

July 28 - August 1, 2007
Blacksburg, Virginia



Interactions at the Interface -
Making the Connections Between
Environments, Disciplines and Nations



<p>Sunday, July 29, 2007 All Activities - The Inn at Virginia Tech unless otherwise noted - Sunday Workshop Locations TBA</p>			
8:30 am – 12:00 pm	Professional Pipeline Workshop – C. Bott and N. Love Located in Pamplin 2030	or	Government Affairs Workshop – A. Davis (Cindy Lee -Support of Sustainability Research at NSF) Located in Pamplin 31
12:00 pm - 1:30 pm	Lunch - D2- Dietrich Dining Hall		
1:30 pm – 5:30 pm	NSF CAREER Workshop – G. Boardman Located in Pamplin 31	or	Sustainability Workshop – J. Mihelcic, A. Bielefeldt, J. Zimmerman Located in Pamplin 2030
6:00 pm – 8:00 pm	Reception at University Club (heavy hors d'oeuvres)		
<p>Monday, July 30, 2007 All Activities - The Inn at Virginia Tech ** All Plenary Sessions and Meals in Latham ABC**</p>			
7:30 am – 8:15 am	Continental Breakfast		
8:15 am – 9:45 am	Welcome - University Provost and Vice President of Academic Affairs Mark McNamee & Conference Chair Gregory D. Boardman Plenary Presentations - Moderator: Gregory D. Boardman, VT		
8:45 am – 9:15 am	1. Alexander Zehnder: "Transdisciplinary research – the formidable challenge for environmental science and engineering"		
9:15 am – 9:45 am	2. Cliff Davidson: "Changing the Discipline of Engineering: The Challenge of Sustainability"		
9:45 am – 10:00 am	Networking break, move to concurrent sessions		

10:00 am – 11:55 am	Oral Presentations – 4 concurrent sessions A-D			
	Session A – Energy Moderators: Tamim Younus, VT & David Kuhn, VT Location: Assembly Hall	Session B – POU Moderators: James Smith, UVA & David Sabatini, OU Location: Latham DEF	Session C – Education Moderators: Chul Park, VT & John Little, VT Location: Cascades Room	Session D – Sustainability Moderators: Ramesh Goel, Univ Utah & Tim Moore, VT Location: Smithfield Room
10:00 am – 10:20 am 1	Jung, Sokhee- Reproducibility of Microbial Fuel Cell Performance and Anode Bacterial Community	Broadhurst, Franklin- Environmental Health and Water Quality in Complex Emergencies	Paterson, Kurt- Engineering Equality: Creating a Better Future	Liu, Yanjie- Sludge Minimization Coupled with Biological Nitrogen and Phosphorus Removal – A Step towards Sustainable Development
10:20 am – 10:40 am 2	Ren, Zhiyong- Renewable Electricity Production from Cellulose in Microbial Fuel Cells	Sobsey, Mark D.- Household Water Treatment and Safe Storage for the Developing World: Recent Developments from the Lab and the Field	Giammar, Daniel E.- Environmental Engineering and Science Education and the WATERS Network	Cunningham, Jeffrey A.- Anthropological Approaches to Environmental Engineering: Drinking Water Quality in Rural Honduras
10:40 am – 10:55 am	Networking break			
10:55 am – 11:15 am 3	Powers, Susan E.- Lifecycle Energy and Environmental Consequences of the Proposed new “Ethanol Economy”	Craver, Vinka- Mechanistic Laboratory Evaluation of a Point-of-Use Ceramic Water Filter to Deactivate Coliform Bacteria	Penn, Michael- Preparing Students for the citizen/engineer interface	SenGupta, Arup K.- Sustainable Arsenic Remediation In The Indian Subcontinent
11:15 am – 11:35 am 4	Attari, Chahzeen Z.- Decreasing Demand: Facilitating Energy conservation by Changing Individual Behavior	Randall, Clifford W.- Development of a Safe Water Supply at Iringa, Tanzania	de los Reyes II, Francis L.- Problem-Based Learning Courses in Environmental Biotechnology with Interdisciplinary Learning: Results from a Multi-Campus Program	Weber-Shirk, Monroe L.- AguaClara: An IAN Innovative Model for providing safe water in the Global South
11:35 am – 11:55 am 5	Wood, Liz- Solar Disinfection of Drinking Water in the Northern Region of Ghana	Mlilo, Thabani- Simple Water Treatment Technologies: Arsenic and Fluoride removal using low-cost materials	Plummer, Jeanine D.- Visual media for enhancing learning in environmental engineering	Peters, Catherine A.- Imaging of Viking Sandstones for Quantification of Reactive Minerals and Surfaces
12:00 pm -1:30 pm	Lunch – Moderator: Joshua Joseph, VT; Speaker: Mike Aiken, UNC - Task Force Report on the Creation of a Professional Environmental Engineering Society - "Update on a Professional Society for Environmental Engineering"			
1:30 pm – 2:30 pm	Plenary Presentations - Moderator: Andrea Dietrich, VT			
1:30 pm – 2:00 pm	3. Debbie Niemeier <i>“Global sustainability: The dilemma of scale“</i>			
2:00 pm – 2:30 pm	4. Susan Watson <i>“Ecological issues and the human/ecosystem interface“</i>			

2:30 pm – 2:45 pm	Networking break, move to concurrent sessions			
2:45 pm – 4:40 pm	Oral Presentations – 4 concurrent sessions A-D			
	Session A – WATERS Moderators: Nicholas Clesceri CBEO & Bill Ball, JHU Location: Assembly Hall	Session B – POU Moderators: David Sabatini, OU & James Smith, UVA Location: Latham DEF	Session C – Water Treatment Moderators: Matthew Higgins, Bucknell Univ & Chang-Hyun Jo, VT Location: Cascades Room	Session D – Public Health Moderators: Dan Gallagher, VT & José Cerrato, VT Location: Smithfield Room
2:45 pm – 3:05 pm 6	Schnoor, Jerald- The WATERS Network: Transforming Environmental Engineering and Hydrologic Science Research through an Integrated Environmental Observing Network	Gordon, Ross Gordon- Sustainable Water Purification for the Developing World: Multidisciplinary Education for the International Engineer	Yiacoumi, Sotira- Influence of Discrete Nature of Charge on the Behavior of Colloidal Particles in Aquatic Systems	Pruden, Amy- Emerging Contaminants at the Interface: Antibiotic Resistance Genes (ARG) in the Environment
3:05 pm – 3:25 pm 7	Novak, Paige J.- Wireless Technologies and Embedded Networked Sensing for Urban Water Quality Management	Burken, Joel- Sustainable POU Water Filtration in Guatemala: Materials, Manufacturing, Economics, Health Beliefs	Kim, Jeoghwan- Combined effect of ozonation and hydrodynamic conditions on the permeate flux in the hybrid ozonation- ultrafiltration process	Stone, James- Impact of antimicrobial compounds Tylosin and Chlortetracycline during swine manure treatment
3:25 pm – 3:45 pm 8	Paer, Hans- FerryMon: Unattended ferry-based water quality monitoring to evaluate human and climatically-driven ecological change in the Neuse River-Pamlico Sound Estuarine system, NC	Beilefeldt, Angela R.- Removal of Virus-Sized Particles and E. coli by the Filtron	Higgins, Christopher P.- A New Approach for Modeling Sorption of Anionic Surfactants to Natural Organic Matter	Gallagher, Daniel - Using Risk Assessment to Develop Public Health Policies that Control Food-borne Pathogens
3:45 pm – 4:00 pm	Networking break			
4:00 pm – 4:20 pm 9	Ball, Bill- Conceptual Design of a Chesapeake Bay Environmental Observatory (CBEO)	Nelson, Kara L.- The UV Tube: Low-cost, point-of-use disinfection of drinking water with ultraviolet light	Rosso, Diego- Carbon-sequestration potential of municipal wastewater treatment	Elliott, Mark A.- Full-scale and bench-scale microbial challenge experiments with the Biosand household drinking water filter
4:20 pm – 4:40 pm 10	Islam, Mohammad S.- Integrated Data Acquisition Communication and Control (IDACC) System to Capture Episodic Events in Corpus Christi Bay WATERS Network Testbed	Lantagne, Daniele S.- Bringing Household Water Treatment to Scale: Designing for Sustainability	Collins, M. Robin- A Primer on Viable Surface Water Filtration Options for Small Systems	Berry, David- Elucidating the Molecular Mechanisms of Bacterial Resistance to Disinfection with Monochloramine
4:40 pm – 5:00 pm 11	Driscoll, Charles T.- The development of an intelligent environmental control system for watershed monitoring and management	Tiwari, Sangya-Sangam- Development of Intermittent Slow Sand Filtration for Rural Households in the River Njoro Watershed, Kenya	Li, Xu- Biological Treatment of Perchlorate Contaminated Drinking Water-A Scale-up Study to Evaluate Backwash Strategies	Cooper, William J.- Free Radical Chemistry of Halonitromethanes: Bridging Chemistry, Treatment and Health Effects

5:30 pm – 7:00 pm

Posters, reception - Latham ABC

Energy	POU	Water Quality/Treatment	Public Health
<p>● Matthews, Deanna- Leveraging Virtual Social Networks for Energy Education and Behavioral Change</p> <p>● Nelson, Denice- Fermentation as a Method to Enhance Dissolution of Hydrophobic Compound</p> <p>● Guest, Jeremy - Development of a Nitrifying Microbial Fuel Cell for Sustainable Wastewater Treatment</p> <p style="text-align: center;">WATERS</p> <p>● Reed, Patrick-Using Global Sensitivity Analysis to Better Understand How Real-Time Observations Influence Operational Flood Forecasts in the Susquehanna River</p> <p>● Weaver, Mark- Preliminary Cost Model Development for the WATERS Network</p> <p>● Just, Craig- Clear Creek Environmental Hydrologic Observatory: Adaptive Sensor Network</p> <p>● Giammar, Daniel E.- Environmental Engineering and Science Education and the WATERS Network</p>	<p>● Johnson, Sophie M.- Research and Development Studies for Pure Home Water's Scale-up of Household Drinking Water Treatment and Safe Storage in the Northern Region, Ghana</p> <p>● Smith, Dr. James A- Point-of-Use Turbidity Removal from Water by the Natural Plant Coagulant Moringa Oleifera</p> <p>● Casanova, Ms. Lisa M.- Inactivation of Waterborne Microorganisms by a Combined Physical-Chemical Point-of-Use Water Treatment System for Developing Nations</p>	<p>● Xuan, Li-Pilot Study on Ozone-Biological Activated Carbon Process for Treating Micro-Polluted Raw Water in Huangpu River</p> <p>● Craver, Dr. Vinka O.-A membrane assisted hybrid bioreactor for the post treatment of highly load industrial wastewaters</p> <p>● Hu, Dr. Zhiqiang-Spatial Distribution of Zinc and Copper in Microbial Biofilms</p> <p>● Craver, Vinka- Study of the utilization of ceramic filters for the treatment of drinking water in San Mateo de Ixtatan: Water quality assessment and preliminary test of bacteria transport through ceramic filters</p> <p>● Cerrato, José.- Biogeochemical oxidation and reduction of manganese in drinking water systems</p> <p>● Goel, Ramesh-PAOs Other than Candidatus Accumulibacter Phosphatis Participating in Enhanced Biological Phosphorus Removal</p> <p>● Kilduff, Dr. James-Fouling of UF Membranes by NOM and Model Polysaccharides</p> <p>● Kilduff, Dr. James-Using photoinduced graft polymerization to control nanofiltration membrane surface properties and performance</p> <p>● Jackson, Ms. Tara K.- Environmentally Sustainable Treatment of Domestic Wastewater using Anaerobic Membrane Bioreactors</p>	<p>● Saikaly, Pascal E.-An interdisciplinary approach to study the fate and transport of surrogate biological warfare agents in a stimulated landfill</p> <p>● Bartelt-Hunt, Shannon L.- Survivability of Avian Influenza Virus in Landfill Leachate</p> <p>● Thompson, Stacia L.-Using Autochthonous Bacterial Populations as Biological Indicators in Drinking Water Distribution Systems</p> <p style="text-align: center;">Sustainability</p> <p>● Kirsch, Brian R.-Making Decisions in Uncertainty: Using Water Transfers to Meet Water Supply Needs</p> <p>● Schoen, Mary E.-Potential Effect of Climate on Design-Period Low Flows in the Mid-Atlantic US</p> <p>● Hutchinson, Stacy L.-Functional Lands in a Dysfunctional Landscape</p> <p>● Brunson, Laura R.-Business Model for Implementing Sustainable Water Solutions in Developing Areas</p> <p>● Hawkins, Troy R.-Refining Life Cycle Inventory Assessment of Heavy Metals: Comparison of Alternative Battery Technologies with the MUOI-LCA Model</p> <p>● Randall, Andrew A.- The Interaction of Water, People and Sustainable Infrastructure: A Comparison of Ancient and Modern Civilizations</p> <p>● Moore, Tim O.- Direct Measurement of Urban Air Pollutant Emissions</p> <p>● Clark, Dave - Sustainable Distribution Systems: Water Quality Effects of Cement Mortar Pipe Linings</p>

7:00 pm – 8:00 pm	WATERS Town Hall Meeting, reception - Assembly Hall “How the NSF-Sponsored WATERS Network Can Enhance Your Research Opportunities and Enrich Your Students’ Educational Experience”			
	Dinner on your own			
	Tuesday, July 31, 2007 All Activities - The Inn at Virginia Tech ** All Plenary Sessions and Meals in Latham ABC**			
7:30 am – 8:30 am	Continental Breakfast			
7:30 am - 8:30 am	Breakfast Meeting “AAEE Five Year Strategic Plan” - Location: Latham DEF			
8:30 am – 9:30 am	Plenary Presentations - Moderator: Nancy Love, VT			
8:30 am – 9:00 am	5. Menachem Elimelech: <i>“Nanoparticles and Biomacromolecules in Natural and Engineered Aquatic Environments”</i>			
9:00 am – 9:30 am	6. George Ekama: <i>“Applying stoichiometry to WWTPs-Estimating Greenhouse Gas Emissions form Wastewater Treatment Plants with Bio-process Stoichiometry”</i>			
9:30 am – 9:45 am	Networking break, move to concurrent sessions			
9:45 am – 12:00 pm	Oral Presentations – 4 concurrent sessions A-D			
	Session A – Nanomaterials Moderators: Krista Rule, VT & Peter Vikesland, VT Location: Assembly Hall	Session B – Green Engineering Moderators: Julian Sandino, CH2M Hill & Chris Wilson, VT Location: Latham DEF	Session C – Water Quality Moderators: Randy Dymond, VT & Juneseok Lee, VT Location: Cascades Room	Session D – Air Moderators: Linsey Marr, VT & Jeremy Guest, VT Location: Smithfield Room
9:45 am – 10:05 am 1	Vikesland, Peter J.- Characterization of C ₆₀ aggregates in aqueous and airborne systems	Theis, Thomas - Relative Environmental Profiles of a Variety of Bio-Based Products	Dietrich, Andrea M. - People and Plumbing: Impacts on Water Quality, Sensory Characteristics, and Consumer Concerns	Chellam, Shankar- Tracking Petroleum Refinery Emission Events using Lanthanum and Lanthanides as Elemental Markers for Airborne Fine Particles
10:05 am – 10:25 am 2	Chen, Kai- Aggregation and Deposition Kinetics of Fullerene (C60) Nanoparticles in Aquatic Environments	Clarens, Andres F.- Re-inventing Metalworking Fluids: Toward Sustainable Manufacturing Through Green Engineering	Todorova, Svetoslava- Evaluation of Nitrate Application for Mitigating Methyl Mercury Production, Onondaga Lake, NY	Heather Johnson- Human Exposure to Contaminants and the Role of TOC, TDS, Temperature, and Concentration on Air-Water Partitioning
10:25 am – 10:45 am 3	Zhang, Xuezhi- Bioaccumulation of Nanomaterials and their Potential Impact	Reiner, Mark- Quantifying the Role of High Performance Green Concrete (HPGC) in Sustainable Urban Infrastructure in Denver, Colorado	MacRae, Jean- Influence of Microorganisms on Groundwater Arsenic Concentration in Maine	Stuart, Amy L.- Localized air pollution and environmental equity in Tampa, Florida

10:45 am – 11:00 am	Networking break			
11:00 am – 11:20 am 4	Hoek, Eric MV- Creating High Performance Membranes through Nanocomposite Materials Technology	Zhang, Qiong- Simplified Impact Assessment Methods for Green Engineer Design through Chemical Grouping and Parameter Adjustment	Helbling, Damian- Real-Time Monitoring of Free Chlorine Response to Microbial Contamination in a Model Distribution System	Harris, Allison- Modeling Particle Resuspension in the Ambient Atmosphere
11:20 am – 11:40 am 5	Gruden, Cindy- Development of bacterial-sensing ultrafiltration membranes with improved fouling control	LeBoeuf, Eugene J.- Model Development Framework for the Groundwater-Surface Water Interface: Approaches, Concerns and Challenges	VanBriesen, Jeanne M.- Raman Spectroscopy for detection, identification, quantification, and viability assessment of bacteria in water	Marr, Linsey- Megacity Polycyclic Aromatic Hydrocarbons Exposure, Emissions, and Transformations in Mexico City
11:40 am – 12:00 pm 6	Zhao, Dongye- Synthesis and application of controllable nanoparticles for in situ immobilization of mercury, chromate and lead in soils, sediments and groundwater	Mostafid, Mohammad Erfan- Reducing Greenhouse Gas Emissions through Aerobic Bioreactor Landfilling Observations from Yolo County Central Landfill	Minsker, Barbara S.- An Environmental Information System for Hypoxia in Corpus Christi Bay: A WATERS Network Testbed	Omur-Ozbek, Pinar- Role of Metals in Health and Flavor of Drinking Water
12:00 pm – 1:30 pm	Lunch			
	Plenary Presentations - Moderator: Mark Widdowson, VT			
1:30 pm – 2:00 pm	7. Eberhard Morgenroth: <i>“Environmental Engineering and Science Education – An International Perspective”</i>			
2:00 pm – 2:30 pm	8. Amy Zander: <i>“Environmental engineering and science education- a national perspective”</i>			
2:30 pm – 2:45 pm	Networking break, move to concurrent sessions			
2:45 pm – 4:40 pm	Oral Presentations – 4 concurrent sessions A-D			
	Session A – Education Moderators: Alok Bhandari, KSU & Pinar Omur-Ozbek, VT Location: Assembly Hall	Session B – Biomolecular Science Moderators: Kristine Wammer, U St. Thomas & Amy Cheatham, VT Location: Latham DEF	Session C – Water Treatment/Stormwater Moderators: Bill Bellamy, CH2M Hill & T J Murphy, VT Location: Cascades Room	Session D – Sustainability Moderators: Joel Burken, U. Missouri-Rolla & Sabine Sibler, VT Location: Smithfield Room
2:45 pm – 3:05 pm 7	Vesilind, P. A.- Can We Teach Environmental Ethics?	Krzmarzick, Mark- A Key to Sediment Remediation: Dehalorespirers and a Possible Natural Niche	Sibler, Sabine- Enhanced Microbial Activity & Energy Conservation through Pneumatic Mixing in Sludge Systems	Daigger, Glen T.- Integrating Technology With Social Objectives To Achieve A Sustainable Solution: A Practitioner’s Perspective

3:05 pm – 3:25 pm 8	Little, John C.- EIGER- Exploring Interfaces through Graduate Education and Research	Wammer, Kristine H.- Environmental Photochemical Behavior of Fluoroquinolones	Steinberg, Lisa M.- Performance of anaerobic digesters with different inocula under shock loading conditions	Kuhn, David- Enhancing Aquacultural Sustainability through Water Reuse and Biological Treatment
3:25 pm – 3:45 pm 9	Bhandari, Sr. Alok- Incorporating Service – Learning Pedagogy into Environmental Engineering and Science Courses	Olson, Mira S.- Viable Bacterial Distribution in a Chemical Gradient: Chemotaxis and Toxicity Effects	Nerenberg, Robert- Performance and microbial ecology of the hybrid membrane biofilm process (HMBP) for concurrent nitrification and denitrification of wastewater	Burken, Joel G.- Vegetative Sampling for Plume Delineation and Site Monitoring
3:45 pm – 4:00 pm	Networking break			
4:00 pm – 4:20 pm 10	Kilduff, James- Workshop Synopsis: Frontiers of Environmental Engineering Education	Yilmaz, L. Safak- Modeling Oligonucleotides Probe Dissociation in Fluorescence in situ Hybridization (FISH)	Achilli, Andrea - Development and Optimization of a Novel Osmotic Membrane Bioreactor	Pitterle, Mark T.- Quantitative Sustainability Assessment of US Wastewater Treatment Plants
4:20 pm – 4:40 pm 11	Reinhart, Debra R.- Developing a Body of Knowledge for Environmental Engineering	Bartelt-Hunt, Shannon L.- Environmental Degradation of the Prion Protein and Impacts of Prion Conformation on Soil Sorption	Bushey, Joseph T- The Effect of Elevated Runoff Events on Mercury Cycling within Gwynns Falls, an Urban Watershed in Baltimore, MD	Hendrickson, Chris- Sustainability Engineering Research Directions and International Collaboration
4:40 pm – 5:00 pm 12	Mathews, Deanna H.- Teaching Life Cycle Assessment to Diverse Audiences	SenGupta, Arup K.- Sensing of Toxic Heavy Metals With pH/Color Changes Using A Hybrid Inorganic Material (HIM)	Smith, James A.- Management of Storm-Water Runoff at Road-Salt Storage Facilities: Problem characterization and Salt- Water Reuse	Staley, Bryan F.- Increasing Landfill Sustainability: Manipulation of microbial community demographics to control CH4 production
5:30 pm – 7:00 pm	Posters, reception - Latham ABC			
	Nanomaterials	Biomolecular Science	Water Quality/Treatment	Education
	<ul style="list-style-type: none"> Escobar, Isabel-Development of Silver/Copper Coated Membrane Feed Spacers for Biofouling Control Riefler, Guy-Reduction Capacity if Iron Nanoparticles Treating TNT Bach, Morgan T.-Box-Behnken optimization of powdered activated carbon tailoring using dissolved oxygen Sabatini, David A.-Oil-Seed Extraction using Surfactant-based Aqueous Microemulsions 	<ul style="list-style-type: none"> Becker, Jennifer G.-Evaluation of Engineered Bioremediation Approaches for Enhancing Natural Attenuation of a Chlorinated Organic Solvent Mixture in a Tidal Wetland Richardson, Ruth-Using molecular targets as bioindicators of chloroethene bioremediation rates Mattes, Tim -Development of nucleic acid and protein biomarkers for detection of VC-assimilation bacteria in the environment 	<ul style="list-style-type: none"> Stone, James-Environmental Impacts from Abandoned Uranium Mines in Western South Dakota Hellweger, Ferdi L. -Agent-Based Modeling of the Complex Lifecycle of a Cyanobacterium (Anabaena) in a Shallow Lake Xu, Jianhua-A Graph-theory-based Approach to Place Sensors in Water Distribution Systems Krometis, Leigh-Anne H.- Comparison of Indicator Organism 	<ul style="list-style-type: none"> Bhandari, Alok-Incorporating Leadership Competency Development into Environmental Engineering Courses and Curricula Beilefeldt-Community Service Attitudes of First-Year Students and Senior Students Working on Service Learning Design Projects Burken, Joel G.-Attracting Women to Engineering: International Programs, Service, Learning and Environmental Engineering Programs

		<ul style="list-style-type: none"> ● Gunsch, Claudia K.-Antisense DNA: A Novel Gene Silencing Method ● Frigon, Domonic-Measuring molecular fluxes through competing degradation pathways using 13C-labelling of amino acids and GC-MS analysis ● Apul, Defne- Field Verification of a Simple Mass Tracking Model Developed for Estimating Metals Released from Vehicle Tires and Brakes ● Apul, Defne-Sensitivity Analysis of a Multisurface Geochemical Modeling Approach to Characterize Sorption of Metals in Biosolids 	<p>and Pathogen Partitioning Behavior in Urban Stormwater</p> <ul style="list-style-type: none"> ● Fuller, Megan-Sorption of nonionic organic solutes to tetraalkylammonium bentonites: Application of the Dubinin-Radushkevich model and the Polanyi - Manes potential theory ● Sondhi, Akash-Copper Emissions from Brake Pad Wear Debris in Urban Environments ● LeBoeuf, Eugene J.-A Spill Management Information System: New Technology for Management of Inland Waterway Spill Incidents ● LeBoeuf, Eugene J.- Development of a Modeling Tool for Evaluation and Process Importance across the Groundwater/Surface Water Interface ● Fairey, Julian L.-Evaluation of activated carbon for PCB sequestration in sediment caps: Batch isotherm tests, column studies and the impact of dissolved organic carbon ● Apul, Defne-A Comparative Life Cycle Analysis if Embankments Constructed from Conventional Materials and Industrial Byproducts ● Cunningham, Jeffrey A.-Remedial Extraction and Catalytic Hydrodehalogenation (REACH) for Clean-up of Contaminated Soil 	<ul style="list-style-type: none"> ● Seagren, Eric A.-Using Semi-Notes as a Teaching Technique for Different Learning Styles ● Davidson, Cliff-Evaluating the Success of a Graduate Course Sequence in Sustainable Engineering
6:30 -7:00 pm	Reception - The Latham Foyer			
7:00 pm – 9:00 pm	Banquet, guest speakers, awards - Latham ABC Speakers: VT Dean Engr. Richard Benson, AEESP President Phil Singer			
	Wednesday, August 1, 2007 The Inn at Virginia Tech			
6:30 am to 9:00 am	Breakfast Buffet - Latham ABC			