

Advancing UV Germicidal Efficacy Measurement: Metrology, Standards, Data and Protocols

March 18 - 20, 2025
AGU Conference Center, Washington DC
(agenda content subject to change)

Day One – Tuesday, March 18, 2025	
8:30– 9:00	<p>Welcome & Opening Remarks</p> <ul style="list-style-type: none"> ● Meeting Overview & Orientation – Dianne Poster, Senior Advisor, and Joy Dunkers, Physical Scientist, Material Measurement Laboratory, National Institute of Standards and Technology ● Remarks - Dan Hanfling, Director, Private Sector Strategic Partnerships, Office of Pandemic Preparedness and Response, The White House ● Remarks - Stephanie Hooker, Associate Director, Material Measurement Laboratory, National Institute of Standards and Technology (invited) ● Remarks - Ted Mao, President, International Ultraviolet Association
9:00 - 9:30	<p>Keynote - Lewis Radonovich, Deputy Director, Respiratory Health Division, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention</p>
9:30 - 10:00	<p>Keynote - William P. Bahnfleth, Professor of Architectural Engineering, The Pennsylvania State University (invited)</p>
10:00 - 10:15	<p>Refreshment Break</p>
10:15 - 11:00	<p>Industry Leaders Roundtable - Common Goals & Different Approaches Moderator: William Bahnfleth (invited) Panelists:</p> <ul style="list-style-type: none"> ● Giulia Santi, CEO, Light Progress Group ● Holger Claus, Vice President, Technology, USHIO America, Inc. ● Ashish Mathur, VP Innovation and Technology, UVDI ● Rick Rasansky, CEO, XCMR, Inc. ● James Montavon, Research Analyst, Blueprint Biosecurity
11:00 - 12:00	<p>Plenary Session - Inactivation Behavior: What’s Happening and What’s Needed</p> <p>Session Chair: Phyllis Posy, President, President of PosyGlobal</p> <p>This session is composed of the following invited presentations and a moderated discussion led by the session chair.</p> <ul style="list-style-type: none"> ● UV Sensitivity of Microorganisms - James Bolton, Founder, Bolton Photosciences (in absentia), with additional speaker in person (to be announced) ● ASHRAE Research project 1854-TRP-C, Database of Ultraviolet Inactivation Rate Constant (K-Values) for Microorganisms Critical to System Design - Richard Vincent, Administrative Manager, Icahn School of Medicine at Mount Sinai (invited) ● UV Air Disinfection Kinetics Measurement: Influential Factors, Challenges, and Standardization - Hao Luo, Postdoctoral Fellow, USP Technologies (invited) ● Development of inactivation rate constants for microorganisms in water - a synopsis of research and test methods - Phyllis Posy

12:00 - 1:00	Lunch Break (on-site)		
1:00-1:45	Moderated Panel: Microbiology Measurements and Global Challenges Chairs: James Bolton (in absentia), Matthew Hardwick, Karl Linden (invited) This panel will feature experts discussing how to best measure UV sensitivity of microorganisms with an emphasis on testing and commercial engagement, with a balance between water, air, and surface topics. More information forthcoming.		
1:45 - 2:00	All Hands - Breakout Session Scoping & Deliverables Chairs: <ul style="list-style-type: none"> • Troy Cowan, Chair, IUVA Healthcare Working Group • Ted Mao, President, IUVA • Cameron Miller, Deputy Division Chief, NIST 		
2:00 - 3:00 pm	Breakout Session 1 Air Inactivation Chairs: <ul style="list-style-type: none"> • James Montavon, Research Analyst, Blueprint Biosecurity • Katherine Ratliff, U.S. Environmental Protection Agency • Stephen Martin, U.S. Centers for Disease Control and Prevention • Dustin Poppendieck, NIST 	Breakout Session 2 Surface Inactivation Chairs: <ul style="list-style-type: none"> • Joy Dunkers, Physical Scientist, NIST • Richard Martinello, Yale School of Medicine • Alberto Garcia, U.S. Centers for Disease Control and Prevention • Wladyslaw Kowalski, (invited) 	Breakout Session 3 Data and Terminology Chairs: <ul style="list-style-type: none"> • Rick Rasansky, CEO, XCMR Inc. • Holger Claus, Vice President, Technology, USHIO America, Inc. • Stephanie Gora, York University • Curtis Donskey, U.S. Veterans Administration
3:00 - 3:15	BREAK (at the discretion of breakout session chairs)		
3:15 - 4:45 pm	Breakout Session 1 reconvene	Breakout Session 2 reconvene	Breakout Session 3 reconvene
4:45 - 5:00	All hands Session - Get ready for Day 2 Session Chairs: Dianne Poster, Senior Advisor, NIST and Troy Cowan, Chair, IUVA Healthcare Working Group		
5:00	Wrap-up and Adjourn		
Day Two – Wednesday, March 19, 2025			
8:30 - 8:45 am	Opening Session Welcome Remarks & Orientation for the Day – Dianne Poster, Senior Advisor, and Joy Dunkers, Physical Scientist, NIST		
8:45 - 9:45 am	Moderated Panel - Healthcare Needs & Pandemic Response Planning Speakers: <ul style="list-style-type: none"> • Dan Hanfling, Director, Private Sector Strategic Partnerships, Office of Pandemic Preparedness and Response, The White House (invited) 		

	<ul style="list-style-type: none"> ● Curtis Donskey, Infectious Diseases Physician, Hospital Epidemiologist, Louis Stokes Cleveland Veterans Administration Medical Center ● Shawn Ryan, Director, Homeland Security Research Program, U.S. Environmental Protection Agency (invited) ● Tener Veenema, Senior Scholar, Johns Hopkins Center for Health Security (invited) ● Richard Martinello, Professor of Medicine (Infectious Diseases) and Pediatrics, Yale School of Medicine ● Kathleen McPhaul, Associate Research Professor, Global, Environmental, and Occupational Health, School of Public Health, University of Maryland <p>Moderator: to be announced</p>		
9:45 - 10:15 am	<p>Plenary Session - Recap from Day 1 Session Chairs: Ashish Mathur, VP Innovation and Technology, UVDI and Cameron Miller, Deputy Division Chief, NIST</p> <p>Breakout session chairs will present summaries from their day 1 sessions, followed by moderated discussion with the audience led by the plenary session chairs.</p>		
10:15 - 10:30 am	Refreshment Break		
10:30 - 12:00 pm	Breakout Session 1 reconvene	Breakout Session 2 reconvene	Breakout Session 3 reconvene
12:00 – 1:00 pm	Lunch Break (on-site)		
1:00 - 1:45 PM	<p>Moderated Panel: Technology Issues</p> <p>Senior government and industry leaders share their views on how much the landscape of GUV inactivation behavior has evolved over the past 20 years with an emphasis on technology for air, surface, and clinical applications. How far have things progressed? What challenges remain?</p> <p>Speakers:</p> <ul style="list-style-type: none"> ● Katja Auer, Chief of Staff, XCMR, Inc. ● Ashish Mathur, VP Innovation and Technology, UVDI ● Richard Martinello, Professor of Medicine (Infectious Diseases) and Pediatrics, Yale School of Medicine ● Katherine Ratliff, Physical Scientist, Office of Research and Development, U.S. Environmental Protection Agency ● Cameron Miller, Deputy Division Chief, NIST <p>Moderator: Lewis Radonovich, Deputy Director, Respiratory Health Division, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention</p>		
1:45 - 3:00 pm	Breakout Session 1 reconvene	Breakout Session 2 reconvene	Breakout Session 3 reconvene
3:00 - 3:15 pm	Refreshment Break		
3:15 - 4:00 pm	<p>Plenary Session - Breakout Updates w/ Moderated Discussion Session Chairs: Dianne Poster, Senior Advisor and Joy Dunkers, Physical Scientist, NIST and Troy Cowan, Chair, IUVA Healthcare Working Group</p> <p>Breakout session chairs will present updates on their session work, followed by moderated discussion with the audience led by the plenary session chairs.</p>		
4:00 - 5:00 pm	All Hands Breakout Session- Microbiology Testing Roadmap to Round Robins		

	<p>Chairs: James Bolton, Founder, Bolton Photosciences, (in absentia), Troy Cowan, Chair, IUVA Healthcare Working Group, Matthew Hardwick, Karl Linden (invited)</p> <p>Facilitators: Dianne Poster, Senior Advisor, and Joy Dunkers, Physical Scientist, NIST</p> <p>Chairs and Speakers from the moderated panel “Microbiology Measurements and Global Challenges” will reconvene on the stage and reflect with the chairs and audience how microbiology testing and protocols have been discussed during the event, with an emphasis on challenges and development needs for air and surfaces inactivation data.</p>		
5:00 - 5:15	Wrap-up and Adjourn		
Day Three –Thursday, March 20, 2024			
8:45 - 9:00 am	<p>Opening Session Session Chairs: Dianne Poster, Senior Advisor and Joy Dunkers, Physical Scientist, NIST and Troy Cowan, Chair, IUVA Healthcare Working Group</p>		
9:00 - 10:30 am	Breakout Session 1 reconvene for conclusions & wrap up time	Breakout Session 2 reconvene for conclusions & wrap up time	Breakout Session 3 reconvene for conclusions & wrap up time
10:30 – 10:45 am	Refreshment Break		
10:45 – 11:30 am	<p>All Hands Session for Wrap-up: Discussion on Conclusions, Recommendations & Next Steps from the Breakout Session Leads Session Chairs: Troy Cowan, IUVA Healthcare Working Group and Cameron Miller, Deputy Division Chief, NIST</p> <p>Breakout session chairs will present the summaries of their session work, followed by moderated discussion with the audience led by the all-hands session chairs.</p>		
11:30 am - 12:00 pm	<p>All Hands Closing Session - Looking Ahead and Taking Time to Formulate:</p> <ul style="list-style-type: none"> ● Taking the next steps ● A restatement of the long-term objectives and paths for producing credible inactivation data ● Build a follow-up action team with designated leads <p>Session Chairs:</p> <ul style="list-style-type: none"> ● Ted Mao, President, IUVA – Discussion Leader ● James Montavon, Research Analyst, Blueprint Biosecurity – Discussion Leader ● Lewis Radonovich, Deputy Director, Respiratory Health Division, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention ● Shawn Ryan, Director, Homeland Security Research Program, U.S. Environmental Protection Agency (invited) ● Curtis Donskey, Infectious Diseases Physician, Hospital Epidemiologist, Louis Stokes Cleveland Veterans Administration Medical Center ● Kathleen McPhaul, Associate Research Professor, Global, Environmental, and Occupational Health, School of Public Health, University of Maryland ● Dan Hanfling, Director, Private Sector Strategic Partnerships, Office of Pandemic Preparedness and Response, The White House (invited) <p>Session chairs will convene on the stage, and have a dialogue with the audience, led by the discussion leaders, to meet the formulation needs.</p>		

12:00 pm

Wrap-Up & Adjourn: Dianne Poster, Senior Advisor, and Joy Dunkers, Physical Scientist, NIST and Troy Cowan, Chair, IUVA Healthcare Working Group