THE SWIM ANNUAL CONFERENCE & WORKSHOP
December 11 - 12, 2024
Virginia Tech Center, 900 N. Glebe Road, Arlington, VA

SMART ONE WATER
Identifying Practical Solutions

The "**Smart One Water: *Identifying Practical Solutions***" conference will include keynote speakers, panel discussions, and an interactive workshop. The focus will be to improve water sector governance and management to allow communities to function and thrive across the country. Water quantity and quality issues exacerbated by climate change and population growth will be highlighted. Innovative and transformative approaches will be discussed to address these challenges and prepare for a more resilient and sustainable water future. The event will generate excitement and passion, and it will inspire all participants to collaborate, develop solutions, and make a difference!

THE SMART ONE WATER TRILOGY
"A Progressive SWIM Center Adventure"

Year - 1 (2023)	Year - 2 (2024)	Year - 3 (2025)
Discussing Issues & Challenges	Identifying Practical Solutions	Developing Implementation Plans

- Water Governance and Management
- Competing Water Interests
- Affordable & Equitable Water

- Stakeholder Engagement and Workforce Development
- Adaptation, Sustainability, and Resilience
- Technology and Digital Transformation

The Smart One Water Trilogy is a three-year program that pulls together industry experts from agencies, private companies, academia, and national organizations to identify, evaluate, and develop practical solutions to some of our most critical water issues. Using a conference format consisting of keynote speakers, structured panel discussions, and workshops, this interactive program incorporates audience participation, team-work, and crowd sourcing to provide a truly collaborative work product.

PLEASE REGISTER AT:
https://register.cpe.vt.edu/portal/events/reg/participantTypeSelection.do?method=load&entityId=7682528

CONFERENCE HOTEL:
https://www.marriott.com/event-reservations/reservation-link.mi?id=1729508822214&key=GRP&guestreslink2=true

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CONFERENCE THEMES:

- **Water Governance and Management**
- **Competing Water Interests**
- **Affordable & Equitable Water**
- **Community, Stakeholder, and Workforce**
- **Adaptation, Sustainability, and Resilience**
- **Technology and Digital Transformation**

Substantial Benefits for Participants:

- *Contribute to the proposed center for Smart One Water to operationalize sustainability & resilience*
- *Understand the "Best Use" of leading practices for resilient and sustainable water sector systems*
- *Learn from "Case Studies" related to integrated and smart one water management practices*
- *Participate in "Panel Discussion" for Governance, Innovation, Workforce, & Stakeholder Engagement*
- *Network opportunities with "Your Colleagues and Friends" at other leading water utilities and industry*

Anyone interested in learning and participating in the Smart One Water journey must attend.

Please Register for the Event at: https://www.smartonewater.org/swim-conference/2024

Contact Information:

Sunil Sinha | Professor & Director | SWIM Center | Virginia Tech | (814) 404-2150; Email: *ssinha@vt.edu*

SWIM ANNUAL CONFERENCE AGENDA

Wednesday, December 11th, 2024

7:30 am: Continental Breakfast
8:00 am: Opening Remarks
Sunil Sinha, Professor & Director, SWIM Center, Virginia Tech
8:05 am: Motivational Speaker
Ben Grumbles, Exec. Dir, Env. Council of the States (ECOS)

8:30 am: Day - 1 KEYNOTE SPEAKERS

8:30:   USAID - TBD
8:45:   Wayne Griffith, CAO and EVP, DC Water
9:00:   Jennifer Garigliano, Director, New York City DEP
9:15:   Kristen Kavanagh, Executive Director, DRBC
9:30:   Adam Krantz, Chief Executive Officer, NACWA
9:45:   Joe Manous IWR Dir., US Army Corps of Engineers
10:00: Jaime Painter, Manager, Water Use & Budget, USGS
10:15: Eyad Mizian, Chief Engineer, WSSC Water
10:30: Structured Keynote Session Discussion
Moderator: Celine Hyer, Senior Vice President, Arcadis
Annotator: Paolo Gardoni, Professor, U. of Illinois-UC
10:45: Keynote Session Wrap-up

10:45 – 11:00 am – Coffee Break

11:00 am: COMPETING WATER INTERESTS

11:00: Panel Introduction
11:10: Jennifer Garigliano, Director, New York City DEP
11:15: Christopher Clavin, Sr. Advisor for Resilience, NIST
11:20: Caitlin Dyckman, Assoc. Prof. Clemson University
11:25: Alan Horton, Dir., Farmers Conservation Alliance
11:30: Wayne Griffith, CAO and EVP, DC Water
11:35: Structured Panel Discussion
Moderator: Pierre Glynn, Emeritus Scientist, USGS
Annotator: Meghna B-Sebens, Professor, Oregon State
1:00: Panel Wrap-up

1:00 – 2:00 pm – Lunch Break

2:00 pm: COMMUNITY, STAKEHOLDER, & WORKFORCE

2:00: Panel Introduction
2:10: Adam Krantz, Chief Executive Officer, NACWA
2:15: Melissa Meeker, Water Tower, Georgia
2:20: Mark Estes, Halifax County Water Utility, Virginia
2:25: Maria Lehman, Infrastructure Market Leader, GHD
2:30: Walter Graf, Asset Manager, Fairfax County, VA
2:35: Structured Panel Discussion
Moderator: Jeff Berk, Future Communities Lead, GHD
Annotator: Pingbo Tang, Professor, Carnegie Mellon Univ
4:00: Panel Wrap-up

4:00 – 4:30 pm – Coffee Break

4:30 pm: WATER GOVERNANCE & MANAGEMENT

4:30 pm: Panel Introduction
4:40: Joe Manous IWR Dir., US Army Corps of Engineers
4:45: Salil Kharkar, Vice President & Sr. Advisor, DC Water
4:50: Kristen Kavanagh, Executive Director, DRBC
4:55: Jaime Painter, Manager, Water Use & Budget, USGS
5:00: USAID - TBD
5:05: Structured Panel Discussion
Moderator: Srini Vallabhaneni, VP, Global Dir., AECOM
Annotator: Jayantha Obeysakara, Professor, FIU
6:30: Panel Wrap-up

6:30 pm: SWIM Conference Network Reception

Thursday, December 12th, 2024

7:30 am: Continental Breakfast
8:00 am: Opening Remarks
Sunil Sinha, Professor & Director, SWIM Center, Virginia Tech
8:05 am: Motivational Speaker
George Hawkins, Founder & CEO, Moonshot Missions

8:30 am: Day - 2 KEYNOTE SPEAKERS

8:30:   CDRI - TBD
8:45:   Lauren Wisniewski, Water Sector Liaison, CISA
9:00:   Charles Bott, Chief Technology Officer, HRSD
9:15:   Maria Lehman, Infrastructure Market Leader, GHD
9:30:   Lisa McFadden, Sr. Dir., Water Sci. & Eng., WEF
9:45:   CheeYee Tang, Water Sector Cybersecurity, NIST
10:00: Richard Niswonger, Research Hydrologist, USGS
10:15: Al Cho, Senior Vice President, Xylem, Inc.
10:30: Structured Keynote Session Discussion
Moderator: Celine Hyer, Senior Vice President, Arcadis
Annotator: Paolo Gardoni, Professor, U. of Illinois-UC
10:45: Keynote Session Wrap-up

10:45 – 11:00 am – Coffee Break

11:00 am: AFFORDABILITY, EQUITY, & JUSTICE

11:00: Panel Introduction
11:10: Erin Girardi, HRSD Director of Financial Analytics
11:15: Andy Kricun, Managing Dir., Moonshot Missions
11:20: Victoria Johnson, Global Equity Director, HDR
11:25: Charles Stephens, Sr. Exec. Policy Dir., NRWA
11:30: Lisa McFadden, Sr. Dir., Water Sci. & Eng., WEF
11:35: Structured Panel Discussion
Moderator: Anas Malkawi, Chief, Asset Mgmt., HRSD
Annotator: Meghna B-Sebens, Professor, Oregon State
1:00: Panel Wrap-up

1:00 – 2:00 pm – Lunch Break

2:00 pm: ADAPTATION, SUSTAINABILITY, & RESILIENCE

2:00: Panel Introduction
2:10: Alan Sauvageau, Asset Management Lead, WSSC Water
2:15: Stephen Cauffman, Foresight Consulting LLC
2:20: Edgar Westerhoff, Resilience Lead, Arcadis
2:25: Deepa Srinivasan, President, Vision Planning
2:30: Marlee Franzen, Manager, Fairfax Water, VA
2:35: Structured Panel Discussion
Moderator: Will Williams, Resilience Lead, Black & Veatch
Annotator: Jayantha Obeysakara, Professor, FIU
4:00: Panel Wrap-up

4:00 – 4:30 pm – Coffee Break

4:30 pm: TECHNOLOGY & DIGITAL TRANSFORMATION

4:30 pm: Panel Introduction
4:40: Fazle Rabbi, Managing Engineer, Houston Water
4:45: Charles Bott, Chief Technology Officer, HRSD
4:50: Richard Niswonger, Research Hydrologist, USGS
4:55: Lauren Wisniewski, Water Sector Liaison, CISA
5:00: CheeYee Tang, Water Sector Cybersecurity, NIST
5:05: Structured Panel Discussion
Moderator: Jim Cooper, Global Director - Water, Arcadis
Annotator: Pingbo Tang, Professor, Carnegie Mellon Univ
6:30: Panel Wrap-up

6:30 pm: SWIM Conference Wrap-Up

SWIM ANNUAL VIRTUAL WORKSHOP AGENDA

Monday, December 16th 2024, 11:00 am – 4:00 pm (ET)

A just and equitable water future for all in an ever-changing environment

The white paper for the 2024 Conference and Workshop will build on earlier white papers developed by the 2023 "One World, One Water" conference and workshop, the 2022 Future of Water Summit, and the NSF ERVA report (https://www.ervacommunity.org/visioning-report/engineered-systems-water-security/). The difference will be that our new white paper will make recommendations that can broaden and change perspectives on what can practically be done to change the governance, management, and stewardship of water resources and water infrastructure systems and how they are used to meet basic human and community needs now and for the future. With this utilitarian end in mind, we also expect that our white paper will strongly influence the direction of scientific and engineering research. Our goal is to present our white paper to the National Academy of Sciences, to the National Science Foundation, to water professionals and NGOs, and to policy makers at National, Regional, State, and Local levels. Lastly, the ideas and recommendations in our white paper will also be brought into our forthcoming Blue Ridge PBS documentary "WATER: Empowering Our Future".

WORKSHOP AGENDA

11:00 am: Opening Remarks – *Sunil Sinha, Professor & Director, SWIM Center, VT*
11:05 am: Keynote Speakers Overview – Moderator & Annotator
11:15 am: Panel Session – 1 Overview – Moderator & Annotator
11:25 am: Panel Session – 2 Overview – Moderator & Annotator
11:35 am: Panel Session – 3 Overview – Moderator & Annotator
11:45 am: Panel Session – 4 Overview – Moderator & Annotator
11:55 am: Panel Session – 5 Overview – Moderator & Annotator
12:05 pm: Panel Session – 6 Overview – Moderator & Annotator
12:15 pm: Workshop Sessions Briefing – Sunil Sinha (VT) & Celine Hyer (Arcadis)

12:30 pm-12:40 pm: Break

12:40 – 1:40 pm: Panel Session 1 & 2
Panel – 1: 12:40 – 1:25 pm
Panel – 2: 12:40 – 1:25 pm
Breakout Panel Sessions Briefing and Report Outline: 1:25 – 1:40 pm

1:40 pm-1:50 pm: Break

1:50 – 2:50 pm: Panel Session 3 & 4
Panel – 3: 1:50 – 2:35 pm
Panel – 4: 1:50 – 2:35 pm
Breakout Panel Sessions Briefing and Report Outline: 2:35 – 2:50 pm

2:50 pm-3:00 pm: Break

3:00 – 4:00 pm: Panel Session 5 & 6
Panel – 5: 3:00 – 3:45 pm
Panel – 6: 3:00 – 3:45 pm
Breakout Panel Sessions Briefing and Report Outline: 3:45 – 4:00 pm

4:00 pm: Summary of Activities and Discussion on Path Forward
Moderator: Sunil Sinha (VT) & Celine Hyer (Arcadis)

4:15 pm: Workshop Wrap-Up

SWIM CONFERENCE & WORKSHOP COMMITTEE

Sunil Sinha Virginia Tech	**Celine Hyer** Arcadis	**Pierre Glynn** USGS Emeritus	**Walter Graf** Fairfax County, VA	**Steve Cauffman** Foresight Conslt.
Jeffrey Berk GHD	**Meghna B-Sebens** Oregon State	**Jim Cooper** Arcadis	**Anas Malkawi** HRSD	**Paolo Gardoni** UIUC
Jayanta Obeysekera FIU	**Pingbo Tang** CMU	**Robert Armacost** Xylem	**Srini Vallabhaneni** AECOM	**Will Williams** Black & Veatch
Rhea Dadiala Student Representative Virginia Tech	**Sushruth Sinha** Student Representative Virginia Tech	**Anmol Vishwakarma** Student Representative Virginia Tech	**Kathy Laskowski** Project Manager SWIM Center Virginia Tech	**Carol Jennings** Director of Content Blue Ridge PBS Virginia

SWiM
Sustainable Water Infrastructure Management

VT COLLEGE OF ENGINEERING
THE CHARLES E. VIA, JR. DEPARTMENT OF
CIVIL AND ENVIRONMENTAL ENGINEERING
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