

SC Water Resources Conference Schedule - (Day 1) Tuesday, October 14th

7:30AM	Registration Opens - Ballroom Lobby				
8:30AM	Welcome & Conference Remarks (Ballroom B)				
8:45-10:15	Plenary - Demands and Challenges for Water Resources: National, Regional and State Perspectives Robert Hirsch - USGS; William Cox - EPA Region 4; and Earl Hunter - DHEC (Ballroom B)				
10:15-10:30	Morning Break				
	Track 1 Water Policy and Planning (Ballroom C)	Track 2 River Basin and Stream Systems (Meeting Rooms 6 & 7)	Track 3 Coastal and Estuarine Systems (Meeting Rooms 8 & 9)	Track 4 Water Use Management and Permitting (Meeting Rooms 10 & 11)	Track 5 Cyberinfrastructure and Data Management (Meeting Rooms 12 & 13)
Track Chair	Jeff Allen Clemson University, STI	Cal Sawyer Clemson University, CWE	Denise Sanger SC Sea Grant Consortium	David Graves & Mihir Mehta SC DHEC	Gene Eidson Clemson University, CURI
10:30-12:00	Session 1 Economic Development	Session 1 Water and Water Quality I	Session 1 Modeling I	Session 1 Stormwater Management and Control	Session 1 Digital Watersheds
Moderator	<i>Michael Mikota</i> Clemson University - STI	<i>Noel Hurley</i> USGS	<i>Devendra Amatya</i> USDA Forest Service	<i>Jill Stewart</i> SC DHEC - BOW	<i>David White</i> Clemson University - CCIT
Presenter 1	Scott Templeton Clemson University What Explains the Incidence of Mandated BMPs at Residential Lots Under Construction?	Oscar Flite SE Natural Sciences Academy Overview of Stable Isotope Results from a Comprehensive Savannah River study	John B. Cook Advanced Data Mining Intl A Novel Approach in Determining Changes in Consumptive Use for River Basins	Kevin J. Conlon US Geological Survey Performance of Four Structural BMPs for Highway Runoff in Beaufort and Colleton Counties, South Carolina	Jill Gemmill Clemson University Cyberinfrastructure for Preservation of Stream and River Ecology
Presenter 2	Andrew S. Vane Hazen & Sawyer, PC The Lake Marion Regional Water System: Planning a Regional Water System to Spur Economic Development	Celeste A. Journey US Geological Survey Geosmin Occurrence in Lake William C. Bowen	Toby D. Feaster US Geological Survey The Application of TOPMODEL to Assess Mercury Fluxes in the McTier Creek Watershed	Lisa Vandiver University of South Carolina Rainfall-Runoff Relationships and Their Significance to Stormwater Management: An Example from North Charleston	Danna Wolf NOAA / Hollings A Data Management Framework in Support of Tidal Creek Research
Presenter 3	Bill Ziebertz Jordan, Jones & Goulding The Economic and Economic Development Implications of Sustainability Initiatives	Jim Landmeyer US Geological Survey Long-Term Water Flow and Quality Monitoring in the Pee Dee and Waccamaw River Basins	Ge Sun USDA Forest Service Impacts Of Potential Climate Change On Water Resources In South Carolina	Susan Libes Coastal Carolina University Public Outreach Effort: Property Management Stormwater Education Seminar	Madilyn Fletcher University of South Carolina Integration of Environmental Information Systems
Presenter 4	MODERATED PANEL SESSION	Scott Zengel PBS&J Effects of Wild Pigs on Water Quality and Aquatic Biota in Wetlands and Streams at Congaree National Park	MODERATED SESSION PANEL	MODERATED SESSION PANEL	MODERATED PANEL SESSION
12:00-1:30	Plenary Lunch Session - Water Issues & Their Impact on South Carolina - Attorney General Henry McMaster (Ballroom B)				

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1:30-3:00	Session 2 Water Withdrawal and Allocation	Session 2 Public Health	Session 2 Modeling II	Session 2 Stormwater Management and Contaminants	Session 2 Cyberinfrastructure Applications I
Moderators	<i>Dean Moss</i> <i>BJSWA</i>	<i>David Graves</i> SC DHEC - BOW	<i>Feleke Arega</i> <i>SC</i> DNR	<i>Colt Bowles</i> <i>USACE</i>	<i>Madilyn Fletcher</i> USC
Presenter 1	Caitlin Dyckman Clemson University Another 'Case of the Century?' Comparing the Legacy of Arizona v. California in the SC v. NC Proceedings	Charles Gorman SCDHEC Health Advisory Signs Posted on South Carolina Water Bodies	Tom Williams Clemson University Application of SWAT Hydrologic Model for TMDL Development on Chapel Branch Creek Watershed, SC	Louwanda W. Jolley Clemson University The Relationships Between Land Uses and Indicator Bacteria	Daniel R. Hitchcock Clemson University Creating Digital Coastal Watersheds: the Remote Data Acquisition Network at Bannockburn Plantation
Presenter 2	David Baize SCDHEC Surface Water Permitting and Allocation in South Carolina	Paul M. Bradley US Geological Survey Potential for Biodegradation of Contaminants of Emerging Concern in Stream Systems	Zhaohua Dai University of New Hampshire Evaluation of MIKE and DRAINMOD for Modeling Effect of Land Use Change on Stream Outflow in Coastal South Carolina	Calvin B. Sawyer Clemson University Preliminary Analysis of Indicator Bacteria in Sediment Basin BMPs	Sam Esswein Clemson University Application of Publish/Subscribe Messaging for Management of Streaming Water Resource Data
Presenter 3	David B. Willis Clemson University Efficiently Allocating Scarce Water Supplies: An Economic Perspective and the Role of Contingent Water Markets	Jeffrey S. Gallagher Clemson University Using an emergent midge (<i>Chironomus sp.</i>) to investigate PCB movement in Lake Hartwell	Anne C. Blair NOAA / Hollings Impact of Urbanization on Stormwater Runoff	John Weinstein The Citadel Chemical and Biological Contamination of Stormwater Pond Sediments in Coastal South Carolina	Sara Powell University of South Carolina Analysis and GIS Modeling of Water Quality Data from Lake Wateree
Presenter 4	MODERATED PANEL SESSION	MODERATED PANEL SESSION	Wayne Skaggs North Carolina State University Drainmod: A Simulation Model For Shallow Water Table Soils	MODERATED PANEL SESSION	Dwayne Porter University of South Carolina The Carolinas Coastal Ocean Observing and Prediction System
3:00-3:15	Afternoon Break				

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3:15-4:45	Session 3 Water Quality and Standards	Session 3 Total Maximum Daily Loads	Session 3 Water and Water Quality II	Session 3 Conservation and Demand	Session 3 Cyberinfrastructure Applications II
Moderators	<i>Rheta Geddings</i> SC DHEC - OCRM	<i>Mihir Mehta</i> SC DHEC - BOW	<i>Denise Sanger</i> SC Sea Grant Consortium	<i>Bud Badr</i> SC DNR	<i>Jill Gemmill</i> Clemson University - CCIT
Presenter 1	Gregory Michael Mikota II Clemson University A Water Quality Trading Framework for the Reedy River	Christine L. Boring Research Planning, Inc Fecal Coliform TMDL Implementation - Success Stories in Two SC Watersheds	Geoff Scott NOAA Managing Coastal Urbanization and Development in the 21st Century: Balancing Human Dimensions and Water Quality Issues	Britton Corbin Earth Tech Water Supply Challenges for an Island Community	Kuang-Ching Wang Clemson University Enabling Broadband Data Access for the Digital Watershed with a Heterogeneous Wireless Network
Presenter 2	Heather Bergerud Nix Upstate Forever Stormwater Mitigation Banking: Theory Into Practice	Craig Hesterlee EPA Region IV Development Fecal Coliform TMDL Protocols for Bass and Cinder Creeks on Kiawah Island	Robert Van Dolah SC Marine Res Research Inst South Carolina's Probability Based Approach for Assessing Water Quality and Estuarine Condition using Integrated Indices.	Porter Rivers BP Barber Leveraging Options: ASR as a Water Supply Management Tool	Kimberly W. Jones Town of Bluffton Bluffton Continuous Monitoring and Stormwater Sampling
Presenter 3	Bates Rambow University of South Carolina Evaluating Water Quality Trading for Phosphorus in the Lower Catawba River Basin	Steven R. Davie Tetra Tech, Inc Application of the 3-Dimensional Modeling System for TMDLs and Wasteload Allocations in the Charleston Harbor System	Derk C. Bergquist SC Marine Res Research Inst Patterns of Coastal Land Cover and Estuarine Habitat Quality: Application of Long-term Monitoring Data	Joseph Harrigan Earth Tech Seepage Modeling In Support Of Water Resources Development	Jason O. Hallstrom Clemson University It's a Small World: Enhancing Human Cognition through Virtual Dioramas
Presenter 4	Heather Preston SCDHEC SC Water Quality Issues	Matt Huddleston ENTRIX, Inc Assessment and Control of Fecal Coliform Bacteria in Cane Creek and Little Cane Creek	Guy T. DiDonato NOAA / Hollings Tidal Creeks as Sentinel Habitats: a Conceptual Model for Describing the Effects of Land Use Change on Coastal Ecosystems	MODERATED PANEL SESSION	John Goodall University of South Carolina Modeling with a Digital Watershed Context
5:30-6:30	Reception & Poster Session (Second Floor Exhibitor Area - Meeting Rooms 4 & 5)				

SC Water Resources Conference Schedule - (Day 2) - Wednesday, October 15th

7:30AM	Registration Opens - Ballroom Lobby				
8:15AM	Welcome & Conference Remarks (Ballroom B)				
8:30-10:00	Plenary Panel Session - Successes and Challenges of the Governors' Savannah River Bi-State Task Force Dr. Carol Couch & GA Team; Mike McShane & SC Team (Ballroom B)				
10:00-10:15	Morning Break				
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Track Chair	Jeff Allen Clemson University, STI	Cal Sawyer Clemson University, CWE	Denise Sanger SC Sea Grant Consortium	David Graves & Mihir Mehta SC DHEC	Gene Eidson Clemson University, CURI
10:15-11:45	Session 4 Statewide Water Plan	Session 4 Current Issues and Aquatic Toxicology	Session 4 Hydrology/Erosion I	Session 4 Ground Water Management and Use I	Session 1 Watershed Management
Moderators	Bud Badr SC DNR	David Graves SC DHEC - BOW	Matt Laws USACE	Tim Callahan College of Charleston	Dave Fuss Coastal Carolina University
Presenter 1	Bud Badr SCDNR SC State Water Plan	Anthony Sowers Clemson University Developmental Effects of Triclosan Exposure on the Pickerel Frog	Ge Sun USDA Forest Service Hydrologic Processes Of Forested Headwater Watersheds Across A Physiographic Gradient In The Southeastern United States	Bruce G. Campbell US Geological Survey Numerical Simulation of Ground-Water Flow within the Atlantic Coastal Plain Aquifers of North and South Carolina	Robin Kloot University of South Carolina The Development of User-Friendly Publications to Advance Locally Led Watershed-Scale Assessment, Protection and Restoration in South Carolina
Presenter 2	Mike Massey Lake Hartwell Association South Carolina Water Planning: The Next Steps	Sarah Robinson Clemson University Response of <i>Daphnia magna</i> to Episodic Exposures of Several Types of Suspended Clay	Greg Lewis Furman University The Furman University River Basins Research Initiative: A Multidisciplinary Examination of Urban Influences on Piedmont Streams	Christopher P. Foldesi Groundwater Mgt Assoc Strategies for Managing Water Resources in Saltwater Intrusion Environments	Susan Libes Coastal Carolina University Community-Based Watershed Planning in the Kingston Lake Watershed of Northeastern South Carolina
Presenter 3	Greg Carbone University of South Carolina A Dynamic Drought Tool for the Carolinas	Joseph Bisesi Clemson University The Effects of Duration and Concentration of Episodic Zinc Exposure to the Fathead Minnow, <i>P. promelas</i>	Vijay M. Vulava College of Charleston Application of Geochemical End-Member Mixing Analysis to Delineate Water Sources in a Lowland Watershed	Duke Brantley University of South Carolina Groundwater Resource Evaluation in Support of Dewatering a South Carolina Limestone Quarry	Gene Eidson Clemson University Clemson University Center for Watershed Excellence
Presenter 4	Kirsten Dow University of South Carolina Developing a Drought Impact Reporting System for the Carolinas	Holly Zahner Clemson University Effects of Episodic Copper Exposures on Population Fitness	MODERATED PANEL SESSION	Paul Conrads US Geological Survey Analyzing The Effects Of The Saluda Dam On The Ground-Water Hydrology Of The Congaree National Park Floodplain, South Carolina	Meredith Murphy SCDHEC Using Local Organizations to Implement TMDLs through SC's Nonpoint Source Section 319 Grant Program
11:45-1:00	Plenary Lunch Session - Coastal Water Resources: Scientific Challenges and Opportunities Paul Sandifer - Senior Scientist for Coastal Ecology for NOAA's Hollings Marine Laboratory Plenary Sponsored by Santee Cooper (Ballroom B)				

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1:00-2:30	Session 5 Future Challenges	Session 5 Hydrology/Erosion II	Session 5 Watershed Management	Session 5 Ground Water Management and Use II	Session 2 Outreach and Connection
Moderators	<i>Matt Laws</i> USACE	<i>Tim Callahan</i> College of Charleston	<i>Richard Dame</i> Coastal Carolina University	<i>Joe Gellici</i> SC DNR	<i>Susan Libes</i> Coastal Carolina University
Presenter 1	Dennis Barnett US Army Corps of Engineers Establishing a Regional Forum to Address Water Resource Challenges in the Southeastern United States: A Concept for Regional Collaboration	Toby D. Feaster US Geological Survey Magnitude and frequency of floods in rural basins of South Carolina, North Carolina, and Georgia	Bryan Dick Earth Tech Assess For Less: A Solution-Oriented, Ground-Based Geomorphic Analysis of an Urban Watershed in the Piedmont of North Carolina	Jim Bailey Kleinfelder, Inc An Asset Management Approach for Well Fields	Karen Fuss Coastal Carolina University Coastal Waccamaw Stormwater Education Consortium: Providing Public Education, Outreach And Involvement To Coastal Communities
Presenter 2	Kirsten Lackstrom University of South Carolina Improving Drought Management Policy and Practice: Lessons from Drought and FERC Relicensing	William F. Hansen USDA Forest Service Gully Control on the Sumter National Forest in South Carolina	James B. Glover SCDHEC The Effects of Watershed Land Use on Freshwater Aquatic Biota in South Carolina.	Hamid J. Farhani Clemson University Irrigation Water Management in South Carolina Trends and the need for an ET Network	Christine Ellis Winyah Rivers Foundation Think Globally, Act Locally: Changing the World From Our Own Backyard
Presenter 3	John M. Clayton Hazen & Sawyer, PC Future Need Analysis: Risk-Based Planning For Water Supply Expansions to Meet Uncertain Growing Demand	Andy Caldwell US Geological Survey Historic Scour Data Collected at Selected Bridges in South Carolina	John Kupfer University of South Carolina A Flexible Indicator-Based Approach to Assessing the Ecological Integrity of South Carolina Watersheds	Ahmad Khalilan Clemson University Site-Specific Irrigation Management	April Turner SC Sea Grant Ext Program The SC Coastal Information Network: Bringing Training Opportunities and Educational Resources to Coastal Community Officials
Presenter 4	MODERATED PANEL SESSION	Byung Joon Lee Clemson University Simulation of Turbulent Flocculation and Sedimentation in Flocculent-Aided Storm-water Retention Basins	Mark Scott SCDNR A Probabilistic Stream Assessment To Support Freshwater Conservation: Preliminary Results From Coastal Plain Streams	MODERATED PANEL SESSION	Ted Brown Biohabitats, Inc. Towards a More Holistic Water Conservation Approach
2:30 - 2:45	Afternoon Break				

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2:45-4:00	Session 6 Water Needs for the Future	Session 6 Water and Water Quality III	Session 6 Environmental and Human Health	Session 6 Water Supply Planning	Session 3 Case Studies
<i>Moderators</i>	<i>Colt Bowles USACE</i>	<i>Noel Hurley USGS</i>	<i>Eric Lacy MUSC</i>	<i>Dean Moss BJSWA</i>	<i>Calvin Sawyer Clemson University - CWE</i>
Presenter 1	Craig E. Campbell Clemson University Modeling Growth and Predicting Future, Developed Land in the Upstate of South Carolina	Devendra M. Amatya USDA Forest Service Hydrologic And Water Quality Monitoring On Turkey Creek Watershed, Francis Marion National Forest, SC	Aaron Edgington Clemson University The Influence of Natural Organic Matter on the Fate and Effects of Carbon Nanomaterials.	Hope Walker Black & Veatch Preparing for the Worst: Integrated Drought Planning for a SC Water Utility in the Age of Water Scarcity	Victoria Chanse Clemson University Private Property, Public Resource, Public Problem: Developing Innovative Stormwater Management Approaches in Aiken, SC
Presenter 2	Jessica Artz University of South Carolina An Historical Analysis of Water Quality and Land Use Change in the Gills Creek Watershed	Michael Woodside US Geological Survey Characterizing Spatial Variation of Nitrogen Delivery to Streams in the Santee River Basin and Coastal Drainages	Robert Ball, MD SCDHEC Human Health and Water Issues: An Overview of Human Health Issues Related to Harmful Algal Blooms, Climate Change, and Disaster-Related Injuries and Illnesses	Kathryn Nexsen BP Barber Evaluation of Needs and Sources for a Small Drinking Water Supply System	Karen Fuss Coastal Carolina University Building Greener Schools: Collaborative Effort on Stormwater Control
Presenter 3	David Pyne ASR Systems LLC Etowah Water Bank: A Regional Solution for Water Supply Reliability and Sustainability	Jack M. Whetstone Clemson University Cooperative Restoration Programs in Critical Habitats in the Upper South Carolina Coastal Region	Lauren Schmelter Alcoa - Mt. Holly Alcoa - Mt. Holly Zero Process Water Discharge Using Phytotechnology	David T. Zimmer CDM Managing Public Water Supplies in Turbulent Times	Fred L. Cooper Earth Tech, Inc Recovery, Reuse, and Recycling of Debris From the Demolition of the Grace and Pearman Bridges At Charleston, South Carolina
Presenter 4	MODERATED PANEL SESSION	Hugo Rodriguez Tetra Tech A Water Quality Impact Analysis for a Proposed Terminal on the Charleston Harbor System	MODERATED PANEL SESSION	MODERATED PANEL SESSION	George C. Greene IV Water Missions International Potable Water Needs in the Aftermath of a Disaster: A Case Study from the 2005 Tsunami Relief Effort in Sri Lanka and Hurricane Katrina Relief Effort
4:00-5:00	Final Plenary - Wrap Up & Closing Remarks Gene Eidson, Clemson University Restoration Institute (Ballroom B)				