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## Plenary Session: 2022 Kentucky Water Resources Annual Symposium

Kentucky Water Resources Research Institute, University of Kentucky

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## **Plenary Session**

**Lindell Ormsbee, P.E., P.H., Ph.D., D.WRE, Department of Civil Engineering, UK**

### ***Past Reflections and Future Challenges for Water Research***



Dr. Lindell Ormsbee is the Raymond-Blythe Professor of Civil Engineering at the University of Kentucky. Dr. Ormsbee's past research efforts have focused on the application of systems analysis methods to complex problems in water resources and environmental systems with a particular focus on water treatment, water distribution, stormwater management, and stakeholder engagement.

Over his 40-year career, Dr. Ormsbee has served in several research administrative positions, including the director of the Kentucky Water Resources Research Institute (2004-2022), the director of the Kentucky Research Consortium for Energy and Environment (2003-2010), the director of the Tracy Farmer Center for the Environment (2001-2002), and the associate director of the UK Superfund Research Center (2010-2020). He has also served on several boards and committees associated with the Kentucky

Energy and Environment Cabinet, including the chair of the Kentucky Environmental Quality Commission.

Dr. Ormsbee is a fellow in the American Society of Civil Engineers, a fellow in the Environmental and Water Resources Institute, and a diplomate in the American Academy of Water Resources Engineers. He is also a licensed professional engineer and professional hydrologist.

**Jason Unrine, Kentucky Water Resources Research Institute, UK**

### ***Overcoming Persistent and Emerging Water Resource Challenges by Building Bridges Between Sectors and Disciplines***



Jason M. Unrine, PhD, is a Professor and University Research Professor in the Department of Plant and Soil Sciences at the University of Kentucky and Director of the Kentucky Water Resources Research Institute. Dr. Unrine earned his PhD in Toxicology from the University of Georgia in 2004 where he also completed a postdoctoral fellowship in Environmental Analytical Chemistry. He joined the faculty of the University of Kentucky in 2008. He is an Environmental Toxicologist whose research focuses on environmental fate and transport and ecological and human health effects of manufactured nanomaterials, trace-elements, and disinfection byproducts.

He has authored more than 150 peer-reviewed journal articles on these topics. He was the Cellular and Organismal Impacts theme leader for the NSF-funded Center for Environmental Implications of Nanotechnology (CENT) from 2010-2019. He currently serves as the leader of the Analytical Core of the NIEHS Environmental Health Core Center- Center for Appalachian Research in Environmental Sciences.

**Tanja Williamson, Research Hydrologist-Pedologist, USGS, OH-KY-IN Water Science Center**

***Environmental Monitoring and Modeling-Establishing Baseline Conditions***



Tanja N. Williamson is a research hydrologist who integrates applied resource management with fundamental, process-based science. Her current research focuses on the storage and transport of water, sediment, and nutrients in agricultural, developed, and forested landscapes. Tanja joined the Kentucky Water Science Center in 2006 and continues to be a part of the Ohio-Kentucky-Indiana WSC, where she develops both local and regional research with collaborators from USGS, universities, and other agencies. She is adjunct faculty in the UK Department of Plant and Soil Sciences and Acting Program Manager for the USGS Water Resources Research Program.