

# Poster Presentations



Posters will be showcased during the Exhibit and Poster Reception on Tuesday, April 29 from 5:15 – 7:00 pm and during the 11:30 am – 1:30 pm Lunch and Poster Viewing times on Wednesday, April 30 and Thursday, May 1. Check the index card by each poster to see when the presenter will be available to talk about the poster and answer questions.

## Addressing Emerging Contaminants and Threats to Human Health and Aquatic Ecosystems

- 01 *Developing a Diatom Index for Indiana Rivers and Streams*, **Kristen Arnold**, Indiana Department of Environmental Management
- 02 *Consideration of Monitoring Data in the Context of Human Health and Ecological Benchmarks for Pesticides*, **Mark Corbin**, USEPA
- 03 *Distinct Differences in Precipitation Mercury Concentrations between Urban and Rural Measurements*, **David Gay**, University of Illinois
- 04 *The National Atmospheric Deposition Program: Lessons from a Continental-Scale Monitoring Network*, **David Gay**, University of Illinois
- 05 *Water Quality of Two Principal Aquifers used for Public Supply in the Southeastern United States*, **Bruce Lindsey**, USGS
- 06 *Ecoregion and Land Use Influence Microcystin Concentrations in Planktonic and Littoral Regions of Lakes and Reservoirs*, **Erin E. Manis**, BSA Environmental Services, Inc.
- 07 *A Drinking Water Standard for Cr-6? What to Expect for Illinois*, **Patrick Mills**, USGS
- 08 *Fish Consumption and Contaminants in Fish from the Los Angeles and San Gabriel Rivers Watersheds*, **Karin Patrick**, Aquatic Bioassay & Consulting Laboratories, Inc.
- 09 *Assessment of Perfluorinated Compounds (PFCs) in Fish from U.S. Rivers and the Great Lakes*, **Leanne Stahl**, USEPA
- 10 *EPA's Assessment of Contaminants in Fish from U.S. Rivers*, **Leanne Stahl**, USEPA
- 11 *An Investigation of Mercury Concentration Trends in Fish Tissue in the Ohio River*, **Rob Tewes**, ORSANCO

## Advancing Innovation in Monitoring: Technology, Assessment, Modeling, and Methods

- 12 *Application of Polyethylene Devices (PEDs) For Monitoring PCBs at a Freshwater Sediment Remediation Site*, **Mark Benotti**, Battelle

- 13 *Using a Water Quality Monitor to Predict Recreational Water Quality in Near Real-Time in the Cuyahoga River, Cuyahoga Valley National Park*, **Amie Brady**, USGS
- 14 *Efficient Strategies for Sampling Edge-of-Field Runoff*, **Dave Braun**, Stone Environmental
- 15 *The Use of Web-based and Digital Tools for Developing and Supporting Citizen Monitoring Programs Conducting Bioassessments in California*, **Erickson Burres and Janet Hsiao**, California State Water Resources Control Board – Clean Water Team
- 16 *Comparison of Volunteer and Automated Water Quality Data Suggesting Procedural Improvements*, **Jeffrey Campbell**, Environmental Informatics
- 17 *Cancelled*
- 18 *MiniSipper: A New, High-capacity, Long-duration, Automated In situ Water Sampler for Aquatic Monitoring*, **Thomas Chapin**, USGS
- 19 *STIC: A New Instrument for Rugged, Low-cost, Long-duration Stream Temperature, Intermittency and Conductivity Monitoring*, **Thomas Chapin**, USGS
- 20 *Development and Validation of a Colorimetric Microtiter Plate Based Receptor-Binding Assay for the Determination of Fresh Water and Marine Toxins Using the Nicotinic Cholinergic Receptor*, **Erin Faltin**, Abraxis LLC
- 21 *Development of New Analytical Methods at the National Water Quality Laboratory to Meet the Needs of National and State Programs*, **Ed Furlong**, USGS
- 22 *Continuous Groundwater Quality Parameters Enhance Groundwater Studies*, **Amy Gahala**, USGS
- 23 *Microbial Source Tracking Methodologies to Assess Human Contributions of Fecal Bacteria to a Freshwater Receiving Stream*, **David Graves**, South Carolina Department of Health and Environmental Control
- 24 *Time Integrative In Situ Field Extraction Techniques and Advantages*, **Brent Hepner**, Aqualytical Services Inc.
- 25 *U.S. EPA ETV Verification of a Coliform Detection Technology*, **Ryan James**, Battelle

- 26 *Assessing Agent Concentration and Pressure in Water using Targeted Acoustic Frequency Ranges*, **John Keady**, Innovation Labs LLC
- 27 *Rapidly Deployable Real-Time Stream Flow Sensor Networks*, **Branko Kerkez**, University of Michigan
- 28 *Study Design for Comparative Study of Michigan's Rapid Bioassessment Methodology and National Rivers and Streams Assessment*, **Tamara Lipsey**, Michigan Department of Environmental Quality
- 29 *GIS Assessment of the Ecological Impacts of Farm Landscape Change in South Carolina Lower Region*, **Edmund Merem**, Jackson State University
- 30 *Using Emerging Mobile Technologies to Educate, Engage and Empower the Global Community on Water Quality Monitoring and Environmental Sustainability*, **Julie Moses**, Northern Kentucky University
- 31 *Identifying Canadian Priority Drainage Basins for Potential Risk to Water Quality and Aquatic Ecosystems Using a Risk Based Basin Analysis*, **Denis Parent**, Environment Canada
- 32 *Cancelled*
- 33 *Efficacy Review of a Phycocyanin-Detecting Continuous Imaging Particle Analyzer As Used For the Identification and Enumeration of Cyanobacteria*, **Brandon Rieff**, Fluid Imaging Technologies
- 34 *Results from Laboratory and Field Testing of Nitrate Measuring Spectrophotometers*, **Teri Snazelle**, USGS
- 35 *An Evaluation of XYLEM EXO Water-Quality Sondes and Sensors*, **Teri Snazelle**, USGS
- 36 *The U.S. Geological Survey Midwest Region River Sediments and Nutrients Investigations*, **Timothy Straub**, USGS
- 37 *Surrogate Analysis and Index Developer*, **Timothy Straub**, USGS
- 38 *Using Remote Sensing Tools to Target Stream Protection and Wastewater Treatment BMPs in Rural Kentucky*, **Barry Tinning**, Tetra Tech, Inc.
- 39 *Real-Time Nitrate Monitoring in Groundwater within a Mixed-Use Watershed in Central Illinois*, **Jacob Wikle**, USGS
- 40 *Merging Water Quality Standards and Monitoring and Assessment Produces Better Management Outcomes*, **Chris Yoder**, Midwest Biodiversity Institute
- 43 *The Role of Citizen Scientists in the Monitoring and Management of the Global Water System*, **Diana Eddowes**, Earthwatch Institute
- 44 *Big Chico Creek Watershed Citizen Monitoring Program*, **Timmarie Hamill**, California Urban Streams Alliance – The Stream Team
- 45 *Approaches for Disseminating Water Quality Information: Development and Use of Applied Water Quality Indices and Report Cards*, **Brian Henning**, New Jersey Department of Environmental Protection
- 46 *Where Are Our Wetlands and How Are They Doing?* **Jon Marshack**, California Water Quality Monitoring Council
- 47 *California Estuary Monitoring Workgroup - Using Web Portals to Improve Scientific Understanding*, **Jon Marshack**, California Water Quality Monitoring Council
- 48 *Landowner Outreach: "Know Your Stream" Handouts*, **Jason Ramming**, Oklahoma Conservation Commission
- 49 *Building Public Awareness of Wisconsin's Streams through Signage at Long-term Volunteer Stream Monitoring Sites*, **Heather Smith**, University of Wisconsin – Extension
- 50 *Source Water Protection For Drinking Water Production: An International River Memorandum*, **Peter Stoks**, Association of Rhine Water works RIWA
- 51 *Water-body Check-up: Monitoring and Ecological Modeling to Evaluate Risk of Preventable Health Problems*, **Harry Stone**, Battelle

### Demonstrating the Value of Monitoring in Measuring Environmental Change

- 52 *Determining the Timing and Cause of Water Quality Changes from Increased Nutrient Loading to an Urban Kettle Lake near Toronto (Ontario, Canada): Using Paleolimnological Techniques to Set Lake Management Objectives*, **Brian Ginn**, Lake Simcoe Region Conservation Authority
- 53 *Economic Valuation of Monitoring Based on Nutrient Trading Ratios*, **Richard Smith**, USGS
- 54 *The Circumarctic Lakes Observation Network (CALON): Hierarchical Sampling of a Lake-Rich Region of Northern Alaska*, **Amy Townsend-Small**, University of Cincinnati

### Connecting Science to Action – Communicating Science and Data in Ways that Influence Behavior

- 41 *Web-Based Communication of Water Quality Issues and Potential Solution Exploration*, **Elly P.H. Best**, USEPA
- 42 *The Effectiveness of Floating Treatment Wetlands for Water Quality Best Management Practices*, **Richard Bretz**, Miami University

### Determining the Holistic Value of Water - How Science, Public Opinion, Economic and Social Information are Used for Better Water Management and Decision Making

- 55 *The Impact of High Yield Irrigation Wells on Groundwater Supplies in Western Kentucky: Involving Stakeholders in the Process of Gathering More Information and Managing This Resource*, **Caroline Chan**, Kentucky Division of Water

- 56 *San Diego Regional MS4 Permit: Adoption Process and Outcome*, **Matt Rich**, AMEC Environment & Infrastructure, Inc.
- 57 *Characterization of Dissolved Solids in the Ohio River and Selected Tributaries*, **Samuel Dinkins**, Ohio River Valley Water Sanitation Commission
- 58 *Monitoring the Banklick Creek Regional Wetland for Water Quality Improvement: Challenges, Results and Lessons Learned*, **Craig Frye**, SD1
- 59 *Effectiveness of Buffers Installed at Targeted Critical Drainage Areas in Minnesota*, **John Hanzas**, Stone Environmental
- 60 *Improving Waters - How Can You Tell?* **Diane Wilson**, Pennsylvania Department of Environmental Protection
- 69 *The AL-MS-KY Multi-State Configurable System for State Water Quality Data: Alabama Says, "WADR a Few Databases Among Friends?"* **Lisa Huff**, Alabama Department of Environmental Management
- 70 *Managing Monitoring Equipment: A Sensor Extension for the CUAHSI Observations Data Model*, **Amber Jones**, Utah State University
- 71 *USGS Sediment Data Portal*, **Casey Lee**, USGS
- 72 *Three Rivers QUEST - Managing and Displaying Water Quality Data throughout the Upper Ohio River Basin*, **Melissa O'Neal**, West Virginia Water Research Institute
- 73 *The AL-MS-KY Multi-State Configurable System (MSCS) for State Water Quality Data: Kentucky WADE-ing in Deeper with a Little Help from Our Friends*, **Lara Panayotoff**, Kentucky Division of Water
- 74 *U.S. Geological Survey Surface-Water-Quality Data in Ohio*, **Kimberly Shaffer**, USGS

## Evaluating the Impact of Extreme Events – Natural and Man-made

- 61 *Space-time Evaluation of Surface Water Quality of Alegria Stream Micro-basin (Uberaba, Brazil) using Environmental and Anthropic Variables*, **Eduardo Von Sperling**, Universidade Federal De Minas Gerais

## Managing and Sharing Water Quality Monitoring Data

- 62 *The AL-MS-KY Multi-State Configurable System for State Water Quality Data: Mississippi enSPIRE'd to Give a DAM About Enhancing ALAWADR*, **Valerie Alley**, Mississippi Department of Environmental Quality
- 63 *"Safe to Swim" Water Quality Webportal Development Survey to Support Freshwater Recreation*, **Erickson Burres**, California State Water Resources Control Board, California Water Quality Monitoring Council, Safe to Swim Workgroup
- 64 *Winter Stormwater Sampling – Data Management Challenges and Solutions*, **Amy Franz**, San Francisco Estuary Institute
- 65 *Biological Monitoring for California's Diverse Aquatic Ecosystems*, **Dustin Harrison**, California Department of Fish and Wildlife
- 66 *Managing Water Information for the National Wildlife Refuge System with the Water Resource Inventory and Assessment (WRIA) Application*, **Michael Higgins**, U.S. Fish and Wildlife Service
- 67 *Documentation Methods for Water Quality and Hydrologic Data Review*, **Jennifer Hill**, University of Illinois at Urbana-Champaign
- 68 *Susquehanna River Basin Commission Water Quality Portals*, **Dawn Hintz**, Susquehanna River Basin Commission

## Strengthening Monitoring Collaboration and Partnerships

- 75 *The Kentucky Agriculture Science and Monitoring Committee (KASMC)*, **Angela Crain**, USGS
- 76 *Partnerships in Studying the Efficiency of a Stormwater Wetland*, **Kristine Hopfensperger**, Northern Kentucky University
- 77 *Cooperative Science and Monitoring Initiative – Attempting Adaptive Management on Large Ecosystems*, **Paul Horvatin**, USEPA
- 78 *The Ohio River STEM Institute: A University-Community Partnership Bridging STEM Disciplines, Student Monitoring and Environmental Stewardship*, **Heather Mayfield**, Foundation for Ohio River Education and **Miriam Steinitz-Kannan**, Northern Kentucky University
- 79 *Building Partnerships to Monitor the Condition of Streams and Rivers on Public Lands*, **Scott Miller**, Utah State University
- 80 *Citizen Volunteers versus Trained Field Technicians: Pros and Cons of each in the Collection of Lake Samples*, **Daniel Obrecht**, University of Missouri