



2010 East Tennessee Environmental Conference

Speaker Biographies & Abstracts

Becky Anderson

Executive Director

Mitchell County Economic Development Commission

EDUCATION:

B.A.-Western Carolina University

BIOGRAPHY

Becky Anderson of Becky Anderson Consulting, Inc. serves as a Consultant for cultural and economic development projects related to The Creative Economy. Most recently she served as Founding Director of HandMade in America, a community development organization located in Western North Carolina. HandMade in America works to implement environmentally sustainable economic solutions that emphasize the craft industry, enhance opportunities in the marketplace, and develop entrepreneurial strategies for the region's artisans. HandMade was the recipient of The Economic Development Planning Award of The American Planning Association, The Award of Merit for Sustainable Development from Renew America, Inc., The Best Community Outreach Award from Niche Magazine. In 2003, Worth Magazine ranked HandMade as one of the top 24 arts non-profits in the United States.

Prior to HandMade, she served as Director of Economic Development for the Asheville Chamber of Commerce, Director of Community Development for Land of Sky Regional Council and Director of Economic Development for the City of Asheville. In 2000, U.S. News and World Report named Anderson as one of the United States top 20 visionaries for her work in community and civic development.

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Session(s)

Economics, **Session**
Keynote
Tuesday, 3/16/2010
Time: 9:15-9:45
Title: Small Voices-Big Songs

ABSTRACT

Learn how a small rural mountain county in western North Carolina creates a series of green energy initiatives through partnerships and citizen involvement that becomes a prototype for its region.

CONTACT INFORMATION

Session(s)

, **Session**
Time:
Title:

ABSTRACT

John Atkins, Jr.

President

TerraShares

EDUCATION:

B.A.-Kent State University, Kent, Ohio, International Curriculum, 1971
President of the Student Body, 1967
Graduate Studies at Kent State University School of Business, 1973-74
Three European Management Training Assignments and Two Residencies in Germany
Kepner-Tregoe, Strategic Decision Making and Reliability Assessment, 1975
AT&T Archetype-Based Team Building and Quality Management, 1996
Registered Representative (NYSE, NASD, SEC) in General Securities (Series 7, 63)

BIOGRAPHY

John Atkins has a corporate career in financial and sales management with Demag AG, Robert Bosch and Mahle GmbH, three leading German firms. He founded Environmental Technologies, a solar and alternative energy distributor in 5 states; Sr. Business Advisor with Tennessee Innovation Center, Oak Ridge, TN, Venture Capital Technology fund; Managing Director, of two investment banking firms; Founder of Atkins Capital Advisors, Business Development Consulting and Corporate Funding; Founder of TerraShares. Also, offering Go Green advisory services using a seven member technical team with credentials in environmental engineering, energy management, LEED building, HERS & Energy Star building science, Green IT, Green Project finance, architecture, management sustainability strategies.

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Session(s)

Economics, **Session**
Three
Tuesday, 3/16/2010
Time: 12:45-1:25
Title: Financing Renewable Energy

Julie Aslinger

EDUCATION:

BIOGRAPHY

ABSTRACT

Financing drives virtually all renewable and environmental projects. The explosive emergence of Third Party Financing/Ownership (TPO) in renewable energy, particularly solar, ranks it as a landmark advance in environmental stewardship and the greening of businesses and organizations. Common in many industries but new to solar, third parties funded just 10% of commercial/industrial solar projects in 2007 but more than half by 2008. Likely surpassing 75% by 2010, TPO is now the mainstream means of funding renewable energy.

This paper describes Third Party Funding benefits, where and by whom it is used, and who advocates it. We will explore how TPO works with federal, state and utility incentives, how not-for-profit entities can eliminate up front capital outlays, and why businesses use TPO. This presentation describes the practical considerations, whether a downside exists and will offer a practical guide to accessing Third Party Funding for businesses, not-for-profits and government.

Gary Barrigar

President

Boone Watershed Partnership, Inc.

EDUCATION:

M.S.T.-Emphasis in Ecology, Florida Atlantic University
1974

B.S.-Science Education, University of Tennessee, 1967

BIOGRAPHY

Gary Barrigar, a retired teacher from Elizabethton, TN, works part-time as a TVA Environmental Specialist on the Holston-Cherokee-Douglas Watershed Team. Since 2005 he has served as President of the Boone Watershed Partnership, Inc., a nonprofit organization working for clean water in east Tennessee. He serves on the board of the Overmountain Chapter of Trout Unlimited, Southern Appalachian Highlands Conservancy, and Friends of Roan Mountain. Gary taught high school sciences for 38 years, devoting many hours working with students in the field to monitor local streams. Under his direction, the Elizabethton High Ecology Club received several awards from the TN Department of Conservation. During his teaching career, Gary received honors from the TN Academy of Science, TN Conservation League, TN Environmental Education Association, TN Department of Conservation, and TN Department of Education.

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Session(s)

Economics, **Session**
Four
Wednesday, 3/17/2010
Time: 11:35-12:15
Title: The Boone Watershed Partnership: Working to Restore and Protect a Northeast Tennessee Watershed

ABSTRACT

Studies show that watershed associations enhance the ability of communities to obtain funding and to implement watershed protection actions, as well as educate and involve the community in watershed improvement. Furthermore, the economic benefit and increased overall community well-being of watershed protection and stream restoration provided by watershed groups is well established.

For 13 years, the Boone Watershed Partnership has been instrumental in providing this community service to upper east Tennessee.

Channing Bennett

Environmental Scientist

Environmental Protection Agency

EDUCATION:

Master's Degree in Biology from Tennessee Technological University, Cookeville, TN

Bachelor's Degree in Biology from Southern University, New Orleans, LA

BIOGRAPHY

Channing Bennett is an Environmental Scientist with EPA's RCRA Underground Storage Tanks (RUST) Section in Region 4. He has worked in the RCRA permit and corrective action section as a Correction Action Specialist for 16 years. Channing presently serves as the Revitalization Coordinator for Petroleum Sites. He is responsible for coordination of efforts to assist federal, state and local governments and various community stakeholders to collaborate with the appropriate experts to identify resources available to assess, cleanup and revitalize petroleum contaminated properties. He was also a member of the National RCRA Revitalization Workgroup headed by EPA Headquarters Office of Solid Waste.

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Session(s)

Economics, **Session**
Four
Tuesday, 3/16/2010
Time: 1:35-2:15
Title: EPA Region IV UST Petroleum Brownfields Revitalization Efforts

ABSTRACT

The Petroleum Brownfield's Revitalization Initiative is designed to remove the environmental component of that investment risk. Success of the Initiative depends on effective communication and cooperation between various stakeholders. This initiative is intended to foster local economic development projects by providing technical assistance, environmental assessments, and the cleanup of petroleum contaminated sites and other Brownfield sites. The presentation will focus on various tools, ideas and strategies used and revitalization success stories. The overall of the initiative is to reuse properties for a more vibrant and attractive community.

Rick Bolton

Director, Air Quality Services

Center for Toxicology and Environmental Health, LLC

EDUCATION:

B.S.-Biology/Chemistry, University of Memphis, 1972

BIOGRAPHY

From 1982 to 2006, Mr. Bolton was the Industrial Management Representative on the Tennessee Air Pollution Control Board and served as Vice-Chairman of this regulatory agency from 1997 to 2006. In this role, Mr. Bolton routinely works with numerous stakeholders to address and resolve issues. He has been an active

member of the Tennessee Chamber of Commerce and Industry since 1979 and has participated in the negotiation and advocacy of environmental legislative and regulatory issues. He served as Chairman of the Environmental Committee from 1990 to 2005. On January 5, 2005, Mr. Bolton was appointed by the U.S. Administrator of the Environmental Protection Agency to a two-year term on the Agency's Clean Air Act Advisory Committee (CAAAC). He was reappointed to the CAAAC in January 2008. This committee was established by Congress in 1990 to provide high-level policy advice to EPA on economic, environmental, technical/scientific, and enforcement issues associated with the Clean Air Act.

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Session(s)

Industry, **Session** Three
Wednesday, 3/17/2010
Time: 10:45-11:25
Title: Admitting What You Emit:
Requirements and Applicability of the New EPA Greenhouse Gases Reporting Rule

ABSTRACT

Annual reporting of greenhouse gas (GHG) emissions is mandatory under a new rule issued September 22, 2009 by EPA. Certain facilities that emit GHGs are obligated to report regardless of their level of emissions, while others must report only if their emissions exceed 25,000 tons CO2 equivalent. In addition, any facility with a total boiler capacity ≥ 30 mmBtu/hr will need to make a determination of applicability. The GHGs that must be reported include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and other fluorinated gases including nitrogen trifluoride and hydrofluorinated ethers. Under-reporting your emissions at this point could prove quite costly in the future as EPA may use reported data to set baselines for any new cap and trade regulation. To follow last year's talk on the preliminary rule, we will discuss applicability determination, details on the rule itself, and reporting strategies.

Ben Bolton

Environmental Scientist I

Center for Toxicology & Environmental Health, LLC

EDUCATION:

B.S.-Biology, Birmingham-Southern College
B.A.-English, Birmingham-Southern College

BIOGRAPHY

Mr. Bolton provides technical and administrative support for industrial clients facing air quality and environmental compliance issues. In 2006 and again in 2009, Mr. Bolton was named as the Tennessee Chamber of Commerce & Industry's representative on the Tennessee Water & Wastewater Financing Board. He is experienced in developing environmental compliance, quality improvement (QI), and human resource (HR) policies and programs. He has experience in Title V permitting and compliance issues, grant writing, litigation support, and ambient air monitoring.

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Session(s)

Industry, **Session** Three
Wednesday, 3/17/2010
Time: 10:45-11:25
Title: Admitting What You Emit:
Requirements and Applicability of the New EPA Greenhouse Gases Reporting Rule

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Annual reporting of greenhouse gas (GHG) emissions is mandatory under a new rule issued September 22, 2009 by EPA. Certain facilities that emit GHGs are obligated to report regardless of their level of emissions, while others must report only if their emissions exceed 25,000 tons CO2 equivalent. In addition, any facility with a total boiler capacity ≥ 30 mmBtu/hr will need to make a determination of applicability. The GHGs that must be reported include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and other fluorinated gases including nitrogen trifluoride and hydrofluorinated ethers. Under-reporting your emissions at this point could prove quite costly in the future as EPA may use reported data to set baselines for any new cap and trade regulation. To follow last year's talk on the preliminary rule, we will discuss applicability determination, details on the rule itself, and reporting strategies.

Connie Bond

Special Education Teacher
Huntingdon Primary School

EDUCATION:

B.S.-Exceptional Learning and Development, Bethel College, McKenzie, TN, May 2000
M.A.E.D.-Administration and Supervision, Bethel College, McKenzie, TN, May 2009

BIOGRAPHY

Connie Bond is a special education teacher and sponsor of the Wiser Miser energy conservation environmental team at Huntingdon Primary School in West Tennessee. She has taught K-3 special education students for the past ten years and has been involved with the third grade energy team for the past six years. The mission of the Wiser Miser team is to educate people about energy conservation and environmental stewardship. The team develops leadership and citizenship skills by reaching out to others in the community and supporting the elderly, disabled, and less fortunate by obtaining grants and raising funds through recycling and conservation related projects. It is the team's goal to start teaching students how to make "smart choices" at a young age so that life long decision processes of choosing to be wise consumers and good citizens of our community and our world will develop.

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Session(s)

Workshop, **Session** One
Tuesday, 3/16/2010
Time: 10:00-10:40
Title: Creative Kids Environmental Service Learning Projects

ABSTRACT

The award winning Wisser Miser energy team presentation will exhibit creative ways they teach others about taking care of their world. Ms. Bond and two of her students will also share ways that environmental projects can raise funds for service learning projects. Our presentation will highlight how students and schools can work together to educate themselves and their community about energy conservation. By working together to be wise stewards of our energy sources, we can create a healthier environment to live and raise our families. Some of our projects have included Walk to School Day, Cash for Trash Drive, Energy Star Change A Light, Change the World Day, and recycling. We have won the Good Sports Always Recycle Award twice, the Tennessee Governor's Environmental Stewardship Award, TN Clean Air Award, and in 2008 we were presented with the President's Environmental Youth Award in the Rose Garden of the White House.

David Borowski

Environmental Epidemiology Program Assistant
Director
State of Tennessee
Department of Health

EDUCATION:

B.S.-Marine Science, Eckerd College 1997;
M.S.-Environmental Science, Indiana University 1998

BIOGRAPHY

David graduated with a degree in Marine Science from Eckerd College in St. Petersburg, Florida and did his graduate training in Environmental Science at Indiana University in Bloomington, Indiana. In 1999, David started working with the Tennessee Department of Environment and Conservation. After a few years, he moved over to work for the Department of Health. David is now the Assistant Director of the Environmental Epidemiology Program which is funded by the federal Agency for Toxic Substances and Disease Registry. David works to keep the public safe from pollution associated with environmental sites.

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Session(s)

Health, **Session Two**
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: TVA/Kingston
Panel Discussion

Health, **Session One**
Wednesday, 3/17/2010
Time: 9:00-9:40
Title: TVA/Kingston
Panel Discussion

ABSTRACT

After the TVA Kingston Coal Ash Release, the Tennessee Department of Health worked with local, state, and federal emergency response agencies to make sure that people were safe. The Department of Health was a part of the initial emergency response, reviewed all of the environmental data, surveyed the local community, and participated in public meetings. The Department of Health prepared a written Public Health Assessment that documented all of the environmental sampling and the reasoning that went into the public health conclusions and recommendations that were made following the coal ash spill.

Stephen Brower

Senior Geoscientist
Environmental Standards, Inc.

EDUCATION:

B.S.-Geology, James Madison University, 1984
Master of Science Degree in Geology, West Virginia University, 1991

BIOGRAPHY

Mr. Brower has over 17 years of experience as a Geologist/Hydrogeologist for engineering and environmental consulting firms conducting subsurface soil and groundwater investigations. Mr. Brower has managed risk-based investigations, completed Brownfield projects, managed multi-million dollar remediation projects, and managed the installation of soil and groundwater remediation systems for petroleum-contaminated and chlorinated hydrocarbon-contaminated sites. He has also conducted and managed pilot studies for soil-vapor extraction and groundwater pump and treat design parameters. Mr. Brower has also performed multiple field audits on groundwater sampling, soil sampling, and vapor sampling programs.

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Session(s)

Environment, **Session One**
Tuesday, 3/16/2010
Time: 10:00-10:40
Title: Remediation and Cooperation at the Former Bishop Tube Facility

ABSTRACT

The Bishop Tube facility was formerly used to process precious metals and fabricate stainless steel specialty items and operated from 1951 until 1999 under various owners and has been vacant for the past 8 years. An innovative consent order and agreement between PA DEP and the property owner resulted in the installation of an aggressive soil vapor extraction (SVE) and air sparging (AS) remediation system. Historical manufacturing operations and materials handling resulted in releases of chlorinated solvents and fluoride in the soil and groundwater at the site.

The agreement between PA DEP and the owner outlined a cost and task sharing framework whereby the owner was responsible for remediating soil and PA DEP was responsible for remediating groundwater. Both soil and groundwater are now being treated by the one system meeting CO&A obligations for both parties on a cooperative basis.

Donna Burrus

Biology Lab Instructor, Outdoor Classroom Curator
Fayette Academy

EDUCATION:

Honorary Doctrate of Aerospace Medicology, Memphis State University, Certified Teambuilder and National Youth Trainer

BIOGRAPHY

Tennessee Energy Education Network Two Time Teacher of the Year

Tennessee Energy Education Network Two Time High School of the Year
 Tennessee Environmental Education Association Club of the Year Sponsor
 Southeast Regional Center for Drug Free Schools and Community Board Member
 Parent's Resource Center for Drug Information Board Member
 National Gardening Association Board Member
 Fayette County Science Fair Director
 Four Time Winner of Governor's Drug Free Tennessee Award
 Governor's Environmental Stewardship Award Runner-up
 National Energy Education Development Two Time High School of the Year
 Tennessee Department of Economic and Community Development Energy Division Teacher Trainer
 Wal-Mart Earth Day Every Day Challenge Finalist

CONTACT INFORMATION

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Session(s)

Workshop, **Session Two**
 Tuesday, 3/16/2010
Time: 10:50-11:30
Title: Think Globally, Act Locally: Students Taking the Lead; Two Time National and State Energy Education Network's High School Club of the Year

ABSTRACT

Student presenters share how to build a strong student team, set goals and objectives and verify results. Hear how service learning and community outreach addressing environmental stewardship walk hand in hand. Come away with state and national collaboration opportunities along with grant and foundation funding possibilities.

Cooperative effort between TVA, Tennessee Technological University, Morgan County Vocational Center, and the Scott County Schools to promote and use wind and solar energy in small demonstration projects on the Cumberland Plateau.

Larry Christley

Manager

State of Tennessee-Environment and Conservation
 Solid Waste Management, Planning & Financial Assistance Sect

EDUCATION:

B.S.-Biology, University of Tennessee at Martin

BIOGRAPHY

Originally a native of Memphis, Larry moved to Nashville in 1989 to work for the Nashville Metro Health Department as an Environmentalist conducting restaurant and public pool inspections for eleven years. In 2000, he accepted a position to manage a client service center for major medical transcription service with 180 employees. In 2003, he moved to a new position with TDEC in the Division of Solid Waste Management. He currently manages two sections that provide planning and financial assistance to the local municipal solid waste planning regions.

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Session(s)

Industry, **Session Four**
 Wednesday, 3/17/2010
Time: 11:35-12:15
Title: Scrap Tires and the New Goal for Waste Reduction

ABSTRACT

In 2007, Tennessee took the first step towards setting a new waste reduction goal by enacting Public Chapter 462. Three years later Tennessee is near the end of the rulemaking process to enable setting the new goal. What is the progress to date, who does it affect and how will it affect them.

A Department Task Force studied the existing scrap tire system and worked to eliminate problems associated with a waste stream that touches every county. Suggested changes could completely change the existing system and each dealer would be responsible for the scrap tires they generate. This would be a complete change of the tire program as we have known it.

John Cannon

Teacher
 Scott High School

EDUCATION:

B.S.-Ball State University (1969);
 M.A.-Ball State University (1973);
 Ed.S.-Tennessee Technological University (2006)

BIOGRAPHY

Retired from National Park Service after 26 years as a Park Ranger working in seven different park areas. Retired from U. S. Coast Guard Reserve as a Master Chief Petty Officer. Taught Biology in LaPorte, Indiana for six years. Have taught Technology Engineering at Scott High School for nine years.

CONTACT INFORMATION

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Session(s)

Workshop, **Session Four**
 Tuesday, 3/16/2010
Time: 1:35-2:15
Title: Wind and Solar Energy Projects on the Cumberland Plateau

ABSTRACT

Steve Cooke

Engineer
 U.S. Department of Energy

EDUCATION:

B.S.-Mechanical Engineering, Tennessee Tech University;
 M.S.-Mechanical Engineering, University of Tennessee;
 Certified Project Manager Professional (PMP)

BIOGRAPHY

Mr. Cooke has worked for the U.S. Department of Energy for 19 years, most recently with the Oak Ridge Office Reindustrialization Program. He manages regulatory compliance in support of the redevelopment of the East Tennessee Technology Park (ETTP) into a private sector industrial park. Steve is responsible for developing the environmental documentation and working with the U.S. Environmental Protection Agency Region 4 and the Tennessee

Department of Environment and Conservation to obtain approvals for the transfer of ETP buildings and land parcels to the private sector. He is also responsible for developing business cases and coordinating with DOE Headquarters to obtain their approval of proposed property transfers.

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Session(s)

Economics, **Session Two**
Tuesday, 3/16/2010
Time: 10:50-11:30
Title:
Reindustrialization: A
Department of Energy
Perspective on
Successful Brownfields
Redevelopment in East
Tennessee

ABSTRACT

From 1942 until the 1980's DOE operated a gaseous diffusion plant in Oak Ridge, Tennessee that occupied ~1300 acres with 500 facilities. To accelerate remediation of the site, DOE established the Reindustrialization Program which also promotes economic development by making DOE assets such as land, buildings and infrastructure available to the private sector. The vision for the site is a self-sustaining industrial park renamed the Heritage Center. Through comprehensive planning and innovative thinking, DOE has reduced cleanup costs while creating jobs and tax revenues. Reindustrialization accomplishes its goals through a unique partnership between DOE, the community, and the regulators. To date, 10 buildings and ~550 acres of land have been transferred, resulting in ~\$13M dollars in avoided demolition costs and ~\$6M/year in reduced operating costs. These savings are utilized to accelerate cleanup of higher risk facilities. This presentation tells the Reindustrialization story.

Michael Corn

President
AquAeTer, Inc.

EDUCATION:

M.S.-Environmental & Water Resources Engineering,
Vanderbilt University
B.S.-Nuclear Engineering, University of Tennessee

BIOGRAPHY

Mr. Corn is the president of AquAeTer, Inc. located in Brentwood, Tennessee. Mr. Corn has over 30 years of experience in environmental engineering and provides technical direction for environmental projects involving water quality; contaminant transport; fate and effects analyses; groundwater, surface water resources; air emissions; permitting; and solid, hazardous, and nuclear waste management. Mr. Corn also provides expert reports, testimony, and litigation support. He has implemented numerous remediation projects, and is a co-holder of a U.S. Patent for a hazardous waste land treatment unit and is a co-inventor of a U.S. Patent for an in-situ bioremediation system. Mr. Corn is also an adjunct professor of environmental engineering at Vanderbilt University where he teaches classes on various environmental topics. He also serves on the board of the Harpeth River Watershed Association.

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Session(s)

Environment, **Session Two**
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: Sustainable
Environmental
Solutions in
Remediation Waste
Water and Landfill
Applications

ABSTRACT

Three case studies featuring recent sustainable projects that meet the three pillars of sustainability: economic, environmental, and social development. These case studies will include a remediation system that provides an economic, low-energy, and cost-effective method to treating groundwater contaminated with double-bonded carbons. The 2nd case study will feature a recent wastewater application using solar powered basin mixers. The 3rd project features an application of an evapotranspirative landfill cover that provides performance improvements and cost savings over traditional RCRA covers.

Emily DeVillers

Education Coordinator
East Tennessee Clean Fuels Coalition

EDUCATION:

B.A.-Politics and Government, Ripon College; B.A.-
Environmental Studies, Ripon College

BIOGRAPHY

Emily DeVillers is from Green Bay, Wisconsin and is a recent graduate of Ripon College in Ripon, Wisconsin. She is currently an AmeriCorps member working with East Tennessee Clean Fuels Coalition. As Education Coordinator for ETCFC, Emily has presented to over 2,000 students ranging from 1st graders to high school seniors in East Tennessee about the negative effects of burning petroleum oil and the benefits of alternative fuels and technologies.

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Session(s)

Workshop, **Session Five**
Tuesday, 3/16/2010
Time: 2:30-3:10
Title: Alternative Fuels

ABSTRACT

Many counties in East Tennessee are not meeting the national standards for air quality due to the amount of pollution in the air that is largely contributed by vehicle emissions. Air pollution has been shown to cause several negative health effects, especially to children. Moreover, fossil fuel consumption releases greenhouse gas emissions that contribute to the threat of climate change. Also, because of America's dependence on petroleum oil, the U.S. imports almost 60% of all of the oil that is used. To reduce air pollution and gain energy independence, many alternative fuels and technologies have been developed that lower harmful tailpipe emissions and are more fuel efficient. The presentation will include general information about air pollution and the solution of alternative fuels. However, the main part of the presentation will be a Jeopardy game on PowerPoint that is used to test middle and

high school students on what they learned during the presentation and to also keep it interactive and engaging.

Brajesh Dubey

Assistant Professor
East Tennessee State University
Environmental Health

EDUCATION:

Ph.D.-Environmental Engineering Sciences, University of Florida, Gainesville, Florida

BIOGRAPHY

Dr. Brajesh Dubey graduated with his Ph.D. in 2005 from University of Florida. Dr. Dubey was heavily involved in many different research projects related to solid and hazardous waste management during his stay at UF. His Ph.D. research focus was on treated wood and its environmental and human health impacts. Dr. Dubey demonstrated himself to be one of the Department's top contributors during his tenure at UF. He was awarded an Outstanding International Student Award from UF and Ron Cockcroft Award from International Research Group in Wood Protection, Sweden in 2004. His research contributions on the environmental impacts of treated wood helped shape national policy in US on this subject. Before joining ETSU, Dr. Dubey served as a Senior Lecturer (Environmental Engineering) at the University of Auckland in Auckland, NZ. His research interests include fate and transport of pollutants in the environment, beneficial reuse of waste material, risk assessment and waste disposal issues.

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Session(s)

Health, **Session Three**
Tuesday, 3/16/2010
Time: 12:45-1:25
Title: Environmental Risk Assessment for Assessing Beneficial Reuse and Disposal Options of Waste Materials: Issues and Challenges

ABSTRACT

When examining the suitability of a proposed reuse application/disposal options, the desire to use the waste materials must be balanced with the need to minimize possible impacts on human health and the environment. Typical risk assessment procedures developed for contaminated soils, which examine exposure through a variety of pathways, are usually applied. The two exposure routes commonly examined are direct human exposure (e.g., inhalation, dermal contact, ingestion) and exposure through the consumption of contaminated groundwater. In this presentation, the approach for risk assessment used in the country will be presented and the challenges and issues with the existing protocols in terms of its adaptability for newer waste stream such as electronic waste, treated wood waste and upcoming nano particle containing waste will be discussed with examples from ongoing/completed research projects the presenter has been associated with during last several years.

Teresa Farmer

Green Program Specialist
Kelsan Inc

EDUCATION:

L.E.E.D. Accredited Professional;
Certification Expert

I.S.S.A.

BIOGRAPHY

Teresa Farmer is the Sustainability Consultant for Kelsan. In her role, Ms. Farmer works with Kelsan's customers to establish green cleaning programs. She has assisted with the LEED-EB certification of the John Duncan Federal Building in Knoxville, TN and worked with the University of Tennessee to certify their cleaning staff under the Green Seal Cleaning Standard, GS-42. LEED-AP, I.C.E. and Green Cleaning Professional are among her credentials.

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Session(s)

Health, **Session Six**
Tuesday, 3/16/2010
Time: 3:15-4:00
Title: Planning and Executing Your Green Program

ABSTRACT

In addition to green cleaning there are various areas to make changes that can help develop a green program in a facility. Areas to consider are water conservation through auto faucets and waterfree urinals and energy savings through day cleaning and energy efficient equipment. These are just a few examples of choices that you can make. Using preventative strategies such as entryway matting for example are ideas that can be used. Lastly, developing a Green Team and Communication Program will get occupants involved and lead to a successful program.

Mike Fontinell

Staff Manager
DENSO Manufacturing TN

EDUCATION:

B.S.-Environmental Engineering, Minor in Chemistry & Physics, Wilkes University

BIOGRAPHY

Mike Fontinell is a native of Shickshinny, Pennsylvania, the Land of the "Five Mountains". He graduated from Wilkes University with a Bachelors of Science degree in Environmental Engineering and Minors in Chemistry and Physics. He is currently employed as a Staff Member in the Environmental Engineering Department at DENSO Manufacturing Tennessee, Inc., in Maryville, TN. DENSO is a 2,900 employee facility that manufactures automotive components for Toyota, Honda, Harley Davidson and many other customers. DENSO reached the Performer Level of the Tennessee Pollution Prevention Program and is ISO14001 certified since 1997. Mike's daily responsibilities include: compliance with air quality, hazardous waste, solid waste and hazardous material shipping. In addition to daily responsibilities, his project work includes: reducing landfill waste, reducing hazardous waste and developing air pollution control strategies. Mike is a member of the Regional Clean Air Coalition and participates with Keep Blount Beautiful. In his spare time, Mike enjoys spending time with his four children, running, and coaching youth soccer.

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Session(s)

Industry, **Session One**
Tuesday, 3/16/2010
Time: 10:00-10:40
Title: Energy Success Story

project objectives. Unfortunately, most analytical buyers lack the appropriate chemistry knowledge and tend to purchase analytical services based solely on cost - with little or no regard to quality. When cost is the overriding factor, commercial laboratory offerings become less reliable in terms of generating accurate (and defensible) analytical results.

ABSTRACT

Consumers of energy cannot control utility costs since they are fixed by the utility providers. Instead, consumers may reduce their energy consumption with the intent of reducing cost and environmental impact. Tangible and intangible energy reduction efforts at DENSO Manufacturing Tennessee, Inc., an automotive supplier, will be discussed.

Jennifer Gable

Senior Quality Assurance Chemist
Environmental Standards, Inc.

EDUCATION:

B.S.-Chemistry, Bloomsburg University (Pennsylvania), 2002
Currently pursuing a Master of Science Degree in Chemistry at Villanova University

BIOGRAPHY

Ms. Gable serves as the QA Oversight Project Manager for a national Environmental Contract Laboratory Program and coordinates discrete and ongoing quality monitoring activities such as single-blind and double-blind performance evaluation studies, coordinates laboratory and field audits, and provides oversight of project data validation activities and overall laboratory program technical support. She has prepared laboratory technical specification manuals for several corporate laboratory programs and has developed project-specific quality assurance project plans encompassing field activities, laboratory analysis, and data management. Ms. Gable has conducted laboratory audits of several environmental laboratories to assess organic, inorganic, wet chemistry, and industrial hygiene parameters with respect to laboratory standard operating procedures, good laboratory practice, and client-specific or project-specific technical requirements.

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Session(s)

Industry, **Session Two**
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: Educating Analytical Buyers to Balance Cost and Data Quality When Addressing Environmental Liabilities

ABSTRACT

The flexibility afforded by various performance-based regulatory initiatives encourages new analytical technologies to be developed and published prescriptive methods to be modified in order to meet project-specific objectives. The use of new or modified methods for the purpose of improving the overall cost and quality of environmental monitoring programs, however, requires that analytical service buyers become educated with respect to developing new methods or modifying existing methods to meet

Donna Garland-Robbins

Epidemiologist

Northeast TN Regional Public Health Office

EDUCATION:

Ph.D.-Public Health Epidemiology, University of Alabama Birmingham School of Public Health, Birmingham, AL, 2002;
M.P.H.-East Tennessee State University School of Public and Allied Health, Department of Health Education, Johnson City, TN, 1986;
B.S.-Community Health Education, East Tennessee State University, 1979;
A.S.D.H.-Dental Hygiene, East Tennessee State University, 1978

BIOGRAPHY

Donna has been the Epidemiologist for the Tennessee Department of Health, Northeast Region, in Johnson City, since March, 2002, and works with both the Public Health Emergency Preparedness (PHEP) and Communicable and Environmental Disease Services (CEDSS) Programs. As one of the first regional Epidemiologists hired in the State under the Public Health Emergency Preparedness Cooperative Agreement administered by the Centers for Disease Control and Prevention (CDC), she began developing Syndromic Surveillance with area hospital emergency departments and 911 call centers in late 2002. Since that time her role has expanded to include other program areas of infectious and non-infectious disease surveillance: Environmental Epidemiology, FoodNet, National Electronic Disease Surveillance System (NEDSS), and NER Community Health Assessment. She is also a working member of the CareSpark Population Health Committee and Mountain Empire Public Health Emergency Coordinating Council.

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Session(s)

Health, **Session Three**
Wednesday, 3/17/2010
Time: 10:45-11:25
Title: Spotlight on Non-Traditional Disease Surveillance: Syndromic Surveillance and FoodNet

ABSTRACT

Syndromic Surveillance is disease monitoring that uses data from sources such as 911 call centers, hospital emergency departments, and school systems to detect possible outbreaks through early detection of biological- and/or chemical-related 'syndromes'. This non-traditional type of disease surveillance was originally designed for projection of large-scale (possible terrorist) events and is currently used to augment or supplement existing reporting mechanisms (and even provide quality control). The Foodborne Diseases Active Surveillance Network (FoodNet) is the principle foodborne disease component of CDC's Emerging Infections Program (EIP) and a collaborative project of the CDC, ten EIP sites (including Tennessee), the U.S. Department of Agriculture (USDA), and the Food and Drug Administration (FDA). FoodNet objectives include determining and monitoring trends of the burden of

foodborne illness and attributing the burden to specific foods and settings.

Shaun Gilday

Project Geoscientist
Environmental Standards, Inc.

EDUCATION:

B.S.-Environmental Science, University of Delaware, 2004
Completed advanced credit course work in GIS,
Geophysics & Hydrogeology in 2004

BIOGRAPHY

Mr. Gilday is experienced in utilizing GIS technology to manage environmental data so the data can be efficiently stored, retrieved, analyzed, and displayed in the form of powerful visualization maps, including AutoCAD figure maps containing aerial photographs and site features. Mr. Gilday is highly experienced in the use of both numerical and analytical fate and transport models and numerical and analytical groundwater flow models, as well as other analytical tools common to the groundwater modeling industry. Utilizing EVS (3-dimensional Environmental Visualization Systems), Mr. Gilday has produced technical and detailed three-dimensional sub-surface contamination plumes.

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Session(s)

Environment, **Session**
Four
Wednesday, 3/17/2010
Time: 11:35-12:15
Title: Assessing the
Associated Carbon
Footprint for the
Purposes of Selecting
Bioremediation over
Traditional
Remediation Strategies

ABSTRACT

The driving force behind most cleanup strategies at retail petroleum sites is one of efficiency and necessity, revealed when one remediation strategy is chosen over another. Associated greenhouse gas (GHG) production is seldom taken into account. The climate change linked to increased production of GHG creates a climatological issue typically not considered when remediating sites with soil and/or groundwater contamination.

After providing an assessment of 12 retail petroleum sites in New Jersey, Environmental Standards created a model where the carbon footprint and GHG production of Soil Vapor Extraction (SVE), Air Sparge (AS), pump and treat, and high vacuum remediation systems were compared to the carbon footprint and GHG production of bioremediation strategies.

Amanda Gricunas

Teacher
Greeneville Middle School

EDUCATION:

B.S.-Art Instruction, University of Tennessee; M.Ed.-Art
Instruction, University of Tennessee

BIOGRAPHY

Ms. Gricunas grew up in Greeneville and currently teaches at Greeneville Middle School, where she has helped build an outdoor classroom and student-run recycling program through fundraising and community support.

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Session(s)

Workshop, **Session** Six
Tuesday, 3/16/2010
Time: 3:15-4:00
Title: Enhanced
Learning

ABSTRACT

The presentation will focus on how to enhance learning in all subject areas, including character education for children and adolescents through environmental education, as well as how she worked with nonprofits and local granting institutions to secure funding for the outdoor classroom, which includes on-site composting, a garden, and a miniature orchard. She is contributing to environmental conservation by teaching the principles of stewardship to the upcoming generation of Tennesseans.

Fred Grogan

Landscape Architect / Land Planner
Equinox Environmental, Consultation and Design, INC.

EDUCATION:

Bachelor of Landscape Architecture, Mississippi State
University

BIOGRAPHY

Fred has over 7 years of professional experience working in the Landscape Architecture/Land Planning field. Fred earned a Bachelor's degree in Landscape Architecture from Mississippi State University and Fred's focus since that time has been directed toward environmental-based planning, regional ecology, & landscape contracting. By assimilating his educational background & his work experience, Fred is able to effectively bridge the gap that is often associated between traditional engineering practices & environmentally sensitive design. Aside from his design experience, Fred also maintains invaluable technical skills including: road design, GIS analysis, zoning compliance, grading, drainage, erosion control permitting, stormwater design, watershed planning, master planning, & bio-engineering.

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Session(s)

Environment, **Session**
Five
Tuesday, 3/16/2010
Time: 2:30-3:10
Title: Environment-
Stormwater: Aesthetic
Treatment
Opportunities

ABSTRACT

Simply stated, stormwater is the flow of rainwater after it hits the ground. During dry periods, the ground often collects pollutants such as brake dust, fertilizer, oil, and various other chemicals. Traditionally, stormwater has been treated as an element that is removed from development sites as fast as possible. Through a system of collection devices and piping, these "closed systems" convey water effectively, but with excessive velocity, no infiltration (reducing groundwater re-charge), and little opportunity for the removal of pollutants. Currently, a shift in this approach is occurring and it is now recommended to treat the water where the

raindrops fall. Stormwater BMPs (Best Management Practices) are systems that are the most appropriate solution. At a residential scale, these solutions offer promise as the preferred treatment methods to celebrate stormwater instead of dealing with it. Fred will be discussing project examples and lessons learned from multiple scales.

David Hrivnak

Industrial Engineer
Hybrid Joined Drives

EDUCATION:

B.S.-Industrial Engineering & Operations Research, Va
Tech;
M.B.A.-East Tennessee State University

BIOGRAPHY

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Session(s)

Industry, **Session Six**
Tuesday, 3/16/2010
Time: 3:15-4:00
Title: Hybrid Joined
Drives/Electric
Vehicles

ABSTRACT

Plug-in electric vehicles are making a strong comeback, and over the next 10 years we should see significant changes in transportation. The operating costs of electric vehicles are significantly less than a gasoline driven car and have many positive environmental impacts. This presentation will include a short history of electric vehicles, why they are poised to make a comeback and how this will benefit us. The presenter will additionally share some things learned about converting his full size truck to electric assist.

George Ivey

President and Senior Environmental Specialist
Ivey International, Inc.

EDUCATION:

Background includes: Organic Chemistry, Geological Engineering, and a Master's Certification in Project Management

BIOGRAPHY

George (Bud) Ivey is the President and Senior Remediation Specialist with Ivey International Inc. based in Vancouver, Canada. He has over twenty-two years of environmental remediation experience, and has worked on more than 1200 projects internationally. His background includes: Organic Chemistry, Geological Engineering, and a Master's Certification in Project Management providing him with a unique multidisciplinary perspective on today's environmental challenges.

Among some of his more recent accomplishments include his being awarded:

- 2008 The Environmental Business Journal Achievement Award: Bronze Medal,
- 2007 North American Frost & Sullivan Award, for Technology Innovation;
- 2006 The Globe Award for Environmental Innovation & Application

He holds several international patents; continues to conduct applied soil, solid waste, waste water, and groundwater research, and is currently working on several remediation projects around the world.

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Session(s)

Workshop, **Session One**
Wednesday, 3/17/2010
Time: 9:00-9:40
Title: Environmental Chemistry Made Easy for Site Remediation

Workshop, **Session Two**
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: Environmental Chemistry Made Easy for Site Remediation

Workshop, **Session Three**
Wednesday, 3/17/2010
Time: 10:45-11:25
Title: Environmental Chemistry Made Easy for Site Remediation

Workshop, **Session Four**
Wednesday, 3/17/2010
Time: 11:35-12:15
Title: Environmental Chemistry Made Easy for Site Remediation

ABSTRACT

Alan Jones

Manager Environmental Policy Office
State of Tennessee
Department of Transportation

EDUCATION:

B.S.-Public Administration, Murray State University, Western Kentucky; Masters Degree in Public Policy, Lyndon B. Johnson School of Public Affairs at The University of Texas at Austin

BIOGRAPHY

Alan joined TDOT in 2004, and he advises TDOT officials on environmental policy issues related to transportation, including air quality, energy, freight and land use. He manages the State's Congestion Mitigation and Air Quality Improvement (CMAQ) program that funds transportation projects that improve air quality, works with local, state and federal agencies to assess air quality impacts of transportation projects and develops strategies for enhancing TDOT's stewardship of the environment.

From 1999 to 2004, Alan was a Senior Policy Analyst with the Tennessee Department of Environment and Conservation working on air quality and energy issues. From 1994 to 1999, he was Executive Director of the Tennessee Environmental Council, a state environmental advocacy group.

Alan has over 30 years of experience in environmental and energy policy, including six years with the U.S. EPA in Washington, D.C., and two years with the Texas Natural Resources Conservation Commission in Austin.

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Session(s)

Economics, **Session Three**
Wednesday, 3/17/2010
Time: 10:45-11:25
Title: Transportation Conformity

ABSTRACT

Alan Jones will give an overview of transportation conformity, with details on how the program could affect northeast Tennessee (i.e., Sullivan and Washington Counties). He will describe the basic requirements of EPA's conformity rule, and the major features of the conformity program, such as the regional emissions analysis. Conformity is meant to be a bridge between transportation plans and state implementation plans (SIPs) or air quality plans.

Alan will also present information on the issues facing the MPOs in the Tri-Cities region as local, state and federal agencies prepare for possible designation of Sullivan and/or Washington Counties as ozone non-attainment areas. Non-attainment designation will, in turn, force affected counties to begin completing conformity determinations.

Robert Karesh

Statewide Stormwater Coordinator
State of Tennessee
Environment & Conservation

EDUCATION:

B.S.-Biology, University of Tennessee;
Working towards Masters in Environmental Planning,
University of Tennessee

BIOGRAPHY

Robert Karesh was hired as the Statewide Stormwater Coordinator for the Tennessee Department of Environment and Conservation (TDEC) to build a team approach to storm water permitting, education and compliance. Mr. Karesh has a strong background in stormwater regulation and water quality protection. He has served previously as the Storm Water Municipal Separate Storm Sewer System (MS4) Coordinator for Williamson County and as an Environmental Specialist for the Division of Water Pollution Control. Mr. Karesh facilitated the development of the Tennessee MS4 Working Group and the Tennessee Erosion Prevention and Sediment Control training program and handbook.

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Session(s)

Environment, **Session**
Four
Tuesday, 3/16/2010
Time: 1:35-2:15
Title: State of
Tennessee MS4
Overview and Recent
Permitting
Developments

ABSTRACT

This presentation provides an overview of TDEC's MS4 permitting program, and the recent development and re-issuance of the Phase II General MS4 permit. New program elements include post-construction run-off reduction and pollutant removal performance standards, visual and analytical monitoring, and improvements to enforcement and reporting requirements.

Sarah Ketron

Project Manager
Boone Watershed Partnership, Inc.
Sinking Creek and Gap Creek Restoration Projects

EDUCATION:

B.A.-Interdisciplinary Studies w/concentration in
Environmental Policy and Planning;
Minors in Sustainable Development and Latin American
Studies, Appalachian State University

BIOGRAPHY

Sarah Ketron began her career as a civil employee of the State of Florida Department of Environmental Protection in 2000. She spent the majority of her regulatory career in stormwater permitting, specifically, in the newly authorized NPDES Stormwater Program, at the state level. The bulk of her responsibility included working with Phase I MS4 communities, and in 2003, she launched the state's Phase II MS4 program. Coordinating with a total of roughly 330

permitted municipal entities, and working closely with the State's Total Maximum Daily Load program, Ms. Ketron became acquainted with the watershed-based planning process. Upon relocating to Tennessee in 2007, she was able to transition into her current position with the non-profit Boone Watershed Partnership. She currently serves as Project Manager for two 319 funded projects in northeast Tennessee.

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Session(s)

Economics, **Session**
Four
Wednesday, 3/17/2010
Time: 11:35-12:15
Title: The Boone
Watershed
Partnership: Working
to Restore and Protect
a Northeast Tennessee
Watershed

ABSTRACT

Studies show that watershed associations enhance the ability of communities to obtain funding and to implement watershed protection actions, as well as educate and involve the community in watershed improvement. Furthermore, the economic benefit and increased overall community well-being of watershed protection and stream restoration provided by watershed groups is well established. For 13 years, the Boone Watershed Partnership has been instrumental in providing this community service to upper east Tennessee.

Peter Kindfield

Principal and Lead Teacher
The Farm School

EDUCATION:

Ph.D.-Math and Science, University of California,
Berkeley; M.A.-Educational
Psychology, University of California, Berkeley

BIOGRAPHY

Peter Kindfield received his M.A. in Educational Psychology and his Ph.D. in Math and Science Education from the University of California, Berkeley. Peter is currently the Principal of The Farm School, Vice Chairperson of The National Coalition of Alternative Schools and Counselor and Curriculum Coordinator for The Kids to The Country Summer Program. His past careers include public school teacher, science coordinator for Community School District Two in New York City and Professor of Education at both the Brooklyn and City College campuses of the City University of New York. Peter's focus for the last several years has been organizing groups into learning communities so diversity becomes a resource as it is on basketball teams, construction crews, cross-functional business teams and in many other situations outside of schools rather than the obstacle it seems to be inside our school walls.

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Session(s)

Workshop, **Session**
Three
Tuesday, 3/16/2010
Time: 12:45-1:25
Title: Teaching
Permaculture and
Permaculture Teaching

ABSTRACT

Permaculture is an approach to design based on the idea that it is possible to design human systems (agricultural and other) that work with nature rather than against her and that such systems are key to the survival of the human race. In this workshop I will review the basic ideas and principles of permaculture design as they relate to agriculture and natural building. I will focus on teaching permaculture as part of life science and geology courses from a preschool to high school level. Most importantly I will talk about how to use permaculture to design educational programs. Thus, this workshop will be of primary interest to teachers and educational program designers.

David Kirschke

Deputy State Epidemiologist
State of Tennessee
Department of Health

EDUCATION:

M.D.-University of Florida, Gainesville Epidemic Intelligence Service, CDC

BIOGRAPHY

Dr. Kirschke attended medical school at the University of Florida and trained in Family Practice at Tallahassee Memorial Hospital. He spent two years as a Commissioned Officer in the Epidemic Intelligence Service with the Centers for Disease Control stationed at the Tennessee Department of Health (2001-2003). During that time he was involved in investigating a case of bioterrorism-related anthrax in Connecticut and SARS transmission on airlines. He spent four years (2003-2007) as Assistant Medical Director of the Northeast Tennessee Regional Health Department and Associate Professor of Clinical Medicine at the James H. Quillen College of Medicine at East Tennessee State University. He is currently the Deputy State Epidemiologist at the Tennessee Department of Health in Nashville and part of the mission control group in charge of the public health response to the H1N1 influenza pandemic.

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Session(s)

Health, **Session** Four
Wednesday, 3/17/2010
Time: 11:35-12:15
Title: H1N1 Influenza
Pandemic Update

ABSTRACT

2009 H1N1 (sometimes called "swine flu") is a new influenza virus causing illness in people. This new virus was first detected in the United States in April 2009. This virus is spreading from person-to-person worldwide, probably in much the same way that regular seasonal influenza viruses spread. On June 11, 2009, the World Health Organization (WHO) signaled that a pandemic of 2009 H1N1 flu was underway. This presentation will provide an update on the current situation with the pandemic and describe the public health response in Tennessee.

Sandra Knight

County Engineer
Bradley County

EDUCATION:

B.S.-Civil Engineering, University of Tennessee,
Knoxville; Registered Professional
Engineer

BIOGRAPHY

Sandra Knight has been the County Engineer for Bradley County for 14 years. As Department Head for Planning, Engineering, Building Inspection and Stormwater she sees all phases of development and growth. Sandra serves as the 2009-2010 President of the Tennessee Stormwater Association.

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Session(s)

Environment, **Session**
Three
Tuesday, 3/16/2010
Time: 12:45-1:25
Title: We're In This
Together - MS4s
Sharing Resources

ABSTRACT

This presentation will discuss the goals and objectives of the Tennessee Stormwater Association and several resources that the group is developing to meet the NPDES permit requirements for MS4s. Cynthia Allen, WaterWorks Coordinator from the MTSU Center for Environmental Education, will also discuss other opportunities and resources.

Paula Larson

Environmental Specialist
TDEC
Division of Remediation

EDUCATION:

B.A.-Biology and Chemistry, Dakota Wesleyan University,
Summa Cum Laude; M.S.-Environmental Health
Policy, University of Minnesota School of Public Health

BIOGRAPHY

Paula has been an Environmental Specialist with the State of TN for the last 3 years, after finishing her M.S. in Environmental Health Policy. Prior to accepting a position with the State, Paula has worked in a laboratory, a homeless shelter, and Bread for the World. Paula is an avid volunteer with the Live on the Green Concert Series, Second Harvest, Hands on Nashville, Untitled Artists Group, and Nashville's Earth Day Celebration. The intersection of public health and environmental health come together in her current job as the Brownfield's Outreach Coordinator.

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Session(s)

Economics, **Session**
Two
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: Solutions for
Redeveloping
Brownfields in Small
Communities: Tips and
Tricks for Rural
Tennessee

ABSTRACT

Re-developing Brownfields is a smart choice for the environment (ridding areas of blight, public health issues, and exposure to contaminants), as well as for economic growth and re-vitalization of communities in Tennessee. Building upon last year's presentation on Brownfield's funding opportunities, we will discuss the challenges of getting Brownfield's grants in small communities,

strategies on how to address Brownfields in the more rural communities of Tennessee, strategies for finding these Brownfield sites and resources available for communities to apply for and receive Brownfield's grants.

Trent LeCoultre

Environmental Health Scientist
Centers for Disease Control and Prevention
Agency for Toxic Substances and Disease Registry

EDUCATION:

B.S.-Geography and Geology, East Tennessee State University

BIOGRAPHY

LCDR Trent LeCoultre is an Environmental Health Scientist with ATSDR's Division of Health Assessment and Consultation. He works as a Technical Project Officer where his responsibilities include providing oversight and supervision of public health assessment activities in five State Public Health Department. LCDR LeCoultre serves as technical authority in policy and environmental health science, responsible for evaluating, providing information, and developing hypotheses regarding pathways of chemical exposure in humans. Before his current assignment, LCDR LeCoultre served as a health assessor in ATSDR's Federal Facilities Assessment Branch where he prepared public health assessments and consultations and recommended public health interventions to minimize exposures to toxic substances at Department of Energy sites. Prior to coming to ATSDR in 2003, LCDR LeCoultre worked as a watershed modeler for an environmental consulting firm in Atlanta and as a Consumer Safety Officer for the Food and Drug Administration.

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Session(s)

Health, **Session One**
Wednesday, 3/17/2010
Time: 9:00-9:40
Title: TVA/Kingston
Panel Discussion

Health, **Session Two**
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: TVA/Kingston
Panel Discussion

ABSTRACT

The TVA Kingston Coal Ash Release in December 2008 was an event that demanded partnership and cooperation from a variety of organizations to meet the challenge of potential health, economic and environmental impacts. ATSDR participated in this partnership to assess the situation, evaluate immediate and long-term solutions and prevent future releases of this kind. Trent will participate in the panel discussion to highlight those actions.

Ingrid Luffman

Lecturer
East Tennessee State University
Geosciences

EDUCATION:

B.Sc.-Mathematics-Sciences, University of Ottawa, Canada, 1993;
M.Sc.-Earth Sciences, University of Ottawa, Canada, 1997

BIOGRAPHY

Ingrid Luffman is a Lecturer in Geography at East Tennessee State University. She received her B.Sc. in Math-Science and her M.Sc. in Earth-Sciences from the University of Ottawa in Canada, and has lectured at ETSU since the late 90s. She returned to school in 2007 to complete a doctorate in geography at the University of Tennessee. She is currently in her third year of Ph.D. studies. Her research interests lie in the areas of physical geography and hydrology, while the current focus is on land use and its effect on water quality. Specifically, she identifies livestock, wildlife, and domestic animal population and distribution in a target watershed with the goal of using this information to project pathogen concentrations in the target stream and to identify sites where Best Management Practices (BMPs) can be most effectively implemented to improve water quality. Ingrid currently serves as Secretary for the Boone Watershed Partnership.

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Session(s)

Health, **Session Four**
Tuesday, 3/16/2010
Time: 1:35-2:15
Title: Assessing the
Impact of E. Coli
Impaired Streams on E.
Coli O157 Outbreaks in
Humans

ABSTRACT

The presence of fecal bacteria in streams and lakes is known to increase the risk of bacteria-related sickness in humans, and E. coli contaminated surface waters have been linked to several E. coli outbreaks. In Tennessee, 298 stream segments are impaired due to the presence of E. coli bacteria.

This study investigates the relationship between E. coli O157 outbreaks in 2007 and E. coli impaired surface water streams in 2006, including county-level socioeconomic and agricultural census data.

I used a Generalized Linear Model (GLM) to model E. coli cases using environmental, socioeconomic and agricultural data. The GLM was significant for population density ($p=0.000$) and cattle density ($p=0.001$), but the key environmental variable (the proportion of E. coli impaired streams in each county) was not significant, indicating that factors other than water quality are important in the transmission of E. coli in Tennessee counties in 2007.

Robert Martineau, Jr.

Attorney

Waller Lansden Dortch and Davis, LLP

EDUCATION:

B.A.-St. John's University; J.D.-University of Cincinnati

BIOGRAPHY

Bob Martineau is a partner at Waller Lansden in the firm's Regulatory and Environmental Law practice in Nashville, Tennessee. He is recognized in The Best Lawyers in America® (Woodward White, Inc.) for his work in environmental law, and has extensive experience with the Clean Air Act and a wide range of environmental matters. Mr. Martineau is the co-editor and contributing author of The Clean Air Act Handbook published by the ABA Press, and he is a ABA Section Council Member, Section of Natural Resources, Energy and Environment.

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Session(s)

Industry, **Session Three**
Tuesday, 3/16/2010
Time: 12:45-1:25
Title: EPA's Ozone
Standard: Non-
Attainment and
Implications for
Tennessee

presentation is to align attendees with available resources that will help them wade through the alphabet soup of sustainability in preparation for developing their organization's sustainability program.

Steve McCracken

General Manager of Kingston Ash Recovery Project
Tennessee Valley Authority

EDUCATION:

B.S.-Civil Engineering, University of Tennessee

BIOGRAPHY

Mr. McCracken, a native of Oak Ridge, is responsible for all aspects of TVA's role in the ash recovery project at the Kingston Fossil Plant in Harriman, Tennessee. He oversees the integration of all TVA activities on the site, which includes working with the plant manager on plant operations and the scrubber project and being closely involved in the conversion to dry ash storage and closing of existing ash impoundments. Mr. McCracken is a nationally recognized leader on clean-up and remediation projects, with successful decontamination and remediation projects completed in previous positions with the Department of Energy in Tennessee, Ohio and Missouri.

ABSTRACT

Ozone levels across the state in 2009 were the lowest on record. Although the weather played an important role, since 2000 ozone levels across the state are down an average of 20%. However, EPA is now proposing to lower the ozone standard again and will issue the final standard by August 2010. As EPA lowers the standard, more counties than ever before will be designated nonattainment. A non-attainment designation can limit economic development opportunities, adversely impact existing businesses and local communities. This program will look at emissions trends in the state, how many areas may become non-attainment under EPA's proposed lower standard, the ramifications a non-attainment designation can have on a community and ways communities can avoid or minimize its impacts.

Brad McAllister

Director
WAP Sustainability Consulting

EDUCATION:

B.S.-Ecology, University of Georgia;
M.S.-Environmental Science with Emphasis in Corporate and Government Sustainability, University of Tennessee, Chattanooga

BIOGRAPHY

Prior to joining WAP Sustainability, Brad worked at both the federal and local government levels. After graduating from the University of Georgia, Brad served in Alaska as a Resource Biologist for the National Marine Fisheries Services. Upon his return to the southeast, he worked on a diverse team to develop a comprehensive and award winning climate and sustainability action plan for the City of Chattanooga. With WAP Sustainability, Brad consults with businesses and local governments on many sustainability-related topics including carbon inventories, waste audits, life cycle assessments, strategic planning, policy analysis, funding, and stakeholder engagement.

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Session(s)

Industry, **Session One**
Wednesday, 3/17/2010
Time: 9:00-9:40
Title: Speaking the
Same Language:
Carbon Reduction and
Sustainability Program

ABSTRACT

Using case studies from professional experience, I will outline various methods of calculating, monitoring and interpreting sustainability metrics and reporting methods. The conversation will be kept at a level that will be of value to both professionals new to sustainability and those with experience in the field. Emphasis will be placed on the need to use unified and tried methods and the benefits of transparency in sustainability reporting. The goal of the

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Session(s)

Health, **Session One**
Wednesday, 3/17/2010
Time: 9:00-9:40
Title: TVA/Kingston
Panel Discussion

Health, **Session Two**
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: TVA/Kingston
Panel Discussion

ABSTRACT

Mr. McCracken will share information with attendees about TVA's management at the Ash Site in Kingston, TN.

Casey Mitchell

Community Development Coordinator
First TN Development District

EDUCATION:

Tennessee Technological University, 2005

BIOGRAPHY

Casey has been with the First TN Development District for 2 years. She graduated from Tennessee Technological University in December 2005 and had a short career in banking before entering the world of grant writing. In her 2 years at FTDD, Casey has been involved with 2 grants through the EPA Brownfield's Program. Casey also works with 6 other grant programs supporting the 8 county region she represents.

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Session(s)

Economics, **Session**
Two
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: Solutions for
Redeveloping
Brownfields in Small
Communities: Tips and
Tricks for Rural
Tennessee

ABSTRACT

Re-developing Brownfields is a smart choice for the environment (ridding areas of blight, public health issues, and exposure to contaminants), as well as for economic growth and re-vitalization of communities in Tennessee. Building upon last year's presentation on Brownfield's funding opportunities, we will discuss the challenges of getting Brownfield's grants in small communities, strategies on how to address Brownfields in the more rural communities of Tennessee, strategies for finding these Brownfield sites and resources available for communities to apply for and receive Brownfield's grants.

Scott Morie

Decommissioning Environmental Manager
Nuclear Fuel Services, Inc.

EDUCATION:

B.S.-Geology, University of Tennessee;
M.S.-Geology, University of Memphis

BIOGRAPHY

Scott Morie, is the Decommissioning Environmental Manager for Nuclear Fuel Services, Inc., 1205 Banner Hill Road, Erwin, Tennessee, 37650, has a B.S. and M.S. in Geology and is a Certified Professional Geologist by the National Association of State Boards of Geology, is a Certified Ground Water Professional by the National Ground Water Association, is a Certified Hazardous Materials Manager by the Institute of Hazardous Materials Management, and has published numerous articles on groundwater remediation, geology, and geochemistry.

CONTACT INFORMATION

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Session(s)

Industry, **Session** Five
Tuesday, 3/16/2010
Time: 2:30-3:10
Title: Remediating
Uranium Contaminated
Groundwater through
Engineered In-Situ
Precipitation

ABSTRACT

Active remediation of site groundwater containing both uranium and chlorinated solvents, through injection of organic carbon as an electron donor for uranium precipitation and for reductive dechlorination of the solvents, has resulted in significant decreases in uranium concentrations. Remediation data will be presented for this site, including a description of enhanced uranium immobilization by promoting the formation of iron sulfide minerals to ensure longevity of the insoluble uranium.

Brownie Newman

Project Finance Director
FLS Energy

EDUCATION:

B.A.-History and Political Science, Warren Wilson College

BIOGRAPHY

Brownie Newman is a partner and Project Finance Director with FLS Energy, the nation's most experienced developer of solar thermal energy systems for commercial facilities. Brownie helped develop FLS Energy's unique Power Purchase Agreement (PPA) business model, which has led to an exponential growth in the development of solar thermal energy projects. Brownie helped develop the solar project at Camp Lejeune Marine Corps Base which will be the largest solar thermal project yet developed in the eastern United States. Brownie grew up on a working farm in the Blue Ridge Mountains. He lives in Asheville, North Carolina.

CONTACT INFORMATION

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Session(s)

Economics, **Session**
Five
Tuesday, 3/16/2010
Time: 2:30-3:10
Title: Bringing Solar
Energy into the
Mainstream

ABSTRACT

The mission of FLS Energy is to make solar mainstream. FLS Energy has developed an innovative Power Purchase Agreement (PPA) model that allows businesses and organizations to access solar thermal energy for their facilities with no upfront cost required and which result in immediate reductions in operating costs. Solar thermal systems are especially beneficial for facilities that require large volumes of hot water, such as restaurants, hotels, schools, hospitals, detention facilities, dormitories, apartments and industrial operations.

William Paddock

Director
WAP Sustainability

EDUCATION:

B.S.-Environmental Science, University of Alabama;
M.B.A.-Institute for Sustainable Practice at Lipscomb
University

BIOGRAPHY

William offers a unique blend of business and environmental experience that compliments his nearly ten years of environmental affairs experience. His specialties include strategic planning, strategy development, process re-design, lifecycle assessment, communications, and marketing.

William is a graduate of University of Alabama with a B.S. in Environmental Science and holds a M.B.A. from The Institute for Sustainable Practice at Lipscomb University. Over the last ten years, William has worked with a variety of Fortune 100 companies, federal agencies, local governments and non-profits. His corporate experience includes The Kroger Company, Environmental Solutions and Innovations, Walmart, M&M Mars, Custom Packaging, Smart Data Strategies, HCA, Stanton Chase International, Patagonia and

Merck. In the public sector, William has worked with the U.S. Air Force, the U.S. EPA, the University of Alabama and the City of Cookeville, Tennessee.

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Session(s)

Industry, **Session** Four
Tuesday, 3/16/2010
Time: 1:35-2:15
Title: The Business Case for Sustainability in Local Governments and Corporations

ABSTRACT

This session will explore the process of building the case for sustainability in both local governments and industry. Case Studies from the City of Cookeville and from two Tennessee businesses will be used as teaching examples of entities who built a successful sustainability program that positively impacted the environment, and improved the public health of its citizens/employees. This session will help attendees re-think the messaging they use to build support and take action on environmental and public health issues, while showcasing best practices from both local and national leaders on the subject of environment and public health.

Mike Parker

Business Development
AquaShield Industrial, LLC

EDUCATION:

A.S.-Business, Dalton College, Dalton, GA
B.S.-Business, Covenant College, Chattanooga, TN

BIOGRAPHY

Mr. Parker has worked 3 years with AquaShield Industrial Business Development, a manufacture of stormwater treatment systems, mobile filter equipment, and antimicrobial filtration media in Chattanooga, Tennessee. Prior to this he worked 8 years for Safety-Kleen as Sales Manager for environmental projects and products.

CONTACT INFORMATION

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Session(s)

Environment, **Session** Six
Tuesday, 3/16/2010
Time: 3:15-4:00
Title: Turbidity Reduction Using Flocculation Enhanced Filtration Technology for Construction Sites

ABSTRACT

Clay and silt particles contained in stormwater discharges from construction and development (C&D) sites cannot be effectively removed by conventional BMPs that rely solely on settling. Sediment removal is improved when sufficient detention time or additives are implemented. Active Treatment Systems (ATS) can be used instead of sediment basins to meet challenging discharge permit requirements. ATS technologies are increasingly important in light of the EPA-proposed turbidity effluent limit of 13 NTUs. A mobile flocculation enhanced filtration system utilizing a treatment train approach has been developed to achieve stringent effluent turbidity goals. Three stages of treatment provide for: (a) introduction of flocculent, (b) hydrodynamic separation and coagulation, and (c) filtration prior to discharge. ATS field

demonstrations supporting 90% turbidity reduction are described. Flocculation enhanced filtration provides for reductions in treatment time, footprint and project costs.

Paul Platillero

Environmental Engineer
Strata Environmental

EDUCATION:

B.S.-Civil Engineering with Honors, University of Tennessee, May 1990;
Water Resources Management Courses, University of Alicante (Spain), 2002;
Environmental Management Courses, European Business School, Murcia (Spain), 2003-2004

BIOGRAPHY

Mr. Platillero has worked at the Tennessee Valley Authority (TVA) as an Engineering Aide through the University of Tennessee's CO-OP program. Began working as a Project Manager for the Aluminum Company of America, in Alcoa, Tennessee in 1990, focusing on large environmental assessment and remediation projects. Moved to Europe in 1997 and worked part-time as an independent environmental consultant conducting Environmental Health & Safety (EHS) audits in Spain, Italy, France, and England. Since 2005 has worked for Strata Environmental conducting multi-media environmental compliance audits, environmental site assessments, and other environmental consulting work. Licensed Professional Engineer (PE) in the State of Tennessee and Certified Professional Environmental Auditor (CPEA) from the Board of Environmental, Health & Safety Auditor Certifications (BEAC). Currently conducting energy audits and focusing on alternative energy solutions for industrial and commercial clients.

CONTACT INFORMATION

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Session(s)

Economics, **Session** One
Tuesday, 3/16/2010
Time: 10:00-10:40
Title: Solar Energy - The Future Now

ABSTRACT

Solar energy has been around for decades; however, it is currently experiencing a significant growth in the United States. New federal and state financial incentives have reduced the initial expense required to purchase and install solar systems for residential and/or commercial use. This session will focus on the basic concepts regarding solar energy including the difference between solar photovoltaic (PV) and solar thermal (heating) systems. We will consider practical applications for each type of solar system, as well as review applicable federal and state incentives. Some of the benefits of solar energy include: (1) renewable source of energy - unlimited potential, (2) clean energy -no hazardous air pollutants or waste generated, (3) zero emissions of Greenhouse Gases -no CO2e, (4) no need for transmission -no grid network/energy loss, (5) overall lower costs. These benefits contribute to a cleaner environment and better public health, making solar energy a very smart choice.

Kent Reid

Vice President Strategic Development
Veeder-Root

EDUCATION:

B.S.-Electronic Engineering, Utah State University

BIOGRAPHY

Kent Reid is the Vice President of Strategic Development for Veeder-Root, headquartered in Simsbury, Connecticut. Kent joined Veeder-Root in 2001 and is responsible for technology and product development to meet the ever-changing regulatory environment. He has been involved in the petroleum industry since 1988, primarily focused on environmental monitoring and compliance. Before joining Veeder-Root, Kent was with Red Jacket where he served as Vice President and General Manager of their Electronic Monitoring Division. Kent has a Bachelor of Science Degree in Electronic Engineering from Utah State University.

CONTACT INFORMATION

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Session(s)

Environment, **Session**
Two
Tuesday, 3/16/2010
Time: 10:50-11:30
Title: Effects of
Ethanol Blended Fuel
on Storage & Delivery
Systems

ABSTRACT

Veeder-Root will offer a presentation on the effects of ethanol blended fuel on storage and delivery systems, leak detection and inventory monitoring equipment used in retail and commercial gasoline dispensing facilities. This presentation will be focused on concerns for water intrusion into USTs and the need for proper detection. Ethanol absorbs water which can result in phase separation and existing water detection methods may not be adequate to protect the station owner, consumer and the environment. Veeder-Root has been working for several years to understand the potential problems in ethanol blended fuels, and we would like to discuss these problems along with possible solutions.

Joe Ricker

Senior Engineer
Premier Environmental Services, Inc.

EDUCATION:

B.S.-Civil Engineering, Rose-Hulman Institute of Tech.,
Terre Haute, IN; M.S.-Civil Engineering,
University of Memphis, Memphis, TN

BIOGRAPHY

Mr. Ricker is a Senior Engineer for Premier Environmental Services, Inc. and is responsible for managing various environmental investigation, remediation, and property evaluation and redevelopment projects. Mr. Ricker has over 15 years of industrial and environmental consulting experience involving the development, implementation and management of complex, interdisciplinary environmental investigation, remediation and construction projects involving past and present environmental liabilities. Mr. Ricker received his M.S. degree from the University of Memphis and his B.S. degree from Rose-Hulman Institute of Technology.

CONTACT INFORMATION

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Session(s)

Environment, **Session**
One
Wednesday, 3/17/2010
Time: 9:00-9:40
Title: A Practical
Method to Evaluate
Ground Water
Contaminant Plume
Stability

ABSTRACT

Understanding groundwater contaminant plume stability is an important step in the remedial planning process for a site. This paper presents a method for evaluating plume stability using innovative techniques to calculate and assess historical trends in various plume characteristics including area, average concentration, contaminant mass, and center of mass. Contaminant distribution isopleths are developed for several sampling events and the characteristics mentioned above are calculated for each event using numerical methods and engineering principles. A statistical trend analysis is then performed on the calculated values to assess temporal trends and ultimately to demonstrate the stability of the plume. Although other methods for assessing contaminant plume stability exist, this method has been shown to be efficient, reliable and applicable to any site with an established monitoring well network and multiple years of analytical data.

Amanda Rigell

Teacher
Greeneville Middle School

EDUCATION:

B.A.-English, Emory University; General
Course-Social Anthropology, The London School of
Economics; Teacher Certification in Biology, ETSU

BIOGRAPHY

Ms. Rigell grew up in Greeneville and currently teaches at Greeneville Middle School, where she has helped build an outdoor classroom and student-run recycling program through fundraising and community support.

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423-639-7841
rigella@gcschools.net

Session(s)

Workshop, **Session** Six
Tuesday, 3/16/2010
Time: 3:15-4:00
Title: Enhanced
Learning

ABSTRACT

The presentation will focus on how to enhance learning in all subject areas, including character education for children and adolescents through environmental education, as well as how she worked with nonprofits and local granting institutions to secure funding for the outdoor classroom, which includes on-site composting, a garden, and a miniature orchard. She is contributing to environmental conservation by teaching the principles of stewardship to the upcoming generation of Tennesseans.

Mel Robinson

Chemical Specialist
Bright Solutions

EDUCATION:

BIOGRAPHY

I provide end-users with the training and support they need to clean effectively. I have over 21 years experience in distribution and training countless janitorial staff and other end-users.

CONTACT INFORMATION

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Session(s)

Health, **Session Six**
Tuesday, 3/16/2010
Time: 3:15-4:00
Title: Planning and
Executing Your Green
Program

ABSTRACT

In addition to green cleaning there are various areas to make changes that can help develop a green program in a facility. Areas to consider are water conservation through auto faucets and waterfree urinals and energy savings through day cleaning and energy efficient equipment. These are just a few examples of choices that you can make. Using preventative strategies such as entryway matting for example are ideas that can be used. Lastly, developing a Green Team and Communication Program will get occupants involved and lead to a successful program.

Barbara Scott

Environmental Scientist
State of Tennessee
Environment and Conservation

EDUCATION:

B.S.-Industrial Technology, Georgia Southern University;
M.S.-Safety Management/Emergency Management,
University of Tennessee, Knoxville

BIOGRAPHY

Barbara Scott is an Environmental Specialist with the Tennessee Department of Environment and Conservation (TDEC) and is currently serving as the State's representative onsite at the TVA Kingston Ash Recovery Site. Prior to her employment with TDEC, Barbara held the position of On-Scene Coordinator in EPA's Emergency Response and Removal Branch, Region 4. She served as the EPA Region 4 Liaison Officer in the Mississippi Joint Field Office during Hurricane Katrina Response and the EPA Region 4 Safety Officer at the Graniteville, SC, Train Derailment/Chlorine Spill Response. In addition to public sector work, Barbara has twenty-five years of experience in the private sector as an Environmental, Health, and Safety Manager in the wire and cable, consumer products, printed circuit boards and metal forming/machining industries. In December, 2009, Barbara received her Masters in Science degree in Safety Management/Emergency Management from the University of Tennessee Knoxville.

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Session(s)

Health, **Session One**
Wednesday, 3/17/2010
Time: 9:00-9:40
Title: TVA/Kingston
Panel Discussion

Health, **Session Two**
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: TVA/Kingston
Panel Discussion

ABSTRACT

Following the coal ash release at TVA's Kingston Fossil Fuel Plant, the Tennessee Department of Environment and Conservation (TDEC) issued Commissioner's Order, Case No. OGC09-0001 on January 12, 2009, requiring TVA to take certain actions to respond to the emergency and to restore the affected area under Tennessee Code Annotated 69-3-109(b)(1), the Water Quality Control Act. During this recovery effort, TDEC is monitoring all environmental media around the site including sampling and analysis for public drinking water systems to assess whether the raw water entering and the finished water produced by the Kingston Water Treatment Plant meets public health standards. TDEC continues water quality monitoring and assessment within the major waterways impacted by the ash slide - Emory River, Clinch River and Tennessee River. TDEC consults with the Tennessee Department of Health to provide public health guidance and recommended precautions for citizens that come in contact with coal ash.

John Shipp, Jr.

Senior Environmental Engineer
Center for Toxicology and Environmental Health, LLC

EDUCATION:

B.S. -Civil Engineering, Tennessee Tech; M.S.-
Civil Engineering, Tennessee Tech

BIOGRAPHY

John Shipp is a Consultant with the Center for Toxicology and Environmental Health. His work focuses on environmental and energy issues with special emphasis on air quality and climate change. He has over 35 years experience in the field, including 30 years with TVA. During the last six years of his tenure with TVA, he served as TVA's VP of Environmental Policy and Planning.

CONTACT INFORMATION

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Session(s)

Industry, **Session Three**
Tuesday, 3/16/2010
Time: 12:45-1:25
Title: EPA's Ozone
Standard:
Nonattainment and
Implications for
Tennessee

ABSTRACT

Ozone levels across the state in 2009 were the lowest on record. Although the weather played an important role, since 2000, ozone levels across the state are down an average of 20%. However, EPA proposed a new lower ozone standard in December 2009 and will issue a final standard in August 2010.

As EPA lowers the standard, more counties than ever before will be designated non-attainment. A non-attainment designation can limit economic development opportunities, adversely impact existing businesses and local communities. This program will look at emissions trends in the state, how many areas may become non-attainment under EPA's proposed lower standard, the ramifications a non-attainment designation can have on a community and ways communities can avoid or minimize its impacts.

Miriam Sielbeck

Project Geologist
AquAeTer, Inc.

EDUCATION:

B.S.-Geology, Vanderbilt University, 2004;
M.S.-Earth Science, Dartmouth College, 2007

BIOGRAPHY

Her research included the transfer of solutes between porous streambeds and channel flow and rainsplash transport of wet and dry sand particles. Since joining AquAeTer in 2007, Ms. Sielbeck has assisted with a variety of projects including Phase I and Phase II Environmental Site Assessments, NEPA Screenings, Environmental Litigation Support, Water Quality Studies, and Soil and Groundwater Remediation. Ms. Sielbeck has also been assisting with several Water Quality Modeling projects and Life Cycle Assessments.

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Session(s)

Environment, **Session** Two
Wednesday, 3/17/2010
Time: 9:50-10:30
Title: Sustainable Environmental Solutions in Remediation Waste Water and Landfill Applications

particular emphasis on department programs that are working and look ahead to new approaches needed for the future.

Alan Sparkman

Executive Director
Tennessee Concrete Association

EDUCATION:

B.A.-Business Management, Mount Vernon Nazarene College;
M.B.A-Project Management, Jones International University

BIOGRAPHY

Alan grew up working in a family-owned ready mix business in Kentucky. After college, he moved up the corporate ladder, eventually becoming president of the family business. In 1995, Alan joined The Aberdeen Group and served as Director of Industry Relations for Aberdeen's Electronic Media Division until January of 1998, when he accepted his current position as Executive Director of the Tennessee Concrete Association (TCA).

Alan maintains an active teaching and training schedule across the United States and in Tennessee. He is an approved examiner for the ACI Flatwork Finisher program and the NRMCA Pervious Concrete Installer course.

As a firm believer in lifelong learning, he completed his Masters of Business Administration degree in May of 2004 from Jones International University. In November of 2006, Alan became a LEED Accredited Professional through the U.S Green Building Council and in January of 2007 Alan earned his Certified Association Executive (CAE) designation, a certification earned by less than 5% of all association professionals.

CONTACT INFORMATION

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Session(s)

Economics, **Session** One
Wednesday, 3/17/2010
Time: 9:00-9:40
Title: Pervious Concrete - Case Reviews and State of the Art

ABSTRACT

This presentation will cover recent pervious concrete projects in Tennessee and provide information on the latest research, system designs, construction techniques and mix designs for pervious concrete. The session will be interactive and will welcome questions from the audience.

Quincy Styke

Deputy Director Air Pollution Control
State of Tennessee
Environment & Conservation

EDUCATION:

B.S.-Biology, Middle Tennessee State University, 1974;
M.P.H.-Industrial Hygiene, University of Tennessee at Knoxville, 1980

BIOGRAPHY

Quincy Styke has lived all his life in Tennessee and loves every minute of it; stating, Tennessee is truly the place to be. He's

ABSTRACT

Three case studies featuring recent sustainable projects that meet the three pillars of sustainability: economic, environmental, and social development. These case studies will include a remediation system that provides an economic, low-energy, and cost-effective method to treating groundwater contaminated with double-bonded carbons. The 2nd case study will feature a recent wastewater application using solar powered basin mixers. The 3rd project features an application of an evapotranspirative landfill cover that provides performance improvements and cost savings over traditional RCRA covers.

Paul Sloan

Deputy Commissioner
State of Tennessee
Environment & Conservation

EDUCATION:

B.A.-Williams College; J.D.-Vanderbilt University

BIOGRAPHY

Since April 2005, Paul Sloan has served as Deputy Commissioner of Environment at the Tennessee Department of Environment and Conservation. He heads the Department's Bureau of Environment and leads the senior management team responsible for safeguarding human health and the environment by protecting and improving the quality of Tennessee's land, air and water. While at TDEC, he has worked closely with the Governor's Office and other local, state and federal agencies on critical issues involving water resources, energy conservation, alternative fuels and sustainability in Tennessee. Paul has served as co-chairperson of Governor Phil Bredesen's Alternative Fuels Working Group, member of the Governor's Energy Task Force and member of the Tennessee Energy Efficient Schools Council. Paul was a founding board member of Cumberland Region Tomorrow, a former trustee of The Nature Conservancy and a board member of the Cumberland River Compact.

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Session(s)

Joint, **Session** Keynote
Tuesday, 3/16/2010
Time: 8:55-9:15
Title: Building Effective Approaches for a Sustainable Future

ABSTRACT

The challenge of sustainability is building prosperous, livable and healthy communities for current and future generations. TDEC Deputy Commissioner Paul Sloan will discuss the Bureau of Environment's role in helping meet this challenge. He will place

married with two sons in college and very proud of his family. He began working for the State of Tennessee's Air Pollution Control Division in 1975 in the Knoxville office and transferred to the Nashville office in 1980 to become Chief of Enforcement. In 1993, he was tasked to write the regulations to implement Titles III, IV & V of the Federal Clean Air Act and became Assistant Director of the Division. He has since been promoted to Deputy Director. Model railroading is his hobby.

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Session(s)

Health, **Session One**
Tuesday, 3/16/2010
Time: 10:00-10:40
Title: Air Quality
Issues in Tennessee

Health, **Session Two**
Tuesday, 3/16/2010
Time: 10:50-11:30
Title: Air Quality
Issues in Tennessee

ABSTRACT

Several air programs are being vacated or remanded by the courts and EPA is reconsidering others. Quincy will discuss ramifications of these changes and what it means for Tennessee.

Mary Tiger

Project Director
University of North Carolina-Chapel Hill
Environmental Finance Center

EDUCATION:

B.S.-University of North Carolina, Asheville; Master of Public Administration, University of North Carolina, Chapel Hill

BIOGRAPHY

Mary Tiger is a Project Director for the Environmental Finance Center at the University of North Carolina at Chapel Hill and conducts research and outreach on sustainable financing for sustainable projects. Her recent projects are related to local government energy project finance, utility billing data mining, water conservation implications, and drought surcharge development. Ms. Tiger earned a Masters of Public Administration from the University of North Carolina at Chapel Hill and a B.S. in Environmental Journalism from the University of North Carolina at Asheville. Prior to joining the EFC, she served as the Utility Conservation Coordinator for the City of Loveland, Colorado. Ms. Tiger grew up in Johnson City, Tennessee.

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Session(s)

Economics, **Session Six**
Tuesday, 3/16/2010
Time: 3:15-4:00
Title: Government
Opportunities (and
Challenges) for
Financing Green
Initiatives

ABSTRACT

Counties and municipalities are increasingly taking a role in promoting green government and sustainability within their communities. Many of these efforts to date have included greening

internal government operations, improving public transportation, and offering waste reduction programs. Certainly, local governments will continue to use these types of initiatives to improve the environment. The newest trend in green government, though, is for counties and municipalities to take an active role in promoting energy efficiency and renewable energy at the residential and commercial level within their communities. The Environmental Finance Center will present on the wide-range of techniques and funding mechanisms that can be utilized to conserve resources and develop sustainable practices on both a governmental and community level. The presentation will review the pros and cons of financing mechanisms from triple bottom line to clean energy property assessments.

Liz Upchurch

Project Manager
TVA - Growth Readiness Program

EDUCATION:

B.A.-Geography, University of Tennessee;
Graduate Coursework in Environmental Policy, University of Tennessee

BIOGRAPHY

Liz Upchurch is a Project Manager for the Growth Readiness Program at the Tennessee Valley Authority (TVA). She is a water resource professional with over 15 years experience in water quality improvement projects. In her role as Project Manager, she provides training and technical assistance on site design, green infrastructure, quality growth and water and energy efficiency to planners and public works officials. Her previous work at TVA has included watershed assessment and restoration planning, grant writing and coalition building. Prior to joining TVA, Liz worked for several years with the AmeriCorps National Service program, as the Water Quality Team Manager at the University of Tennessee, and eventually Program Director of the CAC AmeriCorps Program, Tennessee's only environmental service corps. She is a graduate of the University of Tennessee.

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Session(s)

Health, **Session Five**
Tuesday, 3/16/2010
Time: 2:30-3:10
Title: Strategies for
Quality Growth

ABSTRACT

The Southeast is experiencing unprecedented growth resulting in significant impacts on community resources. To date, the Growth Readiness Program has offered training and assistance focused on reducing water resource impacts caused by how and where we grow.

Our new "Strategies for Quality Growth" training and assistance will address how and where we grow affects a wider array of community resources, such as water and air quality, energy consumption, land use, community character, community health, and community economics. It discusses 10 principles of Quality Growth, strategies to implement them, and resulting benefits. It introduces a Quality Growth Worksheet, built on best practices from the American Planning Association, the Smart Growth Leadership Institute and the Center for Watershed Protection, which allows communities to evaluate their plans and ordinances against the principles and build on their work with Center for Watershed Protection's Codes and Ordinance Worksheet.

Steve Whaley

Research & Development
Alliance AutoGas

EDUCATION:

B.S.-Virginia Tech;
Masters-Industrial Education, Clemson University

BIOGRAPHY

Steve Whaley is a member of the Alliance AutoGas Research & Development team. His work centers on propane AutoGas as a clean alternative motor fuel for the gasoline and diesel engine platforms. Mr. Whaley has been integral to Blossman and Alliance AutoGas' research, testing, and implementation efforts, beginning with the Blossman Gas fleet and currently expanding into public and private fleets of all sizes across numerous industries.

Steve and his family currently reside in Greenville, SC. He has a B.S. from VA Tech, with a Masters Degree in Industrial Education from Clemson University, and a lifetime teaching credential from the State of California. He is a frequent speaker at regional as well as national programs including the National Alternative Fuel Vehicle Conference, and the National Clean Air & Energy Independence Conference.

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Session(s)

Environment, **Session**
Three
Wednesday, 3/17/2010
Time: 10:45-11:25
Title: Propane
AutoGas - Clean
Vehicle Conversions &
Fueling

ABSTRACT

Law enforcement agencies across the Southeast are turning to propane autogas to provide lower emissions and reduced fuel cost without compromising performance. Truck fleets are reducing diesel consumption by supplementing their diesel fuel with clean burning propane autogas. Airports are reducing emissions by converting gasoline powered ground service equipment like tugs and belt loaders to burn cleaner with autogas. Lawn care fleets are also joining the ranks of those finding autogas to be the best alternative fuel that reduces our dependency on foreign oil. All of these solutions and a review of the fueling infrastructure that supports them will be reviewed in this session. A 2008 Ford Crown Victoria Police Interceptor will be on display as well as available for test drives.

Steve Wyse

Environmental Engineer
General Shale Brick, Inc.

EDUCATION:

B.S.-Geological, Engineering, South Dakota School of
Mines and Technology

BIOGRAPHY

After growing up and going to school "up north" Mr. Wyse started out as a Geological Engineer/Petroleum Geologist along the Gulf of Mexico and later West Texas. Since then he has spent the last 20 years as an Environmental Engineer doing environmental design

and compliance working directly for many different companies. These companies were in a variety of industries including: oil and natural gas, synthetic rubber, auto parts manufacturing, brick manufacturing, mining, and federal site remediation. Furthermore, while working as a consultant, he has worked with many other industries including plastic extrusion, metal working, and wood floor manufacturing. Mr. Wyse, his wife, and two daughters have lived in this area for the past 15 years.

CONTACT INFORMATION

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Session(s)

Industry, **Session** Two
Tuesday, 3/16/2010
Time: 10:50-11:30
Title: Stormwater
Design - Using Money
Saving Stormwater
Control Devices
Require Well Designed
Stormwater Systems

ABSTRACT

The construction and mining industries routinely require stormwater systems that due to limited space must control stormwater flow and/or pollution very efficiently. Often an engineer or operator is encouraged to use a control device or process that is promised to save money. The engineer must be careful not to rely in the device as a "magic bullet" that can be installed and expected to do everything that a larger or more complicated system can obtain. Yet these devices or processes can provide savings when they are incorporated into a well designed system. Two examples of smart choices for stormwater control are permeable pavers for flow control and polyacrylamides (PAM) for sediment pollution control. By themselves, these "devices" are not the answer to the problems, they are advocated to mitigate. Yet when used within a system that has been designed with these items in mind, they can be very effective. Photos of examples make up the majority of this presentation.