. - Chamia Mutuku, Millenium Water Alliance
- What's in your network? A systematic supply chain mapping of LMIC drinking water infrastructure – Timothy Purvis, The Water Institute at UNC
- Measuring the role of WASH in healthcare workers' well-being: Survey pilot and validation study - Lucy Tantum, The Water Institute at UNC

SUNFLOWER Incentivizing Small Local Water Providers to Improve Water Quality in Low-Income Areas of Nairobi, Kenya - Haleemah Qureshi, Aquaya Urban WaSH A Cross-Sectional Study on Water and Sanitation Resilience of Urban Slum in Dhaka City, Bangladesh - MD Toriqul Islam, NGO Forum for Public Health Targeted pathogen and AMR analyses reveal microbial hazards in a maternal and child hospital in urban La Paz, Bolivia - Lindsay Saber, University of North Carolina at Chapel Hill Compact BioSand Filter Prototype Performance in Cambodia: Field Comparison with a Full-Sized Plastic BSF - Ellen Brisley, University of British Columbia & Clear Cambodia WINDFLOWER Better Knowledge, Better Facilities, Same Behavior: Findings from a Cluster-Randomized Trial of WASH-in-Schools Interventions - Gracie Hornsby, Stanford University **Behavior Change** Long-Term Evaluation of a Backyard Poultry Management and Hygiene Intervention in Rural Bangladesh - Elizabeth Thomas, Johns Hopkins Bloomberg School of Public Health Cleaning Drinking Water Storage Containers - A Systematic Review of Practices and Water Quality - Josephine Osroagbo, Lehigh University Moving Beyond Rhetoric: Effectively Engaging Governments in WASH Co-Financing - Evidence from a Positive Deviance Study - Christopher Nicoletti, Splash **BELL FLOWER/** Predictors of Latrine Subsidy Uptake: Gender, Poverty, and Household MT LAUREL **Dynamics in Rural Ethiopia** - Crystal Huang, IDinsight Economics, Rethinking how national drinking water safety is evaluated in the United Finance & Policy States - Katherine Alfredo, University of South Florida Willingness to Invest in Hand Hygiene Enabling Technologies: A Purchasing Experiment in Lusaka, Zambia - Katherine Davies, London School of Hygiene & Tropical Medicine Electoral Incentives and Trust in Water Utilities as Drivers of Local Government Participation in Performance-Based Financing Program: Evidence from Indonesia - Silvia Landa, University of North Carolina at Chapel Hill **AZALEA** Associations between animal exposure and child health outcomes in rural Bangladeshi households - Sumaiya Tazin, NC State University Rural WaSH Positive and Negative Resilience Strategies for Energy, Water, and Nutrition amid Kenyan Droughts and Floods - Emily Ogutu, Emory University Drinking Water Sources, Contaminants, and Salivary Antibody Responses: A Prospective Cohort Study in Central Appalachia - Alasdair Cohen, Virginia Tech

Insights from Rural Practitioners: A Thematic Analysis of Implementation Challenges

in Solar Powered Water Systems - Tess Brodie, Global Water Center

- 1. Meta-Analysis of Holistic WASH Programs on Access, Behavior, and Diarrhea in East Africa Adrienne Lane, Water for Good
- 2. Transforming Schools Through WASH: Integrating Hygiene, Sustainability, and Climate

Action - Priya Kothari, Centre for Youth Development & Activities (CYDA)

- 3. A tale of two services: Why India's school lunch program succeeds where WASH services fail Anvesh Badamikar, Stanford University
- 4. The Hidden Importance of Waterpans: Mitigation of Human Health Risks using a One

Health Approach - Claire Furlong, IHE Delft Institute for Water Education

Impacts of Rainfall and Chlorination on Contamination at Groundwater Sources in Kenya,

Sierra Leone, and Uganda - Catherine McManus, The Water Project

- 6. Trachoma in rural Ethiopia: water scarcity and poor hygiene harm health in Yokass Village Dr. Daniel Gelan Arsedi, UNICEF
- 7. A One Health Examination of Backyard Poultry Operations Emily Bailey, Campbell University
- 8. Assessing Multidimensional WASH Inequalities in Uganda: Impacts, Drivers, and Pathways to Equity Comfort Hajra Mukasa, WaterAid Uganda
- 9. Invisible Hands, Illegal Dumps: Sanitation Work, Informality, and the Legal Paradox in Alleppey town and its peri-urban areas Hariprasad V M, Indian Institute of Technology Bombay (IIT Bombay)
- 10. Our records show you have access to safe water, but do you? Katherine Alfredo, University of South Florida
- 11. Contextual approaches for hard-to-reach areas communities in Ethiopia Kelly Alexander, CARE
- 12. Toward Thriving Communities: What Safe Water Alone Can't Achieve Kimberly Gerken, Water Mission International
- 13. Evaluating new and cost-effective wastewater-surveillance sampling methods to address pathogen signal loss in rural sewersheds Marianne Beaulieu, Virginia Tech
- 14. Cholera Trends and Environmental Risks: Insights from Lake Kivu Bordering Areas in Western Rwanda Uwimana Uwimana Martha WaterAid Rwanda
- 15. How Risky Are Domestic Shallow Wells to Public Users? The Evidence from Peri-Urban Communities of Tanzania Tula Ngasala, Michigan State University
- Surface water quality impacts from non-permitted poultry operations in the Cape Fear River watershed - Ziad Al-Ghazawi, Jordan University of Science and Technology
- 17. Applications of an in situ E. coli contamination sensor for drinking waters in east Africa Whitney Knopp, University of Colorado Boulder
- 18. Interaction between Environmental and Human Health in North Jordan Valley Ziad Al-Ghazawi, Jordan University of Science and Technology
- 19. A Systematic Analysis of Toxic Metals in Ghana's Drinking Water Systems Sarah Hwang, The Water Institute at UNC
- 20. Rapid Market Formation in Urban Madagascar: Evidence from the USAID Dio Sera Sanitation Project Elise Mann, iDE Global

Detailed schedule: Tuesday, October 28

7:30 - 8:30 AM - REGISTRATION & BREAKFAST			
8:30 - 10:00 AM - SIDE	EVENTS		
DOGWOOD	U.S. Drinking Water & Health: Outbreaks, Trends, Infrastructure, and Health - CDC's Division of Foodborne, Waterborne, and Environmental Diseases		
REDBUD	Climate, hygiene, and health: developing a shared research agenda for future adaptations – London School of Hygiene and Tropical Medicine, Reckitt Global Hygiene Institute, Leeds University, UNICF, WHO, WaterAID		
SUNFLOWER	Global Progress on WASH in Healthcare Facilities: Implementation of WASH FIT and the Practical Steps - UNICEF, WHO, PATH, Swiss Water and Sanitation Consortium, Save the Children		
WINDFLOWER	Strengthening Menstrual Health Monitoring: Lessons from Pilot Countries and Pathways to Global Alignment - Global MHH Monitoring Group, JMP UNICEF, the Gates Foundation		
BELLFLOWER	The ONE-WASH Ethiopia Initiative: Advancing Universal Access to Water, Sanitation, and Hygiene – Ethiopian Ministries of Water, Health, Education, and Finance		
AZALEA	Beyond the Postmortem: Blueprints for a Better Bureaucracy - Former USAID		
10:00 - 10:30 AM - 30-M	MINUTE NETWORKING BREAK		
10:30 AM - 12:00 PM - F	PLENARY SESSION		
GRUMMAN AUDITORIUM	THE ROLE OF THE STATE - Panelists: Ashok Meena, Tanvir Ahmed, Gustavo Saltiel, Dr. Mary Eyram Ashiyo, Sitali Muyatwa; Moderator: Yogita Mumssen		
12:00 - 1:30 PM - LUNC	1		
TRILLIUM DINING ROOM	Lunch for all participants is served. Please ensure that you are wearing your lanyard when checking in for lunch. Alumni Lunch - In recognition and celebration of alumni of the UNC Environmental Science and Engineering Department, special seating for alumni will be available.		
12:15 - 1:15 PM - LUNCH	SESSIONS		
SUNFLOWER	Technology & Innovation Showcase		
MAGNOLIA	CV Pointers for WASH Careers - Josh Newton, Josh's Water Jobs		
REDBUD	Beyond the Post-Mortem: From Toilet Talk to Tactical Influence - Former USAID		
1:30 - 3:00 PM - SPOTLI	GHT SERIES		
GRUMMAN AUDITORIUM	Spotlight Speaker: Gary White - CEO & Co-founder, Water.org, WaterEquity & WaterConnect		

DOGWOOD	Connecting to serve: Understanding the opportunities and limitations of utilities: a case example from North Carolina - UNC School of Government Environmental Finance Center, NC Division of Water Infrastructure, NC Rural Water Association
REDBUD	Leveraging Data to Address Climate, Water, and Health Challenges Globally - Millennium Water Alliance, University of Colorado Boulder, Penn State University, mWater, Helvetas, PATH, The Aquaya Institute
SUNFLOWER	Unified for universal coverage: Faith-based organizations as allies for WASH in healthcare facilities - Catholic Relief Services, African Christian Health Associations Platform, Doctors with Africa - CUAMM, The Vatican's Dicastery for Promoting Integral Human Development, The Water Mission, World Vision International
WINDFLOWER	Menstrual Hygiene and Health (MMH) Education and Empowering Dignity: Tanzania's Journey in MHH - Auburn University, Indiana University, University of Michigan
BELLFLOWER	Tap In: Building sector capacity for implementing and sustaining inline chlorination programs globally – Mangrove Water, Givewell, Uduma, Self Help Africa, Cova, The World Bank, University of California, Berkeley
AZALEA	Data you can trust: Verified results in rural drinking water services - Uptime Global, WHO, Ugandan Water Project, Cova, University of Oxford
	RBAL PRESENTATIONS
DOGWOOD	 Graduating Latrine Entrepreneurs to Sustain Market-Based Sanitation: Insights
Sanitation	from iDE Bangladesh's SanMarkS II Project - Elise Mann, iDE Bangladesh Household and environmental factors associated with detecting cefotaxime-resistant Escherichia coli in soil in peri-urban Malawi - Emma Budden, North Carolina State University
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Sanitation REDBUD Rural WaSH	 from iDE Bangladesh's SanMarkS II Project - Elise Mann, iDE Bangladesh Household and environmental factors associated with detecting cefotaxime-resistant Escherichia coli in soil in peri-urban Malawi - Emma Budden, North Carolina State University Association Between Sanitation Type and Soil Contamination with Culturable E. coli in a Rural Alabama Community - Olivia Harmon, The University of North Carolina at Chapel Hill Reducing in-home water use and loss to improve Onsite Sanitation System (OSS) function in low-income
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REDBUD	 from iDE Bangladesh's SanMarkS II Project - Elise Mann, iDE Bangladesh Household and environmental factors associated with detecting cefotaxime-resistant Escherichia coli in soil in peri-urban Malawi - Emma Budden, North Carolina State University Association Between Sanitation Type and Soil Contamination with Culturable E. coli in a Rural Alabama Community - Olivia Harmon, The University of North Carolina at Chapel Hill Reducing in-home water use and loss to improve Onsite Sanitation System (OSS) function in low-income rural communities: Insights from a pilot program from the Blackbelt, Alabama - Andrea Stowell, LIXIL Cor Financial sustainability of rural water points: is committee management sufficient? - Catherine McManus, The Water Project Household-Level Environmental Risk Factors for Animal and Human Fecal Contamination

SUNFLOWER	Supportive supervision enables collaboration and enhances hygiene standards at public
WaSH Intervention	toilets—Nakuru, Kenya - Pallavi Kache, US Centers for Disease Control and Prevention
	 Household coping costs and adaptive management of intermittent water systems:
	A scoping review - Lauren Broyles, The Pennsylvania State University
	Quantifying the Human Energy Cost of Water Fetching in Eastern
	Uganda - Camila Van Oost, Stanford University
	Estimating the effectiveness of a household water filter on household water and household food
	insecurity among Maasai pastoralists in Kenya - Lauren Broyles, The Pennsylvania State University
WINDFLOWER	Association Between Household WASH Facilities and Menstrual Hygiene Management Among Filipino
Menstrual Hygiene	Women of Reproductive Age - Crystal Amiel Estrada, College of Public Health, University of the Philippines
and Women's Health	The Missing Link: Evaluating the Role of Mothers in Menstrual Health
	Interventions in Ethiopia - Emily Cruz, Splash International
	Effect of Participatory Design for Urban Informal Upgrading on Women's Sanitation-
	Related Empowerment in Fiji - Allison Salinger, Emory University
	• Women's and Men's Time Use in Rural Kenya: A Cross-Sectional Study - Sheela Sinharoy, Emory Universit
BELLFLOWER	Evaluation of a Fluorescence-Based Sensor for Simultaneous Measurement of E.coli
Monitoring & Evaluation	and Turbidity in Water - Mahboobeh Kasraee, University of Illinois Chicago
	 A Systematic Review of Toxic Metals Exposures through Drinking Water in
	East Africa - Clay Burgess, AECOM/The Water Institute at UNC
	Improving water quality data by optimizing CompactDry ECO
	plate use - Charlotte Smart, Fort Lewis College
	Balancing precision and sample size: Comparing low vs. high-precision methods for measuring
	E.coli in drinking water in low-resource settings - Andrea Sosa-Moreno, University of Michigan
AZALEA	Environmental monitoring of community health in urban non-sewered catchments in
Treatment Solutions	Kampala - Seju Kang Swiss Federal Institute of Aquatic Science and Technology (Eawag)
	Evaluation of the WASHmobile Chlorine mHealth and E-Voucher Program to Reduce
	Diarrhea Outbreaks in Congo - Christine Marie George, Johns Hopkins University
	 Evaluating a Scalable, Community-Centered Subscription Model for Point-of-
	Use Water Treatment in Texas Colonias - Marcio Botto, Vida Water
	 Functionality of Arsenic-Iron Removal Plants in Water-Challenged Rural Areas of
	Bangladesh - Tanvir Ahmed, Bangladesh University of Engineering and Technology

- Toilets for All? Exploring the availability, accessibility, and characteristics of non-household sanitation in Atlanta, Georgia - April Ballard, Georgia State University
- 2. Rural Subsewershed Wastewater-based Surveillance for Multiple Pathogens and Wastewater-based Epidemiology for COVID-19, Norovirus, and Rotavirus Amanda Darling, EPA (US Environmental Protection Agency) / Virginia Tech
- 3. Evaluating the adaptation benefits of smallholder solar irrigation systems in Kenya Ferran Vega-Carol, Duke University
- 4. **Citywide inclusive Sanitation for Equitable Urban Development in Pakistan** Aziz Ahmad Integrated Regional Support Program

- 5. Investing in women members of WUSCs to empower in decision making role in WASH intervention -
 - Chhabi Lal Goudel, Federation of Drinking Water and Sanitation (FEDWASAN), Nepal
- 6. Improving Sanitation Subsidy Targeting: Comparing Methods for Identifying Vulnerable
 - Households in Rural Ethiopia Crystal Huang, IDinsight
- Measuring Water Quality from an Innovative Rainwater Harvesting System in Santiago,
 - **Dominican Republic** Christine Stauber, Georgia State University
- 8. Assessing health and dignity challenges, and evaluating the financial scheme's impact on sanitation workers' healthcare in Bangladesh Md Tahmidul Islam, WaterAid Bangladesh
- Animal waste management with household biodigesters and exposures to antibiotic resistance and zoonotic pathogens in Nepal - Heather Amato, University of Maryland
- 10. Animal Exposure is Associated with Diarrhea and Growth in Democratic Republic of the Congo (PICHA7)
 - Jean-Claude Bisimwa Rusanga, Université Catholique de Bukavu Johns Hopkins University
- 11. It's coming from inside the house: Does PFAS leach from drinking water infrastructure? Kathleen Hohweiler, Virginia Tech
- 12. Breaking Barriers: How Market-Based Sanitation is Transforming WASH Access in Northern Mozambique's Forgotten Towns Elise Mann, iDE Global
- 13. Situational analysis on urban water production through the Sustainable Cities Project in Northern Ghana Daniel Sarpong, Accra Technical University
- 14. Circular Economy for Sustainable Fecal Sludge Management in Rural India Samrat Gupta, Water For People
- 15. Impacts of a Novel Water Quality Assurance Fund Intervention in Rural Ghana: A Steppedwedge Randomized Controlled Trial - Valerie Bauza, The Aquaya Institute
- 16. Tracking sexually transmitted infections in the Detroit area by molecular analysis of environmental sample Liang Zhao, Michigan State University
- Beyond Water User Committees: The Overlooked Role of Landowners in Spring Management in Western Kenya - Allison Gregory, The Water Project
- 18. Health Risks Assessment on the Binational Pacific Ocean Coastline Alhelí Calderón, Villarreal, California State University San Marcos
- 19. Effects of school menstrual hygiene management, water, sanitation, and hygiene interventions on girls' empowerment, health, and educational outcomes: Lasta District, Amhara Regional State, Ethiopia Fisseha Andargie
- 20. Identifying Sources and Environmental Drivers of Fecal Contamination in an Urban Creek Using
 Digital PCR and Explainable AI Jianyong Wu, The Ohio State University

7:00 - 8:00 PM - AY YOUNG PERFORMANCE

CAROLINA UNION AUDITORIUM

A dynamic musical performance by AY Young, a United Nations Young Leader for the SDGs, a renewable energy entrepreneur, and a Billboard-charting artist. AY's Battery Tour is a global initiative using music to mobilize action on sustainability. Free, but ticket required. Register to reserve a ticket at Conference check-in.

Detailed schedule: Wednesday, October 29

3:30 - 10:00 AM - SIDE EVENTS			
DOGWOOD	What now? Environmental justice and WASH at the crossroads in high-income countries - The Water Institute at UNC, Auburn University, Louisiana State University,		
	Indiana University, University of Alabama, University of Twente, Virginia Tech		
REDBUD	Five years to go: latest JMP trend and inequalities data - WHO/UNICEF Joint		
	Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP)		
SUNFLOWER	What Works for WASH in healthcare facilities? Exploring sustainable management		
	models - UNC, World Bank, WASH in Healthcare Facilities Community of Practice		
WINDFLOWER	Driving onsite system affordability in rural settings through innovative right		
	sizing approaches - LIXIL, IAPMO, WAI, University of Alabama		
BELLFLOWER	Targeting WASH Subsidies: "An honest dialogue about effectiveness, feasibility, and competing		
	priorities" - Aquaya, Safe Water Network, Conrad N. Hilton Foundation, SOIL, Ghana Water Company		
AZALEA	Beyond the Postmortem: Ripple Effects of USAID's WASH Learning Approach - Former USAID		
10:00-10:30 AM - 30	P-MINUTE NETWORKING BREAK		
10:30 AM-12:00 PM	- PLENARY SESSION		
GRUMMAN	THE EMERGING GLOBAL PUBLIC HEALTH EMERGENCY - DRIVERS, DISEASES, AND DIPLOMACY:		
AUDITORIUM	WHAT ROLE FOR WASH? - Panelists: Dr Ilesh Jani, Bruce Gordon, Richard Allen, Karin Gallandat,		
	Yankho Mataya, Clare Chase, Asfaw Dingamo Kame; Moderator: Oliver Cumming		
12:00 - 1:20 PM - I I II	NCH & LUNCH SESSIONS		
12.00 - 1.30 FW - LO			
TRILLIUM	Lunch for all participants is served. Please ensure that you are		
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TRILLIUM DINING ROOM	wearing your lanyard when checking in for lunch.		
TRILLIUM	wearing your lanyard when checking in for lunch.		
TRILLIUM DINING ROOM 12:15 - 1:15 PM - LUN	wearing your lanyard when checking in for lunch. CH SESSIONS		
TRILLIUM DINING ROOM 12:15 – 1:15 PM – LUN SUNFLOWER	wearing your lanyard when checking in for lunch. CH SESSIONS Technology & Innovation Showcase		

1:30 - 3:00 PM - SPOTLIGHT SERIES **GRUMMAN** Spotlight Speakers: Alabama Mayor Patrick Braxton, Susan Cockrell, Dr. Kristi Pullen Fedinick **AUDITORIUM** Moderator: Tanvi Nagpal 1:30 - 3:00 PM - SIDE EVENTS **DOGWOOD** Closing the Water Access Gap: How Policy Shapes WASH Access in **High-Income Countries** — DigDeep, Vessel, IAPMO **REDBUD** Doing more with less: Digitalization and data-driven management of water services at scale — mWater, DINEPA, World Vision, UNICEF, Catholic Relief Services **SUNFLOWER** What's next in WASH in healthcare facilities? (And where do we go from here?) -UNICEF, UNC, WHO, WASH in Healthcare Facilities Community of Practice **WINDFLOWER** Promoting Use of Personal Protective Equipment through Iterative Co-Design of Training with Sanitation Workers - Sanergy-Fresh Life, CDC, CAWST **BELLFLOWER** Beyond the Build: Operating and Financing Reliable Water & Sanitation Services — Saha Global, FreshLife, Uduma **AZALEA** Hygiene integration into various public health programmes and policies — WaterAid, UNICEF, SightSavers, IFRC, Government of Nepal, Ministry of Health, Government of Punjab, PRMSC 3:00 - 3:15 PM - 15-MINUTE NETWORKING BREAK 3:15 - 4:30 PM - VERBAL PRESENTATIONS **DOGWOOD** Formative Research for Adapting the CHoBI7 mHealth Program for Scalable Delivery in Rural Bangladesh (WASHmobile program) — Fatema Zohura, Research, Training and Management (RTM) International **Health Care Facilities** Integrating WASH Interventions Across Schools, Healthcare Facilities, and Communities: Evidence from Northern Uganda — Hajra Mukasa Comfort, WaterAid Uganda Health and non-health impacts of WASH in healthcare facilities: Systematic scoping review - Lucy Tantum, The Water Institute at UNC, University of North Carolina-Chapel Hill Modeling health risks from untreated hospital wastewater in Dhaka: A systems-based approach to sanitation planning - Nuhu Amin, University of Technology Sydney **REDBUD** • Willingness-to-pay and demand for sanitation products in rural northern Ghana: Impacts of seasonality and methodology — Valerie Bauza, The Aquaya Institute Sanitation Optimizing swine waste bioconversion with black soldier fly to protect public health in North Carolina — Chimdi Muoghalu, UNC Chapel Hill A Modified Compact Dry Assay as a Rapid Alternative for ESBL E. coli **Quantification** — Fatema Akter Mahua, Indiana University Bloomington

Enhanced Antibacterial Activity of Light-Activated Silver Nanoparticles Against Superbugs

Through Sequential Light Exposure — Anjumana Jannati Nur, UNC Charlotte

SUNFLOWER	Validation and applications of an E. coli contamination risk sensor in US Surface waters
Microbial	surface waters — Joshua Klaus, University of Colorado at Boulder
	Assessing Septic Systems, Flooding, Season, and Socioeconomic Impacts on Food- and
	Waterborne Illnesses in Maryland — Cameron Smith, University of Maryland, School of
	Public Health, Department of Global, Environmental, and Occupational Health
	 Effect of WASH interventions on Giardia infection in Bangladesh: heterogeneity
	by exposure to seasonal monsoons — Pearl Anne Ante-Testard, Francis I. Proctor
	Foundation and the Department of Ophthalmology, University of California
	Effects of Extreme Weather Events on Cholera in the Democratic Republic of the Congo 2020-2024
	(WASHmobile Program) — Kelly Endres, Johns Hopkins Bloomberg School of Public Health
WINDFLOWER	Wastewater surveillance reveals patterns of antibiotic resistance across the
Monitoring &	United States — Sooyeol Kim, University of California, Berkeley
Evaluating Tech	Improving the Semiquantitative Screening of Total Lead Concentrations in Drinking
	Water using Affordable Test Strips — Ethan Chou, the Water Institute at UNC
	Developing Standardized Methods to Quantify Lead Composition of Drinking Water System
	Infrastructure using X-Ray Fluorescence — Kyle Rezek, the Water Institute at UNC
	Quantitative and Digital PCR-Based Detection of Antibiotic Resistance Genes
	in Rural Wastewater Systems — Nita Khanal, UNC Charlotte
BELLFLOWER	Effectiveness of the PAASIM piped drinking water intervention for reducing children's enteric disease
WaSH Intervention	across different seasons and meteorological conditions — Viviana Albán, University of Washington
raer merenden	WASH in Early Childhood Development Centres: Compliance, Practices, and Barriers in Malawi
	Kondwani Luwe, Centre for Water, Sanitation, Health and Technology Development
	 A global scoping review of Water, Sanitation and Hygiene (WASH) interventions for
	adolescents — Rossanie Malolo, Malawi University of Business and Applied Sciences
	Household water insecurity predicts household food insecurity in a water-rich environment
	in the Bolivian Amazon — Lauren Broyles, The Pennsylvania State University
AZALEA	 Sustainable Solutions to Ensure Piped System Water Quality: Lessons from Inline Chlorination System in Ethiopia — Mussie Tezazu Asmare, Millennium Water Alliance
Water Quality	
	Primary prevention of lead in drinking water through substitution of lead-free plumbing Additional Fishers the Metastatistics at LING Characteristics. Additional Fishers the Metastatistics at LING Characteristics.
	components- preliminary results — Michael Fisher, the Water Institute at UNC, UNC Chapel Hill
	Groundwater at Risk: Applying DRASTIC-GIS Modeling to Guide WASH Decision-
	Making in Ethiopia's Tana Sub-Basin — Kelly Alexander, CARE
	Evaluation of Aluminum Electrocoagulation Performance Indicators for Decentralized
	Drinking Water Treatment - Monica Castro Carias, University of South Florida

- Assessing microbial cleanliness of high-touch surfaces in health facilities in Uganda: comparative study using locally-produced sodium hypochlorite and commercially available chlorine - Adam Drolet, PATH
- 2. Monitoring Gender in Water, Sanitation, and Hygiene: Lessons from Testing Priority Indicator Measures in Bangladesh Bethany Caruso, Rollins School of Public Health, Emory University
- 3. Environmental and Sanitation Improvements with mHealth in Salvador, Brazil Christine Stauber, Georgia State University
- 4. Sanitation Work Without Safeguards: Institutionalising Occupational Health Protocols in Urban Tamil Nadu Arka Sinha Roy, Indian Institute for Human Settlements
- Prevalence and factors associated with different MHM products using status among the lowincome women in Bangladesh - Hasin Jahan, WaterAid Bangladesh
- 6. Scaling Urban WASH Systems in Low-Resource Settings: Integrating Infrastructure, Governance, and Community-Led Solutions in Mbale City, Uganda Hajra Mukasa Comfort, WaterAid Uganda
- Reusable Sanitary Pads for Menstrual Hygiene Management: Breaking Barriers, Inspiring Change in Rwanda - Jean Baptiste Nsengiyumva, WaterAid Rwanda
- 8. Evaluating Menstrual Health Pedagogical Interventions: Knowledge Acquisition, Attitudinal Shifts, and Confidence Development in Cambodian Teachers Jess Strait, Days for Girls International
- Assessing the psychological and physical effects of distant water sources on Tanzanian rural women - Tula Ngasala, Michigan State University
- 10. Where is My Right? Social Security Access for Sanitation Workers in Nepal Seema Rajouria, WaterAid Nepal
- 11. Estimating the Cost and Cost Savings of a WASH/IPC Program in Health Facilities in Nigeria Stephen Sara, Save the Children
- 12. Assessment of Faecal Sludge Management System in Emergency Rohingya Refugees Response in Cox's Bazar, Bangladesh Md Toriqul Islam, NGO Forum for Public Health
- 13. How Policy and Implementation Meet: A Regional Policy Map of Lead Monitoring and Intervention Strategies Anna Gold, The Water Institute at UNC
- 14. Gopad™: Pioneering Biotransformable Menstrual Products for Sustainable Health and Waste Solutions in Low-Infrastructure Settings Trine Angeline Sig, Real Relief ApS
- 15. Risk, Reliability, and Cooperation: A Study of Household Water Management Decisions in Delhi Yugasha Bakshi, Virginia Tech
- 16. Association of Wash Practices and Diarrhea Amongst Children Under 5 Years in Badin and Jacobabad, Sindh Ahmed Bux Dayo, HANDS Welfare Foundation
- 17. Turning Home Water Storage from Risk into Reliability Kevine Odira, University of Massachusetts Amherst
- 18. Assessing WASH infrastructure in urban hospitals in Dhaka: Risks, gaps, and policy directions Nuhu Amin, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b)

5:30PM - 7:30 PM CONFERENCE DINNER

TRILLIUM DINING ROOM

A fun evening of networking and feasting, featuring a special performance by AY Young, ZimZoom Photo Booth, treats by Maple View Farm, and awards. Purchase a ticket at registration. Drinks reception sponsored by Business Connect.

Detailed schedule: Thursday, October 30

8:30-10:00 AM - SIDE EVENTS				
DOGWOOD	Beyond the Tap: Confronting Drinking Water Threats in High-Income			
	Countries - IAPMO, DigDeep, LIXIL, US Chamber of Commerce			
REDBUD	Towards Global and National Indicators for Monitoring Climate Resilient WASH -			
	Continuing the Conversation - World Health Organisation, UNICEF, University of Leeds,			
	University of Technology Sydney, University of Oxford, University of Bristol			
SUNFLOWER	Shared Sanitation: A Pathway to Inclusive and Sustainable Sanitation in Urban Informal			
	Settlements - Habitat For Humanitarian International, London School of Hygiene & Tropical			
	Medicine, Mozambican National Institute of Health, Makerere University School of Public Health,			
	University of North Carolina at Chapel Hill, Kampala Capital City Authority Ministry of Water and			
	Environment Uganda, Water & Sanitation for Urban Populations, Osprey Foundation, Fresh-Life			
WINDFLOWER	From Pipe Dream to Filter Reality: How \$4 Billion Can Provide Safe Water for Africa			
	- MetaMeta SMART Centre Group, Business Connect, Water By Women			
BELLFLOWER	Centering children and adolescents in WASH research and practice: Current insights and			
	agenda setting - University at Buffalo, Northwestern University, Helvetas, Swiss Water and			
	Sanitation Consortium, Charity: water, University of Colorado Boulder, Virridy, Needs4Water,			
	Ohio State University, London School of Hygiene & Tropical Medicine, UNICEF, WHO			
AZALEA	Improving hand hygiene for community settings: What we know and remaining evidence			
	gaps - WHO, UNICEF, Emory University, London School of Hygiene & Tropical Medicine			
10:00-10:30 AM - 30 M	MINUTE NETWORKING BREAK			
10:30 AM-12:00 PM - I	PLENARY SESSION			
GRUMMAN	MEASURING CLIMATE RESILIENCE IN WASH: FROM INDICATORS TO IMPACT - Panelists: Styvers Kathun			
AUDITORIUM	Sasha Kramer, Rick Johnston, Leonie Hyde Smith; Moderators: Dr. Darren Saywell, Dr. Barbara Evans			
12:00 - 1:30 PM - LUNG	СН			
TRILLIUM	Lunch for all participants is served. Please ensure that you are			

12:15 - 1:15 PM - LUN	CH SESSIONS				
SUNFLOWER	Technology & Innovation Showcase				
MAGNOLIA	Job Search Tips for Young WASH Professionals - Josh Newton, Josh's Water Jobs				
WILLOW	Soft Power, Safe Water: Mobilizing a New WASH Advocacy in a Radical Foreign Policy Landscape - Millennium Water Alliance, IAPMO				
1:30 - 3:00 PM - SPO	FLIGHT SERIES				
GRUMMAN AUDITORIUM	Spotlight Speakers - Division of Public Health, Environmental Health Section, NCDHHS: Larry D. Michael, Andy Blethen, Wilson Mize				
1:30-3:00 PM - SIDE	EVENTS				
DOGWOOD	How Laws and Policies Help Communities Anticipate and Manage Climate Change Impacts on WASH Infrastructure in High-Income Countries - Center for Water Security and Cooperation (CWSC) and Pacific Institute				
REDBUD	Community Leadership for Inclusive, Climate-Resilient Rural WASH: South to South Learning Exchange – Yayasan Plan International Indonesia, Sumbawa University of Technology, Indonesia Ministry of Health, Outreach Philippines, Outreach International, University of North Carolina at Chapel Hill, Uganda Ministry of Water and Environment, Uganda Habitat for Humanity International				
SUNFLOWER	Accelerating Progress: Global Efforts to Eliminate Lead in Drinking Water - The Water Institute at UNC, World Vision Global, World Vision Ghana, CWSA Ghana, Government of Uganda, IRC Uganda, National Water and Sewerage Corporation (NWSC, Uganda), University of Addis Ababa, UNICEF, WHO, Clinton Foundation				
WINDFLOWER	Technical Working Group, Sensor-Based Monitoring - PATH, Cova, Mangrove Water, Ugandan Water Project, Global Water Center, Virridy, Aquaya				
BELLFLOWER	Measuring Experiences with Hygiene: Lessons from Scale Development in Mexico and Bangladesh – Northwestern University; Johns Hopkins University				
AZALEA	Improving hand hygiene in community settings (Session 2): Acting on the new global normative guidelines - UNICEF, WHO, Emory University, World Bank, WaterAid				
3:00 - 3:15 PM - 15 M	INUTE NETWORKING BREAK				
3:15 - 4:30 PM - VERI	BAL PRESENTATIONS				
DOGWOOD Emergency & Scarcity	 Water Sharing Network Position, Self-reported Stress, and Chronic Stress Cortisol by Season Among Daasanach Pastoralists in Northern, Kenya - Leslie Ford, Pennsylvania State University Considerations for implementing sustainable fecal sludge services in humanitarian contexts - Gabrielle String, Lehigh University "Stressed Up": Water, sanitation, and hygiene insecurity and psychological distress in South Sudan - Rochelle Frounfelker, Lehigh University What do we know about mental health and WASH Insecurity? Hearing from WASH experts - Gabrielle String, Lehigh University 				

REDBUD Climate	 Household Energy and Water Resource Disruptions and Coping Strategies During Floods and Droughts in Kenya - Hemali Oza, Emory University
emnate	Seasonal impact on water infrastructure: Availability, quality and source selection
	in Ethiopia, Ghana and Uganda - Anna Murray, The Aquaya Institute
	Advancing Monitoring for Carbon-Financed Water Security: Methodological Innovation
	and Insights from East African Projects - John Ecklu, University of Colorado Boulder
	 Sustainability of Water, Sanitation, and Hygiene (WASH) Systems in Nepal: An Analysis of People's Perceptions on Climate Change and Management Perspective of WASH Systems - Resham Jung Singh
SUNFLOWER	 Lead-Free Learning: The Clean Classrooms for Carolina Kids™
Water Quality	Approach - Laura Allen Gates, RTI International
	 A systematic review of global toxic metal occurrence in LMIC drinking water Michael Fisher, The Water Institute at UNC, UNC Chapel Hill
	 Health Outcomes and Environmental Injustice: The Effects of Industrial Water Pollution in Cancer Alley - Shalina Shahin, Xavier University of Louisiana
	 Surface water quality impacts from poultry operations in the Cape Fear River watershed - Ayse Ercumen, North Carolina State University
WINDFLOWER	Impact Assessment of the Greater Accra Sustainable Sanitation and Livelihoods
Sanitation	Improvement Project on Urban Health and Education - Daniel Sarpong, Greater Accra Sustainable Sanitation And Livelihoods Improvement Project (GASSLIP)
	 Monetary valuation of sanitation-related quality of life gains in rural Malawi willingness to pay study - Mindy Panulo, University of Strathclyde
	 Understanding pathogen dynamics in onsite sanitation systems for safer sanitation strategies in low-and middle-income countries - Musa Manga, The University of North Carolina
	Willingness-to-pay for container-based sanitation services among vulnerable
	communities in northern Haiti - Maya Lubeck-Schricker, SOIL
BELLFLOWER	Sanitation Circular Economy: Co-Compost Impacts on Soil, Crop productivity, and Farmer
Eastern & Southern	Livelihoods in Fort Portal-Uganda – Kabasinguzi Pamela, Caritas Fort Portal-HEWASA
African WaSH	Timing and Volume of Water Collection at Handpumps and Piped Water Systems in
	Three Rural Zambian Communities - Samantha Levalley, University of Toronto
	 Evaluation of the WASHmobile Chlorine mHealth and E-Voucher Program to Reduce Diarrhea Outbreaks in Congo - Christine Marie George, Johns Hopkins University
AZALEA	Domestic Water Consumption and Hygiene Behaviours in Zambian Communities
Water Scarcity	- Sarah Bick, London School of Hygiene & Tropical Medicine
	 Measuring Water Insecurity on the Navajo Nation Using a Representative Household Survey - Natalie Exum, Johns Hopkins University
	 Associations between water supply intermittencies and drinking water quality, child health outcomes and caregiver emotional stress in peri-urban Malawi - Caitlin Niven, North Carolina State University
	Using GPT Personas in the Classroom to Develop Holistic Solutions to
	Comp of 1 1 closures in the classiconi to perciap Houstle solutions to

- High-resolution Analysis of Demographic and Socioeconomic Characteristics of Households with Private Wells in the USA - Caroline Sear, Virginia Tech
- Greywater reuse reimagined: Engineered alginate-polyethyleneimine and sludge-aluminosilicate biochar composites and models for system design - Herbert Kaboggoza, UNC Chapel Hill
- Community engagements in safe borehole water management in decentralized governance of rural water supply - Kenan Okurut, Kyambogo University
- 4. Scaling financially sustainable WASH services through circuit rider supported chlorination in Central America Wesley Meier, Cova
- 5. Alternatives to traditional membrane filtration for microbial water quality testing: technical performance, usability, and cost Meseret Zerefa, The Aquaya Institute
- Understanding pathogen dynamics in onsite sanitation systems for safer sanitation strategies
 in low-and middle-income countries Musa Manga, UNC Chapel Hill
- A Simple, Rapid Field Culture Test to Enumerate Pathogenic Vibrio cholerae Bacteria in Drinking Water - Mark Sobsey, University of North Carolina
- 8. Assessment of Doroudzan Storage Dam in Regulating Kor River Salinity from Saline Tributaries, Southern Iran Maryam Tavallali, Rutgers University
- Physiological and Psychological Health Outcomes of Multidimensional WASH Insecurity: Evidence from the 2022
 Bangladesh Demographic and Health Survey Noor Kutubul Alam Siddiquee, Arizona State University
- 10. Socioeconomic and attitudinal predictors of bottled water use among lower-income households in rural Southwest Virginia Bethesda O'Connell, East Tennessee State University
- Exploring "Cleanliness" in Rural Bangladesh as Part of a Poultry Intervention to Improve Household Hygiene
 Ridwan Mostofa Shihab, International Centre for Diarrheal Disease Research, Bangladesh (icddr,b)
- 12. Weighted Philippine Groundwater Health Index for Integrated Assessment of Groundwater Quality in Agricultural Areas Romeo Quizon, College of Public Health, University of the Philippines Manila
- 13. How the Cost Recovery Planning tool can contribute to sustainable WASH facilities in institutions Sandra van Soelen, Simavi
- 14. Assessment of Environmental and Social Safeguards and Climate Vulnerability, Teknaf
 Upazila, Bangladesh Md Toriqul Islam, NGO Forum for Public Health
- 15. Integrating container cleaning practices into a Zambian Community Health Club program Tracy Zhang, Lehigh University
- 16. Rain, Soil, and Infrastructure: Unraveling the Key Drivers of Groundwater Contamination in Coastal Georgia Victor Obi, Institute for Water and Health, Georgia Southern University
- 17. Drinking water quality in the schools of the Gambia and health implications for school children Lamin Fadera, Atlantic University
- 18. Localizing vulnerability assessments: A stakeholder-driven approach to identify the most vulnerable households in Northern Haiti Maya Lubeck-Schricker, SOIL

Detailed schedule: Friday, October 31

7:30 - 8:30 AM - REGISTRATION & BREAKFAST	
8:30 - 10:00 AM - WORKING GROUP MEETINGS & WORKSHOPS	
DOGWOOD	Naegleria fowleri Workshop - University of Arizona, Water Institute at UNC, CDC, Clemson University, Duke University, Purdue University, University of Georgia at Athens
REDBUD	Working Group Session: 3rd annual session: International Working Group on Toxic Metals - Water Institute at UNC, IAPMO, RTI, Aquaya, Rutgers University
BELLFLOWER	Community of Women in Water (CWiW) Networking Event - Business Connect
9:30 - 10:00 AM - 30 MINUTE NETWORKING BREAK	
10:30 AM - 12:00 PM - WORKING GROUP MEETINGS & WORKSHOPS	
DOGWOOD	Naegleria fowleri Workshop - University of Arizona, Water Institute at UNC, CDC, Clemson University, Duke University, Purdue University, University of Georgia at Athens
REDBUD	Working Group Session: 3rd annual session: International Working Group on Toxic Metals - Water Institute at UNC, IAPMO, RTI, Aquaya, Rutgers University
BELLFLOWER	Community of Women in Water (CWiW) Networking Event - Business Connect
10:00 AM - 12: 00 PM - FALLS LAKE FIELD TRIP	
10:30 AM -12:00 PM - OWASA FIELD TRIPS	
12:00 - 1:30 PM - LUNCH	
TRILLIUM DINING RM	Lunch for all participants is served. Please ensure that you are wearing your lanyard when checking in for lunch.