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CURRENT POSITION

ASSISTANT PROFESSOR, University of Kentucky, Biosystems and Agricultural Engineering Department, Lexington, KY: March 2006 to present. DOE: 70% research; 24% teaching; 6% extension

RESEARCH, TEACHING & EXTENSION INTERESTS

Stream Restoration, Riparian Zone Management, Mined Land Reclamation, Hydrology of Surface Waters, Environmental Impacts of Animal Agriculture and Biofuel Crop Production, Environmental Policy, Environmental Geospatial Analysis, Water Quality Assessment and Modeling

EDUCATION

Doctor of Philosophy, Biosystems and Agricultural Engineering, University of Kentucky, 2000-2004

Dissertation: *Cattle Production Practices in a Small Grazed Watershed of Central Kentucky*, 485 p.
Advisor: Dr. Dwayne R. Edwards
GPA: 3.94/4.0
Environmental Systems Certificate

Master of Public Policy, Martin School of Public Policy and Administration, University of Kentucky, 2005- present (70% complete)
Emphasis: Environmental Policy

Master of Science, Agricultural and Biosystems Engineering, University of Tennessee, 1998-2000
Thesis: *Examination of Hydrological, Chemical, and Biological Gradients along the Hyporheic Zone of an Upland Agricultural Stream in East Tennessee*, 228 p.
Advisor: Dr. Ronald Yoder
GPA: 3.94/4.0

Bachelor of Science, Agricultural Engineering, University of Tennessee, 1993-1998
Emphasis: Biological Systems
Minor: Business Administration
GPA: 3.55/4.0 Cum Laude, Major GPA: 3.93/4.0

CERTIFICATION

Professional Engineer, Commonwealth of Kentucky (License No. 25431, July 13, 2007)

Professional Engineer, State of West Virginia (License No. 018003, January 13, 2009)

Engineer-In-Training, State of Tennessee (Certificate No. 17858, December 17, 1997)

PROFESSIONAL EXPERIENCE

ASSISTANT PROFESSOR – *University of Kentucky*, Biosystems and Agricultural Engineering Department, Lexington, KY: January 2010 to present, Supervisor: Dr. Scott A. Shearer

- Develop an internationally recognized program in environmental restoration and geospatial analysis focusing on non-renewable and renewable energy sources; exploration of spatial properties; modeling and remediating environmental systems related to streams and riparian zones located in mining, agricultural and urban areas; and address environmental considerations related to human/biota interactions through engineering, natural resources, and policy development.
- Apply for and secure extramural support for research relevant to stream restoration, riparian zone management, mined land reclamation, BMPs, geospatial engineering, and other related areas as a Principal Investigator or in collaboration (Co-PI) with other scientists and engineers.
- Publish research findings in peer-reviewed scientific journals on a regular basis and present this information at appropriate regional, national and international meetings.
- Participate with other faculty within and outside of the university as well as agency personnel, cooperators and officials in developing and promoting applied research and technology transfer in the areas of stream restoration, mined land reclamation, and other aspects of natural resource engineering.
- Develop and teach upper level undergraduate and/or graduate level course(s) related to stream restoration, natural resource engineering, and/or natural resources conservation management.
- Seek appointment to the Graduate Faculty and participate in the education, guidance and training of undergraduate and graduate students as well as post-doctoral scholars/fellows.
- Be willing to accept assignments on standing or ad hoc departmental, college or university committees.

ASSISTANT RESEARCH PROFESSOR – *University of Kentucky*, Biosystems and Agricultural Engineering Department, Lexington, KY: March 2006 to December 2009, Supervisor: Dr. Scott A. Shearer

- Develop new applied research endeavors for detailed natural channel restoration designed for streams impacted by mining, urban and agricultural activities; develop interdisciplinary teams; acquire all necessary permits; produce engineering design, construction and monitoring technologies.
- Contribute to the ongoing reforestation and mined land reclamation applied research program with respect to stream restoration and hydrology on mined lands.
- Apply for and secure extramural support for research relevant to stream restoration, riparian zone management, mined land reclamation, BMPs and other related areas as a Principal Investigator or in collaboration with other scientists and engineers.
- Publish research findings in peer-reviewed scientific journals on a regular basis and present this information at appropriate regional, national and international meetings.
- Participate with other faculty within and outside of the university as well as agency

personnel, cooperators and officials in developing and promoting applied research and technology transfer in the areas of stream restoration, mined land reclamation, and other aspects of natural resource engineering.

- Develop and teach upper level undergraduate and/or graduate level course(s) related to stream restoration and natural resource engineering.
- Seek appointment to the Graduate Faculty and participate in the education, guidance and training of graduate students and post-doctoral scholars/fellows.
- Be willing to accept assignments on standing or ad hoc departmental, college or university committees.

ENGINEER ASSOCIATE IV/RESEARCH FOR WATER RESOURCES – *University of Kentucky*, Biosystems and Agricultural Engineering Department, Lexington, KY: August 2004 to March 2006, Supervisor: Dr. Richard C. Warner

- Serve as principal investigator on new research endeavors for developing detailed stream/natural resource restoration designs for streams impacted by mining, agricultural or urban activities; develop interdisciplinary teams; acquire all permits; produce engineering design, construction and monitoring technologies
- Design comprehensive data acquisition/training materials; analyze/evaluate data for quality assurance/quality control; develop data integration and modeling methodologies; develop/apply methodologies for designing and conducting in-depth investigations of fundamental processes
- Develop engineering tools encompassing design aides, computer-based design/modeling applications, and field demonstration sites; write technical manuscripts; develop and conduct state/regional/national short courses for regulatory and academic personnel, consulting engineers and other design professionals
- Serve as principal investigator in the planning and development of proposals and grants; document/summarize applied research findings in professional proceedings, refereed articles, presentations, and short course materials
- Manage daily aspects of projects including scheduling, budgeting, acquisition of supplies and materials; coordinate/supervise personnel
- Develop relationships with agency personnel, cooperators, and officials in the areas of stream restoration and mined land reclamation
- Recruit and mentor graduate students
- Develop and teach upper level undergraduate and/or graduate level course(s) related to Stream Restoration

ENGINEER ASSOCIATE – *University of Kentucky*, Biosystems and Agricultural Engineering Department, Lexington, KY: March 2003 to August 2004, Supervisor: Dr. Richard C. Warner

- Development and support of applied research and technology transfer educational programs in water resources applied to establishing high value trees on reclaimed mined lands in eastern and western Kentucky
- Conduction of stream restoration related activities such as stream assessment, design of restoration alternatives, permitting, construction and monitoring
- Planning, designing and implementation of data acquisition systems for water quantity and quality

- Additional responsibilities include laboratory analysis, data analysis and writing reports and journal articles, development of presentation and educational material
- Coordination with field, UK Forestry and mine personnel, including training and trouble shooting systems

GRADUATE RESEARCH ASSISTANT – *University of Kentucky*, Biosystems and Agricultural Engineering Department, Lexington, KY: August 2000 to March 2003, Supervisor: Dr. Dwayne R. Edwards

- Research the effects of cattle grazing, best management practices (BMPs), and riparian zones on stream quality
- Management of all project components including: planning, design, and implementation of experimental procedures; performing laboratory and data analysis, coordination with personnel from UK Biosystems and Agricultural Engineering, Animal Sciences, and Management Operations Departments; writing reports and journal articles, assisting with grant writing and educational material development, and presentation of material
- Modeling water quality parameters and cattle activity
- Management and supervision of undergraduate assistants

INSTRUCTOR – *University of Kentucky*, Biosystems and Agricultural Engineering Department, Lexington, KY: August 2001 to December 2001 and August 2002 to December 2002, Supervisor: Dr. Richard S. Gates

- Prepared and conducted lectures on various surveying topics (AEN 103 Basic Principles of Surveying: 19 students - 2001 and 15 students - 2002)
- Led laboratories designed to enhance learning of the lecture topics
- Developed and graded homework assignments, laboratory assignments and exams

UKSMASH COUNSELOR – *University of Kentucky*, Biosystems and Agricultural Engineering Department, Lexington, KY: July 2001, Supervisor: Dr. Stephen R. Workman

- Introduced UKSMASH (University of Kentucky Science and Mathematics Accelerated Sophomore Honorary) students to water treatment principles
- Developed information packets for students
- Provided student mentoring

GRADUATE RESEARCH ASSISTANT – *University of Tennessee*, Agricultural and Biosystems Engineering Department, Knoxville, TN: June 1998 to August 2000, Supervisor: Dr. Ronald E. Yoder

- Researched hyporheic zone of an East Tennessee upland agricultural stream
- Management of all project components including: planning, design, and implementation of experimental procedures; performing laboratory and data analysis, and presenting experimental results
- Assisted with analyses in Water Quality Laboratory and Soil Microbiology Laboratory at the University of Tennessee
- Aided in sample collection for other research projects
- Management and supervision of undergraduate assistants

UNDERGRADUATE RESEARCH ASSISTANT – *University of Tennessee*, Agricultural and Biosystems Engineering Department, Knoxville, TN: June 1997 to February 1998, Supervisor: Dr. Luther R. Wilhelm

- Researched and assisted in writing sections for new agricultural engineering technology textbook
- Performed word processing and spreadsheet data analysis
- Created slide presentations

AGRICULTURAL ASSISTANT – *Truitt Farms*, Knoxville, TN: June 1994 to August 2000, Supervisor: Richard L. Truitt

- Managed beef cattle
- Assisted in hay production and management
- Performed general maintenance on farm structures and equipment

TECHNICAL SUPPORT REPRESENTATIVE (CO-OP) – *Lexmark International*, Lexington, KY: December 1995 to June 1996 and August 1996 to October 1996

- Assisted customers in solving printer related problems
- Tested new printer software
- Trained new employees

AWARDED GRANTS (\$4,948,139 UK total)

1. Warner, R.C., J. Unrine, C.D. Barton, and **C.T. Agouridis**. 2011. Appalachian Research Initiative for Environmental Science (ARIES), **\$383,533**, July 2011 to June 2016, Co-Investigator
2. **Agouridis, C.**, J. Fox, and J. Currens. 2011. Surface Water and Sediment Monitoring in the Cane Run Watershed. SB-271, **\$135,000**, July 2011 to June 2014, Principal Investigator
3. Hanely, C.D. and **C.T. Agouridis**. FY 2011 Class B Education Incentive Grant Project: Improving Water Quality through Public Outreach and K-12 Schools in Fayette County, Lexington Fayette Urban County Government Class B Education Incentive Grants Program, **\$113,375**, December 2010 to May 2012, Co-Investigator
4. **Agouridis, C.T.**, R.C. Warner, C.D. Barton, and T.C. Dowdy. Use of GIS and WATER to Identify and Delineate Stream Types in Eastern Kentucky. Precision Resource Management, USDA-CSREES Special Grants, **\$48,200**, September 2010 to August 2013, Principal Investigator
5. **Agouridis, C.T.**, R.C. Warner, and C.D. Barton. Guy Cove Stream Restoration II: Years 1-3 Monitoring, Kentucky Department of Fish and Wildlife Resources, **\$41,915**, July 2010 to June 2012, Principal Investigator (monies from this grant were originally included in Guy Cove Stream Restoration II: Increase)
6. **Agouridis, C.T.**, C.D. Barton, R.C. Warner, S.F. Higgins, and A.A. Gumbert. Development and Implementation of Stream Restoration and Riparian Corridor Techniques for Enhancing Water Quality in the Cane Run Watershed, USDA-NRCS, **\$360,000**, April 2010 to April 2012, Principal Investigator

7. Higgins, S.F., **C.T. Agouridis**, A.A. Gumbert, S.R. Workman, L. Ormsbee, A. Fogle, J. Currens, J. Cobb, and J. Stringer. University of Kentucky Commonwealth Collaborative Award for Cane Run Watershed Assessment and Restoration, University of Kentucky, **\$10,000**, February 2010 to June 2011, Co-Investigator
8. Barton, C.D. and **C.T. Agouridis**. Characterization of Headwater Seep Wetlands in Southeastern Kentucky. Precision Resource Management, USDS-CSREES Special Grants, **\$49,946**, September 2009 to August 2012, Co-Investigator
9. Sither, A., R.C. Warner, and **C.T. Agouridis**. Kentucky Water Resources Institute, Kentucky River Authority Watershed Grant, **\$2,950**, December 2007 to December 2008, Co-Investigator
10. Barton, C.D., J.M. Lhotka, R.C. Warner, **C.T. Agouridis**, D.H. Graves and S. Fei. Demonstrating Techniques for Establishing Woody Bioenergy Plantations on Reclaimed Surface Mined Lands, Kentucky Governor's Office of Energy Policy: Energy R&D Program, **\$174,166**, November 2007 to November 2009, Co-investigator
11. Higgins, S.F., and A.A. Gumbert, **C.T. Agouridis**, J. Stringer, and L. Ormsbee. Cane Run and Royal Springs Watershed Based Plan Project, Kentucky Environmental and Public Protection Cabinet, Division of Water, **\$666,564**, December 2007 to October 2012, Co-Investigator
12. Higgins, S.F., **C.T. Agouridis**, A.A. Gumbert, and J. Stringer. Cane Run and Royal Springs Watershed Based Plan, Kentucky Environmental and Public Protection Cabinet, Division of Water, **\$454,343**, June 2009 to December 2013, Co-Investigator
13. **Agouridis, C.T.**, R.C. Warner, and C.D. Barton. Guy Cove Stream Restoration II: Increase, Kentucky Department of Fish and Wildlife Resources, **\$516,824**, June 2007 to June 2010, Principal Investigator
14. Sither, A., R.C. Warner, and **C.T. Agouridis**. Kentucky Water Resources Institute, Kentucky River Authority Watershed Grant, **\$2,500**, January 2007 to December 2008, Co-Investigator
15. **Agouridis, C.T.**, R.C. Warner, and C.D. Barton. Guy Cove Stream Restoration II, Kentucky Department of Fish and Wildlife Resources, **\$1,069,776**, June 2006 to June 2010, Principal Investigator
16. Barton, C.D. and **C.T. Agouridis**. Evaluating Post-Mined Land Reforestation through the Spatial Assessment of Soil Genesis, Precision Resource Management, USDS-CSREES Special Grants, **\$65,272**, October 2006 to October 2009, Co-Investigator
17. Graves, D.H., C.D. Barton, R.C. Warner, **C.T. Agouridis**, R. J. Sweigard, and D. S. Maehr. University of Kentucky Commonwealth Collaborative Award for Reforestation of Surface Mined Lands, University of Kentucky, **\$10,000**, November 2005 to June 2007, Co-Investigator
18. Warner, R.C., **C.T. Agouridis**, D.H. Graves, C.D. Barton, T.W. Sturm, and T.J. Taylor. Investigations of Alternatives for Restoring Headwater Streams via Sediment Pond Removal in the Appalachian Coal Belt Region, U.S. Office of Surface Mining. **\$44,278**, October 2005 to September 2007, Co-Investigator – No cost extension until June 2010

19. **Agouridis, C.T.**, R.C. Warner, and C.D. Barton. Guy Cove Stream Restoration, Kentucky Department of Fish and Wildlife Resources, **\$175,560**, August 2005 to June 2006, Principal-investigator (\$87,780 of grant was included in Guy Cove Stream Restoration II)
20. Warner, R.C., T.C. Dowdy, R. Kelly, S.R. Workman, R. L. Fehr, and **C.T. Agouridis**. HP Technology for Teaching Grant Initiative - 2004 Higher Education Edition, May 2004 to December 2005, Hewlett Packard, **\$70,000**, Co-investigator
21. Warner, R.C. and **C.T. Agouridis**. Demonstration of a Performance-Based System of Storm Water and Erosion Controls on Small Residential/Commercial Sites in the Georgia Piedmont, **\$254,645** (\$52,259 UK), April 2004 to September 2007, EPA 319(h), Co-investigator
22. **Agouridis, C.T.**. Major Research Equipment Initiative, Lexington Campus Facility, University of Kentucky, **\$8,410**, December 2002, Co-investigator
23. **Agouridis, C.T.** and D.R. Edwards. Graduate Student Award, Streambank Erosion Associated with Grazing Activities in Kentucky, **\$9,836**, Southern Region SARE, April 2002 to April 2005, Co-Investigator
24. Workman, S.R., J. Bicudo, E.S. Vanzant, and D.R. Edwards. Cattle Production Practices in Grazed Watersheds of the Humid Region, **\$306,000**, October 2001 to September 2003, USDA Integrated Research, Education, and Extension-Section 406, Principal grant developer - based largely on my Ph.D. research proposal
25. Edwards, D.R., L.W. Turner, E.S. Vanzant and **C.T. Agouridis**. Effects of Best Management Practice Implementation on Quality of Grazed Pasture Streamflow, **\$157,000**, SB271, July 2001 to July 2004, Co-Investigator

NON-AWARDED GRANTS

1. Fox, J., **C. Agouridis**, and R. Rowe. Stable Nitrogen Isotope Model to Measure Ecological Sustainability of Agricultural Streams, National Science Foundation, **\$151,587**, 2011-2014.
2. **Agouridis, C.T.**, C.D. Barton, H. Jin, and R.C. Warner. Evaluating Hydrological, Water Quality, and Biological Responses to Headwater Stream Restoration on Eastern Kentucky Surface Mines, USEPA Region 04 Wetland Development Grants, **\$427,464**, 2010-2013, Principal Investigator
3. Warner, R.C., C.D. Barton, **C.T. Agouridis**, and T. Coolong. Development and On-site Evaluation of Best Management Practices and Mining Techniques to Enhance Environmental Protection, USEPA Region 04 Wetland Development Grants, **\$824,481**, 2010-2013, Co-Investigator
4. Lhotka, J.M., C.D. Barton, **C.T. Agouridis**, and R.C. Warner. Using Short-rotation Technologies to Enhance Woody Feedstock Production on Reclaimed Surface Mines in Eastern Kentucky, Kentucky Rural Energy Consortium (KREC), **\$68,115**. Letter of Inquiry Submitted. Selected to Submit Proposal. Co-Investigator

5. Sither, A., R.C. Warner, **C.T. Agouridis**, T. Biebighauser, and B. James. Kentucky Water Resources Institute, Kentucky River Authority Watershed Grant, **\$2,850**, December 2009 to December 2010, Co-Investigator
6. **Agouridis, C.T.**, C.D. Barton, Mark S. Coyne, J. F. Fox, Amanda A. Gumbert, and Laura R. Lhotka. Techniques for Improving Stream Corridor Function in Urban and Urban-Fringe Environments. **\$631,957**, Cooperative State Research, Education, and Extension Service (CSREES) Integrated Programs - Funding Opportunity USDA-CSREES-ICGP-001264, 2009-2011, Principal Investigator
7. Lhotka, J.M., C.D. Barton, R.C. Warner, **C.T. Agouridis** and S. Fei. Demonstrating Techniques for Establishing Woody Bioenergy Plantations on Reclaimed Surface Mined Lands. **\$732,590**, Joint USDA/DOE (RD-RBP-BIOMASS-2007): Biomass Research and Development Initiative, 2008-2010, Co-Investigator
8. Fox, J.F., C. Harnett, and S. Lingireddy. Environmental Center for Watershed Sedimentation Program, **\$6,048,454**, KY NSF EPSCoR Research Infrastructure Initiatives Program, 2006-2012, Collaborator
9. Barton, C.D., J.M. Lhotka, R.C. Warner, **C.T. Agouridis**, D.H. Graves and S. Fei. Kentucky Governor's Office of Energy Policy: Energy R&D Program, Techniques for Establishing Woody Biomass Plantations on Surface Mines as Feedstocks for Energy Production, **\$169,526**, 2006-2008, Co-Investigator (Awarded in 2007)
10. **Agouridis, C.T.**, J.R. Bicudo, E. S. Vanzant, A. Smith, and W.R. Burris. Southern Region SARE and Southern Rural Development Center Sustainable Community Innovation Grant, Developing Future Leaders: Training Central Kentucky Youth to be Effective Cattle Producers and Environmental Stewards, **\$10,000**, 2004-2006, Principal Investigator
11. Workman, S.R., J. Bicudo, E.S. Vanzant, and D.R. Edwards. USDA Integrated Research, Education, and Extension-Section 406, Cattle Production Practices in Grazed Watersheds of the Humid Region, **\$537,421**, Principal grant developer - based on expansion of my Ph.D. research
12. Crofcheck, C., **C.T. Agouridis**, R.C. Warner, J.R. Bicudo, S.R. Workman, and D.R. Edwards. Major Research Equipment Initiative, Lexington Campus Facility, **\$7,335**, 2003, Co-investigator
13. Warner, R.C., **C.T. Agouridis**, S.R. Workman, and J.R. Bicudo. Demonstration of a Riparian Corridor Weep-Berm Control System for Reducing Nonpoint Source Pollution in Northern Kentucky, **\$172,336**, 2004-2006, Co-investigator
14. **Agouridis, C.T.**, J. R. Bicudo, S. R. Workman, E.S. Vanzant, and R. Fleming. Linking Drinking Water Quality to Beef Cattle Performance: Encouraging the Use of Grazing BMPs through Economics and Education, SB271, **\$64,500**, 2004-2007, Principal Investigator
15. Warner, R.C., **C. T. Agouridis**, and C.D. Barton. Demonstration of a Combination Weep Berm-Grass Filter Control System for Sinkhole Protection, SB271, **\$48,304**, 2004-2007, Co-investigator

SPECIAL TASKFORCE

CONSERVATION EFFECTS ASSESSMENT PROJECT – Invited Participant

The Conservation Effects Assessment Project (CEAP) is a multi-agency effort to scientifically quantify the environmental benefits of conservation practices used by private landowners participating in U.S. Department of Agriculture (USDA) and other conservation programs. Project findings will guide USDA conservation policy and program development and help farmers and ranchers to make informed conservation choices. Refer to <ftp://ftp-fc.sc.gov.usda.gov/NHQ/nri/ceap/ceapglcifactsheet.pdf> for additional information.

- Serve as an invited team member on the Prescribed Grazing Writing Group for the Pastureland Literature Synthesis
- Lead author on the chapter's major sections regarding surface and subsurface water quality and water quantity as well as riparian and watershed function that pertain to grazing method, grazing intensity, livestock distribution, type and class of livestock, and season and deferment of grazing (each major section is equivalent in effort to a journal article)
- Team members include L. Sollenberger (University of Florida; group leader), **C. T. Agouridis** (University of Kentucky), E. Vanzant (University of Kentucky), A. Franzluebbbers (USDA-ARS), L. Owens (USDA-ARS)

PUBLICATIONS: REFEREED (underline denotes graduate student)

1. Miller, J., C.D. Barton, **C.T. Agouridis**, A. Fogle, T. Dowdy, and P. Angel. Evaluating Soil Genesis and Reforestation Success on a Surface Coal Mine in Appalachia. *Soil Science Society of America Journal* (In Press).
2. **Agouridis, C.T.**, P.N. Angel, T.J. Taylor, C.D. Barton, R.C. Warner, and X.Yu, and C. Wood. Water Quality Characteristics of Discharge from Reforested Loose-Dumped Mine Spoil in Eastern Kentucky. *Journal of Environmental Quality*. (In Press).
3. Sollenberger, L.E., **C.T. Agouridis**, E.S. Vanzant, A.J. Franzluebbbers, and L.B. Owens. 2011. Prescribed Grazing in Pastureland. *In Conservation Effects Assessment Program for Pasturelands*. Allen Press, New York. (In Press) (Invited)
4. Mastin, C.B., J.D. Edwards, C.B. Barton, A.D. Karathanasis, **C.T. Agouridis**, and R.C. Warner. 2011. Development and Deployment of a Bioreactor for the Removal of Sulfate and Manganese from Circumneutral Coal Mine Drainage. *In: Bioreactors: Design, Properties and Applications*. Nova Science Publishers: Hauppauge, NY. (In Press)
5. Brockman, R.A., **C.T. Agouridis**, S.R. Workman, L. Ormsbee, and A.W. Fogle. 2011. Bankfull Regional Curves for the Bluegrass Region of Kentucky. *Journal of the American Water Resources Association*. (In Press)
6. **Agouridis, C.T.**, R.A. Brockman, S.R. Workman, L. Ormsbee, and A.W. Fogle. 2011. Bankfull Hydraulic Geometry Relationships for the Bluegrass Region of Kentucky. *Water* 3: 923-948.
7. Brinks, J.S., J.M. Lhotka, C.D. Barton, R.C. Warner, and **C.T. Agouridis**. 2011. Effects of Fertilization and Irrigation on American Sycamore and Black Locust Planted on a Reclaimed Surface Mine in Appalachia. *Forest Ecology and Management* 261: 640-648.

8. Barnett, J.R., R.C. Warner, C.T. Agouridis, and D.R. Edwards. 2010. Ability of a Weep Berm to Enhance Grass Filter Performance in a Simulated Grazed System: Preliminary Results. *Natural and Environmental Sciences* 1(1): 12-20.
9. Warner, R.C., **C.T. Agouridis**, P.B. Vingralek, and A.W. Fogle. 2010. Reclaimed Mineland Curve Number Response to Temporal Distribution of Rainfall. *Journal of the American Water Resources Association* 46(4): 724-732. Impact Factor: 1.436
10. Taylor, T.J., **C.T. Agouridis**, R.C. Warner, and C.D. Barton. 2009. Hydrologic Characteristics of Loose Dumped Spoil. *Hydrological Processes* 23(23): 3372-3381. Impact Factor: 1.798
11. Taylor, T.J., **C.T. Agouridis**, R.C. Warner, and C.D. Barton. 2009. Runoff Curve Numbers for Loose-dumped Spoil in the Cumberland Plateau of Eastern Kentucky. *International Journal of Mining, Reclamation and Environment* 23(2): 103-120.
12. **Agouridis, C.T.** 2007. Book Review of Water Quality Engineering in Natural Systems. *Journal of the American Water Resources Association* 43(2): 559-560. Impact Factor: 1.436
13. **Agouridis, C.T.**, S.R. Workman, R.C. Warner, and G.D. Jennings. 2005. Livestock Grazing Management Impacts on Stream Water Quality: A Review. *Journal of the American Water Resources Association* 41(3): 591-606. Impact Factor: 1.436
14. **Agouridis, C.T.**, D.R. Edwards, S.R. Workman, J.R. Bicudo, J.L. Taraba, and E.S. Vanzant. 2005. Streambank Erosion Associated with Grazing Practices in the Humid Region. *Transactions of the ASAE* 48(1): 181-190. Impact Factor: 1.042
15. **Agouridis, C.T.**, T.S. Stombaugh, S.R. Workman, B.K. Koostera, D.R. Edwards, and E.S. Vanzant. 2004. Suitability of a GPS Collar for Grazing Studies. *Transactions of the ASAE* 47(4): 1321-1329. Impact Factor: 1.042
16. **Agouridis, C.T.** and D.R. Edwards. 2003. The Development of Relationships between Constituent Concentration and Generic Hydrological Variables. *Transactions of the ASAE* 46(2): 245-256. Impact Factor: 1.042

PUBLICATIONS: IN REVIEW (underline denotes graduate student)

1. **Agouridis, C.T.** and N. Jerdon. Long-term Exclusion Fencing Reduces Streambank Erosion. *Rangeland Ecology and Management*. (In Review)

EXTENSION PUBLICATIONS: REFEREED (underline denotes graduate student)

1. **Agouridis, C.T.**, J.A. Villines, and J.D. Luck. 2011. Permeable Pavement for Stormwater Management. 2011. University of Kentucky Cooperative Extension Service: AEN-108.
2. **Agouridis, C.T.**, S.J. Wightman, J.A. Villines, and J.D. Luck. 2011. Reducing Stormwater Pollution. University of Kentucky Cooperative Extension Service: AEN-106.
3. Higgins, S.F., S.J. Wightman, and **C.T. Agouridis**. 2011. Pasture Feeding, Streamside Grazing, and the Kentucky Agriculture Water Quality Plan. University of Kentucky Cooperative Extension: AEN-105.

4. Higgins, S.F., **C.T. Agouridis**, and S.J. Wightman. 2011. Stream Crossings for Cattle. University of Kentucky Cooperative Extension Service: AEN-101.
5. Higgins, S.F., **C.T. Agouridis**, and S.J. Wightman. 2011. Shade Options for Grazing Cattle. UK Cooperative Extension Service: AEN-99.
6. **Agouridis, C.T.**, S.J. Wightman, C.D. Barton, and A.A. Gumbert. 2010. Planting a Riparian Buffer. University of Kentucky Cooperative Extension Service: ID-185.
7. **Agouridis, C.T.**, O.H. Hoffmann, J.R. Turpin, A.R. Osborne, and T.M. Henningsen. 2010. Building a Rain Barrel. University of Kentucky Cooperative Extension Service: HENV2-1.
8. Gumbert, A.A., Higgins, S.F., and **C.T. Agouridis**. 2009. Riparian Buffers: A Livestock Best Management Practice for Protecting Water Quality. University of Kentucky Cooperative Extension Service: ID-175.
9. Higgins, S.F., **C.T. Agouridis**, and A.A. Gumbert. 2008. Drinking Water Quality Guidelines for Cattle. University of Kentucky Cooperative Extension Service: ID-170.

VIDEOS

1. Reclaiming the Future: Reforestation in Appalachia. 2007. Producer: D.H. Graves. Participant in Video.
2. Together We Can: The Importance of Partnerships. 2007. Producer: U.S. Department of Interior. Participant in Video.

WEB PAGES

1. Reclamation of Surface Mine Lands. 2007. Developers: **Agouridis, C.T.**, T. Dowdy, and C.D. Barton. Available at: <http://www.bae.uky.edu/UKReclamation>

SHORT COURSES AND WORKSHOPS

1. Implementing Livestock Best Management Practices. 2011. Developers: **Agouridis, C.T.**, S.F. Higgins, and A.A. Gumbert. Developed for the LFUCG Stormwater Quality Incentive Grant Program. Presented at the University of Kentucky Spindletop Farm, Lexington, KY, October 25.
2. Riparian Buffer Restoration Workshop. 2010. Developers: **Agouridis, C.T.**, A.A. Gumbert, and C.D. Barton. Developed for the LFUCG Stormwater Quality Incentive Grant Program. Presented at the Kentucky Horse Park, Lexington, KY, October 5.
3. Rain Gardens for Stormwater Management. 2011. Developers: **Agouridis, C.T.**, S. L. Plueger and J.R. Turpin. Developed for LFUCG Stormwater Quality Incentive Grant Program. Presented at Coca Cola Refreshments USA, Inc., Lexington, KY, August 18.
4. Stream Restoration Principles and Practices. 2010. Developers: **Agouridis, C.T.** and B.J. Belcher. Presented at the University of Kentucky, Lexington, KY, October 26-28.

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2. **Agouridis, C.T.** and E. Jennings. The Effect of State Social, Economic, and Political Characteristics on Childhood Immunization Policy. Policy Studies Journal.
3. Routt, O., **C.T. Agouridis**, R.C. Warner, and A. Fogle. RUSLE C-factors for Mine Spoils on Steep, Low Compacted Slopes in the Cumberland Plateau of Eastern Kentucky. Soil Science.
4. **Agouridis, C.T.**, D.R. Edwards, S.R. Workman, E.S. Vanzant, and B.K. Koostra. Influence of BMPs on Cattle Position Preference. Transactions of the ASABE.
5. Warner, R.C., F.X. Collins-Camargo, A.W. Fogle, and **C.T. Agouridis**. Performance of a Sand Filter Installed Down-gradient of a Sediment Basin. Transactions of the ASABE.
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2. Angel, P.N., C.D. Barton, R.C. Warner, **C.T. Agouridis**, T. Taylor, and S.L. Hall. 2008. Tree Growth, Natural Regeneration and Hydrologic Characteristics of Three Loose-Graded Surface Mine Spoils in Kentucky. *In*: Proceedings of 2008 National Meeting of the American Society of Mining and Reclamation, Richmond, VA, New Opportunities to Apply Our Science. June 14-19, 2008. R.I. Barnhisel (Ed.) Published by ASMR, 3134 Montavesta Rd., Lexington, KY 40502.
3. Angel, P.N., C.D. Barton, R.C. Warner, **C. T. Agouridis**, R.J. Sweigard, and D.H. Graves. 2007. Tree Growth and Natural Regeneration on Loose-Graded Brown and Gray Sandstone and Mixed Sandstone/Shale Surface Mine Spoils in Kentucky: Preliminary Findings. *In*: Proceedings of 2007 National Meeting of the American Society of Mining and Reclamation, Gillette WY, June 27, 2007. R.I. Barnhisel (Ed.) Published by ASMR, 3134 Montavesta Rd., Lexington, KY

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5. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2009. Modeling Hydrology and Sediment Loss on Head-of-Hollow Fills: Geomorphic Versus Traditional Approach. IN K.C. Vories and A. Caswell, (eds.) Proceedings of Geomorphic Reclamation and Natural Stream Design: A Technical Interactive Forum. USDOJ Office of Surface Mining and Coal Research Center, Southern Illinois University at Carbondale Illinois. (Invited)
6. Angel, P.N., C.D. Barton, and **C. T. Agouridis**. 2008. Interagency Study Examines Impacts of Mine Spoil Types on Reforestation Efforts. U.S. EPA Technology News and Trends: 37:4-5. <http://www.clu-in.org/products/newsltrs/tnandt/>
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9. Barton, C.D. and **C.T. Agouridis**. 2007. Evaluating Post-Mined Land Reforestation through the Spatial Assessment of Soil Genesis: Year 1 Progress Report.
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12. **Agouridis, C.T.**, A.W. Fogle, S.R. Workman, and S.F. Higgins. 2007. Quality Assurance Project Plan. Cane Run and Royal Springs Restoration Project. 144 p.
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4. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research: Hydrology and Water Quality. Report for the Senator Mitch McConnell's Staff, Bent Mountain, KY, December 14.
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6. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research: Hydrology and Water Quality. Report for the Kentucky 404 Task Force, September 30.
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14. **Agouridis, C.T.** and D.R. Edwards. 2005. Stream Bank Erosion Associated with Grazing Activities in Kentucky. SARE 2004-2005 Final Report, April 12.
15. Workman, S.R., J.R. Bicudo, E.S. Vanzant, D.R. Edwards and **C.T. Agouridis**. 2004. Final Report: Cattle Production Practices in Grazed Watersheds of the Humid Region. Final Report for USDA Proposal Number 2001-04909, December 9.
16. **Agouridis, C.T.**, C.D. Barton and R.C. Warner. 2004. Preliminary Scope of Work and Cost Estimate for Stream Creation and Rehabilitation. Report for the Commissioner Susan Bush and Commissioner Lloyd Cress, Frankfort, Kentucky, November 10.
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29. **Agouridis, C.T.**, D.R. Edwards, L.W. Turner, and E.S. Vanzant. 2002. Effects of Best Management Practice Implementation on Quality of Grazed Pasture Streamflow. Annual Progress Report, July 19.
30. **Anderson, C.T.** and D.R. Edwards. 2001. The Development of Relationships Between Constituent Concentration and Generic Hydrological Variables. Paper for the 2001 ASAE Annual International Meeting, Paper # 012113, Sacramento, California, July 30-August 1, 2001, 29 p.
31. **Anderson, C.T.** 2000. Examination of Hydrological, Chemical, and Biological Gradients along the Hyporheic Zone of an Upland Agricultural Stream in East Tennessee. Master's Thesis, University of Tennessee, Knoxville, TN, p. 228.
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1. **Agouridis, C.T.M.** Arthur, and S.J. Wightman. 2010. Introduction to Stream Restoration and Forest Ecology: Students Gain Practical Skills and Collaboration. NRCM/NRES Newsletter 1(2): 5.
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3. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2009. Restoring a Watershed. Sustainability Newsletter 1(1): 5. University of Kentucky.
4. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2009. Design of a Headwater Stream System for a Head-of-Hollow Fill. Two-page informative document for Appalachian Regional Reforestation Initiative Conference. Prestonsburg, KY, August 4-6.
5. **Agouridis, C.T.**, R.C. Warner and C.D. Barton. 2008. University of Kentucky Mined Land Reclamation: Inventory of Expertise and Assets. Three-page informative document for Center for Applied Energy Research.
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3. Barton, C.D., **Agouridis, C.T.**, Warner, R.C., Sweigard, R.J., and B. Zik. 2011. Coal Mining and Reclamation Practices: Panel Discussion. 35th Governor's Conference on Energy and the Environment. Lexington, KY, September 26-27. (Invited)
4. Otte, H., Barton, C.D., and **C.T. Agouridis**. 2011. Control and Treatment of Runoff from Muck Storage Pads Using Permeable Basins and Phytotechnologies. 8th Conference: International Phytotechnology Society: Putting Plants to Work Where We Live, Breathe, and Play. Portland, OR, September 13-16.
5. Brockman, R.A., **Agouridis, C.T.**, S.R. Workman, and L.E. Ormsbee. 2011. Hydraulic Geometry Relationships and Regional Curves for the Inner and Outer Bluegrass Regions of Kentucky. 2011 ASABE Annual International Meeting. Louisville, KY, August 7-11.
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13. Mastin, C., J. Edwards, C.D. Barton, **C.T. Agouridis**, R.C. Warner. 2009. The Guy Cove Project: Creating a Headwater Stream on a Head-of-Hollow Fill. Presentation for the Mid-Atlantic Stream Restoration Conference, Morgantown, WV, November 3-5.
14. L.E. Sollenberger, E.S. Vanzant, **C.T. Agouridis**, A.J. Franzluebbbers, and L.B. Owens. 2009. Science Behind Prescribed Grazing as a Conservation Practice. Crop Science Society of America, ASA-CSSA-SSSA 2009 International Annual Meetings, Pittsburg, PA, November 1-5.
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18. **C.T. Agouridis**, C.D. Barton and R.C. Warner. 2009. Recreating a Headwater Stream System on a Head-of-Hollow Fill: A Kentucky Case Study. Geomorphic Reclamation and Natural Stream Design at Coal Mines, Bristol, VA, April 27-30. (Invited)
19. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2009. Modeling Sediment Loss on Geomorphic Graded Reforestation Lands in Kentucky. Geomorphic Reclamation and Natural Stream Design at Coal Mines, Bristol, VA, April 27-30. (Invited)
20. Reeves, C., J. Stringer, C.D. Barton and **C.T. Agouridis**. 2008. Sediment Delivery from Temporary Stream Crossing Technologies. Society of American Foresters 2007 National Convention, Portland, OR, October 23-27.

21. Angel, P.N., C.D. Barton, R.C. Warner, **C.T. Agouridis** and T.J. Taylor. 2008. Forest Establishment and Water Quality Characteristics on a Loose-Graded Surface Mine in Eastern Kentucky. USEPA and National Groundwater Association Remediation of Abandoned Mine Lands Conference. Denver, CO. October 2-3, 2008. (Invited)
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25. **Agouridis, C.T.**, R.C. Warner, C.D. Barton, D.A. Bidelspach, G.D. Jennings, R. Osborne, and J.W. Marchant. 2008. Design of a Headwater Stream System for a Head-of-Hollow Fill. Presentation for the 2008 SME Annual Meeting & Exhibit, Salt Lake City, Utah, February 24-27. (Invited)
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29. Taylor, T.J., R.C. Warner, **C.T. Agouridis**, C.D. Barton, D.H. Graves, and P.N. Angel. 2007. Curve Numbers for Forested Watersheds and Loose-Dumped Mine Spoil. Presentation for the Society of American Foresters 2007 National Convention, Portland, OR, October 23-27.
30. Angel, P.N., C.D. Barton, R.C. Warner, **C. T. Agouridis**, S. Hall, R.J. Sweigard and D.H. Graves. 2007. Tree growth on loose-graded surface mine spoil in Kentucky. Presentation for the Society of American Foresters 2007 National Convention, Portland, OR, October 23-27.
31. **Agouridis, C.T.**, C.D. Barton, R.C. Warner, D.A. Bidelspach, J.W. Marchant, and G.D. Jennings. 2007. Incorporating the Forestry Reclamation Approach into Head-of-Hollow Fill Redesign. Poster for the 20th Annual Kentucky Professional Engineers in Mining Seminar, Lexington, KY, August 29.

32. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2007. Mining and Mine Reforestation: Influences on Watershed Hydrology. Presentation for the 2007 ARRI Mined Land Reforestation Conference, Abingdon, VA, August 7-8. (Invited)
33. **Agouridis, C.T.**, C.D. Barton, R.C. Warner, D.A. Bidelspach, J.W. Marchant, and G.D. Jennings. 2007. Incorporating the Forestry Reclamation Approach into Head-of-Hollow Fill Redesign. Poster for the 2007 ARRI Mined Land Reforestation Conference, Abingdon, VA, August 7-8. (Invited)
34. Angel, P.N., C.D. Barton, R.C. Warner, **C.T. Agouridis**, R.J. Sweigard, and D.H. Graves. 2007. Tree Growth and Natural Regeneration on Loose-Graded Brown and Gray Sandstone and Mixed Sandstone/Shale Surface Mine Spoils in Kentucky: Preliminary Findings. 2007 National Meeting of the American Society of Mining and Reclamation, Gillette WY, June 2-7.
35. **Agouridis, C.T.**, R.C. Warner, C.D. Barton, D.A. Bidelspach, G.D. Jennings, J.W. Marchant, and R. Osborne. 2006. Promoting a Paradigm Shift in Head-of-Hollow Fill Design through Public Education. Presentation for Stream Restoration in the Southeast: Accomplishments and Opportunities, Charlotte, NC, October 2-5.
36. **Agouridis, C.T.**, R.C. Warner, C.D. Barton, D.A. Bidelspach, G.D. Jennings, J.W. Marchant, and R. Osborne. 2006. Design of a Headwater Stream System for a Head-of-Hollow Fill. Presentation for Stream Restoration in the Southeast: Accomplishments and Opportunities, Charlotte, NC, October 2-5.
37. Taylor, T.J., **C.T. Agouridis**, R.C. Warner, C.D. Barton, D.H. Graves, and P.N. Angel. 2006. Hydrologic and Water Quality Characteristics of Loose-Dumped Mine Spoil. Presentation for the 2006 7th ICARD Annual Meeting, St. Louis, MO, March 26-30. *Presentation won the 2nd Place Student Award.*
38. Angel, P.N., D.H. Graves, C.D. Barton, R.C. Warner, R.J. Sweigard, and **C.T. Agouridis**. 2006. Surface Mine Reforestation Research: Evaluation of Tree Response to Low Compaction Reclamation Techniques. Presentation for the 2006 7th ICARD Annual Meeting, St. Louis, MO, March 26-30.
39. Warner, R.C. and **C.T. Agouridis**. 2006. Automatic Drip Irrigation Systems to Increase Productivity. Presentation for the 2006 Kentucky Fruit and Vegetable Conference, January 10.
40. Warner, R.C., J.R. Barnett, and **C.T. Agouridis**. 2004. The Effectiveness of a Combination Weep Berm-Grass Filter Riparian Control System for Reducing Fecal Bacteria and Nutrients from Grazed Pastures. Paper for the 2004 ASAE Self-Sustaining Solutions for Streams, Wetlands, and Watersheds. St. Paul, Minnesota, September 12-15.
41. **Agouridis, C.T.**, D.R. Edwards, S.R. Workman, J.R. Bicudo, J.L. Taraba, E.S. Vanzant and R.S. Gates. 2004. Effects of Cattle Grazing and BMPs on Stream Water Quality. Presentation for the 2004 ASAE International Meeting, Ottawa, Canada, August 2-4.
42. **Agouridis, C.T.**, D.R. Edwards, S.R. Workman, J.R. Bicudo, J.L. Taraba, E.S. Vanzant and R.S. Gates. 2004. Influence of BMPs on Cattle Position Preference. Presentation for the 2004 ASAE International Meeting, Ottawa, Canada, August 2-4.

43. **Agouridis, C.T.**, D.R. Edwards, S.R. Workman, J.R. Bicudo, J.L. Taraba, E.S. Vanzant and R.S. Gates. 2004. Streambank Erosion Associated with Grazing Practices in Central Kentucky. Presentation for the 2004 ASAE International Meeting, Ottawa, Canada, August 2-4.
44. C.D. Barton, D. Graves, R. Warner, **C. Agouridis** and R. Sweigard. 2004. Carbon Sequestration and Mineland Reforestation. Presentation for the 3rd Annual Conference on Carbon Sequestration, Alexandria, VA, May 3-6.
45. Workman, S.R., J.R. Bicudo, E.S. Vanzant, D.R. Edwards, and **C.T. Agouridis**. 2004. Cattle Production Practices in Grazed Watersheds of the Humid Region. Presentation for the USDA-CSREES National Water Quality Conference in Clearwater, Florida, January 11-14.
46. **Agouridis, C.T.**, T.S. Stombaugh, S.R. Workman, B.K. Koostra, and D.R. Edwards. 2003. Examination of GPS Collar Capabilities and Limitations for Tracking Animal Movement in Grazed Watershed Studies. Presentation for the 2003 ASAE International Meeting, Las Vegas, Nevada, July 28-31.
47. Bicudo, J.R., **C.T. Agouridis**, R.S. Gates, S.R. Workman, and E.S. Vanzant. 2003. Effects of Air and Water Temperature and Stream Access on Grazing Cattle Water Intake Rates. Presentation for the 2003 ASAE International Meeting, Las Vegas, Nevada, July 28-31.
48. Koostra, B.K., **C.T. Agouridis**, and S.R. Workman. 2003. GIS Analysis of GPS Position Data of Beef Cattle. Presentation at the 2003 ESRI International User Conference, San Diego, California, July 7-11.
49. Workman, S.R., J.R. Bicudo, E.S. Vanzant, D.R. Edwards, and **C.T. Agouridis**. 2003. Cattle Production Practices in Grazed Watersheds of the Humid Region. Presentation for the USDA-CSREES National Water Quality Conference, Tucson, AZ, January 12-15.
50. Gates, R.S., E. Vanzant, L.M. Lawrence, S.R. Workman, L.W. Turner, **C. Agouridis**, J. Davis, A.H. Green, and J.L. Purswell. 2002. Remote Continuous Physiological Monitoring for Large Animals. Poster presented at NASA R&D Conference, Louisville, Kentucky, October 22.
51. **Anderson, C.T.** and D.R. Edwards. 2001. The Development of Relationships between Constituent Concentration and Generic Hydrological Variables. Poster presented at the 2001 ASAE Annual International Meeting, Sacramento, California, July 30-August 1.
52. **Anderson, C.T.**, R.E. Yoder, D.R. Raman, and M.D. Mullen. 2000. Examination of Hydrological, Chemical, and Biological Gradients along the Hyporheic Zone of an Upland Agricultural Stream in East Tennessee. Presentation at the 2000 ASAE Annual International Meeting, Milwaukee, Wisconsin, July 9-12.
53. **Anderson, C.T.**, R.E. Yoder, D.R. Raman, and M.D. Mullen. 2000. Examination of Hydrological, Chemical, and Biological Gradients along the Hyporheic Zone of an Upland Agricultural Stream in East Tennessee. Presentation at the 2000 Tennessee Section of the ASAE, Martin, Tennessee, May 23.
54. Quarter-Scale Tractor Design Competition. Presentation at the 1998 ASAE International Meeting, Orlando, Florida, July 12-15.

PRESENTATIONS: EXTENSION (underline denotes graduate student)

The conveyance of research ideas and results to stakeholders such as agency personnel, non-governmental organizations, consultants, and other such individuals through presentations and tours is typically viewed as an extension function; however, for applied research such as that which I largely conduct, such activities are critical to developing partnerships that help build a strong research program.

1. **C.T. Agouridis**. 2011. Bioenvironmental Engineering. Presentation for the Biosystems and Agricultural Engineering Graduate Recruitment Event. October 21.
2. **Agouridis, C.T.** 2011. Mining and Reclamation in Appalachia. Presentation for the Governor's Scholar Program. University of Kentucky Robinson Forest, KY, July 7. (Invited).
3. Warner, R.C. and **C.T. Agouridis**. 2011. Valley Fill Design and Construction to Improve Ecological Performance. Presentation for the U.S. Office of Surface Mining Lexington Field Office Spring Meeting, Berea, KY, May 18. (Invited).
4. **Agouridis, C.T.** 2011. Role of Vegetation in Preventing Bank Erosion. Presented to the Riparian Buffer Restoration Workshop, University of Kentucky Arboretum, Lexington, KY, April 19.
5. Warner, R.C. and **C.T. Agouridis**. 2011. Valley Fill Design and Construction Alternatives to Improve Ecological Performance. Presentation for the Appalachian Stream Mitigation Workshop, Hilton Downtown, Lexington, KY April 14. (Invited).
6. Gumbert, A., S. Higgins, and **C. Agouridis**. 2011. Cane Run Watershed Assessment and Restoration – Phase One Accomplishments. Presentation for the Kentucky Water Resources Research Institute Annual Symposium. Marriot Griffin Gate Resort, Lexington, KY, March 21.
7. Gumbert, A., S. Higgins, and **C. Agouridis**. 2011. Cane Run Watershed Assessment and Restoration – Phase One Accomplishments. Presentation for the 2011 USDA-NIFA Land Grant and Sea Grant National Water Conference, Washington, D.C., January 31-February 1.
8. Agouridis, C.T. and R.C. Warner. 2011. Integrating Stream Restoration into Mined Land Reclamation: A Focus on Appalachia. Presentation for the Kentucky Association of State Extension Professionals (KASEP), University of Kentucky, Lexington, KY, January 14.
9. Agouridis, C.T. 2010. Environmental Restoration and Geospatial Engineering. Presentation for the Departamento de Engenharia Agrícola (Department of Agricultural Engineering) at Universidade Federal de Campina Grande, Brazil, November 30. (Invited)
10. **Agouridis, C.T.**, R.C. Warner, and C.D. Barton. 2010. The Guy Cove Stream Restoration Project. Presentation for the Underground Mine/Reforestation Tour for Editorial Staff from the Lexington Herald Leader, Mountain Eagle, Appalachian News, and East Kentucky Broadcasting, Hazard, KY, November 10. (Invited)
11. **Agouridis, C.T.**, R.C. Warner, and C.D. Barton. 2010. The Guy Cove Stream Restoration Project. Presentation for the Stream Identification Training Course Participants, University of Kentucky Robinson Forest, KY, November 5.

12. **Agouridis, C.T.** 2010. Role of Vegetation in Preventing Bank Erosion. Presented to the Riparian Buffer Restoration Workshop, University of Kentucky Arboretum, Lexington, KY, October 19 and 21.
13. **Agouridis, C.T.** and R.C. Warner. 2010. Integrating Stream Restoration into Mined Land Reclamation: a Focus on Appalachia. Presentation for the Board on Earth Sciences and Resources, National Research Council of the National Academies, Washington, D.C., October 19. (Invited)
14. **Agouridis, C.T.** 2010. Managing the Nitrogen Cycle: Grand Challenges for Engineering. Presented to the Engineering Residential College, Lexington, KY, October 6. (Invited)
15. **Agouridis, C.T.** 2010. Becoming a Professional Engineer: How do I get Licensed? Presented to BAE 400 Senior Seminar, Lexington, KY, September 20. (Invited)
16. **Agouridis, C.T.** 2010. Environmental Restoration and Geospatial Engineering. Presented to the BAE Student Branch, Lexington, KY, September 7. (Invited).
17. **Agouridis, C.T.**, R.C. Warner, and C.D. Barton. 2010. The Guy Cove Stream Restoration Project. Presentation to the US EPA Region 03 and 04, Hazard, KY, April 20. (Invited)
18. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2010. The Seven Steps to Enhanced Environmental Protection: New Approaches to Excess Spoil Fill Construction. Presentation to the Interagency Permit Coordination Group, Office of Surface Mining, Lexington, KY, April 14. (Invited)
19. **Agouridis, C.T.**, R.C. Warner, and C.D. Barton. 2010. The Guy Cove Stream Restoration Project. Presentation to the Appalachian Regional Management Council Meeting, Morgantown, WV, March 31-April 1. (Invited)
20. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2010. Integrating Advanced Mining, Reclamation, and Water and Sediment Treatment Systems to Enhance Environmental Protection. Presentation to the Appalachian Regional Management Council Meeting, Morgantown, WV, March 31-April 1. (Invited)
21. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2010. Methods to Enhance Environmental Protection through Integration of Advanced Mining, Reclamation and Water and Sediment Treatment Systems. Presentation to the Director of the U.S. Office of Surface Mining, Washington, D.C., March 11. (Invited)
22. **Agouridis, C.T.**, C.D. Barton, R.C. Warner, and C.B. Mastin. 2010. The Guy Cove Stream Restoration Project. Presentation to United States Office of Surface Mining Director Joseph Pizarchik, Hazard, KY, February 11-12, 2010. (Invited)
23. Barton, C.D., **C.T. Agouridis**, R.C. Warner, D.H. Graves, R. Sweigard, P.N. Angel, and P. Rothman. 2010. Reforestation of Surface Mines in Appalachia. Presentation to the U.S. EPA Region IV, EPA Mountaintop Mining Related Water Quality/Quantity Research Training/Webinar, Atlanta, GA, January 6. (Invited)

24. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2008. Design and Construction Process for the Guy Cove Restoration Project. Presentation to the Nature Conservancy Clinch Valley Program, October 30.
25. **Agouridis, C.T.**, R.C. Warner and T. Dowdy. 2008. Stream Delineation and Identification: Cumulative Impact of Mining on Watersheds, Streams and Hydrology in the Middle Fork Kentucky River Watershed. Presented at the Kentucky Watersheds Assessment Project Cumulative Impact Assessment for 404 Permits: A Watershed Approach. Lexington, KY, October 6 (Invited)
26. Warner, R.C., **C.T. Agouridis**, S.F. Torealba and T. Dowdy. 2008. Cumulative Impact of Mining on Watersheds, Streams and Hydrology in the Middle Fork Kentucky River Watershed. Presented at the Kentucky Watersheds Assessment Project Cumulative Impact Assessment for 404 Permits: A Watershed Approach. Lexington, KY, October 6. (Invited)
27. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2008. Design and Construction Process for the Guy Cove Restoration Project. Presentation to the U.S. Corps of Engineers Regulatory Branches (Districts: Louisville, Huntington, Pittsburg, and Nashville), September 16.
28. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2008. University of Kentucky's Surface Mine Reforestation Research Complexes at Bent Mountain and Guy Cove. Presentation to the Director, U.S. Office of Surface Mining, September 4.
29. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2008. Holistic Approach to Head-of-Hollow Fill Design. National Mining Association Clean Water Act Section 404 Permitting Policy Assessment, Lexington, KY, July 29. (Invited)
30. **Agouridis, C.T.** 2008. University of Kentucky Research at Starfire Mine. Presentation for Assistant Secretary Allred and Regional Director Tom Shope, U.S. Office of Surface Mining, Perry County, Kentucky, May 8.
31. **Agouridis, C.T.**, R.C. Warner and C.D. Barton. 2008. University of Kentucky Research: Mined Land Reforestation. Presentation for Arbor Day Celebration, Bulan, KY, May 9.
32. **Agouridis, C.T.** and C.D. Barton. 2007. Watershed Restoration: What Have We Learned? Where Are We Headed? Presentation for CEDAR Regional Coal Fair, Pikeville, KY, May 8. Presentation was aired on local radio stations.
33. Warner, R.C., **C.T. Agouridis** and C.D. Barton. 2007. New Technologies for Appalachian Surface Mining. Presentation for CEDAR Regional Coal Fair, Pikeville, KY, May 8. Presentation was aired on local radio stations.
34. Graves, D.H., R.C. Warner, **C.T. Agouridis** and C.D. Barton. 2007. University of Kentucky Research at 17 West: Mined Land Reforestation. Department of Natural Resources and the Office of Surface Mining Reclamation and Enforcement. Presentation for Arbor Day Celebration, Inez, KY, May 8.

35. Warner, R.C., **C.T. Agouridis** and C.D. Barton. 2006. Starfire Mining Complex: Research Initiatives in Mine Land Reforestation. U.S. Office of Surface Mining Appalachian Regional Reforestation Initiative. November 3.
36. **Agouridis, C.T.**, C.D. Barton, D.A. Bidelspach, and R.C. Warner. 2006. Robinson Forest Laurel Fork Tributary: Design Update. Presentation for the Kentucky Mitigation Review Team, Frankfort, KY, September 21.
37. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2006. Mined Land Reclamation Research: Hydrology and Water Quality. Presentation for U.S. Fish and Wildlife Service and Office of Surface Mining Terrestrial Carbon Sequestration and Appalachian Regional Reforestation Initiative Workshop, Hazard, KY, June 21. 44 attendees.
38. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2006. Robinson Forest Laurel Fork Tributary: Design Update. Presentation for the Kentucky Department of Fish and Wildlife Resources, Frankfort, KY, June 9. 2 attendees.
39. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2006. Head of Hollow Fill Hydrology. Presentation for the Kentucky Office of Surface Mining Permitting Division, April 25.
40. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research: Hydrology and Water Quality. Presentation for the Senator Mitch McConnell's Staff, Bent Mountain, December 14. 20 attendees.
41. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research: Hydrology and Water Quality. Presentation for the Kentucky 404 Task Force, Starfire Mine, September 30. 25 attendees.
42. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research: Hydrology and Water Quality. Presentation for the U.S. Army Corps of Engineers - Huntington District, Starfire Mine and Guy Cove, September 22. 4 attendees.
43. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research: Hydrology and Water Quality. Presentation for the Appalachian Regional Reforestation Initiative Members, Bent Mt. Mine, August 10. 25 attendees.
44. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research: Hydrology and Water Quality. Presentation for the Tennessee Office of Surface Mining Inspectors, Starfire Mine, August 3-4. 25 attendees.
45. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research: Hydrology and Water Quality. Presentation for the Federal Office of Surface Mining Inspectors, Bent Mt. Mine, July 12. 41 attendees.
46. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research. Presentation for the Appalachian Regional Director of the Office of Surface Mining, Bent Mt. Mine, June 13-15. 29 attendees.

47. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Carbon Sequestration on Surface Mined Lands: Mine Land Hydrology and Sedimentology. Presentation for John Lytinski, Terrestrial Sequestration Program Director, National Energy Technology Laboratory, Department of Energy, Starfire Mine and Bent Mt. Mine, June 29-30.
48. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined Land Reclamation Research. Presentation for Secretary of Environmental and Public Protection Cabinet LaJuana Wilcher, Commander and District Engineer for U.S. Army Corps of Engineers Colonel Robert Rowlette, Jr., and EPA Regional Administrator Region IV James Palmer Jr., Starfire Mine, March 22.
49. **Agouridis, C.T.**, C.D. Barton and R.C. Warner. 2005. Preliminary Scope of Work and Cost Estimate for Stream Creation and Rehabilitation. Presentation for the Kentucky Stream Mitigation Review Team, Frankfort, Kentucky, January 12. 10 attendees.
50. **Agouridis, C.T.**, C.D. Barton and R.C. Warner. 2004. Preliminary Scope of Work and Cost Estimate for Stream Creation and Rehabilitation. Presentation for the Commissioner Susan Bush and Commissioner Lloyd Cress, Frankfort, Kentucky, November 10. 8 attendees.
51. **Agouridis, C.T.**, C.D. Barton and R.C. Warner. 2004. Preliminary Scope of Work and Cost Estimate for Stream Creation and Rehabilitation. Presentation for the Kentucky Stream Mitigation Review Team, Frankfort, Kentucky, October 26. 12 attendees.
52. **Agouridis, C.T.**, R.C. Warner and C.B. Barton. 2004. Robinson Forest Stream Restoration Concepts. Presentation for Bill Sampson of Kentucky Fish and Wildlife, Robinson Forest, August 9.
53. **C.T. Agouridis** and R.C. Warner 2004. Potential for Stream Restoration on Head-of-Hollow Fills. Presentation for Danny Peake from Kentucky Division of Water, June 16.
54. R.C. Warner and **C.T. Agouridis**. 2004. Mined Land Hydrology and Water Quality. Presentation for Washington Congressional Staff, Starfire Mine, April 14-16. 45 attendees.
55. **C.T. Agouridis**, C.B. Barton and R.C. Warner. 2004. Robinson Forest Stream Restoration Project. Presentation for Kentucky Fish and Wildlife, U.S. Fish and Wildlife, Kentucky Division of Water, and U.S. Corps of Engineers, Robinson Forest, March 11. 15 attendees.
56. **Agouridis, C.T.**, B.K. Koostra, S.R. Workman, J.R. Bicudo, E. Vanzant, and D.R. Edwards. 2003. Cattle Production Practices in Grazed Watersheds of the Humid Region. Presented at the University of Kentucky Animal Research Center in Woodford County, Kentucky for the Woodford County Farm Bureau, November 18. 20 attendees.
57. **Agouridis, C.T.** 2003. Environmental Stewardship and Industry Issues. Presentation created by J.R. Bicudo. Presented at a Kentucky Master Cattleman Meeting in Nelson County, Kentucky, October 9. 30 attendees.
58. Warner, R.C. and **C.T. Agouridis**. 2003. Mine Land Reclamation: Hydrology and Water Quality. Report presented at Starfire Mine in Perry County, Kentucky to Office of Surface Mining, Tennessee Valley Authority, and Tennessee Wildlife Resources Agency, September 24. 20 attendees.

59. Warner, R.C. and **C.T. Agouridis**. 2003. Mine Land Hydrology and Water Quality. Report presented at Starfire Mine in Perry County, Kentucky to Office of Surface Mining, Kentucky Natural Resources and Environmental Protection Cabinet, Virginia Division of Mined Land Reclamation, Horizon Natural Resources, University of Tennessee, Kentucky Coal Association, National Coal Corporation, and Wagner Forest Management, August 28. 53 attendees.
60. **Agouridis, C.T.** and B.K. Koostra. 2003. GIS Analysis of GPS Position Data of Beef Cattle. Presentation for the 2003 Kentucky GIS Conference, Louisville, Kentucky, August 18-21.
61. Warner, R.C. and **C.T. Agouridis**. 2003. Carbon Sequestration on Surface Mine Lands: Mine Land Hydrology and Water Quality. Report presented at Starfire Mine in Perry County, Kentucky and at 17 West Mine in Martin County, Kentucky to John T. Litynski, Terrestrial Sequestration Program Director, National Energy Technology Laboratory, Department of Energy, August 4-5.
62. **Agouridis, C.T.** and R.C. Warner. 2003. Stream Classification: The First Step in Stream Restoration. Presentation for 2003 4-H Teen Conference at the University of Kentucky, Lexington, Kentucky, June 6. 22 attendees.
63. Warner, R.C. and **C.T. Agouridis**. 2003. Starfire Stormwater, Erosion and Sediment Control Experimental Practices Site Tour for the Office of Surface Mining. Report presented at Starfire Mine in Perry County, Kentucky, May 21. 35 attendees.

GRADUATE STUDENT MAJOR ADVISING: COMPLETED

1. Ruthie Brockman, M.S. BAE. 2010. Advisor. Thesis: Hydraulic Geometry Relationships and Regional Curves for the Inner and Outer Bluegrass Regions of Kentucky.
2. Oakes Routt, M.S. BAE (Option B). 2009. Advisor. Thesis: Determination of RUSLE Parameters for Mine Spoils on Steep, Low-Compacted Slopes with Grass Cover in the Cumberland Plateau of Eastern Kentucky.
3. Matthew Peake, M.S. BAE (Option B). 2009, Advisor. Thesis: Streambank Erosion Rates for Thompson Creek
4. Jason Maxwell, M.S. BAE (Option B). 2008, Advisor. Thesis: Hydrologic and Hydraulic Study for Town Run in Ashland County, Ohio
5. Timothy Taylor, M.S. BAE. 2007, Co-Advisor. Thesis: Examination of the Hydrologic Characteristics of the Forestry Reclamation Approach for Use in a Head-of-Hollow Fill Restoration

Advisory Committee Member

1. Lee Moser, M.S. Forestry. 2009. Committee Member, Advisor: Christopher Barton, Thesis: Hardwood Re-sprout Control in Hydrologically Restored Carolina Bay Depression Wetlands
2. Bakkiyalakshmi Palanisamy, Ph.D. BAE. 2010. Committee Member. Developmental Strategies for a Server Based Hydrologic Model Flood Forecasting System for Kentucky, Advisor: Stephen Workman

GRADUATE STUDENT MAJOR ADVISING: IN PROGRESS

1. Travis Maupin, M.S. BAE. 2012. Advisor. Hydrology and Conductivity Characterization of Guy Cove
2. Ross Guffey, M.S. BAE 2012. Advisor. Evaluating the Effectiveness of Weep Berm Systems for Treating Runoff from the Composting of Horse Muck
3. Jonathan Villines, M.S. BAE 2013. Advisor. Use of GIS to Delineate Stream Types in Eastern Kentucky.
4. David Griffith, M.S. BAE. 2013. Advisor. Performance of a Weep Berm-Grass Filter System in a Simulated Horse-Muck Composting System.
5. John McMaine, M.S. BAE. 2013. Advisor. Performance of Rain Gardens as a Stormwater BMP.

Advisory Committee Member

1. Catherine Hoy, M.S. Forestry. 2012. Committee Member. Advisor: Christopher Barton
2. Amanda Gumbert. 2012. Committee Member. Advisor: Mark Coyne
3. Hillary Otte, M.S. Forestry. 2012. Committee Member. Advisor: Christopher Barton
4. Christopher Reeves, M.S. Forestry. 2012. Committee Member. Effectiveness of Improved Skid Trail Ephemeral Channel Crossings, Advisor: Jeffrey Stringer

UNDERGRADUATE STUDENT ADVISING: COMPLETED

1. Seth White, NRC 365, Research Paper Advisor. Clean Water Act. 2009.

UNDERGRADUATE STUDENT ADVISING: IN PROGRESS

1. Máisa Miranda, Universidade Federal de Viçosa, Brazil, bioenvironmental exchange student. 2011.
2. Marlon Souza, Universidade Federal de Viçosa, Brazil, bioenvironmental exchange student. 2011.

TEACHING & TEACHING DEVELOPMENT

BAE 532/CE 542: Introduction to Stream Restoration (3 credit hours) – Developed Course

Semester	No. Students	Course Evaluation¹ (College Mean)	Teaching Evaluation¹ (College Mean)
Spring 2011	23	3.5 (3.4)	3.7 (3.5)
Spring 2010	24	3.6 (3.4)	3.8 (3.4)
Spring 2009	13	3.6 (3.3)	3.8 (3.4)
Spring 2008	26	3.4 (3.3)	3.5 (3.3)
Spring 2007	15	3.3 (3.3)	3.2 (3.4)
Spring 2006 ²	19	3.5 (3.3)	3.4 (3.4)
Spring 2005 ²	17	3.4 (3.3)	3.4 (3.4)
Spring 2004 ^{2,3}	5	3.5 (3.2)	3.5 (3.4)

¹Scale: 0 to 4.

²Course was listed as BAE 599: Introduction to Stream Restoration

³Co-instructor (taught 50% of course)

1. Advisor for BAE 402/403 Bioenvironmental Senior Design Team, Stormwater Management at the Kentucky Horse Park, Fall 2011 and Spring 2010, 4 students
2. Guest Lecturer for EGR 199 Topics in Engineering: Engineering Futures, Biosystems and Agricultural Engineering, Spring 2011, 150 students.
3. Guest Lecturer for BAE 400 Senior Seminar: Becoming a Professional Engineer, Spring 2011, 10 students.
4. Advisor for BAE 402/403 Bioenvironmental Senior Design Team, Geographical Information Receiver Apparatus For Field Evaluation (GIRAFFE), Fall 2010 and Spring 2011, 5 students
5. College of Agriculture 2011 Spring Teaching Seminar on Distance Learning, May 11
6. Instructor for Stream Restoration Assessment Outdoor Laboratory for Community Montessori School/Montessori Middle School of Kentucky, Spring 2011, 60 students
7. Guest Lecturer for BAE 437 Land and Water Resource Engineering, Topic: Channel Stabilization and Restoration, Spring 2010-2011.
8. Guest Lecturer for BAE 102 Introduction to Biosystems Engineering, Topic: Bioenvironmental Engineering, Regional Curves and Discharge Measurements, Spring 2010, 60 students
9. Instructor for Stream Restoration Assessment Outdoor Laboratory for Community Montessori School/Montessori Middle School of Kentucky, Spring 2009, 30 students
10. Guest Lecturer at Deming Middle School in Robertson County, Topic: Surface and Groundwater Hydrology as Related to Ponds, Spring 2009
11. Instructor for BAE 750: Stream Restoration Assessment, Fall 2008, 1 student
12. Instructor for Stream Restoration Section of NRC 320: Data Collection Techniques, Fall 2004 – 2008, 2010-2011

13. Instructor for Stream Restoration Assessment Outdoor Laboratory for Community Montessori School/Montessori Middle School of Kentucky, Spring 2008, 60 students
14. Instructor for BAE 750: Hydrologic Modeling, Fall 2007, 1 student
15. Instructor for Stream Restoration Assessment Outdoor Laboratory for Community Montessori School/Montessori Middle School of Kentucky, Spring 2007, 60 students
16. Guest lecturer for NRC 471 Senior Problems in Natural Resources, Stream Restoration, Spring 2006, 18 students
17. Co-instructor for short course AutoCAD Use for Stream Monitoring and Restoration, Spring 2005, short course, 7 students
18. Guest lecturer for AEN 536 Fluvial Hydraulics (est. 10 students) and AEN 343 Fluid Mechanics of Biosystems (est. 10 students), Fall 2004
19. Instructor for Agricultural Engineering 103: Basic Principles of Surveying, Fall 2001 (est. 18 students) and Fall 2002 (16 students)
20. Preparing Future Faculty: Graduate School 650, 2001
21. College Teaching: Graduate School 610, 2001

STREAM RESTORATION TRAINING

1. **Stream Restoration in the Southeast: Connecting Communities with Ecosystems.** 2010. Raleigh, NC, November 15-18, 2006.
2. **Innovations in Stream Restoration Structures for Habitat and Bank Stabilization.** Stream Restoration in the Southeast: Connecting Communities with Ecosystems. 2010. Raleigh, NC, November 15-18, 2006.
3. **River Restoration and Natural Channel Design (Level IV).** Wildland Hydrology, Breckenridge, CO and Steamboat Springs, CO, May 15-24, 2007.
4. **Current National Sedimentation Laboratory Research in Support of Stream Restoration.** Oxford, MS, October 24-26, 2006.
5. **Stream Restoration in the Southeast: Accomplishments and Opportunities.** 2006. Charlotte, NC, October 2-5, 2006.
6. **River Assessment and Monitoring (Level III).** Wildland Hydrology, Lubrecht Forest, MT, July 31-August 10, 2006.
7. **River Morphology and Applications (Level II).** Wildland Hydrology. National Conservation Training Center, Shepherdstown, WV, May 8-12, 2006.
8. **Stream Restoration Construction Training.** North Carolina State University Stream Restoration Institute, Brevard, NC, May 23-25, 2006.

9. **River Restoration from the Perspective of Ecohydrology and Ecohydraulics.** Workshop at ASAE Self-Sustaining Solutions for Streams, Wetlands, and Watersheds. September 12, 2004.
10. **Ecological Engineering and Ecological Restoration.** Workshop at ASAE Self-Sustaining Solutions for Streams, Wetlands, and Watersheds. September 12, 2004.
11. **Geomorphic and Numerical Analysis of Unstable Channels and Streambank Processes.** Workshop at ASAE Self-Sustaining Solutions for Streams, Wetlands, and Watersheds. September 15, 2004.
12. **Fluvial Geomorphology for Engineers (Level I).** Wildland Hydrology. Pagosa Springs, Colorado. June 1-10, 2004.
13. **AutoCAD Use for Stream Restoration and Monitoring.** North Carolina State University. Raleigh, North Carolina. May 7, 10 and 14, 2004.
14. **Stream Restoration: Using Natural Channel Design.** A Restoration Workshop Series. Sponsored by Clemson University Department of Forest Resources, Clemson University Cooperative Extension Service, South Carolina DHC 319 Grant Funds, and Buck Engineering. March 26-28, May 21-23, and October 24-25, 2002, October 2003 (TBA).
15. **Special Problems in Biosystems and Agricultural Engineering: Stream Restoration (BAE 750).** University of Kentucky, Spring Semester 2002. Project leader for 3200 ft stream restoration design of Camden Creek at the University of Kentucky's Animal Research Center located in Woodford County.
16. **Ph.D. Dissertation Research Project.** " Cattle Production Practices in a Small Grazed Watershed of Central Kentucky." University of Kentucky, Summer 2004.
Review of Stream Restoration Chapter. Chapter written by Steve Workman included in 5th edition of *Soil and Water Conservation Engineering*. April 2003.
17. **Senior Design Team Consultant.** Provided consultation to two senior design teams on their urban stream restoration projects. University of Kentucky, Spring Semester 2003.

CONTINUING PROFESSIONAL DEVELOPMENT

1. **Wetland Restoration Institute.** Sheltoewe Environmental Training Coalition (SEEC), Salt Lick, KY, September 25-30, 2011. (59 PDHs)
2. **Permeable Pavement: Design, Construction & Maintenance.** Forester University, Webinar, September 22, 2011. (1 PDH)
3. **Legal Issues for Kentucky Professional Engineers.** Halfmoon, LLC, Lexington, KY, November 21, 2008. (6.0 PDHs)
4. **SEDCAD 4 for Windows: Design of Stormwater, Erosion, and Sediment Control Systems.** University of Kentucky and Civil Software Design, Instructor: Dr. Richard C. Warner, Jasper, AL, December 15-18, 2008. (20.0 PDHs)

HONORS

- University of Kentucky engineering representative for the Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI)
- Association of Public Land-Grant Universities (APLU) C. Peter Magrath/W.K. Kellogg 2011 Engagement Award for Reclamation of Surface-Mined Lands.
- United States Department of Agriculture National Water Program 2010 Projects of Excellence: Stream Restoration in the Southeast: Connecting Communities with Ecosystems (**C. Agouridis** and A. Gumbert representing the University of Kentucky for the Cane Run Watershed Assessment and Restoration project)
- University of Kentucky Commonwealth Collaborative selected project, Cane Run Watershed Assessment and Restoration Initiative
- United States Department of Interior's 2007 Cooperative Conservation Award to ARRI Core and Academic Teams (member of the Academic Team)
- American Society of Mining and Reclamation 2nd place poster award (graduate student) at the 2006 7th ICARD Annual Meeting, Hydrologic and Water Quality Characteristics of Loose-Dumped Mine Spoil
- University of Kentucky Commonwealth Collaborative selected project, Reforestation of Surface Mined Lands
- Ph.D. student of the year for Gamma Sigma Delta and College of Agriculture, University of Kentucky, 2004
- Ph.D. student of the year for Biosystems and Agricultural Engineering Department, University of Kentucky, 2004
- American Society of Agricultural Engineers Blue Ribbon Award for Web Pages, 2003 Cattle Production Practices in Grazed Watersheds of the Humid Region.
- Alpha Epsilon Kentucky Omega Chapter President, University of Kentucky Branch, 2002-2003
- Alpha Epsilon Kentucky Omega Chapter President-Elect, University of Kentucky Branch, 2001-2002
- Tour Guide for IFAL (Institute of Future Agricultural Leaders) for University of Kentucky Biosystems and Agricultural Engineering Department, June 8, 2001
- Team Manager for 1998 ASAE ¼ Scale Tractor Design Team, 1998
- ASAE ¼ Scale Tractor Design Team Competition: 3rd place overall, 1st place safety (tie), 1st place presentation (tie), and 2nd place written report, 1998
- Chancellor's Citation for Professional Promise, 1998
- Gamma Sigma Delta, Agricultural Honor Society
- Golden Key National Honor Society
- Phi Eta Sigma Honor Society
- Funding received: Graduate Assistantship (University of Kentucky and University of Tennessee), Alumni, Tennessee Secondary Education Association, Tennessee Council of Cooperatives, Rehabilitation Cooperation, Tennessee Cooperatives, University of Tennessee Graduate Stipend, and University of Kentucky Graduate Stipend
- Professional Promise, Department of Agricultural and Biosystems Engineers, University of Tennessee, Knoxville, TN, 2000

ORGANIZATION AFFILIATIONS

- American Society of Water Resources
- American Society of Mining and Reclamation
- Appalachian Regional Reforestation Initiative
- American Society of Civil Engineers
- Alpha Epsilon Kentucky Omega Chapter
- American Society of Biological and Agricultural Engineers

SERVICE

Manuscript Review

- Ecological Engineering
- Natural and Environmental Sciences (Editorial Team)
- Environmental Management
- Transactions in GIS
- International Journal of Mining, Reclamation and Environment
- New Zealand Veterinary Journal
- Journal of Environmental Quality
- American Society of Mining and Reclamation
- Computers and Electronics in Agriculture
- Society of Mining, Metallurgy, and Exploration, Inc.
- Journal of Environmental Management
- Journal of the American Water Resources Association (JAWRA)
- Forest Science
- Applied Engineering in Agriculture
- Journal of Soil and Water Conservation
- Agricultural Water Management
- Water (Editorial Team)

Proposal Review

- International Science and Technology Center (ISTC) of the U.S. Civilian Research and Development Foundation (CRDF)
- Kentucky Agricultural Experiment Station (KAES) and USDA Cooperative State Research, Education, and Extension Service (CSREES)
- Precision Resource Management 2007 Grants
- Water Resources Research Institute (WRRI) of the University of North Carolina

Committees

- Chair of American Society of Agricultural and Biological Engineers (ASABE) committee SW-252 Geomorphology, Streambank Stability, and In-Stream Processes, 2011-2012
- Member of the Forestry Department Stream and Riparian Ecology Faculty Search Committee, 2011-2012
- Chair of Department of Biosystems and Agricultural Engineering Undergraduate and Curriculum Course Committee, 2011-2012
- Member of Department of Biosystems and Agricultural Engineering Research and Graduate Studies Committee, 2011-2012

- Member of Department of Biosystems and Agricultural Engineering Seminar Committee, 2011-2012
- Member of Department of Biosystems and Agricultural Engineering Student Recruitment and Outreach Committee, 2011-2012
- Steering Committee of the Environment and Natural Resources Initiative
- Wetlands Working Group (sponsored by Kentucky Department for Natural Resources, led by Deputy Commissioner Larry Arnett), 2008-present
- Member of the Biosystems and Agricultural Engineering Department Chair Search Committee, 2011-2012
- Member of the Biosystems and Agricultural Engineering Energy Efficiency Faculty Search Committee, 2010-2011
- Chair of Department of Biosystems and Agricultural Engineering Student Recruitment and Outreach Committee, 2010-2011
- Member of Department of Biosystems and Agricultural Engineering Undergraduate Curriculum and Course Committee, 2010-2011
- Member of Department of Biosystems and Agricultural Engineering Alumni and Development Committee, 2009-2010
- Chair of Department of Biosystems and Agricultural Engineering Alumni and Development Committee, 2007-2008
- Member of Conference Steering Committee for the 2009 Mid-Atlantic Stream Restoration Conference
- Partner for 2008 Stream Restoration in the Southeast: Accomplishments and Opportunities Conference
- Member of Natural Resource Initiative Planning Committee, College of Agriculture, University of Kentucky, 2007
- Member of Conference Steering Committee for the 2007 Mid-Atlantic Stream Restoration Conference, Cumberland, MD, November 6-8
- Scientific Advisory Board member for the Tracy Farmer Center for the Environment: 2006--2008
- Partner for 2006 Stream Restoration in the Southeast: Accomplishments and Opportunities Conference, Charlotte, NC, October 2-5
- College of Agriculture Strategic Plan Committee at the University of Kentucky, 2003-2004
- Alumni and Development Committee for University of Kentucky Biosystems and Agricultural Engineering Department, 2003-2004
- Graduate Student Representative for University of Kentucky Biosystems and Agricultural Engineering Department Chair Search Committee, 2001-2002
- Graduate Student Committee for University of Kentucky Biosystems and Agricultural Engineering Departmental Retreat: Co-Chair, 2001
- Graduate Student Selection Committee for University of Kentucky Biosystems and Agricultural Engineering Department, 2000-2001
- Computer Committee for University of Kentucky Biosystems and Agricultural Engineering Department, 2001-2003
- Research Committee for University of Kentucky Biosystems and Agricultural Engineering Department, 2001-2003
- Social Committee for University of Kentucky Biosystems and Agricultural Engineering Department, 2002-2003

- Distinguished Lecture Series on Natural Resource Conservation at University of Kentucky: Environmental Systems 600, 2001-2002

Other

- Volunteer for the 2011 Cane Run Watershed Festival at Castlewood Park, Lexington, KY, August 12
- Provided tour of Guy Cove Stream Restoration Project. 2011. Tour for Montana Tribal Colleges as part of a Natural Resources Exchange Program, June 7.
- Conducted site visit and stream assessment (data collection and report) for McCreary County Park (requested by McCreary County Extension Agent for Ag and Natural Resources)
- Editorial board member for the journal Water
- Developed tour posters for Appalachian Regional Reforestation Initiative Conference, Starfire Mined Land Reclamation Research Project, Prestonsburg, Kentucky, August 4-6, 2009.
- Demonstration of rainfall data collection and analysis for Montessori Middle School of Kentucky, September 19, 2007
- UK Dairy Site Visit for Stream Restoration Consultation for Steve Higgins, August 21, 2007
- Organized and hosted AutoCAD Use for Stream Monitoring and 3-D Stream Restoration, Lexington, KY, March 12-16, 2007
- Developed tour booklet for Appalachian Regional Reforestation Initiative Statement of Mutual Intent Signing Ceremony, Hazard, KY, November 3, 2006.
- Served as judge for the 2006 Kentucky 4-H State Communications Day, Electric Demonstration Projects, July 8.
- Coordinated and conducted Environmental Tour: Stream Restoration for 2006 Southeast Regional Rally, University of Kentucky, April 7.
- Interview for U.S. Department of the Interior ARRI Partnerships video, February 10.
- Sponsor for 2006 Workshop on the Eastern and Western Kentucky Headwater Stream Functional Assessment Protocol conducted by the US Army Corps of Engineers (Louisville District), January 27
- Advisor to Senior Design Capstone Project - Development of a Multi-port Isokinetic Sampler, 2005-2006
- Developed tour booklet for Animal Waste Management Research Unit USDA-ARS tour of the University of Kentucky Animal Research Center, October 18, 2004
- Nelson County Tour of Woodford County Animal Research Center: presented riparian research to approx. 55 attendees, September 10, 2004
- Kentucky Association of Conservation Districts Tour of Woodford County Animal Research Center: presented riparian research to approx. 50 July 18, 2004
- Crew leader for 6th annual Reforest the Bluegrass held at Veterans Park in Lexington, Kentucky April 17, 2004
- Developed tour booklet and participated in tour for Washington Congressional Staff of Mining Reclamation Research to approx. 45 April 14-16, 2004
- Oregon Seed Industry Tour of Woodford County Animal Research Center: presented riparian research to approx. 20 attendees, April 12, 2004
- Developed tour materials and participated in tour for stream restoration on head-of-hollow fills in Robinson Forest to approx. 15 attendees, March 11, 2004
- Meeting with Peabody Coal to discuss methods of carbon sequestration. Kentucky Office of

- Surface Mining, Frankfort, Kentucky, December 19, 2003
- Assisted in preparation of materials for Lexington Fayette Urban County Government working session regarding environmental issues associated with relocating a stockyard, June 19, 2003
 - Developed tour booklet and participated in tour of the University of Kentucky's Animal Research Center for Dr. Joseph Jen, Under Secretary for Research, Education, and Economics, United States Department of Agriculture and Dawn Riley, Director of Legislative and Intergovernmental Affairs Research, Education, and Economics, United States Department of Agriculture, May 21-22, 2003 - provided presentation on Ph.D. dissertation research project
 - Moderated Natural Science Session at the National Undergraduate Research Conference at the University of Kentucky, March 16, 2001
 - Developed tour booklet and participated in tour of the University of Kentucky's Animal Research Center for Dr. Wendy Baldwin, the University of Kentucky's Vice-President of Research, March 14, 2003 - provided presentation on Ph.D. dissertation research project
 - Developed tour booklet and participated in tour of the University of Kentucky's Animal Research Center for Dr. Colien Hefferan, Administrator of Cooperative State Research, Education, and Extension Service (CSREES), United States Department of Agriculture and Dawn Riley, Director of Legislative and Intergovernmental Affairs Research, Education, and Economics, United States Department of Agriculture, October 11, 2002 - provided presentation on Ph.D. dissertation research project
 - Developed tour booklet and participated in tour of the University of Kentucky's Animal Research Center for Dr. Nancy Cox, the College of Agriculture's Associate Dean for Research and Associate Director of the Agricultural Experiment Station, September 26, 2002
 - Provided presentation on Ph.D. dissertation research project
 - Co-developer of Fall 2002 issue of University of Kentucky Department of Biosystems and Agricultural Engineering BAE Link
 - Co-developer of Fundamentals of Engineering Exam Review Sessions at the University of Kentucky Department of Biosystems and Agricultural Engineering, 2002
 - Co-developer of Alpha Epsilon Kentucky Omega Chapter web site at University of Kentucky Department of Biosystems and Agricultural Engineering BAE Link, 2002
 - BAE 775 Seminar: Developed poster and demonstration project for undergraduate recruitment, 2001
 - Kentucky State Fair, University of Kentucky College of Agricultural, Biosystems and Agricultural Engineering Booth: Created booth poster, 2001)
 - Varsity Visit Speaker, University of Tennessee, Knoxville, TN, 1999
 - Judge, 4-H Petroleum Power Project, 1998