

**22nd Annual NC Onsite Wastewater Conference
April 24-26, 2006**

Advancements in Systems, Standardization and Technology

Monday 4-24-06 AM Opening Session

Technology Case Studies – How well do they work in the real world		
David Lindbo, Moderator		
815-830	Welcome	David Lindbo, North Carolina State University
830-915	Aerobic Treatment Units	Bruce Lesikar, Texas A&M University
915-1000	Recirculating Media Filters	John Buchanan, University of Tennessee
1000-1030	BREAK	
1030-1115	Performance of Pretreatment Systems	George Loomis, University of Rhode Island
1115-1200	Biomat Effects On Wastewater Infiltration From Onsite System Dispersal Trenches	Larry West, University of Georgia

Breakout Session 1: Monday 4-24-06 PM

Quality Control/Quality Assurance/Quality Assessment of: Site evaluation, design, installation, inspection.		
Diana Rashash, Moderator		
130-200	What needs to be done – History of tort claims	Andy Adams, NCDENR-OSWW
200-300	Permit Nightmares Case Studies (.1939-.1945) Case Studies (.1950+)	Gene Young, NCDENR-OSWW
300-330	BREAK	
330-400	An overview of programs across the state	Kae Arrington – NCDENR-OSWW
430-500	County Quality Assurance Case Studies	David Womack, Union Co. HD and Donnie Newton, Guilford Co. HD

Breakout Session 2: Monday 4-25-06 PM

Technology Case Studies – Trenches		
Drew Morgan, Moderator		
130-200	Alternative Trenches	Bob Rubin, North Carolina State University, emeritus
200-230	Soil Evaluations, Non-Gravel Drainfield Products, and Drainfield Size Reduction	Larry West, University of Georgia
230-300	BREAK	
300-330	Performance of Chamber and EZ1203H Systems Compared to Conventional Gravel Septic Tank Systems in North Carolina	Bob Uebler, NCDENR-OSWW
330-400	Reporting County Level On-Site Activities: Using the New Format - What We're Learning	Kae Arrington, NCDENR-OSWW
400-430	Tire Chips Installations Panel Discussion	Barbara Grimes, NCDENR-OSWW

Breakout Session 3: Monday 4-24-06 PM

Dealing with proprietary systems and components		
Heath Ward, Moderator		
130-200	Case studies: Risers and Tank Locators	Tricia Angoli, NCDENR-OSWW
200-230	Drain field options after advanced pretreatment	George Loomis, University of Rhode Island
230-300	Pumping to proprietary systems	George Pendergrass, Catawba, Co. HD
300-330	BREAK	
330-400	How to inspect a peat system and small modifications to your LPP system	Rob Crawford, Dare Co. HD
400-430	Overview of sampling	Steven Berkowitz, NCDENR-OSWW

Breakout Session 4: Tuesday 4-25-06 AM

Drip systems		
Bob Uebler, Moderator		
830-900	Design Overview	John Buchanan, University of Tennessee
900-930	Drip Irrigation effect on Soil Properties	Bruce Lesikar, Texas A&M University
930-1000	Combining Drip with pretreatment technologies	Steve Barry, AQWA, Inc.
1000-1030	Drip Case Study	Tom Hinson, Cpec
1030-1100	BREAK	
1100-1200	Panel Discussion with Drip Mfg.	

Breakout Session 5: Tuesday 4-25-06 AM

Dosing systems (pumps, controls etc.)		
Anne Lowry, Moderator		
830-930	Pump Overview:	Darren Meyers, Zoeller, Inc.
930-1000	Control Panels vs piggy-back systems	Eric Valentine, American Manufacturing, Inc.
1000-1030	BREAK	
1030-1100	Pump distribution systems	Reed Cranford, Union Co. HD
1100-1130	Pump longevity and trouble shooting	Tim Banister, Tri-County Management
1130-1200	Force Mains Issues	John Phillips, Diehl and Phillips, Inc.

Breakout Session 6: Tuesday 4-25-06 AM

Volunteered Papers Barbara Grimes, Moderator		
830-900	Evaluation of Soil Properties as Potential Indices of Suitability for On-site Septic Systems	David Ward, Alamance County Health Dept.
900-930	Performance of Onsite Wastewater Systems in Sandy, High Water Table Soils in the Coastal Region of South Carolina: Effects on Ground Water Quality	Dave Hargett, Hargett-North Wind, Inc.;
930-1000	BREAK	
1000-1020	The Daytona 500 of Wastewater Treatment: Case studies of weekly rental homes on the coast of North Carolina.	Steve Barry AQWA, Inc.
1020-1040	Importance of Laminar Flow Design in Septic Tanks	Craig Jowett, Waterloo Biofilter Systems, Ontario Canada
1040-1100	Carteret County Poonami	Robert McCabe and Ben Kane, Carteret County HD
1100-1120	Developing Indicators of Contamination Originating from On-Site Wastewater Treatment	Talia Chalew, UNC-CH, School of Public Health/Dept. of Env. Sciences and Engineering
1120-1140	Hormones and Nonionic Surfactants in Septic and Soil Samples: Analytical Methods and System Evaluation	Benjamin D. Stanford, UNC-CH, School of Public Health/Dept. of Env. Sciences and Engineering
1140-1200	Coastal and Riverine Floodplain Issues and Resources	Ed Curtis and Philip S. Letsinger, Floodplain Management Branch NC Emergency Management

Tuesday 4-25-06 PM Closing Session

Site Evaluation Standards		
Tim Crissman, Moderator		
130-200	NCDENR-OSWW Standards (Rules)	Kevin Neal and Gene Young, NCDENR-OSWW
200-230	ASTM standards	Joe Lynn, NCDENR-OSWW
230-300	Making the best use of your time	Joe West, Harnett Co. HD
300-330	BREAK	
330-400	Use and abuse of soil survey and relate products	Jennifer Tredway, USDA-NRCS
400-430	How many data points is enough?	Jim Beeson, Soil and Environmental Consultants, Inc.
430-500	What is a competent and complete site report?	Joe Kleiss, North Carolina State University