



AGENDA

Spring Conference of the Institute of Water Security and Science: Advances in Water Resource Science and Management in West Virginia and the Northeastern U.S.

Tuesday and Wednesday, February 20-21, 2018
9:00am – 7:00pm and 9:00am – 3:00pm, respectively

WVU Erickson Alumni Center, 1 Alumni Drive, Morgantown, WV

DAY 1: WATERSHED MANAGEMENT AND WATER QUALITY

Conference Opening

- 9:00 AM Welcome and Introduction of Keynote Speaker
Dr. Jason Hubbard, Director, WVU Institute of Water Security and Science
- 9:15 AM Keynote Address: Lessons from the Chesapeake Bay TMDL
Nicholas DiPasquale, Former Director, U.S. EPA Chesapeake Bay Program Office
- 10:00 AM Restoring Appalachian River Networks in a Changing Climate – Dr. J. Todd Petty, Professor and Associate Dean of Academic Affairs, Davis College of Agriculture, Natural Resources & Design, West Virginia University
- 10:20 AM USACEHR Advances in Water Toxicity Sensors and Technology – David Trader, Executive Officer, Research Biologist, IACUC Chair, U.S. Army Center for Environmental Health Research
- 10:40 AM Break**
- 11:00 AM Soil Water Quality of Reforested Mine Site Twelve Years After Reclamation – Dr. Amir Hass, Associate Research Professor of Soil Water and Natural Resources Management, West Virginia State University
- 11:20 AM Sensing and Educating the Nexus to Sustain Ecosystems (SENSE): Implementation of the Kentucky-West Virginia Partnership – Dr. Mindy Armstead, Associate Professor Integrated Science and Technology, Marshall University
- 11:40 AM IWSS Update / Introduction to West Run Watershed Experimental Research Collaborative – Dr. Jason Hubbard, Director, Institute of Water Security and Science, West Virginia University
- 12:00 PM Lunch**
- 1:00 PM Mapping the Blue Marble: Using Space-Based Observations for Improved Global Water Security and Sustainability – Dr. John Bolten, Associate Program Manager of Water Resources, NASA Applied Sciences Program
- 1:20 PM The Confluence of Scientific, Social and Economic Aspects of Water in West Virginia Today – Angie Rosser, Executive Director, West Virginia Rivers Coalition
- 1:40 PM Utilizing eDNA Metabarcoding for Fish Community Analysis in Appalachian Headwater Streams – Dr. Yvette Halley, Postdoctoral Research Fellow, West Virginia University
- 2:00 PM Inorganic carbon and CO₂ from karst springs and mine waters – Dr. Dorothy Vesper, Associate Professor of Geology, West Virginia University
- 2:20 PM Break**

- 2:40 PM Improved Landscape Characterization for Modeling Receiving Stream Conditions – Dr. Michael Strager, Professor of Resource Economics and Management, West Virginia University
- 3:00 PM Panel Discussion with all Speakers of the day
- 4:00 PM Synthesis for the day
- 4:30 PM Poster Sessions and Reception
- 7:00 PM End of Day 1**

DAY 2: WATER AVAILABILITY AND TREATMENT

- 9:00 AM Welcome and Housekeeping – Dr. Jason Hubbart, Director, WVU Institute of Water Security and Science
- 9:10 AM Message from the Dean - Dr. Daniel J. Robison, Dean, Davis College of Agriculture, Natural Resources and Design, West Virginia University
- 9:20 AM Innovative Fe-based technologies for Improving Food-Energy-Water Nexus Efficiencies in Coal Producing Regions – Dr. Lian-Shin Lin, Professor, Civil and Environmental Engineering, West Virginia University
- 9:40 AM The MUB Monitor: A Source Water Protection and Spill Response Tool – Mr. Evan Hansen, President, Downstream Strategies
- 10:00 AM Break**
- 10:30 AM A Comparison Between Shale Gas in China and Unconventional Fuel Development in the United States: Water, Environment and Sustainable Development – Dr. Paolo Farah, Assistant Professor of Public Administration, West Virginia University
- 10:50 AM The Appalachian Water Tower: The role of mountain catchments in regional water security – Dr. Nicolas Zegre, Associate Professor of Forest Hydrology, West Virginia University
- 11:10 AM Treating Effluent Streams at Coal Power Plants – Dr. Nicholas Siefert, Research Mechanical Engineer, U.S. Department of Energy National Energy Technology Lab
- 11:30 AM Water Resource Management: The Economic Perspective – Dr. Levan Elbakidze, Assistant Professor of Resource Economics and Management, West Virginia University
- 11:50 AM Lunch and Removal of Posters**
- 1:15 PM Panel Discussion (1hr)
- 2:15 PM Synthesis and Closing (20-30 Minute + 15-20 Minute Q&A)
- 3:00 PM End of Conference**