

**CURRICULUM VITAE**

**CARMEN TRUITT AGOURIDIS, Ph.D., P.E., M.P.P.**

**EXTENSION ASSOCIATE PROFESSOR  
UNIVERSITY OF KENTUCKY**

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## CURRICULUM VITAE

### **CARMEN TRUITT AGOURIDIS, PhD, PE, MPP, MBA**

University of Kentucky  
Center for Student Success  
N6 Agricultural Science Center  
Lexington KY 40546 USA  
Phone: +01 859.257.3469  
Fax: +01 859.257.5212  
Mobile: +01 859.533.4373  
Email: carmen.agouridis@uky.edu

### **CURRENT POSITION**

**Associate Dean for Instruction**, University of Kentucky, College of Agriculture, Food and Environment, Lexington, KY: August 2019 to present

**Extension Professor**, University of Kentucky, Biosystems and Agricultural Engineering Department, Lexington, KY: July 2020 to present.

### **RESEARCH, TEACHING & EXTENSION INTERESTS**

Stream restoration, stormwater management, riparian zone (streamside) management, mined land reclamation, hydrology of surface waters, water quality assessment, environmental impacts of animal agriculture, environmental policy, STEM and environmental education

### **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: 3.92/4.0

**Graduate Certificate:** Environmental Systems

**Master of Business Administration**, Gatton College of Business and Economics, University of Kentucky, 2017-2020

Emphasis: Professional MBA

Global Commerce and Strategy Certificate (2019)

Six Sigma Green Belt Certificate (2019)

GPA: 4.0/4.0

**Master of Public Policy**, Martin School of Public Policy and Administration,  
University of Kentucky, 2005-2012

Emphasis: Environmental Policy

Capstone: *Characteristics of Kentucky agricultural operations participating  
in NRCS conservation programs*, 103 p.

GPA: 3.94/4.0

**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**

- Six Sigma Green Belt Certificate (University of Kentucky Gatton College of Business and Economics and LeanCor Supply Chain Group)
- Global Commerce and Strategy Certificate (University of Kentucky Gatton College of Business and Economics and the World Trade Center of Kentucky)
- Professional Engineer, Commonwealth of Kentucky (License No. 25431, July 13, 2007)
- Professional Engineer (Inactive), State of West Virginia (License No. 018003, January 13, 2009)
- Engineer-In-Training, State of Tennessee (Certificate No. 17858, December 17, 1997)
- Kentucky Association for Environmental Education Facilitator (Project Learning Tree, Project WET, Project Wild, Project Underground, and Leopold Education Project) (December 10, 2016)
- Kentucky Certified Professional Environmental Educator (June 1, 2017)

### **PROFESSIONAL EXPERIENCE**

**Extension Associate Professor**, University of Kentucky, Biosystems and Agricultural Engineering Department, Lexington, KY: July 2016 to present, Supervisor: Dr. Michael Montross, P.E.; FY 2019 DOE: 14.9% research; 27.5% teaching; 52.6% extension; 5% administration

**Director**, Stream and Watershed Science Graduate Certificate, University of Kentucky, May 2012-2019

**Co-Director**, Environmental Engineering Undergraduate Certificate, University of Kentucky, September 2018-2019

**Associate Professor**, University of Kentucky, Biosystems and Agricultural Engineering Department, Lexington, KY: July 2014 to July 2016, Supervisor: Dr. Sue E. Nokes, P.E.

**Co-Director**, Greenhouse: Environment and Sustainability Residential College, University of Kentucky, August 2013-June 2016

**Assistant Professor**, University of Kentucky, Biosystems and Agricultural Engineering Department, Lexington, KY: January 2010 to June 2014, Supervisor: Dr. Sue E. Nokes, P.E.

**Assistant Research Professor**, University of Kentucky, Biosystems and Agricultural Engineering Department, Lexington, KY: March 2006 to December 2009, Supervisor: Dr. Scott A. Shearer, P.E.

**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

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

**Graduate Research Assistant**, University of Kentucky, Biosystems and Agricultural Engineering Department, Lexington, KY: August 2000 to March 2003, Supervisor: Dr. Dwayne R. Edwards, P.E.

**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, P.E.

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

**Graduate Research Assistant**, University of Tennessee, Agricultural and Biosystems Engineering Department, Knoxville, TN: June 1998 to August 2000, Supervisor: Dr. Ronald E. Yoder, P.E.

**Undergraduate Research Assistant**, University of Tennessee, Agricultural and Biosystems Engineering Department, Knoxville, TN: June 1997 to February 1998, Supervisor: Dr. Luther R. Wilhelm, P.E.

**Agricultural Assistant**, Truitt Farms, Knoxville, TN: June 1994 to August 2000, Supervisor: Richard L. Truitt

**Technical Support Representative (CO-OP)**, Lexmark International, Lexington, KY: December 1995 to June 1996 and August 1996 to October 1996

### **AWARDED GRANTS**

**\$9,423,764 total** (underline denotes supervised graduate student or technician; *italics* denotes supervised undergraduate student; jif is reported as 5-year average for year of publication, and if not available, single year of publication is used; % effort is in context of PIs, students, and support staff involved with the project)

### **Funding Summary**

Principal investigator	\$2,680,741
Co-Investigator	\$6,743,023
Nationally competitive	\$3,939,377
Regionally competitive	\$5,253,749
UK internally competitive	\$74,987
Industry	\$154,851
Non-competitive	\$800

1. **Agouridis, C.** and G. Munshaw. 2019. Demonstration and development of education materials related to non-chemical week management techniques. Lexington-Fayette Urban County Government Stormwater Quality Projects Incentive Grant: Class B Educational Project, **\$21,045**, January 2020 to June 2021, Principal Investigator.  
*\*As PI, I led the development of the grant application, IRB process, and acquisition of all equipment. I am co-leading the research and workshop development and delivery.*
2. Crocker, M., E. Santillan-Jimenez, **C. Agouridis**, S. DeBolt, and C. Barton. 2019. NRT-INFEWS: IN FELLOWS & an academy of innovators at the nexus of food, energy & water systems. National Science Foundation, **\$2,998,456**, Agouridis Co-Investigator.  
*\*As Co-PI, I helped develop the graduate certificate (Innovations at the Nexus of Food, Energy and Water), am co-teaching a certificate course, am assisting with a graduate symposium, and am mentoring graduate students.*
3. **Agouridis, C.T.**, E. Crocker, R. Hirsch, S. Odom, F. Williams, and R. Andrews. 2018. Expanding Your Horizons – a STEM conference for middle school girls. KY NSF EPSCoR, **\$9,871**, September 2018 to June 2019, Principal Investigator. (40% effort, regionally competitive)  
*\*As PI, I led the team, developed and managed the website and registration platform, managed the budget and all logistical components, assisted with marketing the conference, assisted in workshop development and student evaluation, and led the icebreaker activity. I co-advised the graduate students working on the project.*

4. Ormsbee, L., **C. Agouridis**, S. Evans, and A. Gumbert. 2018. Summer service-learning internships. Beam Suntory, Inc., **\$76,046**, May 2018 to August 2018, Co-Investigator. (20% effort, industry)  
*\*As Co-PI, I led the subproject focused on watershed assessment. I mentored two undergraduate students and assisted with data collection, data analysis, presentations, reports, and client interactions.*
5. **Agouridis, C.T.** and L. Cagle. 2018. Evaluating and addressing climate awareness and water in Kentucky. U.S. Geological Survey, State Water Institute Program, **\$4,820** (project scope out of \$277,055), March 2018 to June 2019, Principal Investigator. (35% effort, regionally competitive)  
*\*As PI, I led the team and assisted with the IRB process, subject matter expert interviews, survey development and deployment, and data analysis. I lead the development and implementation of county agent workshops. I co-advised the undergraduate students funded by the project.*
6. **Agouridis, C.T.**, M. Hayes, J. Dvorak, and G. Fox. 2018. ASABE Student Oral/Poster Presentation Competition. ASABE Initiative Fund, **\$41,250**, February 2018 to December 2022, Principal Investigator. (#% effort, nationally competitive)  
*\*As PI, I lead the team. I developed the competition guidelines (SOP) and help all ASABE technical communities administer the competition. I am working with ASABE to endow the competition.*
7. **Agouridis, C.T.** and S. Tedder. 2017. University of Kentucky stormwater quality improvement and stream restoration project. Lexington-Fayette Urban County Government Stormwater Quality Projects Incentive Grant: Class B Infrastructure Project, **\$299,400**, January 2018 to June 2020, Principal Investigator. (75% effort, regionally competitive)  
*\*As PI, I lead the team. I wrote the permits (federal, state, and local). I assist with the design, coordinate with internal and external stakeholders, and manage ongoing research, extension, and instructional efforts associated with the project.*
8. **Agouridis, C.T.**, E. Crocker, L. Thomas, M. Springer, W. Sanderson, A. Gumbert, C. Barton, C. Belton, P. Long, and D. Stamper. 2017. Kentucky Master Naturalist: Promoting environmental stewardship through student volunteer training. University of Kentucky, Sustainability Challenge Grant, **\$14,257**, January 2018 to December 2018, Principal Investigator. (40% effort, UK internally competitive)  
*\*As PI, I led the team in developing and administering the Kentucky Master Naturalist program. I serve as primary contact for the state for the program and am leading website, text, and video development for the program. I develop and deliver conference presentations on the program.*



9. **Agouridis, C.T.** and A.A. Gumbert. 2017. KYH2O Podcast Series. Kentucky Division of Water 2017 Watershed Mini-Grant, **\$4,825**, January 2017 to December 2017, Principal Investigator. August 2017 to June 2018. (40% effort, regionally competitive)  
*\*As PI, I led the team. I assisted with podcast topic development, expert interviews, in-studio work, and marketing. I developed and manage the podcast website.*
10. Barton, C.D. and **C.T. Agouridis**. 2017. Restoring headwater streams and riparian corridors at the Savannah River Site, SC: Part B-Restoration proposal and permit application. U.S. Forest Service, **\$16,848**, July 2017 to December 2018, Co-Investigator. (15% effort, nationally competitive)  
*\*As Co-PI, I assisted with permit requirements and design concepts.*
11. **Agouridis, C.T.**, A. Fryar, and R. McCulley. 2017. Fostering dialogue and collaboration on climate change. University of Kentucky, College of Arts & Sciences, Year of Civics and Citizenship in the 21<sup>st</sup> Century, **\$1,000**, September 2017 to June 2018, Principal-Investigator. (60% effort, UK internally competitive)  
*\*As PI, I led the team. I developed the program, managed logistics, and helped develop the project website.*
12. **Agouridis, C.T.**, E. Crocker, S. Odom, R. Hirsch, J. Van Cleve, and S. Kim. 2017. Expanding Your Horizons – a STEM conference for middle school girls. KY NSF EPSCoR, **\$5,600**, August 2017 to June 2018, Principal Investigator. (40% effort, regionally competitive)  
*\*As PI, I lead the team, developed and managed the website and registration platform, managed the budget and all logistical components, assisted with marketing the conference, assisted in workshop development and student evaluation, and led the icebreaker activity.*
13. **Agouridis, C.T.** and A.A. Gumbert. 2017. KYH2O Podcast. Charles E. Barnhart Fund for Excellence, **\$600**, July 2017 to June 2018, Principal Investigator. (40% effort, UK internally competitive)  
*\*As PI, I led the team. I assisted with podcast topic development, expert interview, in-studio work, and marketing. I developed and manage the podcast website.*
14. **Agouridis, C.T.** and S. Austen. 2017. Effects of stream restoration on pollutant load reductions in an urban watershed. U.S. Geological Survey, State Water Institute Program, **\$4,825** (project scope out of \$277,055), March 2017 to February 2018, Principal Investigator. (30% effort, regionally competitive)  
*\*As PI, I led the team, developed the monitoring plan, coordinated with internal and external stakeholders, and assisted with conference presentations. I advise the M.S. student funded by the project.*

15. **Agouridis, C.T.** 2017. Hydraulic flume demonstration of backwater effects, Part 2. Hopkinsville Surface and Stormwater Utility, **\$4,750**, February 2017 to June 2017, Principal Investigator. (70% effort, industry)  
*\*As PI, I led the project, developed and implemented the design plan, conducted the analysis, wrote the final report, and coordinated with stakeholders.*
16. Barton, C., T. Williamson, **C. Agouridis**, and K. Yeager. 2016. Evaluating the influence of the Forestry Reclamation Approach on water quality and hydrology on Appalachian coal mines. United States Department of Interior, Office of Surface Mining Reclamation and Enforcement, **\$319,832** (\$195,490 from sponsor), Co-Investigator. (25% effort, nationally competitive)  
*\*As Co-PI, I led the throughfall evaluation component of the project including study design, equipment installation, data analysis, and manuscript writing. I advised the M.S. student funded by the project.*
17. **Agouridis, C.T.** 2016. University of Kentucky butterfly garden maintenance. University of Kentucky Student Sustainability Council, **\$1,500**, May 2016 to May 2017, Principal Investigator. (75% effort, UK internally competitive)  
*\*As PI, I led the maintenance team, coordinated with stakeholders, managed logistics, and helped develop the project website.*
18. Edwards, D.R. and **C.T. Agouridis**. 2016. Influence of land use on soil bulk density, infiltration and NRCS runoff curve number for Fayette County, Kentucky. Kentucky Water Resources Research Institute (KWRRRI), **\$10,958** (project scope out of \$277,055), March 2016 to March 2017, Co-Investigator. (25% effort, regionally competitive)  
*\*As Co-PI, I coordinated with internal and external stakeholders, identified study sites, assisted with data analysis, and developed and delivered conference presentations. I advised the M.S. student funded by the project.*
19. **Agouridis, C.T.** 2016. Hydraulic flume demonstration of backwater effects. Hopkinsville Surface and Stormwater Utility, **\$4,055**, February 2016 to March 2016, Principal Investigator. (70% effort, industry)  
*\*As PI, I led the project, developed and implemented the design plan, conducted the analysis, wrote the final report, and coordinated with stakeholders.*
20. **Agouridis, C.T.** and A. Clark. 2016. Bankfull regional curves and hydraulic geometry curves for the eastern Kentucky coalfield. U.S. Geological Survey, State Water Institute Program, **\$4,178** (project scope out of \$277,055), March 2016 to February 2017, Principal Investigator. (30% effort, regionally competitive)  
*\*As PI, I led the team, selected the study sites, coordinated with external stakeholders, and assisted with data collection and analysis. I advised the M.S. student funded by this project.*

21. **Agouridis, C.T.** and M.C. Burnette. 2015. Relative control of sediment gas content and changes in sediment surface elevation on streambed hydraulic conductivity and hyporheic exchange volumes. U.S. Geological Survey, State Water Institute Program, **\$2,550** (project scope), March 2015 to February 2016, Principal-Investigator. (30% effort, regionally competitive)  
*\*As PI, I led the team, selected the study sites, and assisted with data collection and analysis. I advised the M.S. student funded by this project.*
22. **Agouridis, C.T.** 2014. University of Kentucky eLearning Innovation Initiative (eLII) Faculty Skill Development: Community 1 (Online Learning), Cohort 1.5, **\$4,000**, September 2014-August 2015, Principal Investigator. (100% effort, UK internally competitive)  
*\*As PI, I attended cohort workshops, redeveloped BAE 532/CE 542 Introduction to Stream Restoration, and redesigned BAE 535/MNG 564 Environmental Controls System Design and Reclamation.*
23. **Agouridis, C.**, J. Fox, and J. Currens. Surface water and sediment monitoring in the Cane Run Watershed. SB-271, **\$12,000**, July 2014 to June 2015, Principal Investigator. (25% effort, regionally competitive)  
*\*As PI, I led the team and the surface water data acquisition component of the project. I assisted with manuscript development.*
24. Warner, R.C. and **C.T. Agouridis**. Ensuring restoration success and management effectiveness for the imperiled Blackside Dace. U.S. Geological Survey, **\$75,900**, February 2014-October 2016, Co-Investigator. (40% effort, nationally competitive)  
*\*As Co-PI, I coordinated with internal and external stakeholders, lead the stream assessment portion of the project, and advised the undergraduate intern.*
25. **Agouridis, C.T.** and R.C. Warner. BAE 5XX/MNG 5XX Reclamation and Environmental Systems, University of Kentucky, College of Agriculture, Instructional Incentive Grant, **\$10,000**, January 2014 to June 2016, Principal Investigator. (50% effort, UK internally competitive)  
*\*As PI, assisted with the design of the course, led the development of the course material, completed university paperwork associated with creating a course, and led implementation of the course.*
26. **Agouridis, C.T.** 2013-2014 Research Activity Award. College of Agriculture, Food and Environment, University of Kentucky, **\$800**, August 2013-May 2014, Principal Investigator. (100% effort, non-competitive)  
*\*As PI, I created publishable refereed material related to BMPs.*

27. **Agouridis, C.T.** and **H. Enlow**. Effect of sward height on antibiotic transport in runoff. U.S. Geological Survey, State Water Institute Program, **\$4,860**, March 2013 to February 2014, Principal Investigator. (30% effort, regionally competitive)  
*\*As PI, I led the team, designed the study, and helped analyze data. I advised the M.S. student funded by this project.*
28. D'Angelo, E., D.H. McNear, J.C. Hower, J. Unrine, R. Warner, and **C.T. Agouridis**. Remediation of coal slurry impoundment liquids using a multi-stage constructed treatment wetland system. Kentucky Energy and Environment Cabinet, Department for Energy Development and Independence, **\$61,355**, February 2013 to April 2015, Co-Investigator. (5% effort, regionally competitive)  
*\*As Co-PI, I helped design the experiment and help coordination efforts.*
29. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2012. Stream restoration in Guy Cove II, Laurel Fork Fees in Lieu Of stream restoration project, Kentucky Department of Fish and Wildlife Resources, **\$4,949**, October 2012 to June 2014, Principal Investigator. (70% effort, regionally competitive)  
*\*As PI, I led the monitoring efforts and wrote the monitoring reports. I advised graduate and undergraduate students funded by the project.*
30. Warner, R.C., **C.T. Agouridis**, J. Unrine, and C.D. Barton. Appalachian Research Initiative for Environmental Science (ARIES), Virginia Tech Foundation, Inc., **\$780,883**, July 2011 to June 2016, Co-Investigator. (30% effort, regionally competitive)  
*\*As Co-PI, I led the portion of the project associated with stream restoration on mined lands and assisted with the portions associated with reforestation and low permeability barriers. I advised an M.S. student and an undergraduate student funded by the project.*
31. Fryar, A., C. Hanley, K. Tanaka, **C. Agouridis**, and M. Reed. BOOST H2O (Helping Hydrologic Outreach) in Indonesia and Turkey. U.S. Department of State, **\$197,299**, September 2012 to March 2014, Co-Investigator. (20% effort, nationally competitive)  
*\*As Co-PI, I developed and implemented the portion of the project associated with stream assessment and monitoring.*
32. Fox, J., **C.T. Agouridis**, and G. Brion. DIN waste management tool for estimating nitrogen removal by sediments. Kentucky Science and Technology Co Inc., **\$49,951**, July 2012 to June 2013, Co-Investigator. (15% effort, regionally competitive)  
*\*As Co-PI, I led the surface water data acquisition component of the project. I assisted with manuscript development.*
33. Hanley, C.D. and **C.T. Agouridis**. Engaging partners in a comprehensive urban watershed project. U.S. Environmental Protection Agency Urban Waters Small Grant, **\$59,934**, August 2012 to July 2015, Co-Investigator. (20% effort, nationally competitive)  
*\*As Co-PI, I created extension materials and engaged with external stakeholders.*

34. **Agouridis, C.T.** and **J. McMaine**. Hydrologic characterization of a tree- and shrub-vegetated rain garden. U.S. Geological Survey, State Water Institute Program, **\$4,985** (State Water Institute Program Scope 7), March 2012 to February 2013, Principal-Investigator. (30% effort, regionally competitive)  
*\*As PI, I led the team, designed the study, and helped analyze data. I advised the M.S. student funded by this project.*
35. **Agouridis, C.**, J. Fox, and J. Currens. Surface water and sediment monitoring in the Cane Run Watershed. SB-271, **\$135,000**, July 2011 to June 2014, Principal-Investigator. (25% effort, regionally competitive)  
*\*As PI, I led the team and the surface water data acquisition component of the project. I assisted with manuscript development.*
36. **Agouridis, C.T.** Online Version of BAE 532/CE 542 Introduction to Stream Restoration. University of Kentucky, College of Agriculture, Instructional Incentive Grant, **\$15,220**, March 2011 to June 2012, Principal-Investigator. (100% effort, UK internally competitive)  
*\*As PI, I attended cohort workshops and developed an online version of BAE 532/CE 542 Introduction to Stream Restoration.*
37. Hanley, 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. (20% effort, regionally competitive)  
*\*As Co-PI, I created extension materials and engaged with external stakeholders.*
38. **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** (project scope out of \$624,478), September 2010 to August 2013, Principal-Investigator. (30% effort, nationally competitive)  
*\*As PI, I led the team, study site identification, data collection, and data analysis efforts. I advised the M.S. student funded by the project.*
39. **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). (50% effort, regionally competitive)  
*\*As PI, I led the monitoring efforts and wrote the monitoring reports. I advised graduate and undergraduate students funded by the project.*

40. **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. (40% effort, regionally competitive)  
*\*As Co-PI, I led the team and coordinated with internal and external stakeholders. I led the design, permitting, construction, and monitoring of a stream restoration project. I led the BEHI/NBS assessment of streams in the watershed. I co-lead research into weep berms. I advised an M.S. student funded by the project. I assisted with manuscript development.*
41. 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. (10% effort, UK internally competitive)  
*\*As Co-PI, I assisted with the development of extension materials and a watershed-based plan.*
42. Barton, C.D. and **C.T. Agouridis**. Characterization of headwater seep wetlands in southeastern Kentucky. Precision Resource Management, USDS-CSREES Special Grants, **\$49,946** (project scope out of \$439,107), September 2009 to August 2012, Co-Investigator. (20% effort, regionally competitive)  
*\*As Co-PI, I led the survey and GIS analysis portion of the project. I designed the low-head earthen dams to help restore the seeps. I assisted with manuscript development.*
43. 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. (20% effort, regionally competitive)  
*\*As Co-PI, I specified the survey equipment and designed lessons on differential surveying for middle school students.*
44. Barton, C.D., J.M. Lhotka, R.C. Warner, **C.T. Agouridis**, D.H. Graves and S. Fei. R&D Seed Grant: 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. (10% effort, regionally competitive)  
*\*As Co-PI, I helped design and install an irrigation system for the project. I assisted with manuscript development.*
45. Higgins, S.F., and A.A. Gumbert, **C.T. Agouridis**, J. Stringer, and L. Ormsbee. 2007. 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. (15% effort, regionally competitive)  
*\*As Co-PI, I assisted with the development of extension materials and a watershed-based plan.*

46. Higgins, S.F., **C.T. Agouridis**, A.A. Gumbert, and J. Stringer. 2009. 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. (15% effort, regionally competitive)  
*\*As Co-PI, I assisted with the development of extension materials and a watershed-based plan.*
47. **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. (50% effort, regionally competitive)  
*\*As PI, I led the team including design, permitting, implementation, and monitoring efforts. I advised graduate and undergraduate students funded by the project. I assisted with manuscript development.*
48. 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, Agouridis Co-Investigator. (20% effort, regionally competitive)  
*\*As Co-PI, I specified the survey equipment and designed lessons on stream cross-sectional surveying for middle school students.*
49. **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, Agouridis Principal Investigator. (50% effort, regionally competitive)  
*\*As PI, I led the team including design, permitting, implementation, and monitoring efforts. I advised graduate and undergraduate students funded by the project. I assisted with manuscript development.*
50. 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** (project scope out of \$623,849), October 2006 to October 2009, Co-Investigator. (20% effort, regionally competitive)  
*\*As Co-PI, I developed the land survey methodology for the project. I advised staff on survey and GIS analysis techniques. I helped with data analysis and assisted with manuscript development.*
51. 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. (15% effort, UK internally competitive)  
*\*As Co-PI, I helped with the development of material for a reforestation DVD. I led the development of the project website.*

52. 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, Kentucky Public Protection and Regulation Cabinet. **\$44,278**, October 2005 to September 2007 (no-cost extension until June 2010), Co-Investigator. (20% effort, regionally competitive)  
*\*As Co-PI, I helped design the study and the restoration plans. I coordinated with internal and external stakeholders. I managed the project budget. I assisted with data analysis.*
53. **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). (50% effort, regionally competitive)  
*\*As PI, I led the team including design, permitting, implementation, and monitoring efforts. I advised an M.S. student and a Ph.D. student funded by the project.*
54. 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, **\$70,000**, May 2004 to December 2005, Hewlett Packard, Co-Investigator. (10% effort, industry)  
*\*As Co-PI, I designed lessons to integrate mobile technology (tablets) into stream restoration curricula.*
55. 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, **\$52,259** (project scope out of \$254,645), April 2004 to September 2007, EPA 319(h), Co-Investigator. (20% effort, regionally competitive)  
*\*As Co-PI, I helped design the study. I coordinated with internal and external stakeholders. I managed the project budget. I assisted with data analysis and development of workshop materials.*
56. **Agouridis, C.T.** Major Research Equipment Initiative, Lexington Campus Facility, University of Kentucky, **\$8,410**, December 2002 to June 30, 2003, Principal Investigator. (80% effort, UK internally competitive)  
*\*As PI, I specified the equipment for the wet chemistry laboratory and coordinated with internal stakeholders.*
57. **Agouridis, C.T.** and D.R. Edwards. Streambank erosion associated with grazing activities in Kentucky, **\$9,836**, Southern Region SARE, April 2002 to April 2005, Principal Investigator. (70% effort, regionally competitive)  
*\*As PI, I designed the study and collected and analyzed the data. I led manuscript development.*



58. 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. (50% effort, nationally competitive)

*\*I was the principal grant developer for this project. The grant was based largely on my Ph.D. research proposal. Dollar amounts are listed as Co-Investigator in totals. I led data collection, data analysis, and manuscript development*

59. 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. (60% effort, regionally competitive)

*\*As Co-PI, I helped design the study. I collected and analyzed data and wrote manuscripts.*

### **HATCH PROJECTS**

1. Member Multistate Research Project, S1063 Quantification of best management practice effectiveness for water quality protection at the watershed scale.
2. Past Chair (2014-2015), Southern Extension and Research Activity (SERA) for Water Resources, SERA 43.
3. **Agouridis, C.T.** and R.C. Warner. Development of stream assessment tools and riparian corridor techniques for enhancing water quality in karst watersheds in central Kentucky, **\$180,000**, January 2010 to September 2015, Agouridis Principal-Investigator.
4. Member Multistate Research Project, NC1190 Catalysts for water resources protection and restoration: Applied social science research.

### **GRANTS IN REVIEW**

None

### **NON-AWARDED GRANTS**

1. Pennell, K, S. Evans, **C. Agouridis**, and A. Gumbert. 2019. Water stewardship projects and research internships. Beam Suntory, Inc., **\$91,285**, May 2020 to February 2021, Co-Investigator.
2. Sena, K., M. Campbell, H. Norman-Burgdolf, C. Barton, and **C. Agouridis**. 2018. Hemlock Hustle: Facilitating human and environmental health education at Robinson Forest. University of Kentucky, Sustainability Challenge Grant, **\$47,801**, Co-Investigator.

3. Crocker, M., E. Santillan-Jimenez, M. Meier, S. DeBolt, I. Escobar, C. Barton, **C. Agouridis**, J. Landon, B. Lynn, and J. Dariotis. 2018. NRT-INFEWS: IN FELLOWS & an academy of innovators at the nexus of food, energy & water systems. National Science Foundation, **\$3,000,000**, Co-Investigator.
4. Malzone, J., S. Hendricks, D. White, C. Harnett, **C. Agouridis**, F. Badurdeen, S. Bryson, I.S. Jawahir, B. Ford, and J. Fox. 2017. Kentucky's advanced manufacturing: Infrastructure for embedded-sensor products to repair and sustain agricultural ecosystems. Kentucky NSF EPSCoR Track 1. **\$1,030,000**, Co-Investigator.
5. Barton, C.D., C.T. Agouridis, M. Campbell, H. Norman-Burgdolf, K. Sena, and E. Crocker. 2017. Hemlock Hustle: Facilitating human and environmental health education at Robinson Forest. University of Kentucky, Sustainability Challenge Grant, **\$14,257**, Co-Investigator.
6. Crowley, P., C.T. Agouridis, A. Fryar, S. Price, and C. Taylor. 2017. A sustainable urban stream system at the UK Ecological Research and Education Center. University of Kentucky, Sustainability Challenge Grant, **\$14,257**, Co-Investigator.
7. **Agouridis, C.T.** and L. Cagle. 2017. KY Climate Central. Kentucky University Partnership for Environmental Education (KUPEE), **\$2,963**, Principal Investigator.
8. Barton, C.D., **C.T. Agouridis**, R. McCulley, K. Sena, K. Asquith, and J. Newland. 2017. Appalachian Center for Ecological Restoration: Training a new generation of restoration practitioners and evaluators. USDA-NIFA Higher Education Challenge, **\$721,375**, Co-Investigator.
9. Barton, C.D., **C. Agouridis**, K. Jacobsen, J. Lhotka, T. Ochuodho, and A. Abbott. 2017. Integrated agroenergy production systems for economic and ecological transition on rural marginal land. NSF – Innovations at the Nexus of Food, Energy and Water Systems (INFEWS), **\$2,498,772**, Co-Investigator.
10. Barton, C.D. and **C.T. Agouridis**. 2017. Healthy food, healthy environment and new opportunities for coal mining impacted lands and communities in eastern Kentucky. Department of Interior, AML Pilot, **\$4,060,229**, Co-Investigator.
11. Milewski, A. (UGA), A. Fryar, **C. Agouridis**, and C. Hanley. 2017. Capacity building, outreach, and research for a better understanding of the water resources of Pakistan. U.S. Department of State and USAID, **\$97,978** (UK portion), Co-Investigator.
12. Crocker, M., **C. Agouridis**, C. Barton, S. DeBolt, I. Escobar, J. Landon, B. Lynn, M. Meier, and E. Santillan-Jimenez. 2017. NRT-INFEWS: IN FELLOWS & an academy of innovators at the nexus of food, energy & water systems. National Science Foundation, **\$3,000,000**, Co-Investigator.

13. Sama, M., S. Smith, M. Renfro, and **C. Agouridis**. 2016. Hands-On UAS skills training for Kentucky – A Kentucky work ready skills initiative pre-proposal. KWRSI, **\$5,000,000**, Co-Investigator.
14. Warner, R., **C. Agouridis**, D. Colliver, and M. Sama. 2016. Mining reclamation and expanded technological capabilities to advance economic development in Appalachia. Kentucky Economic Development Cabinet, **\$1,749,741**, Co-Investigator.
15. Ormsbee, L., G. Brion, C. Hanley, **C. Agouridis**, and B. Criswell. 2015. Pathogen assessment and management through a collaborative partnership, U.S. Environmental Protection Agency Urban Waters Small Grant, **\$63,964**, Co-Investigator.
16. Fox, J.F., **C.T. Agouridis**, and Y.T. Wang. 2016. FASE strengthening seed: developing schedules for the use of karst water in agriculture. USDA-NIFA Water for Agriculture Challenge Area, **\$150,000**, Co-Investigator.
17. Downey, J.P., **C. Agouridis**, J. Hubbart, and E. Meredith. 2016. RII Track-2 FEC: Developing a sustainable woody bioenergy system for the Appalachian coal basins, NSF EPSCoR, **\$5,999,579**, Co-Investigator.
18. Barton, C., **C. Agouridis**, and S. Price. 2015. Restoring shortleaf pine and headwater Wetland communities in the Cumberland Plateau. National Fish and Wildlife Foundation, \$74,267, Co-Investigator.
19. Fox, J.F., **C.T. Agouridis**, and Y.T. Wang. 2015. Developing schedules for the use of karst water in agriculture. USDA Water for Agriculture Challenge Area, **\$150,000**, Co-Investigator.
20. Fox, J.F., **C.T. Agouridis**, and Y.T. Wang. 2015. *TRANSFER* model to optimize nitrogen removal in agricultural streams. USDA-ARFI, **\$499,942**, Co-Investigator.
21. Barton, C., T. Williamson, and **C.T. Agouridis**. 2015. Water resources in a changing world: How changes in climate and land-use influence water quality and quantity in the Cumberland Plateau and Central Appalachian regions of the U.S., U.S. Geological Survey 104g, **\$247,475**, Co-Investigator.
22. Downey, J.P., J. Hooker, J.C. Hower, and P. Ziemkiewicz. 2015. RII Track-2 FEC: Clean Energy-Energy Material, Sustainability, and Environment Consortium, NSF EPSCoR, **\$5,999,579**, Task Leader.
23. Dvorak, T., **C. Agouridis**, R. Epps, C. Hanley, R. McNall Krall. 2015. Equity in environmental education (E3): Taking underrepresented youth to the water. U.S. Environmental Protection Agency, **\$80 447**, Co-Investigator.

24. Easton, Z.M., **C.T. Agouridis**, D. Osmond, M. McFarland, M.K. Jha, E. Brantley, M. Dukes, B. Benham, J. Mullen, and A. Lamm. 2014. A model for 21<sup>st</sup> century water: Ensuring security of an increasingly scarce and valuable resource in the Southern U.S. NIFA-USDA, **\$5,000,000**, Co-Investigator.
25. **Agouridis, C.T.**, C.D. Barton, A.A. Gumbert, and T. Sanderson. 2014. Unnamed tributary (UT) to Cane Run stream, riparian and wetland restoration project and outdoor classroom. National Fish and Wildlife Foundation, **\$19,964**, January 2015 to December 2015, Principal Investigator
26. Fox, J.F, **C.T. Agouridis**, and Y.T. Wang. 2014. *TRANSFER* model to optimize nitrogen removal in agricultural streams. USDA-NIFA, **\$499,833**, Co-Investigator.
27. Ernest, A., M. Elliott, L. Myers, A. Oubeidillah, G. Tootle, L. Ormsbee, R. Andrews, J. Fox, A. Hoover, G. Stainback, and **C. Agouridis**, Collaborative research: Alabama-Kentucky research infrastructure on drought management in the southeastern United States (ARID-SE), EPSCoR, **\$6,000,000**, 2014-2017, Collaborator.
28. **Agouridis, C.T.**, C.D. Barton, A.A. Gumbert, and T. Sanderson. 2014. Unnamed tributary (UT) to Cane Run stream, riparian and wetlands restoration project and outdoor classroom, EPA Five Star Restoration Challenge Grant, **\$23,821**, 2014-2015, Principal Investigator.
29. Fox, J. and C. Agouridis. 2013. GOALI: Environmental sustainability using TRANSFER. National Science Foundation, Grant Opportunities for Academic Liaison with Industry, **\$299,926**, 2013-2015, Co-Investigator.
30. 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, Co-Investigator.
31. **Agouridis, C.T.**, C.D. Barton, H. Jin, and R.C. Warner. 2010. 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.
32. Warner, R.C., C.D. Barton, **C.T. Agouridis**, and T. Coolong. 2010. 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.
33. Lhotka, J.M., C.D. Barton, **C.T. Agouridis**, and R.C. Warner. 2010. 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.

34. Sither, A., R.C. Warner, **C.T. Agouridis**, T. Biebighauser, and B. James. 2009. Kentucky Water Resources Institute, Kentucky River Authority Watershed Grant, **\$2,850**, December 2009 to December 2010, Co-Investigator.
35. **Agouridis, C.T.**, C.D. Barton, Mark S. Coyne, J. F. Fox, Amanda A. Gumbert, and Laura R. Lhotka. 2009. Techniques for improving stream corridor function in urban and urban-fringe environments, Cooperative State Research, Education, and Extension Service (CSREES) Integrated Programs - Funding Opportunity USDA-CSREES-ICGP-001264, **\$631,957**, 2009-2011, Principal Investigator.
36. Lhotka, J.M., C.D. Barton, R.C. Warner, **C.T. Agouridis** and S. Fei. 2008. Techniques for establishing productivity of woody feedstock plantations on reclaimed surface mined lands, Joint USDA/DOE (RD-RBP-BIOMASS-2007): Biomass Research and Development Initiative, **\$732,590**, 2008-2010, Co-Investigator.
37. Fox, J.F., C. Harnett, and S. Lingireddy. 2006. Environmental Center for Watershed Sedimentation Program, KY NSF EPSCoR Research Infrastructure Initiatives Program, **\$6,048,454**, 2006-2012, Collaborator.
38. Barton, C.D., J.M. Lhotka, R.C. Warner, **C.T. Agouridis**, D.H. Graves and S. Fei. 2006. Techniques for establishing woody biomass plantations on surface mines as feedstocks for energy production, Kentucky Governor's Office of Energy Policy: Energy R&D Program, **\$169,526**, 2006-2008, Co-Investigator (Awarded in 2007).
39. **Agouridis, C.T.**, J.R. Bicudo, E. S. Vanzant, A. Smith, and W.R. Burris. 2004. Developing future leaders: Training central Kentucky youth to be effective cattle producers and environmental stewards, Southern Region SARE and Southern Rural Development Center Sustainable Community Innovation Grant, **\$10,000**, 2004-2006, Principal-Investigator.
40. Workman, S.R., J. Bicudo, E.S. Vanzant, and D.R. Edwards. 2004. Cattle production practices in grazed watersheds of the humid region, USDA Integrated Research, Education, and Extension-Section 406, **\$537,421**, Principal grant developer - based on expansion of my Ph.D. research, Co-Investigator.
41. Warner, R.C., **C.T. Agouridis**, S.R. Workman, and J.R. Bicudo. 2004. Demonstration of a riparian corridor weep-berm control system for reducing nonpoint source pollution in northern Kentucky, **\$172,336**, 2004-2006, Co-Investigator.
42. **Agouridis, C.T.**, J. R. Bicudo, S. R. Workman, E.S. Vanzant, and R. Fleming. 2004. 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.

43. Warner, R.C., **C. T. Agouridis**, and C.D. Barton. 2004. Demonstration of a combination weep berm-grass filter control system for sinkhole protection, SB271, **\$48,304**, 2004-2007, Co-Investigator.
44. Crofcheck, C., **C.T. Agouridis**, R.C. Warner, J.R. Bicudo, S.R. Workman, and D.R. Edwards. 2003. Major Research Equipment Initiative, Lexington Campus Facility, **\$7,335**, Co-Investigator

#### **NATIONAL ACADEMIES OF SCIENCE, ENGINEERING, AND MEDICINE**

##### **Committee on Earth Resources (CER)**

I was invited to serve a three-year term (2018-2021). The CER “serves as the focal point within the Board on Earth Sciences and Resources for activities relevant to mineral and energy resources.”

The Committee on Earth Resources (CER) was established in 1991 and serves as the focal point within the Board on Earth Sciences and Resources for activities relevant to mineral and energy resources. The committee is responsible for organizing and overseeing studies on issues relevant to the supply, delivery, and associated impacts of hydrocarbon, metallic, and nonmetallic mineral resources, and mineral and nonmineral energy resource systems. The committee: 1) monitors the status of mineral and energy resource issues; 2) identifies study opportunities and responds to requests from federal agencies; and 3) provides a unique forum for discussion and exchange of information among scientists, engineers, and policy makers from government, universities, and industry.

#### **NATIONAL ACADEMIES OF SCIENCE, ENGINEERING, AND MEDICINE**

##### **Division on Earth and Life Studies, Board on Earth Sciences and Resources, Board on Environmental Studies and Toxicology, Board on Health Sciences Policy**

I was invited to serve on the ad hoc committee **Potential Human Health Effects of Surface Coal Mining Operations in Central Appalachia** as the mined land reclamation and restoration expert (2016-2018).

Summary of statement of task: Conduct a study to examine the potential relationship between increased health risk and living in proximity to sites that have been or are being mined or reclaimed for surface coal deposits. The study will focus on four states in Central Appalachia.

#### **NATIONAL ACADEMIES OF SCIENCE**

##### **Board on Earth Sciences and Resources, National Research Council of the National Academies of Science – Invited Presentation**

I was invited to present on work on creating streams on mined lands and alternative mining methods to reduce impacts on streams.

**Agouridis, C.T.** and R.C. Warner. 2010. Integrating Stream Restoration into Mined Land Reclamation: A Focus on Appalachia. Presented in Washington, D.C., October 19.

**SPECIAL TASKFORCE****USDA-NRCS 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 (2009-2011)
- 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. Franzluebbers (USDA-ARS), L. Owens (USDA-ARS)

**REFEREED PUBLICATIONS**

(underline denotes supervised graduate student or technician; *italics* denotes supervised undergraduate student) – boxed citations refer to samples

***Journal Articles***

1. Husic, A., J. Fox, E. Adams, E. Pollock, W. Ford, **C. Agouridis**, and J. Backus. 2020. Quantification of nitrate fate in a karst conduit using stable isotopes and numerical modeling. *Water Research* 170: 115348. doi.org/10.1016/j.watres.2019.115348 [jif 8.424 (5-year), ranking = 1/91 water resources]
2. Husic, A., J. Fox, E. Adams, W. Ford, **C. Agouridis**, J. Currens, and J. Backus. 2019. Nitrate pathways, processes, and timing in an agricultural karst system: Development and application of a numerical model. *Water Resources Research* 55(3): 2079-2103. doi.org/10.1029/2018WR023703 [jif 4.967 (5-year), ranking = 8/91 water resources]
3. Husic, A., J. Fox, E. Adams, J. Backus, E. Pollock, W. Ford, and **C. Agouridis**. 2019. Inland impacts of atmospheric river and tropical cyclone extremes on nitrate transport and stable isotope measurements. *Environmental Earth Sciences* 78 (1):36. doi.org/10.1007/s12665-018-8018-x [jif 2.032 (5-year), ranking = 51/91 water resources]
4. Sena, K. **C. Agouridis**, J. Miller, and C. Barton. 2018. Spoil type influences soil genesis and forest development on an Appalachian surface coal mine ten years after placement. *Forests* 9: 780. doi: 10.3390/f9120780 [jif 2.453 (5-year), ranking = 17/67 forestry]

5. Zipper, C.E., R.J. Krenz, S.E. Sweeten, **C.T. Agouridis**, C.D. Barton, and P.N. Angel. 2018. Establishing riparian woody vegetation for constructed streams on mined lands using the Forestry Reclamation Approach. *Journal of Environmental Solutions for Oil, Gas, and Mining* 4: 53-62. doi.org/10.3992/2377-3545-4.1.53 [NA]
6. Blackburn-Lynch, W., **C. Agouridis**, and C. Barton. 2017. Development of regional curves for hydrologic landscape regions (HLR) in the contiguous United States. *Journal of the American Water Resources Association* 53(4): 903-928. doi: 10.1111/1752-1688.12540 [jif 2.338 (5-year), ranking = 29/90 water resources]
7. Qualls, T., **C. Agouridis**, and M. Kulshrestha. 2017. Development of a methodology to determine antibiotic concentrations in water samples using high pressure liquid chromatography. *Journal of Young Investigators* 33(1): 19-27. doi: 10.22186/jyi.33.1.19-27 [NA]
8. Husic, A., J. Fox, **C. Agouridis**, J. Currens, W. Ford, and C. Taylor. 2017. Sediment carbon source, fate, and transport in a fluviokarst watershed (Part 1): Conceptual model development. *Journal of Hydrology* 549: 179-193. doi: 10.1016/j.jhydrol.2017.03.052 [jif 4.314 (5-year), ranking = 7/90 water resources]
9. Husic, A., J. Fox, **C. Agouridis**, J. Currens, W. Ford, and C. Taylor. 2017. Sediment carbon source, fate, and transport in a fluviokarst watershed (Part 2): Numerical model development and application. *Journal of Hydrology* 549: 208-219. doi: 10.1016/j.jhydrol.2017.03.059 [jif 4.314 (5-year), ranking = 7/90 water resources]
10. **Agouridis, C.T.**, K.R. Douglas-Mankin, A.C. Linhoss, and A.R. Mittelstet. 2016. Wetlands and coastal systems: Protecting and restoring valuable ecosystems. *Transactions of the ASABE* 59(5): 1301-1303. doi: 10.13031/trans.59.12103 [jif 1.264 (5-year), ranking = 7/14 agricultural engineering]
11. **Agouridis, C.** 2016. Book review: Environmental Hydrology. *Groundwater* 54(5): 626. doi: 10.1111/gwat.12446 [jif 2.254 (5-year), ranking = 22/88 water resources]
12. Williamson, T.J., **C.T. Agouridis**, C.D. Barton, J.A. Villines, and J.G. Lant. 2015. Classification of ephemeral, intermittent, and perennial reaches using a TOPMODEL based approach. *Journal of the American Water Resources Association* 51(60): 1739-1759. doi: 10.1111/1752-1688.12352 [jif 2.232 (5-year), ranking = 34/85 water resources]
13. Villines, J.A., **C.T. Agouridis**, R.C. Warner, and C.D. Barton. 2015. Using GIS to delineate headwater stream origins in the Appalachian coalfields of Kentucky. *Journal of the American Water Resources Association* 51(6): 1667-1687. doi: 10.1111/1752-1688.12350 [jif 2.232 (5-year), ranking = 34/85 water resources]



14. Sena, K., C. Barton, S. Hall, P. Angel, **C. Agouridis**, and R. Warner. 2015. Influence of spoil type on afforestation success and natural vegetative recolonization on a surface coal mine in eastern Kentucky, USA. *Restoration Ecology* 23(2): 131-138. doi: 10.1111/rec.12164 [jif 2.320 (5-year), ranking = 72/150 ecology]
15. Sena, K., C. Barton, P. Angel, **C. Agouridis**, and R. Warner. 2014. Influence of spoil type on chemistry and hydrology of interflow on a surface coal mine in the eastern US Coalfield. *Water, Air and Soil Pollution* 225 (11): 2171. doi: 10.1007/s11270-014-2171-y [jif 1.872 (5-year), ranking = 35/83 water resources]
16. Silva, D.P., F.F. Pruski, **C.T. Agouridis**, J.M.A. da Silva, W.D.M.M. Filho. 2014. Model for designing infiltration basins in tropical and sub-tropical climates with a focus on unpaved roads. *Journal of Hydrologic Engineering* 19(9). doi: 10.1061/(ASCE)HE.1943-5584.0001000 [jif 1.927 (5-year), ranking = 33/83 water resources]
17. Stamper, D.J., **C.T. Agouridis**, D.R. Edwards, and M. A. Purschwitz. 2014. Effect of soil sampling density and landscape characteristics on soil test phosphorus. *Applied Engineering in Agriculture* 30(5):773-781. doi: 10.13031/aea.30.10328 [jif 0.644 (5-year), ranking = 10/12 agricultural engineering]
18. *da Rosa, M.*, **C.T. Agouridis**, and R.C. Warner. 2013. Weathered spoil as a low permeable barrier. *Journal of the American Society of Mining and Reclamation* 2(1): 49-67. [NA]
19. Warner, R.C., **C.T. Agouridis**, and R.L. Guffey. 2013. Designing contour weep berms to reduce agricultural nonpoint source pollution. *Applied Engineering in Agriculture* 29(4): 521-528. doi: 10.13031/aea.29.10044 [jif 0.650 (5-year), ranking = 9/13 agricultural engineering]
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21. Maupin, T.P., **C.T. Agouridis**, D.R. Edwards, C.D. Barton, R.C. Warner, and M.P. Sama. 2013. Specific conductivity sensor performance: II. Field evaluation. *International Journal of Mining, Reclamation and Environment*: 27(5): 345-365. doi: 10.1080/17480930.2013.764702 [jif 0.531, ranking = 16/21 mining and mineral processing]
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27. 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. [NA]
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29. Taylor, T.J., **C.T. Agouridis**, R.C. Warner, and C.D. Barton. 2009. Hydrologic characteristics of loose dumped spoil in the Cumberland Plateau of eastern Kentucky. *Hydrological Processes* 23(23): 3372-3381. doi: 10.1002/hyp.7443 [jif 2.389 (5-year), ranking = 6/78 water resources]
30. 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. doi: 10.1080/17480930802176389 [jif 0.207, ranking = 17/23 mining and mineral processing]
31. **Agouridis, C.T.** 2007. Book review of Water Quality Engineering in Natural Systems. *Journal of the American Water Resources Association* 43(2): 559-560. [jif 1.559 (5-year), ranking = 13/59 water resources]

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34. **Agouridis, C.T.**, T.S. Stombaugh, S.R. Workman, B.K. Koostra, D.R. Edwards, and E.S. Vanzant. 2004. Suitability of a GPS collar for grazing studies. *Transactions of the ASAE* 47(4): 1321-1329. doi: 10.13031/2013.16566 [jif: 0.728, ranking = 6/9 agricultural engineering]
35. **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. Doi: 10.13031/2013.12975 [jif: 0.563, ranking = 6/10 agricultural engineering]

#### **Book Chapters**

1. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2018. Recreating a headwater stream system on a valley fill in the Appalachian coal field, USA. *In*, N.S. Bolan, M.B. Kirkham, and Y.S. Ok, eds., *Spoil to Soil: Mine Site Rehabilitation and Revegetation*, pp. 147-174. CRC Press: Boca Raton, FL. (Invited)
2. **Agouridis, C.T.** 2017. Reconnecting through stream restoration. Eds. Lee, B.D., A. Jones, D. Carey, and J. Burch. *In* *Water in Kentucky: Natural History, Communities, and Conservation*, pp. 163-169. University Press of Kentucky, Lexington, KY. (Invited)
3. **Agouridis, C.T.** and T.M. Sanderson. 2016. Understanding ecosystems and their services through Apollo 13 and bottle models. Ed. L.B. Byrne. *In* *Learner-Centered Teaching Activities for Environmental and Sustainability Studies*.
4. **Agouridis, C.T.** 2014. Bankfull frequency in rivers. Eds. Eslamian, S. p 35-51 *In* *Handbook of Engineering Hydrology, Vol. 2: Modeling, Climate Changes and Variability*. CRC Press Taylor and Francis Group, Boca Raton, FL. (Invited)
5. Sollenberger, L.E., **C.T. Agouridis**, E.S. Vanzant, A.J. Franzluebbbers, and L.B. Owens. 2012. Prescribed grazing in pastureland. p. 111-204. *In* C.J. Nelson (ed.) *Conservation Outcomes from Pastureland and Hayland Practices: Assessment, Recommendations, and Knowledge Gaps*. Allen Press, Lawrence, KS. (Invited)

6. Mastin, C.B., J.D. Edwards, C.B. Barton, A.D. Karathanasis, **C.T. Agouridis**, and R.C. Warner. 2012. Development and deployment of a bioreactor for the removal of sulfate and manganese from circumneutral coal mine drainage. pp. 121-140. *In: Bioreactors: Design, Properties and Applications*. Eds. Antolito, P.G. and Z. Liu. Nova Science Publishers: Hauppauge, NY (Invited)

### ***Edited Symposium Papers***

1. *da Rosa, M.*, **C.T. Agouridis**, and R.C. Warner. 2013. Weathered spoil as a low permeable barrier. *In: Proceedings of 2013 National Meeting of the American Society of Mining and Reclamation, Laramie, WY, Reclamation Across Industries*. June 1-6, 2013. R.I. Barnhisel (Ed.) Published by ASMR, 3134 Montavesta Rd., Lexington, KY 40502.
2. Maupin, T.P., **C.T. Agouridis**, C.D. Barton, and R.C. Warner. 2012. Laboratory evaluation of conductivity sensor accuracy and temporal consistency. P. 359. *In: Proceedings of 2012 National Meeting of the American Society of Mining and Reclamation, Tupelo, MS, Sustainable Reclamation*. June 8-15, 2012. R.I. Barnhisel (Ed.) Published by ASMR, 3134 Montavesta Rd., Lexington, KY 40502.
3. Mastin, C., C.D. Barton, **C.T. Agouridis**, and R.C. Warner. 2010. Use of stream restoration and passive treatment technologies for improving water quality in an eastern Kentucky valley fill. pp. 581 *In: Proceedings of 2010 National Meeting of the American Society of Mining and Reclamation, Billings, MT, Bridging Reclamation, Science and the Community*. June 5-11, 2010. R.I. Barnhisel (Ed.) Published by ASMR, 3134 Montavesta Rd., Lexington, KY 40502.
4. 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. pp. 28-65. *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.
5. 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. pp 29-42 *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 40502.
6. 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. *In: Proceedings of the 2006 7th ICARD Annual Meeting, St. Louis, MO, March 26-30*, R.I. Barnhisel (Ed.). R.I. Barnhisel (Ed.) Published by ASMR, 3134 Montavesta Rd., Lexington, KY 40502. 18p.

**Technical Notes**

1. Agouridis, C.T. 2015. Rotational vs. continuous stocking comparisons: Environmental and wildlife responses. Technical Note for the USDA-NRCS Conservation Assessment Project, CEAP Conservation Insight. (Invited)
2. 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.

**Extension Publications**

1. **Agouridis, C.T.** 2019. Taking the indoors out: Creating outdoor learning environments. University of Kentucky Cooperative Extension Service: In Press.
2. Zipper, C., P. Angel, M.B. Adams, T. Sanderson, K. Sena, C. Barton, and **C. Agouridis**. 2019. The Forestry Reclamation Approach: An essential tool for controlling invasive exotic plants on active mine sites. Forestry Reclamation Advisory No. 17. Ed. Adams, M.B. The Appalachian Regional Reforestation Initiative.
3. Sanderson, T., K. Sena, C. Barton, **C. Agouridis**, P. Angel, M.B. Adams, and C. Zipper. 2018. Managing invasive exotic plant species for successful reforestation on legacy mine lands. Forestry Reclamation Advisory No. 16. Ed. Adams, M.B. The Appalachian Regional Reforestation Initiative.
4. Zipper, C.E., R.J. Krenz, S.E. Sweeten, **C.T. Agouridis**, C.D. Barton, and P.N. Angel. 2018. Establishing riparian woody vegetation for constructed streams on mined lands using the Forestry Reclamation Approach. Forest Reclamation Advisory No. 15. Ed. Adams, M.B. The Appalachian Regional Reforestation Initiative.
5. Jackson, J., **C. Agouridis**, S. Higgins, and L. Moser. 2017. Tire tanks for watering livestock. University of Kentucky Cooperative Extension Service: AEN-133. **American Society of Biosystems and Agricultural Engineers 2018 Educational Aids Blue Ribbon Award, Publications-Short Category**
6. Gumbert, A., **C. Agouridis**, and C. Sass. 2017. Central Kentucky backyard stream guide. University of Kentucky Cooperative Extension Service: ID-242.
7. Chattopadhyay, S., **C. Agouridis**, and R. Warner. 2016. Modeling best management practices. University of Kentucky Cooperative Extension Service: AEN-132.
8. Blackburn-Lynch, Whitney, **C.T. Agouridis**, and T. Sanderson. 2016. Measuring discharge in wadeable streams. University of Kentucky Cooperative Extension Service: AEN-129.
9. Chattopadhyay, S., **C. Agouridis**, and J. Fox. 2016. Sediment fingerprinting. University of Kentucky Cooperative Extension Service: AEN-128. **American Society of Biosystems and Agricultural Engineers 2017 Educational Aids Blue Ribbon Award, Publications-Short Category**

10. *Mahoney, T., C.T. Agouridis, and R. Warner.* 2016. Hydrologic models. University of Kentucky Cooperative Extension Service: AEN-127.
11. **Agouridis, C.T., E.T. Wesley, T.M. Sanderson, and B.L. Newton.** 2015. Aquatic macroinvertebrates: biological indicators of stream health. University of Kentucky Cooperative Extension Service: ID-228.
12. Currens, B., **C.T. Agouridis**, and A. Fryar. 2014. Common hazards in karst terrain. University of Kentucky Cooperative Extension Service: AEN-126.
13. Burnette, M.C. and **C.T. Agouridis**. 2014. Streambank erosion. University of Kentucky Cooperative Extension Service: AEN-124.
14. **Agouridis, C.T.** and E. Wesley. 2014. Restoring streams. University of Kentucky Cooperative Extension Service: AEN-122.
15. Agouridis, C.T. and J. McMaine. 2014. Environmentally friendly lawn care. University of Kentucky Cooperative Extension Service: AEU-102.
16. Bandy, A. and **C.T. Agouridis**. 2013. Groundwater quality. University of Kentucky Cooperative Extension Service: AEN-120.
17. *Megill, R.E.* and **C.T. Agouridis**. 2013. Keeping trash out of streams. University of Kentucky Cooperative Extension Service: AEN-119.
18. **Agouridis, C.T.** and J.T. McMaine. 2013. Managing stormwater using low impact development (LID) techniques. University of Kentucky Cooperative Extension Service: AEN-118. **American Society of Biosystems and Agricultural Engineers 2014 Educational Aids Blue Ribbon Award, Publications-Short Category**
19. Osborne, A., S. Jenkins, and **C.T. Agouridis**. 2013. Planting along your stream, pond, or lake. University of Kentucky Cooperative Extension Service: HENV-202.
20. Osborne, A., S. Jenkins, and **C.T. Agouridis**. 2013. Stormwater. University of Kentucky Cooperative Extension Service: HENV-203.
21. **Agouridis, C.T., S.C. Lee, and K.K. Meier.** 2013. Stormwater wetlands. University of Kentucky Cooperative Extension Service: ID-215.
22. Warner, R.C., **C.T. Agouridis**, and R.L. Guffey. 2012. Using weep berms to improve water quality. University of Kentucky Cooperative Extension Service: AEN-114.
23. **Agouridis, C.T., J.A. Villines, and J.D. Luck.** 2011. Permeable pavement for stormwater management. University of Kentucky Cooperative Extension Service: AEN-108.

24. **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.
25. 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.
26. Higgins, S.F., **C.T. Agouridis**, and S.J. Wightman. 2011. Stream crossings for cattle. University of Kentucky Cooperative Extension Service: AEN-101.
27. Higgins, S.F., **C.T. Agouridis**, and S.J. Wightman. 2011. Shade options for grazing cattle. University of Kentucky Cooperative Extension Service: AEN-99.
28. **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.
29. **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: HENV-201.
30. 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.
31. 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.

**REFEREED PUBLICATIONS: IN REVIEW** (underline denotes supervised graduate student or technician; italics denotes supervised undergraduate student)

#### ***Journal Articles***

1. Husic, Admin, J. Fox, W. Ford, **C. Agouridis**, J. Currens, and J. Backus. Nitrate leaching and pathways in an agricultural karst system: Evidence from a multi-year dataset and model development. *Journal of Hydrology*
2. Al Aamery, N., E. Adams, J. Fox, A. Husic, M. Gerlitz, **C. Agouridis**, and J. Zhu. Pathway connectivity in an epigenetic fluviokarst system: insight from a numerical modeling study in Kentucky USA. *Journal of Hydrology*.
3. Gertlitz, M., **C. Agouridis**, T. Williamson, and C. Barton. Evaluating the influence of the Forestry Reclamation Approach on canopy interception and throughfall. *Ecohydrology*.

**Book Chapters**

1. Agouridis, C.T., C.D. Barton, J.G. Skousen, C. Teutsch, and C.E. Zipper. 2020. Management options for mining-affected landscapes. *In Ecology and Management of Appalachian Mined Landscapes*. Eds. C.E. Zipper and J.G. Skousen. Springer.

**VIDEOS**

1. Gluck Pond Restoration and Geese Abatement. **Agouridis, C.** Videographer: Curtis Franklin, University of Kentucky Agricultural Communications Service.  
<https://www.youtube.com/watch?v=wQSE0ezj3-k&feature=youtu.be>
2. Expanding Your Horizons – April 20, 2019. 2019. **Agouridis, C.** and E. Crocker. Videographer: Brian Volland, University of Kentucky Agricultural Communications Service.  
<https://www.youtube.com/watch?v=MGsh4ztlZxo>
3. Backyard Streams - Landsdowne Branch. 2018. **Agouridis, C.** and A. Gumbert. Videographer: Curtis Franklin, University of Kentucky Agricultural Communications Service.  
[https://www.youtube.com/watch?v=bEN23qjs1JM&list=PLMGXV6vlqh-sf2lniqUe4S2n7TFc9on\\_3&index=16&t=0s](https://www.youtube.com/watch?v=bEN23qjs1JM&list=PLMGXV6vlqh-sf2lniqUe4S2n7TFc9on_3&index=16&t=0s)
4. Backyard Streams – Gardenside Park. 2018. **Agouridis, C.** and A. Gumbert. Videographer: Curtis Franklin, University of Kentucky Agricultural Communications Service.  
[https://www.youtube.com/watch?v=dkUkJ3cKnCc&list=PLMGXV6vlqh-sf2lniqUe4S2n7TFc9on\\_3&index=14&t=20s](https://www.youtube.com/watch?v=dkUkJ3cKnCc&list=PLMGXV6vlqh-sf2lniqUe4S2n7TFc9on_3&index=14&t=20s)
5. Backyard Streams – Colony Neighborhood. 2018. **Agouridis, C.** and A. Gumbert. Videographer: Curtis Franklin, University of Kentucky Agricultural Communications Service.  
[https://www.youtube.com/watch?v=n2ZsiHnrH\\_Q&list=PLMGXV6vlqh-sf2lniqUe4S2n7TFc9on\\_3&index=15&t=8s](https://www.youtube.com/watch?v=n2ZsiHnrH_Q&list=PLMGXV6vlqh-sf2lniqUe4S2n7TFc9on_3&index=15&t=8s)
6. Restoring Vaughn’s Branch Creek – Update. 2018. **Agouridis, C.** Videographer: Curtis Franklin, University of Kentucky Agricultural Communications Service.  
<https://www.youtube.com/watch?v=L9q8DXP3jy8>
7. Restoring Vaughn’s Branch Creek at the University of Kentucky. 2016. **Agouridis, C.** Videographer: Brian Volland, University of Kentucky Agricultural Communications.  
<https://www.youtube.com/watch?v=0j6gHgXLT4Y>  
<https://www.youtube.com/watch?v=0j6gHgXLT4Y>
8. Stormwater Management with Greenhouse’s Carmen Agouridis. 2014. Producer: A&S HIVE.  
<http://greenhouse.as.uky.edu/video/greenhouse-stream-restoration>
9. Reclaiming the Future: Reforestation in Appalachia. 2007. Producer: D.H. Graves. Participant in Video.



10. Together We Can: The Importance of Partnerships. 2007. Producer: U.S. Department of Interior. Participant in Video.

### **WEB PAGES**

1. Kentucky Climate Consortium. 2019. Developers: Cagle, L., C. Agouridis, A. Breseman, and M. Sanchez. <https://www.research.uky.edu/climate-consortium>
2. KYH2O. 2019. Developers: **Agouridis, C.**, A. Gumbert, B. Volland, and K. Pekarchik. <https://www.uky.edu/bae/kyh2o>
3. Backyard Streams. 2018. Developers: **Agouridis, C.**, A. Gumbert, K. Pekarchik, and D. Stamper. <https://www.uky.edu/bae/backyardstreams>. **Recipient of 2019 Educational Aids Blue Ribbon Award, Electronic & Web-based Delivery category.**
4. Expanding Your Horizons. 2018. Developers: **Agouridis, C.** and K. Pekarchik. <https://www.uky.edu/bae/eyh> (updated for each annual conference)
5. IGNITE: Fostering Dialogue & Collaboration on Climate Change. 2017. Developers: **Agouridis, C.T.** and D. Stamper. <https://www.uky.edu/bae/ignite>
6. Reclamation of Surface Mine Lands. 2007. Developers: **Agouridis, C.T.**, T. Dowdy, and C.D. Barton. Available at: <http://www.bae.uky.edu/UKReclamation>

### **MAJOR EXTENSION PROJECTS**

#### ***Kentucky Climate Consortium***

The Kentucky Climate Consortium (KYCC) supports efforts to develop rich interdisciplinary research and teaching collaborations across the sciences, engineering, social sciences, humanities, and the arts. Consortium members have extensive experience researching and teaching climate-related issues, both in and beyond Kentucky. Members are also engaged in community-oriented climate work, through nonformal educational opportunities, public lectures, and more. I am a co-founder.

#### ***Backyard Streams***

This project helps homeowners understand and manage their backyard streams. An online course, comprised of 12 modules, is designed to help homeowners understand how to protect and manage their backyard streams. At the completion of the course, participants become Certified Backyard Stream Stewards. **Recipient of 2019 Educational Aids Blue Ribbon Award, Electronic & Web-based Delivery category.**

#### ***Kentucky Master Naturalist***

The Kentucky Master Naturalist (KYMN) program was developed by the University of Kentucky's and Kentucky State University's Cooperative Extension Service with valuable input from stakeholders at public and private organizations whose interests align with the mission of the KYMN program. The mission of the Kentucky Master Naturalist program is to develop a corps of

well-informed citizen volunteers to advance education, research, and outreach efforts dedicated to the conservation and management of natural resources and natural areas within their communities for the Commonwealth of Kentucky. To become a Certified Kentucky Master Naturalist, trainees must complete 1) a minimum of 40 hours of combined classroom and field instruction, 2) a minimum of 40 hours of approved volunteer service, and a capstone project and reflective report.

### ***Water Systems Working Group***

I serve as the lead of the Water Systems working group. Initiated in 2013, the group is composed of 18 faculty and staff, representing five Colleges or other administrative units within the University of Kentucky. The group contains a diversity of water-related expertise and research interests, and originally coalesced with the aim to better highlight water-related research and educational opportunities on campus and throughout the state. Initiatives include the development of Water Week- a week-long series of water related activities that occur on UK's campus in October and is primarily aimed at undergraduate students- and the creation of the rain garden (the CATchment) on campus to help demonstrate stormwater best management practices to students and community members. Currently the working group is collaborating with Environmental management to help UK meet its MS4 permit requirements and is actively seeking additional collaborative projects.

### ***University of Kentucky, MS4 Permit, MCMs 1&2***

In partnership with Environmental Health and Safety, I am leading the effort to develop and administer stormwater education and outreach programs at the University of Kentucky to help satisfy their MS4 permit requirements in the areas of MCM 1 Public Education and Outreach and MCM 2 Public Involvement.

### ***ASABE AIM Student Oral/Poster Competition***

The purpose of the competition is to increase student participation in the ASABE Annual International Meeting (AIM) and to improve the quality of student oral and/or poster presentations given at AIM. The competition starting in a sub-committee (NRES-25) when I served as Vice-Chair. I lead the expansion of the competition society wide including the development of a society-level committee to administer the competition and am currently working to start an endowment to fund the competition in perpetuity. **Recipient of \$41,250 in ASABE Initiative Funds.**

### **PODCAST**

1. KYH2O (listen at <https://www.uky.edu/bae/kyh2o>)

### **SOCIAL MEDIA**

1. Twitter feed: UK Bioenvironmental @BAE\_XStream\_Team
2. Facebook pages: UK Bioenvironmental, UK Water Week, UK Greenhouse
3. YouTube page: UK Watershed Protection and Restoration
4. Flickr page: UK Bioenvironmental
5. LinkedIn Profile: <https://www.linkedin.com/in/carmen-agouridis-a4b168a3/>
6. ResearchGate: [https://www.researchgate.net/profile/Carmen\\_Agouridis](https://www.researchgate.net/profile/Carmen_Agouridis)

7. Academia.edu: <https://uky.academia.edu/CarmenAgouridis>
8. Greenhouse Blog: <http://greenhouse.as.uky.edu/blog>
9. Designated as American Society of Agricultural and Biological Engineers (ASABE) Social Media Champion

### **SHORT COURSES AND WORKSHOPS**

1. **Agouridis, C.** 2019. Kentucky Master Naturalist Training Program, Lexington, Kentucky, July 18-November 14.
2. **Agouridis, C. 2019.** Environmental engineering: protecting air, water, soil, and people. KY 4-H Teen Conference, Lexington, KY, June 11-12.
3. **Agouridis, C.** 2019. The Marshmallow Challenge (for 200 people) for the Expanding Your Horizons Conference. University of Kentucky, Lexington, KY, April 20.
4. **Agouridis, C.** and P.W. Long. 2018. Kentucky Master Naturalist Training Program, Louisville, Kentucky, August 16-December 6.
5. **Agouridis, C.,** A. Gumbert, and M. McAlister. 2018. Project WET Educator Training, University of Kentucky, Lexington, KY, October 16.
6. Gumbert, A., S. Evans, **C. Agouridis,** A. Gilbert, and C. Crankshaw. 2018. Watersheds & BBQ at Jim Beam Distillery, Clermont, Kentucky, October 9.
7. Gumbert, A., S. Evans, **C. Agouridis,** A. Gilbert, and C. Crankshaw. 2018. Long Lick Creek – Community Stream Walk at Jim Beam Distillery, Clermont, Kentucky, August 9.
8. Gumbert, A. and **C. Agouridis.** 2018. Wolf Run Stream Restoration Site Tour, Lexington, KY, June 22.
9. **Agouridis, C.** and A. Gumbert. 2018. Backyard Stream Steward Certification Course (online). Access at <https://www.uky.edu/bae/backyardstreams>.
10. **Agouridis, C.** 2018. Taking the Indoors Out: Creating Outdoor Learning Environments. 2<sup>nd</sup> Annual Outdoor Learning Symposium, Cassidy Elementary, Lexington, KY, June 19.
11. Hoffman, A., B. Wray, M. Wilder, **C. Agouridis,** and F. Fehr. 2<sup>nd</sup> Annual Outdoor Learning Symposium, Cassidy Elementary, Lexington, KY, June 19.
12. Gumbert, A. and **C. Agouridis.** 2018. Southland Park Stream Buffer Field Practicum., Lexington, KY, May 12.
13. **Agouridis, C.** 2018. The Marshmallow Challenge (for 200 people) for the Expanding Your Horizons Conference. University of Kentucky, Lexington, KY, April 21.

14. **Agouridis, C.** 2018. On-farm Water Crossings. BAE Ag Engineering Showcase, Lexington, KY March 23.
15. Gumbert, A. and **C. Agouridis.** 2018. Wolf Run Watershed – Best Practices Exchange, Lexington, KY, March 16.
16. **Agouridis, C.** 2017. Taking the Indoors Out: Creating Outdoor Learning Environments. 4-H In-service Series, Lexington, KY, December 5-7.
17. Earle, T. and **C. Agouridis.** 2017. Citizen Science and 4-H SET. 4-H In-service Series, Lexington, KY, December 5-7.
18. **Agouridis, C.** 2017. Water Sleuths and the Case of “A Grave Mistake.” 13<sup>th</sup> Annual GEMS: Girls: Engineering, Mathematics & Science, Lexington, KY, Nov. 11
19. **Agouridis, C.** 2017. Project WET Educator Training. Raven Run Nature Sanctuary, Lexington, KY, October 7.
20. **Agouridis, C.** 2017. Project WILD and Project Aquatic WILD Educator Training. Raven Run Nature Sanctuary, Lexington, KY, September 21.
21. **Agouridis, C.** 2017. The Marshmallow Challenge (for 150 people) for the Expanding Your Horizons Conference. University of Kentucky, Lexington, KY, April 29.
22. **Agouridis, C.** 2017. UK’s Approach to Stormwater Management. In coordination with the Kentucky ASABE Section Meeting. University of Kentucky, Lexington, KY, April 28. 3 PDHs.
23. Gumbert, A.A. and **C.T. Agouridis.** 2016. Urban Stream Buffer Restoration and Maintenance Workshop: A Guide for Key Stewards. Presented at the University of Kentucky, March 19.
24. **Agouridis, C.T., T.M. Sanderson, A. Garner, and C. Stivers.** 2015. Rain Gardens: A Beautiful Solution to Stormwater Pollution. KY 4-H Teen Conference, Lexington, KY, June 8-11.
25. **Agouridis, C.T., E. Brantley, A. Gumbert, M. Gumbert, and G. Jennings.** 2015. Central Kentucky Watershed Academy. 2015. Presented at Copperhead Consulting, Paint Lick, KY, May 12-14.
26. **Agouridis, C.T., T. Biebighauser, and L. Bullock.** 2012. Using Stormwater Wetlands to Improve Water Quality and Habitat. Developed for the LFUCG Stormwater Quality Incentive Grant Program. Presented at the Green River Area Development District (GRADD), Owensboro, KY, May 10.

27. **Agouridis, C.T.** and R.C. Warner. 2012. Using Weep Berms in Mining, Construction and Agricultural Operations to Improve Water Quality. Developed for the LFUCG Stormwater Quality Incentive Grant Program. Presented at the University of Kentucky, Lexington, KY, May 3.
28. **Agouridis, C.T.**, S.F. Higgins, and A.A. Gumbert. 2012. Implementing Livestock Best Management Practices. Developed for the LFUCG Stormwater Quality Incentive Grant Program. Presented at the University of Kentucky Spindletop Farm, Lexington, KY, April 24.
29. **Agouridis, C.T.**, S.F. Higgins, and A.A. Gumbert. 2011. Implementing Livestock Best Management Practices. Developed for the LFUCG Stormwater Quality Incentive Grant Program. Presented at the University of Kentucky Spindletop Farm, Lexington, KY, October 25.
30. **Agouridis, C.T.**, S. L. Plueger and J.R. Turpin. 2011. Rain Gardens for Stormwater Management. Developed for LFUCG Stormwater Quality Incentive Grant Program. Presented at Coca Cola Refreshments USA, Inc., Lexington, KY, August 18.
31. **Agouridis, C.T.** and B.J. Belcher. 2010. Stream Restoration Principles and Practices. Presented at the University of Kentucky, Lexington, KY, October 26-28.
32. **Agouridis, C.T.**, A.A. Gumbert, and C.D. Barton. Multiple Dates. Riparian Buffer Restoration Workshop. 2010-2013. Developed for the Arboretum. Presented at the Arboretum, Lexington, KY, October 19 and 21, 2010; April 19, 2011; March 20 and August 14, 2012; March 20, 2013.
33. **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.

### **COMMUNITY PROJECTS**

1. Deep Springs Elementary School. 2018-2020. Designed an outdoor classroom. Working with the school to identify funding sources and help with installation.
2. 2<sup>nd</sup> Annual Outdoor Learning Symposium. 2018. Sponsored by the Kentucky Division of Water and the Kentucky Association for Environmental Education. I served as a symposium planner.
3. Expanding Your Horizons (EYH). 2016-2019. Lead for icebreaker (2016-2017 and 2017-2018). Conference lead (2017-2019). EYH is a hands-on STEM conference for middle school girls and their parents/guardians.

4. University of Kentucky Stormwater Quality. 2017-2022. Collaborating with Environmental Management to redesign the University of Kentucky's publication and outreach (MCM1) and public involvement and participation (MCM2) efforts for UK's MS4 permit.
5. Wolf Creek National Fish Hatchery Rain Garden. 2016-2017. Led the design and construction of a rain garden at the Wolf Creek National Fish Hatchery in Jamestown, KY.
6. University of Kentucky Pollinator Gardens. 2016-present. Led the design, installation, and maintenance (continuing) of six pollinator gardens totally 3,000 ft<sup>2</sup>.
7. Cassidy Elementary Science Garden. 2014-2016. Led the design and construction of a science garden at Cassidy Elementary School. The science garden includes a handicap-accessible raised bed garden; butterfly habitat; rain garden; sensory, herb and literature gardens; Kentucky native species area; walkway comprised of two types of permeable pavement and a section of animal tracks, infiltration station, and informational signage. Guided the Cassidy Elementary School Science Teacher in development of a successfully funded grant (\$2,250) from the Kentucky Association of Environmental Educators.

#### **OTHER PUBLICATIONS**

##### ***Technical Reports (Permit Related - Required)***

1. **Agouridis, C.T.** 2019. UT to Cane Run: University of Kentucky – EREC Field Station monitoring report. Monitoring Year 1: 2019.
2. **Agouridis, C.T.** and C.B. Barton. 2015. UT to UT to Cane Run: University of Kentucky – North Farm area stream restoration monitoring report. Monitoring Year 3: 2015.
3. **Agouridis, C.T.** and C.B. Barton. 2014. UT to UT to Cane Run: University of Kentucky – North Farm area stream restoration monitoring report. Monitoring Year 2: 2014.
4. **Agouridis, C.T.**, C.B. Barton, and R.C. Warner. 2014. UT to Laurel Fork: Guy Cove (Hollow Fill #9) stream restoration monitoring report. Monitoring Year 5: 2013.
5. **Agouridis, C.T.** and C.B. Barton. 2013. UT to UT to Cane Run: University of Kentucky – North Farm area stream restoration monitoring report. Monitoring Year 1: 2013.
6. **Agouridis, C.T.**, C.B. Barton, and R.C. Warner. 2012. UT to Laurel Fork: Guy Cove (Hollow Fill #9) Stream Restoration Monitoring Report. Monitoring Year 4: 2012.
7. **Agouridis, C.T.** and C.B. Barton. 2013. UT to UT to Cane Run: University of Kentucky – North Farm area stream restoration monitoring report. Monitoring Year 1: 2012. (USACE counted as Year 0 due to the timing of vegetation planting.)

8. **Agouridis, C.T.**, C.B. Barton, and R.C. Warner. 2011. UT to Laurel Fork: Guy Cove (Hollow Fill #9) stream restoration monitoring report. Monitoring Year 3: 2011.
9. **Agouridis, C.T.**, C.B. Barton, R.C. Warner, and C.B. Mastin. 2010. UT to Laurel Fork: Guy Cove (Hollow Fill #9) stream restoration monitoring report. Monitoring Year 2: 2010.
10. **Agouridis, C.T.**, C.B. Barton, R.C. Warner, and C.B. Mastin. 2009. UT to Laurel Fork: Guy Cove (Hollow Fill #9) stream restoration monitoring report. Monitoring Year 1: 2009.
11. **Agouridis, C.T.**, R.C. Warner and C.D. Barton. 2007. Robinson Forest, Guy Cove, Hollow Fill #9 Stream Restoration Bid Documents, 67 p.
12. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2007. Mitigation Plan for University of Kentucky Robinson Forest, Guy Cove (Hollow Fill #9): Restoration of Laurel Fork Tributary, 96 p.

***Technical Reports (Funding Agency Final Reports - Required)***

1. **Agouridis, C.** and A. Gumbert. 2019. KYH2O Podcast Series: Final report, Kentucky Division of Water, project number 17-09 KYH2O Podcast Series, grant number PPG BG-00D21417-0.
2. *Crankshaw, C.* and **C. Agouridis**. 2018. Long Lick Creek Watershed bank erosion and sediment assessment. Final report, Jim Beam Suntory, Kentucky Water Resources Research Institute.
3. **Agouridis, C.** and A. Clark. 2017. Bankfull regional curves and hydraulic geometry curves for the eastern Kentucky coalfields. Final report, Kentucky Water Resources Research Institute.
4. **Agouridis, C.** and K. Fehr. 2016. Cassidy Elementary School Science Garden: Final report, Kentucky Association of Environmental Education.
5. **Agouridis, C.**, K. Wright, and C. Barton. Long-term effects of forestry best management practices on hydrology and water chemistry in three Appalachian headwater catchments. Final report, Kentucky Water Resources Research Institute.
6. Brinks, J.S., J.M. Lhotka, C.D. Barton, R.C. Warner, and **C.T. Agouridis**. 2010. Demonstrating techniques for establishing woody biomass plantations on surface mine lands as feedstocks for energy production. Final report for Kentucky Governor's Office of Energy Policy, Award Number GOEP-Barton PO2 8850700011339.
7. Graves, D.H., C.D. Barton, R.J. Sweigard, R.C. Warner, **C.T. Agouridis**, and T. Cushing. 2008. Post-mining reforestation demonstration project. Final report for USDA-Forest Service, Award Number: 05-DG-11083150.

8. **Agouridis, C.T.**, A.W. Fogle, S.R. Workman, and S.F. Higgins. 2007. Quality Assurance Project Plan. Final report for the Cane Run and Royal Springs restoration project. 144 p.
9. Graves, D.H., C.D. Barton, R.J. Sweigard, R.C. Warner, and **C.T. Agouridis**. 2007. Carbon Sequestration on Surface Mine Lands: October 2003-September 2006. Final report for Department of Energy, Award Number: DE-FC26-02NT41624.
10. **Agouridis, C.T.** and D.R. Edwards. 2005. Stream bank erosion associated with grazing activities in Kentucky. SARE 2004-2005 Final Report, April 12.
11. 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. Final Report for USDA Proposal Number 2001-04909.

#### ***Technical Reports (Extension)***

1. **Agouridis, C.T.** 2018. Deep Springs Elementary raised bed garden design. Report for Science Teacher Tracy Warren, September 18.
2. **Agouridis, C.T.** 2018. Culvert and vegetated channel evaluation. Report for Garrard County Judge Executive John Wilson, August 28.
3. **Agouridis, C.** 2018. Redwood Cooperative School rain garden design. Multiple consultations, sketches, and cost estimate for Sarah Cummins (Director) and Dr. Amanda Gumbert, May 28.
4. **Agouridis, C.T.** 2017. Dick Huber lake and principal spillway recommendations. Report for the University of Kentucky Mason County ANR Agent, June 2.
5. **Agouridis, C.T.** and R.C. Warner. 2016. Mathis farm pond. Report for the University of Kentucky Muhlenberg County ANR Agent, December 29.
6. Warner, R.C. and **C.T. Agouridis**. 2015. Feasibility assessment of a rain garden best management practice for control of stormwater runoff, Taylor County, Kentucky. Report for the University of Kentucky, Taylor County Cooperative Extension Office, November 21.
7. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2006. Mined land reclamation research: Hydrology and water quality. Report 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.
8. 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.



9. Warner, R.C., **C.T. Agouridis**, A.W. Fogle, Tracy R. Goff, and Michael J. Parker. 2005. Development of design input parameters specific to mining operations and reclamation techniques. Report for the Senator Mitch McConnell's Staff, Bent Mountain, December 14.
10. 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.
11. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined land reclamation research: Hydrology and water quality. Report for the U.S. Army Corps of Engineers - Huntington District, September 22.
12. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined land reclamation research: Hydrology and water quality. Report for the Appalachian Regional Reforestation Initiative Members, August 10.
13. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined land reclamation research: Hydrology and water quality. Report for the Tennessee Office of Surface Mining Inspectors, August 3-4.
14. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined land reclamation research: Hydrology and water quality. Report for the Federal Office of Surface Mining Inspectors, July 12.
15. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Mined land reclamation research: Hydrology and Water Quality. Report for the Kentucky Science Teachers Association, July 7.
16. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2005. Carbon sequestration on surface mined lands: Mine land hydrology and sedimentology. Report for the John Lytinski, Terrestrial Sequestration Program Director, National Energy Technology Laboratory, Department of Energy, June 29-30.
17. **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.
18. **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 Kentucky Stream Mitigation Review Team, Frankfort, Kentucky, October 26.

***Newsletter Articles, Popular Press Articles, and White Pages***

1. Agouridis, C.T. 2019. Moments, mentors, and ASABE opportunities. *Resource*, March/April, p. 11.

2. **Agouridis, C.T.** 2019. KYH2O podcast launches. BAE Extension Newsletter, Issue 6, Spring edition.
3. **Agouridis, C.T.** 2018. Become a certified backyard stream steward. BAE Extension Newsletter, Issue 5, Winter edition.
4. **Agouridis, C.T.** 2018. Celebrate UK's Water Week by getting your feet wet with Project WET. BAE Extension Newsletter, Issue 4, Fall edition.
5. **Agouridis, C.T.** 2018. Coming soon: New programming. BAE Extension Newsletter, Issue 3, Summer edition.
6. Zipper, C.E., R.J. Krenz, S.E. Sweeten, **C.T. Agouridis**, C.D. Barton, and P.N. Angel. 2018. Establishing riparian woody vegetation for constructed streams on mined lands using the Forestry Reclamation Approach. *Reclamation Matters*, Spring, p. 23-27.
7. **Agouridis, C.T.** 2018. Off-farm water crossings. BAE Extension Newsletter, Issue 2, Spring edition.
8. **Agouridis, C.T.** 2017. Taking the indoors out: Creating outdoor learning environments. BAE Extension Newsletter, Issue 1, Winter edition.
9. **Agouridis, C.T.** 2017. Welcome from *BAE Connections* editorial committee; Alpha Epsilon book drive, Vol 8, Spring edition.
10. **Agouridis, C.** 2017. Building a career with passion, calculated risks and hard work. *Water Resources IMPACT* 19(1): 8-9.
11. **Agouridis, C.T.** 2016. Welcome from *BAE Connections* editorial committee; Making the move to Extension, AWWA/WEA University of Kentucky Student Chapter, Vol 7, Fall edition.
12. **Agouridis, C.T.** 2016. Welcome from *BAE Connections* editorial committee; Cassidy Elementary Science Garden, Vol 6, Spring edition.
13. **Agouridis, C.T.** 2015. Stream restoration outreach. Two-page informative document for Drs. Jimmy Henning and Gary Palmer, BAE Extension Meeting, November 24.
14. **Agouridis, C.T.** 2015. Stormwater management. Two-page informative document for Drs. Jimmy Henning and Gary Palmer, BAE Extension Meeting, November 24.
15. **Agouridis, C.T.** 2015. STEM and environmental education (K-12). Two-page informative document for Drs. Jimmy Henning and Gary Palmer, BAE Extension Meeting, November 24.

16. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2015. Guy Cove stream restoration (creation) project. Two-page informative document for Department of Interior Deputy Secretary Kentucky Mine Sites Tour, Hazard, KY, May 28-29.
17. **Agouridis, C.T.** 2015. Welcome from *BAE Connections* editorial committee; Butterfly gardens, Vol 5, Fall edition.
18. **Agouridis, C.T.** 2015. Welcome from *BAE Connections* editorial committee; Protecting our surface waters, Vol. 4, Spring edition.
19. **Agouridis, C.T.** 2014. Welcome from *BAE Connections* editorial committee, Vol. 3, Fall edition.
20. **Agouridis, C.T.** 2014. Welcome from *BAE Connections* editorial committee; Connecting water and the arts, Vol. 2, Spring edition.
21. **Agouridis, C.T.** 2013. Welcome from *BAE Connections* editorial committee; Turning horse muck into biochar. *BAE Connections*, Vol. 1, Fall edition.
22. **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.
23. **Agouridis, C.T.** and O.H. Hoffmann. 2010. Building a rain barrel. PowerPoint presentation to accompany UK Cooperative Extension Service publication HENV2-1.
24. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2009. Restoring a watershed. *Sustainability Newsletter* 1(1): 5. University of Kentucky.
25. **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.
26. **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.
27. **Agouridis, C.T.**, R.C. Warner and C.D. Barton. 2008. Design of a headwater stream system for a head-of-hollow fill. One-page informative document for UK Board of Trustees.
28. Graves, D.H., C.D. Barton, **C.T. Agouridis**, R.J. Sweigard, and R.C. Warner. 2008. Reforestation of coal-mined lands. Two-page informative document.

29. **Agouridis, C.T.** and R.C. Warner. 2006. Reforestation project designated a Commonwealth Collaborative. BAE Link.
30. **Agouridis, C.T.** and D.R. Edwards. 2005. BAE study evaluates impacts of cattle grazing on streambank erosion. SARE Newsletter, Spring, 2005.  
<http://www.bae.uky.edu/wq406/publications/Newsletter%20-%20Spring%202005.doc>.
31. **Agouridis, C.T.** and R.C. Warner. 2004. Robinson Forest stream restoration project. BAE Link, Fall Issue.
32. Bicudo, J.R., **C.T. Agouridis**, B. Koostra, and S. Workman. 2003. Cattle production practices in grazed watersheds. Environmental & Natural Resource Issues, ENRI Task Force Newsletter, Fall Issue.
33. **Agouridis, C.T.** and R.C. Warner. 2003. Creating sustainable high-value forests. BAE Link, Fall Issue.
34. **Agouridis, C.T.** and D.R. Edwards. BAE study evaluates impacts of cattle grazing on stream bank erosion. SARE Newsletter, Spring 2003.
35. **Agouridis, C.T.** 2002. USDA-CSREES grant funds research on the environmental impacts of cattle production practices. BAE Link, Fall Issue.
36. **Agouridis, C.T.** 2002. Alpha Epsilon news. BAE Link, Fall Issue.
37. Danao, G. and **C.T. Agouridis**. 2002. New faces at UK. BAE Link, Fall Issue.
38. Walton, L. and **C.T. Agouridis**. 2002. News from the Colleges of Agriculture and Engineering. BAE Link, Fall Issue.

### **PRESENTATIONS**

(underline denotes supervised graduate student or technician; italics denotes supervised undergraduate student)

### ***Conferences***

1. Turkington, A., L. Cagle, and **C. Agouridis**. 2020. Kentucky Climate Consortium: transforming tomorrow by connecting Kentuckians to address climate concern. Kentucky Water Resources Annual Symposium, Lexington, KY. *Abstract accepted but conference was postponed due to COVID-19.*
2. **Agouridis, C.** 2020. Closing plenary session: future vision for science. National Stream Restoration Conference, Nashville, TN, August 3-5.

3. Sahoo, D., I. Chaubey, **C. Agouridis**, S. Mukhtar, and S. Hunt. 2020. Career paths for an NRES member in research, teaching, extension, agencies, and industries. 2020 ASABE Annual International Meeting, Omaha, NE, July 12-15.
4. **Agouridis, C.**, J. Brantley, O. Wendroth, and B. Ford. 2020. Recreating a hyporheic zone in an urban stream. 2020 ASABE Annual International Meeting, Omaha, NE, July 12-15.
5. Crankshaw, C., **C. Agouridis**, B. Ford, and C. Barton. 2020. Evaluating the biotic condition of restored streams in Kentucky's Inner Bluegrass region. 2020 ASABE Annual International Meeting, Omaha, NE, July 12-15.
6. **Agouridis, C.** 2020. Taking the indoors out: involving students in the creation of outdoor learning on a university campus. 2020 ASABE Annual International Meeting, Omaha, NE, July 12-15.
7. Bidelspach, D., G. Jennings, **C. Agouridis**, L. Forbes, and M. Geenen. 2020. Watershed response factor as a tool for assessing stream channel geomorphic conditions. World Environmental and Water Resources Congress Watershed Management Conference, Henderson, NV, May 20-21. *Abstract accepted but conference was cancelled due to COVID-19.*
8. **Agouridis, C.** and E. Crocker. 2019. Kentucky Master Naturalist Program. North American Association for Environmental Education, Lexington, KY, October 16-19.
9. **Agouridis, C.** and A. Gumbert. 2019. A River of Words on My Backyard Stream. North American Association for Environmental Education, Lexington, KY, October 16-19.
10. **Agouridis, C.**, S. Austen, B. Ford, and C. Barton. 2019. Using stream restoration to improve hydrology and water quality in an urban watershed. 2019 ASABE Annual International Meeting, Boston, Massachusetts, July 7-10.
11. Husic, A., J. Fox., N. Al-Aamery, W. Ford, **C. Agouridis**, and J. Backus. 2019. Sediment and nitrogen stable isotopes and numerical modeling show hot moments, hot spots, and environmental drivers in the surficial fine-grained laminae of karst beds. World Environmental and Water Resources Congress (EWRI-ASCE), Pittsburg, PA, May 19-23.
12. **Agouridis, C.** and B. Ragland. 2019. Stormwater and solar energy at the University of Kentucky. Midwest QUAD, Lexington, KY, April 11.
13. Cagle, L. and **C. Agouridis**. 2019. Evaluating and addressing climate awareness and water in Kentucky. Kentucky Water Resources Annual Symposium, Lexington, KY, March 25.

14. Gerlitz, M., E. Adams, L. Bettel, A. Husic, J. Fox, W. Ford, J. Backus, E. Pollock, J. Zhu, C. Taylor, **C. Agouridis**, and S. Workman. 2019. Measuring and modeling morphologic processes in karst to sustain water resources in the future. Kentucky Water Resources Annual Symposium, Lexington, KY, March 25.
15. **C. Agouridis** and A. Gumbert. 2018. Kentucky Backyard Streams Program. 2018. North Central Region One Water Action Forum, Indianapolis, IN, December 11-13.
16. Husic, A., J. Fox, E. Adams, E. Pollock, W. Ford, **C. Agouridis**, C. Taylor, and J. Backus. 2018. Nitrate removal in a phreatic karst conduit: Estimating nitrification and denitrification rates using stable isotopes and numerical modeling. American Geophysical Union, Washington, D.C., December 10-14.
17. **Agouridis, C.**, N. Braga, E. Crocker, C. Barton, J. Bender, M. Dixon, S. Greb, A. Gumbert, G. Henderson, J. Hubbard-Sanchez, W. Long, B. Newton, R. Paratley, W. Sanderson, M. Springer, J. Stottman, and L. Thomas. 2018. The Kentucky Master Naturalist Program. 8<sup>th</sup> Annual Sustainability Forum. Lexington, KY, December 6.
18. **Agouridis, C.**, E. Crocker, and Jennifer Hubbard-Sánchez. 2018. The Kentucky Master Naturalist Program. Kentucky Association for Environmental Education 42<sup>nd</sup> Annual Conference, Berea, Kentucky, September 6-8.
19. **Agouridis, C.** and E. Crocker. 2018. Discovering your inner scientist and engineer. Kentucky Association for Environmental Education 42<sup>nd</sup> Annual Conference, Berea, Kentucky, September 6-8.
20. **Agouridis, C.T.** 2018. Building an ecological engineer's toolbox using stream restoration. 2018 ASABE Annual International Meeting, Detroit, Michigan, July 30-August 1.
21. **Agouridis, C.T.**, *E. Remley*, *S. Austen*, and *M. Gerlitz*. 2018. Using citizen science to evaluate the success of urban stream restoration projects. 2018 ASABE Annual International Meeting, Detroit, Michigan, July 30-August 1.
22. Salazar, D., **C. Agouridis**, C. Coomer, and M. Pennell. 2018. Speaking my language: effectively communicating your research. 4<sup>th</sup> Annual University of Kentucky Postdoctoral Research Symposium, Lexington, KY, June 1.
23. Husic, A., E. Adams, J. Fox, W. Ford, J. Backus, E. Pollock, C. Taylor, A. Rexroat, **C. Agouridis**, J. Currens, and S. Workman. 2018. Water, sediment, and nutrients data streams in a fluviokarst watershed in Kentucky Bluegrass: Insights from elemental, isotopic, and high-resolution sensor data. Kentucky Water Resources Annual Symposium, Lexington, KY, March 19.

24. Austen, S. and **C. Agouridis**. 2018. Effects of stream restoration on pollutant load reductions in an urban watershed. Kentucky Water Resources Annual Symposium, Lexington, KY, March 19.
25. Edwards, D., **C. Agouridis**, and S. Austen. 2018. Variations in soil saturated hydraulic conductivity across multiple land uses in Fayette County, Kentucky. Kentucky Water Resources Annual Symposium, Lexington, KY, March 19.
26. Husic, A., J. Fox, W. Ford, **C. Agouridis**, J. Currens, and C. Taylor. 2017. Nitrogen fate in a phreatic fluviokarst watershed: a stable isotope, sediment tracing, and numerical model approach. American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15.
27. Gerlitz, M., **C. Agouridis**, and C. Barton. 2017. Hydrologic study of mine reclamation sites in eastern Kentucky coalfields. 7<sup>th</sup> Annual Sustainability Forum. Lexington, KY, December 6.
28. Remley, E. and **C. Agouridis**. 2017. Using citizen science to evaluate the success of urban stream restoration projects. 7<sup>th</sup> Annual Sustainability Forum. Lexington, KY, December 6. **2<sup>nd</sup> Place Award for Best Undergraduate Poster.**
29. Gumbert, A. and **C. Agouridis**. 2017. A river of words in a backyard stream. 41<sup>st</sup> Annual Conference, Bridging the Gap: Discovering Opportunities for Collaboration & Partnerships, Kentucky Association for Environmental Education. Gilbertsville, KY, September 7-9.
30. **Agouridis, C.** 2017. Beyond the traditional classroom: Creating outdoor learning environments. 2017 ASABE Annual International Meeting, Spokane, WA, July 17-19.
31. Austen, S., D. Edwards, **C. Agouridis**, and L. Ormsbee. 2017. Influence of land use on soil bulk density, infiltration, and NRCS runoff curve number. 2017 ASABE Annual International Meeting, Spokane, WA, July 17-19.
32. Husic, A., J. Fox, W. Ford, **C. Agouridis**, J. Currens, C. Taylor, and S. Workman. 2017. Investigating sediment and nitrate dynamics using stable isotope sediment tracing and numerical modeling in a fluviokarst watershed. World Environmental and Water Resources Congress (EWRI-ASCE), Sacramento, CA, May 21-25.
33. **Agouridis, C.** 2017. Reaching Out in the SEC. SEC Academic Conference: The future of water, regional collaboration on shared climate, coastlines, and watersheds. Mississippi State University, Starkville, MS, March 27-28.
34. Berry, A., and **C. Agouridis**. 2017. Bankfull regional curves and hydraulic geometry curves for the eastern Kentucky coalfields. Kentucky Water Resources Annual Symposium, Lexington, KY, March 20. Plenary Session.

35. **Agouridis, C.** and M. Sama. 2017. The benefits of staying local – the Kentucky Section of the American Society of Agricultural and Biological Engineers. Kentucky Water Resources Annual Symposium, Lexington, KY, March 20.
36. Austen, S., D. Edwards, **C. Agouridis**, and L. Ormsbee. 2017. Influence of land use on soil bulk density, infiltration, and NRCS runoff curve number. Kentucky Water Resources Annual Symposium, Lexington, KY, March 20.
37. Husic, A., J. Fox, W. Ford, **C. Agouridis**, J. Currens, and C. Taylor. 2017. Sediment nitrogen and nitrate dynamics of a fluviokarst system in the Bluegrass Region: Isotopic and numerical modeling investigations. Kentucky Water Resources Annual Symposium, Lexington, KY, March 20.
38. Austen, S., D. Edwards, **C. Agouridis**, and L. Ormsbee. 2016. Assessment of urban curve numbers in Fayette County. Kentucky Section of the American Society of Civil Engineers Annual Meeting. Lexington, KY, October 14.
39. **Agouridis, C.**, T. Sanderson, and K. Fehr. 2016. Creating engaged learners with a science garden. Kentucky Association for Environmental Education 40<sup>th</sup> Annual Conference, Jamestown, KY, September 23-24.
40. **Agouridis, C.** 2016. Teaching engineering and science using a project-based service-learning format. 2016 ASABE Annual International Meeting, Orlando, FL, July 17-20.
41. Berry, A. and **C. Agouridis**. 2016. Bankfull regional curves and hydraulic geometry curves for the eastern Kentucky coalfields. 2016 ASABE Annual International Meeting, Orlando, FL, July 17-20.
42. **Agouridis, C.**, K. Wright, and C. Barton. 2016. Long-term effects of forestry best management practices on hydrology and water chemistry in three Appalachian headwater catchments. 2016 ASABE Annual International Meeting, Orlando, FL, July 17-20.
43. **Agouridis, C.T.** 2016. Integrating stream restoration into mined land reclamation: A focus on Appalachia. University of Kentucky Earth and Environmental Sciences Rast-Holbrook Seminar Series, Lexington, KY, April 21.
44. Gallagher, C.J, A.H. Sawyer, **C. Agouridis**, and W. Blackburn-Lynch. 2016. Restoring surface water/groundwater connectivity in an Appalachian headwater stream on surface mined lands (Guy Cove, Kentucky). North-Central GSA Annual Meeting, Urbana-Champaign, IL, April 18.
45. Wright, K., **C. Agouridis**, and C. Barton. 2016. Long-term effects of forestry best management practices on hydrology and water chemistry in three Appalachian headwater catchments. Kentucky Water Resources Annual Symposium, Lexington, KY, March 28.



46. Husic, A., J. Fox, **C. Agouridis**, J. Currens, S. Workman, W. Ford, and C. Taylor. 2015. Terrestrial and aquatic carbon fate and transport in a temperate fluviokarst watershed. American Geophysical Union Fall Meeting, San Francisco, CA, December 14-18.
47. Villines, J., **C.T. Agouridis**, R.C. Warner, and C.D. Barton. 2015. Using GIS to delineate headwater stream origins in the Appalachian coalfields of Kentucky. 2015 ASABE Annual International Meeting, New Orleans, LA, July 26-29.
48. Barton, C.D., T. Littlefield, **C.T. Agouridis**, C. Hoy, and A. Drayer. 2015. Hydrologic characterization of three headwater mountain wetlands in southeastern Kentucky, USA. 2015 ASABE Annual International Meeting, New Orleans, LA, July 26-29.
49. Koeninger, N., M. Montross, **C.T. Agouridis**, A. Turner, and J. Jackson. 2015. Determining soil erosion with varying corn stover cover factors. 2015 ASABE Annual International Meeting, New Orleans, LA, July 26-29.
50. Qualls, T., **C. Agouridis**, and M. Kulshrestha. 2015. Development of a methodology to determine antibiotic concentrations in runoff samples. 2015 ASABE Annual International Meeting, New Orleans, LA, July 26-29.
51. Blackburn-Lynch, W., **C.T. Agouridis**, C.D. Barton, and R.C. Warner. 2015. Impacts of flooding on forested headwater streams. 2015 ASABE Annual International Meeting, New Orleans, LA, July 26-29.
52. Burnette, M. and **C.T. Agouridis**. 2015. Hydraulic controls on hyporheic exchange in restored and natural systems: A review. 2015 ASABE Annual International Meeting, New Orleans, LA, July 26-29.
53. Smith, S., **C. Agouridis**, and R. Warner. 2015. Constructing and testing of a low permeability barrier using weathered mine spoil. 2015 Joint Conference, 32<sup>nd</sup> Annual Meeting of the American Society of Mining and Reclamation and 9<sup>th</sup> Annual Meeting of the Appalachian Regional Reforestation Initiative, Lexington, KY, June 7-11.
54. Blackburn-Lynch, W., **C. Agouridis**, C. Barton, and R. Warner. 2015. Hydrologic assessment of a stream created on mined land. 2015 Joint Conference, 32<sup>nd</sup> Annual Meeting of the American Society of Mining and Reclamation and 9<sup>th</sup> Annual Meeting of the Appalachian Regional Reforestation Initiative, Lexington, KY, June 7-11.
55. Burnette, M., L. Ormsbee, and **C. Agouridis** 2015. Validation of the NRCS curve number for continuous simulation in urban watersheds. EWRI World Environmental & Water Resources Congress, 12<sup>th</sup> Urban Water Management Symposium, Austin, TX, May 17-21.

56. Husic, A., J. Fox, **C. Agouridis**, J. Currens, S. Workman, W. Ford, and C. Taylor. 2015. Investigation of source, fate, and transport of sediments in a karst dominated watershed. EWRI World Environmental & Water Resources Congress, 12<sup>th</sup> Urban Water Management Symposium, Austin, TX, May 17-21.
57. *Qualls, T.*, **C. Agouridis**, and M. Kulshrestha. 2015. Development of a methodology to determine antibiotic concentrations in runoff samples. Oklahoma State University Student Water Conference, Stillwater, OK, March 26-27. Awarded **Outstanding Undergraduate Poster**.
58. *Blackburn-Lynch, W.* and **C. Agouridis**. 2015. Comparison of regional curves and hydraulic geometry curves for physiographic provinces across the U.S. Oklahoma State University Student Water Conference, Stillwater, OK, March 26-27. Awarded **Outstanding Graduate Student Poster**.
59. Husic, A., J. Fox, **C. Agouridis**, J. Currens, S. Workman, W. Ford, and C. Taylor. 2015. Sediment organic carbon fate and transport mechanisms in a fluvial karst system in the Bluegrass Region. Kentucky Water Resources Research Institute Annual Symposium, Lexington, KY, March 9.
60. Husic, A., J. Fox, **C. Agouridis**, J. Currens, S. Workman, W. Ford, and C. Taylor. 2015. Sediment organic carbon fate and transport mechanisms in a fluvial karst system in the Bluegrass Region. Posters-at-the-Capital, Frankfort, KY, February 19.
61. *Smith, S.*, **C. Agouridis**, and R. Warner. 2014. Constructing a low permeability barrier using mine spoil. 4<sup>th</sup> Annual TFISE Research Showcase. Lexington, KY, December 1.
62. *Norton, R.*, **C. Agouridis**. 2014. Transforming a detention basin overlying bedrock into a rain garden: How well does it perform hydrologically? 4<sup>th</sup> Annual TFISE Research Showcase. Lexington, KY, December 1.
63. *Qualls, T.*, **C. Agouridis**, and M. Kulshrestha. 2014. Development of a methodology to determine antibiotic concentrations in runoff samples. 4<sup>th</sup> Annual TFISE Research Showcase. Lexington, KY, December 1.
64. *Blackburn-Lynch, W.* and **C. Agouridis**. 2014. Comparison of regional curves and hydraulic geometry curves for physiographic provinces across the U.S. 4<sup>th</sup> Annual TFISE Research Showcase. Lexington, KY, December 1.
65. Bell, S. S. Tedder, **C. Agouridis**, M. Arthur, and A. Fryar. 2014. Greenhouse: A place-based sustainability living learning program. AASHE Conference and Expo: Innovation for Sustainable Economies and Communities, Portland, OR, October 26-29.

66. Gumbert, A., C. Hanley, **C. Agouridis**, K. Taylor, and E. Edwards. 2014. Snapped: Using photojournalism to connect to your watershed. 2014 Water Education Summit, Asheville, NC, September 8-10.
67. Ford, W., J. Fox, **C.T. Agouridis**, G. Brion. 2014. Development of nitrogen model to simulate the fluvial nitrogen budget. 10<sup>th</sup> Annual Kentucky Innovation and Entrepreneurship Conference, Louisville, KY, September 5.
68. Sena, K.L., C.D. Barton, P. Angel, S. Hall, **C.T. Agouridis**, and R. Warner. 2014. Mine spoil type influences growth of planted hardwoods and naturally colonizing understory vegetation on experimental reforestation plots in Pike County, Kentucky. Conference on Ecological and Ecosystem Restoration (CEER), New Orleans, LA, July 28-August 1.
69. Blackburn-Lynch, W., **C.T. Agouridis**, C.D. Barton, R.C. Warner, and T. Maupin. 2014. A hydrologic assessment of a stream created on mined lands. 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16.
70. Blackburn-Lynch, W., **C. Agouridis**, and J. Foresman. 2014. Comparison of regional curves and hydraulic geometry curves for physiographic provinces across the U.S. 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16.
71. Enlow, H., **C.T. Agouridis**, D. Edwards, L. Ormsbee. 2014. Comparison of composite sample concentration and FWMC for rainfall simulation studies. 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16.
72. Enlow, H., **C.T. Agouridis**, D. Edwards, L. Ormsbee. 2014. Effect of alum on reducing surface transport of veterinary antibiotics. 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16.
73. McMaine, J., **C.T. Agouridis**, R.C. Warner, C.D. Barton. 2014. Hydrologic characterization of a rain garden mitigating stormwater runoff from a commercial area. 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16.
74. *Norton, R.* and **C.T. Agouridis**. 2014. Transforming a detention basin overlying bedrock into a rain garden: How well does it perform hydrologically? 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16.
75. Warner, R.C., D. Scott, **C.T. Agouridis**, O. Hoffmann. 2014. Design of weep berms for Appalachian contour and area surface coal mining. 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16.
76. Weatherford, M., **C.T. Agouridis**, C.D. Barton, R.C. Warner, K.L. Sena. 2014. Long-term hydrologic characteristics of loose-dumped mine spoils. 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16.

77. Sena, K.L., C.D. Barton, **C.T. Agouridis**, and R. Warner. 2014. Influence of spoil type on discharged water quality and hydrologic function of experimental reforestation plots in Pike County, Kentucky. American Society of Mining and Reclamation Meeting, Oklahoma City, OK, June 14-19.
78. Koeninger, N., M. Montross, and **C.T. Agouridis**. 2014. Impact of varying cover factors on soil erosion due to biomass removal. Oklahoma State University Student Water Conference. Stillwater, OK, April 10-11. Awarded **Outstanding Graduate Student Oral Presentation**.
79. McMaine, J., **C.T. Agouridis**, R.C. Warner, C.D. Barton. 2014. Hydrologic characterization of a rain garden mitigating stormwater runoff from a commercial area. Oklahoma State University Student Water Conference. Stillwater, OK, April 10-11. Awarded **Honorable Mention, Outstanding Graduate Student Oral Presentation**
80. Weatherford, M., C.T. Agouridis, C.D. Barton, R.C. Warner, K.L. Sena. 2014. Long-term hydrologic characteristics of loose-dumped mine spoils. Oklahoma State University Student Water Conference. Stillwater, OK, April 10-11.
81. Hanley, C., **C. Agouridis**, and A. Gumbert. 2014. Engaging partners in the Cane Run Watershed. Kentucky Water Resources Annual Symposium, Lexington, KY, March 10.
82. Sena, K., C. Barton, **C. Agouridis**, and R. Warner. 2013. Effect of spoil segregation on water chemistry, hydrology, and vegetative regrowth on a reclaimed mine site. Kentucky Academy of Sciences Annual Conference. Morehead, KY, November 8-9.
83. **Agouridis, C.T.**, A.A. Gumbert, S.F. Higgins, C.D. Barton, J.F. Fox, G.M. Brion, and A.E. Fryar. 2013. Promoting environmental stewardship through research, extension and service-based learning efforts in the Cane Run Watershed. 2013 Kentucky Engagement Conference, Richmond, KY, November 6.
84. Enlow, H., **C.T. Agouridis**, D.R. Edwards, and L. Ormsbee. 2013. Antibiotic transport via runoff plots treated with swine manure. 3<sup>rd</sup> Annual TFISE Research Showcase. Lexington, KY, October 9.
85. McMaine, J.T., **C.T. Agouridis**, R.C. Warner, and C.D. Barton. 2013. Hydrologic characterization of a rain garden mitigating stormwater runoff from a commercial area. 3<sup>rd</sup> Annual TFISE Research Showcase. Lexington, KY, October 9. **1<sup>st</sup> Place Graduate Student Poster**.
86. Sena, K., C. Barton, **C. Agouridis**, and R. Warner. 2013. Effect of spoil segregation on water chemistry, hydrology, and vegetative regrowth on a reclaimed mine site. 3<sup>rd</sup> Annual TFISE Research Showcase. Lexington, KY, October 9.

87. Agustina, C., P. Fajri, F. Fathoni, T. Gusti, A. Harifa, Y. Hendra, D. Hernanti, N. Lusiana, F. Rohmat, **C. Agouridis**, A. Fryar, A. Milewski, N. Pandjaitan, R. Santoso, and A. Surharyanto. 2013. Field training activities for hydrologic science in West Java, Indonesia. AGU (American Geophysical Union) Fall Meeting, San Francisco, CA, December 9-13.
88. Fryar, A., A. Milewski, **C. Agouridis**, P. Schroeder, M. Sultan, C. Hanley, K. Tanaka, and M. Reed. 2013. Enhancing capacity for hydrologic science from North Africa to Southeast Asia: The BOOST Initiative. GSA (Geologic Society of America) Annual Meeting and Exposition, Denver, CO, October 27-30.
89. Sena, K., C. Barton, **C. Agouridis**, and R. Warner. 2013. Effect of spoil type on chemical and hydrologic profiles of experimental mine reforestation plots in eastern Kentucky. ARRI (Appalachian Regional Reforestation Initiative) Conference "Mined Land Reforestation", Flatwoods, WV, August 6-7.
90. **Agouridis, C.T.**, *I. Ribeiro*, M. Coyne, and A. Gumbert. 2013. Effects of mowing regimes and native grasses on denitrification potential in an agricultural riparian zone. ASABE International Meeting, Kansas City, Missouri, July 20-25.
91. **Agouridis, C.T.**, A. Gumbert, S. Higgins, C. Barton, J. Fox, G. Brion, and A. Fryar. Combining research, extension and service-based learning efforts in the Cane Run Watershed. ASABE International Meeting, Kansas City, Missouri, July 20-25.
92. Sena, K., C. Barton, **C. Agouridis**, and R. Warner. 2013. Effect of spoil segregation on water chemistry, hydrology, and vegetative regrowth on a reclaimed mine site. American Society of Mining and Reclamation Annual Meeting, Laramie, WY, June 2-6.
93. Stamper, D.J., **C.T. Agouridis**, D.R. Edwards, and M.A. Purschwitz. 2013. Effect of soil sampling density and landscape characteristics on soil test phosphorus. ASABE International Meeting, Kansas City, Missouri, July 20-25.
94. **Agouridis, C.**, C. Barton, R. Warner, and H. Jin. 2013. The Guy Cove stream restoration project: Recreating a headwater stream system on a head-of-the-hollow fill. Environmental Considerations in Energy Production Symposium, April 14-18.
95. Maupin, T., **C. Agouridis**, C. Barton, and R. Warner. 2013. Hydrologic assessment of the Guy Cove stream restoration project. Environmental Considerations in Energy Production Symposium, April 14-18.
96. Maupin, T., **C. Agouridis**, C. Barton, and R. Warner. 2013. Conductivity sensor accuracy and temporal stability: A laboratory and field study. Environmental Considerations in Energy Production Symposium, April 14-18.

97. Warner, R., C. Zipper, and **C. Agouridis**. 2013. Sustainable landform construction on coal mining operations that require valley fills. Environmental Considerations in Energy Production Symposium, April 14-18.
98. Warner, R., T. Monday, and **C. Agouridis**. 2013. Screening-level specific conductivity testing of drill core strata. Environmental Considerations in Energy Production Symposium, April 14-18.
99. McMaine, J.T. and **C.T. Agouridis**. 2013. Hydrologic characterization of a tree- and shrub-vegetated rain garden in central Kentucky. Kentucky Water Resources Annual Symposium, Lexington, KY, March 18.
100. Hanley, C, **C.T. Agouridis**, and A.A. Gumbert. 2013. Engaging partners in the Cane Run Watershed. Kentucky Water Resources Annual Symposium, Lexington, KY, March 18.
101. **Agouridis, C.**, T. Maupin, C. Barton, D. Edwards, R. Warner, and M. Sama. 2012. Assessing conductivity sensor performance: A laboratory and field study. Southeast Regional Stream Restoration Conference, Wilmington, NC, October 15-18.
102. Villines, J., C. Agouridis, T. Williamson, T. Dowdy, R. Warner, and C. Barton. 2012. Use of GIS and WATER to identify and delineate stream types in eastern Kentucky. Southeast Regional Stream Restoration Conference, Wilmington, NC, October 15-18.
103. Lee, S., G. Brion, **C. Agouridis**, and J. Currens. 2012. Identifying hot-spots of human fecal contamination in the Royal Springs Karstshed. Southeast Regional Stream Restoration Conference, Wilmington, NC, October 15-18.
104. **Agouridis, C** and A. Gumbert. 2012. Student education in the Cane Run Watershed: Service-based learning efforts. 13<sup>th</sup> Annual National Outreach Scholarship Conference, Tuscaloosa, AL, September 30-October 3.
105. Gumbert, A. and **C. Agouridis**. 2012. Improving community awareness and education in the Cane Run Watershed. 13<sup>th</sup> Annual National Outreach Scholarship Conference, Tuscaloosa, AL, September 30-October 3.
106. **Agouridis, C.** and R. Epps. 2012. Using stormwater BMP workshops to improve professionals' knowledge and awareness. 13<sup>th</sup> Annual National Outreach Scholarship Conference, Tuscaloosa, AL, September 30-October 3.
107. Maupin, T.P., **C.T. Agouridis**, C.D. Barton, and R.C. Warner. 2012. Conductivity sensor performance. ASABE Annual International Meeting, Dallas, TX, July 2-August 1.

108. Guffey, R.L., **C.T. Agouridis**, R.C. Warner, C.D. Barton, and S.F. Higgins. 2012. Evaluating the effectiveness of weep berm systems for treating runoff from the composting of horse muck. ASABE Annual International Meeting, Dallas, TX, July 2-August 1.
109. Maupin, T.P., **C.T. Agouridis**, C.D. Barton, and R.C. Warner. 2012. Laboratory evaluation of conductivity sensor accuracy and temporal consistency. National Meeting of the American Society of Mining and Reclamation, Tupelo, MS, Sustainable Reclamation. June 8-15.
110. **Agouridis, C.T.** and D. Mattingly. 2011. Biosystems and Agricultural Engineering at the University of Kentucky. International Workshop on Joined Projects among Universities of Kentucky, Illinois, Iowa State, Purdue, and UFV. Universidade Federal De Viçosa. Viçosa, MD, Brazil, November 8. (Invited)
111. Maupin, T., **C. Agouridis**, C. Barton, and R. Warner. 2011. Hydrologic and water quality assessment of the Guy Cove stream restoration project. 2<sup>nd</sup> Annual Research Showcase and the UK Environmental Seminar Series. Lexington, KY, November 3.
112. Guffey, R., **C.T. Agouridis**, R. Warner, C. Barton, S. Higgins. 2011. Evaluating the effectiveness of weep berm systems for treating runoff from the composting of horse muck. 2<sup>nd</sup> Annual Research Showcase and the UK Environmental Seminar Series. Lexington, KY, November 3.
113. Villines, J., **C.T. Agouridis**, R. Warner, C. Barton, and T. Williamson. 2011. Use of GIS and WATER to identify and delineate stream types in eastern Kentucky. 2<sup>nd</sup> Annual Research Showcase and the UK Environmental Seminar Series. Lexington, KY, November 3.
114. *McMaine, J., H. Enlow, B. May, L. Hornback,* and **C.T. Agouridis**. 2011. GIRAFFE: Geographical Information Receiver Apparatus for Field Evaluation. 2<sup>nd</sup> Annual Research Showcase and the UK Environmental Seminar Series. Lexington, KY, November 3.
115. *Mattingly, M., A. Gilpin, M. Deicher, N. Keoninger,* and **C.T. Agouridis**. 2011. Stormwater management at the Kentucky Horse Park. 2<sup>nd</sup> Annual Research Showcase and the UK Environmental Seminar Series. Lexington, KY, November 3.
116. Williamson, T., **C.T. Agouridis**, C.D. Barton, R.C. Warner, J.K. Newson, and J. Villines. 2011. Hydrologic modeling of ephemeral stream channels in coal region of eastern Kentucky (No. 261-4). ASA-CSA-SSA International Annual Meetings: Fundamentals for Life: Soil, Crop, & Environmental Sciences. San Antonio, TX, October 16-19.
117. Barton, C.D., **Agouridis, C.T.**, Warner, R.C., Sweigard, R.J., and B. Zik. 2011. Coal mining and reclamation practices: Panel discussion. 35<sup>th</sup> Governor's Conference on Energy and the Environment. Lexington, KY, September 26-27. (Invited)

118. Otte, H., Barton, C.D., and **C.T. Agouridis**. 2011. Control and treatment of runoff from muck storage pads using permeable basins and phytotechnologies. 8<sup>th</sup> Conference: International Phytotechnology Society: Putting Plants to Work Where We Live, Breathe, and Play. Portland, OR, September 13-16.
119. Hoy, C. C. Barton and **C. Agouridis**. 2011. Characterization of headwater seep wetlands in southeastern Kentucky. Joint Meeting of the Society of Wetland Scientists, WETPOL (Wetland Pollutant Dynamics and Control), and Wetland Biogeochemistry. Prague, Czech Republic, July 3-8.
120. 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. ASABE Annual International Meeting. Louisville, KY, August 7-11.
121. **Agouridis, C.T.**, A.A. Gumbert, and S.F. Higgins. 2011. Cane Run Watershed assessment and restoration project: Improving community awareness and education. NCDC 221 Annual Meeting, St. Paul, MN, May 24-25.
122. Gumbert, A., S. Higgins, and **C. Agouridis**. 2011. Cane Run Watershed assessment and restoration – Phase One accomplishments. Kentucky Water Resources Research Institute Annual Symposium. Marriot Griffin Gate Resort, Lexington, KY, March 21.
123. Gumbert, A., S. Higgins, and **C. Agouridis**. 2011. Cane Run Watershed assessment and restoration – Phase One accomplishments. USDA-NIFA Land Grant and Sea Grant National Water Conference, Washington, D.C., January 31-February 1.
124. **Agouridis, C.T.**, A.A. Gumbert, and S.F. Higgins. 2010. Cane Run Watershed assessment and restoration project: Improving community awareness and education. Stream Restoration in the Southeast: Connecting Communities and Ecosystems. Raleigh, NC, November 15-18.
125. Warner, R.C. and **C.T. Agouridis**. 2010. Enhanced environmental protection through new valley fill design techniques. 23<sup>rd</sup> Annual Kentucky Professional Engineers in Mining Seminar. Lexington, Kentucky, August 20. (Invited)
126. Barton, C.D., **C.T. Agouridis**, R. Warner, K. Ward, and P. Angel. 2010. Effects of FRA on water quality. Joint Mining Reclamation Conference: American Society of Mining and Reclamation (ASMR) and the Appalachian Regional Reforestation Initiative (ARRI). Pittsburg, PA, June 5-11. (Invited)
127. Mastin, C., **C. Agouridis**, C.D. Barton, and R. Warner. 2010. Water Quality Response to Headwater Stream Restoration on a Head of Hollow Fill. Joint Mining Reclamation Conference: American Society of Mining and Reclamation (ASMR) and the Appalachian Regional Reforestation Initiative (ARRI). Pittsburg, PA, June 5-11. (Invited)



128. Barton, C.D., D. Graves, **C. Agouridis**, R. Warner, J. Stringer, and P. Angel. 2010. Reforestation of Surface Mines in Appalachia. 17<sup>th</sup> Central Hardwood Forest Conference, Lexington, KY, April 5-7.
129. Barton, C.D. D.H. Graves, R.C. Warner, **C.T. Agouridis**, R. Sweigard, J. Stringer, P.N. Angel, and P. Rothman. 2009. Reforestation of surface mines in Appalachia. A Forum on Coal in Kentucky, University of Kentucky, Lexington, KY, November 5. (Invited)
130. 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. Mid-Atlantic Stream Restoration Conference, Morgantown, WV, November 3-5.
131. Sollenberger, L.E., 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.
132. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2009. Guy Cove stream restoration project. Kentucky Professional Engineers in Mining Seminar. Lexington, KY, August 21.
133. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2009. Hydrology and water quality of lands reclaimed using the Forestry Reclamation Approach. Appalachian Regional Reforestation Initiative (ARRI) Mined Land Reforestation Conference, Prestonsburg, KY, August 4-6.
134. Sollenberger, L.E. E.S. Vanzant, **C.T. Agouridis**, A.J. Franzluebbbers, and L.B. Owens. 2009. The science behind the use of prescribed grazing as a conservation practice. American Forage and Grassland Council, Grand Rapids, MI, June 21-23.
135. **Agouridis, C.T.**, 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 28-30. *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)
136. 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 28-30. *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)

137. 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.
138. 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)
139. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2008. Integrating natural systems into sediment controls. National Mining Association MinExpo International, Las Vegas, NV September 22-24. (Invited)
140. Reeves, C., J. Stringer, C.D. Barton and **C.T. Agouridis**. 2008. Sedimentation rates of temporary skid trail headwater stream crossings. *In: Addressing Forest Engineering Challenges of the Future*. Proceedings of the 31st Annual Meeting of the Council on Forest Engineering. Charleston, SC, June 25-28.
141. 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. National Meeting of the American Society of Mining and Reclamation, Richmond, VA, New Opportunities to Apply Our Science. June 14-19, 2008.
142. **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. SME Annual Meeting & Exhibit, Salt Lake City, Utah, February 24-27. (Invited)
143. Warner, R.C., **C.T. Agouridis**, J. Strang, and O. H. Hoffmann. 2008. Trickle irrigation design for blueberries. 2008 Kentucky Fruit and Vegetable Conference and Trade Show, Lexington, KY, January 8. (Invited)
144. **Agouridis, C.T.**, C.D. Barton, R.C. Warner, D.A. Bidelspach, G.D. Jennings, R. Osborne, and J.W. Marchant. 2007. Recreating a headwater stream system on a head-of-hollow fill. Mid-Atlantic Stream Restoration Conference, Cumberland, MD, November 6-8. (Invited)
145. Taylor, T.J., **C.T. Agouridis**, R.C. Warner, C.D. Barton, D.H. Graves, and P.N. Angel. 2007. Hydrologic and water quality characteristics of loose-dumped mine spoil. Society of American Foresters National Convention, Portland, OR, October 23-27.
146. 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. Society of American Foresters National Convention, Portland, OR, October 23-27.

147. 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. Society of American Foresters National Convention, Portland, OR, October 23-27.
148. **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. 20th Annual Kentucky Professional Engineers in Mining Seminar, Lexington, KY, August 29.
149. Warner, R.C., **C.T. Agouridis**, and C.D. Barton. 2007. Mining and mine reforestation: Influences on watershed hydrology. ARRI Mined Land Reforestation Conference, Abingdon, VA, August 7-8. (Invited)
150. **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. ARRI Mined Land Reforestation Conference, Abingdon, VA, August 7-8. (Invited)
151. 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. National Meeting of the American Society of Mining and Reclamation, Gillette WY, June 2-7.
152. **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. Stream Restoration in the Southeast: Accomplishments and Opportunities, Charlotte, NC, October 2-5.
153. **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. Stream Restoration in the Southeast: Accomplishments and Opportunities, Charlotte, NC, October 2-5.
154. 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. 7th ICARD Annual Meeting, St. Louis, MO, March 26-30. **Presentation won the 2nd Place Student Award.**
155. 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. 7th ICARD Annual Meeting, St. Louis, MO, March 26-30.
156. Warner, R.C. and **C.T. Agouridis**. 2006. Automatic drip irrigation systems to increase productivity. Kentucky Fruit and Vegetable Conference, January 10.

157. Dowdy, T., R.W. Warner, S.R. Workman, R.L. Fehr, and **C.T. Agouridis**. 2005. Integrating Mobile Technology into the GIS Classroom. ESRI International Users Conference, Paper # EDUC1812, San Diego, California, July 25-29.
158. Warner, R.C., **C.T. Agouridis**, D.H. Graves and R.J. Sweigard. 2004. Creating sustainable high-value forests. ASAE International Meeting, Paper #042076, Ottawa, Canada, August 2-4.
159. 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. ASAE Self-Sustaining Solutions for Streams, Wetlands, and Watersheds. St. Paul, Minnesota, September 12-15.
160. **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. ASAE International Meeting, Ottawa, Canada, August 2-4.
161. **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. ASAE International Meeting, Ottawa, Canada, August 2-4.
162. **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. ASAE International Meeting, Ottawa, Canada, August 2-4.
163. Barton, C.D., D. Graves, R. Warner, **C. Agouridis** and R. Sweigard. 2004. Carbon sequestration and mineland reforestation. 3rd Annual Conference on Carbon Sequestration, Alexandria, VA, May 3-6.
164. 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. USDACSREES National Water Quality Conference in Clearwater, Florida, January 11-14.
165. **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. ASAE International Meeting, Las Vegas, Nevada, July 28-31.
166. 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. ASAE International Meeting, Las Vegas, Nevada, July 28-31.
167. Koostra, B.K., **C.T. Agouridis**, and S.R. Workman. 2003. GIS analysis of GPS position data of beef cattle. ESRI International User Conference, San Diego, California, July 7-11.

168. 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. USDA-CSREES National Water Quality Conference, Tucson, AZ, January 12-15.
169. 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. NASA R&D Conference, Louisville, Kentucky, October 22.
170. **Anderson, C.T.** and D.R. Edwards. 2001. The development of relationships between constituent concentration and generic hydrological variables. ASAE Annual International Meeting, Sacramento, California, July 30-August 1.
171. **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. ASAE Annual International Meeting, Milwaukee, Wisconsin, July 9-12.
172. **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. Tennessee Section of the ASAE, Martin, Tennessee, May 23.
173. Quarter-Scale Tractor Design Competition. 1998. ASAE International Meeting, Orlando, Florida, July 12-15.

### ***Extension***

1. **Agouridis, C.T.** and A. Gumbert. 2020. University partnerships for stormwater outreach and instruction. Clean Water Professionals of KY & TN, Webinar, May 19.
2. **Agouridis, C.T.** 2020. Stream restoration. Bluegrass Whitewater Association, Lexington, KY, January 14.
3. Herzog, L., **C. Agouridis**, M. Lucy, and L. Collins. 2019. Employee Education Program Lunch and Learn. University of Kentucky College of Agriculture, Food and Environment, November 6.
4. **Agouridis, C.T.** 2019. Engineering properties of water. Sizzling Summer, University of Kentucky Children's Garden, July 13.
5. **Agouridis, C.T.** 2019. Outdoor classroom design. Community Partner Speed Dating, 3<sup>rd</sup> Annual Outdoor Learning Symposium, Fredrick-Douglas High School, Lexington, KY, June 18.
6. **Agouridis, C.T.** 2019. Project WET STEM and social studies activities. Gifted and Talented (GT) classes (2<sup>nd</sup>-5<sup>th</sup>) at Cassidy Elementary, May 3.

7. **Agouridis, C.T.** 2019. Incredible Journey. Part of Make a Splash Water Festival, Wolfe County Extension Office, April 15.
8. **Agouridis, C.T.** and I. Escobar. 2019. Science Olympiad – Water Quality at the University of Kentucky, April 13.
9. **Agouridis, C.T.** 2018. Planting riparian buffers. Jessamine County-City of Wilmore Joint Planning Commission, Nicholasville, KY, December 11. Subsequently reviewed riparian buffers ordinance.
10. **Agouridis, C.T.** 2018. Stream assessment and restoration design. Summer Technical Update Training Fundamentals of Plant Science and Landscape Architecture, University of Kentucky, Department of Community and Leadership Development/Agricultural Education, June 15.
11. **Agouridis, C.T.** 2018. Project WET STEM and social studies activities. Gifted and Talented (GT) classes (1<sup>st</sup>-5<sup>th</sup>) at Cassidy Elementary, May 4.
12. **Agouridis, C.T.** 2018. Proving your mettle. Women Executive Leadership Development Program, Brown Bag Lunch Series, March 9.
13. **Agouridis, C.T.** 2018. Kentucky Master Naturalist Program. Kentucky Organization of Field Stations – Field Station Meeting. WKU Green River Preserve, February 24.
14. **Agouridis, C.T.** 2018. Restoration after logging. Woods and Wildlife Forestry Event, Greenup, KY, February 22.
15. **Agouridis, C.T.** 2018. Designing a zoo. Engineer’s Week at Cassidy Elementary, Lexington, KY, February 16-22.
16. **Agouridis, C.T.** 2018. Stream systems and tire Waterer. Developed and demonstrated a stream table (agriculture and urban streams) and tire waterer model at the National Farm Machinery Show, Louisville, KY, February 14-17.
17. **Agouridis, C.T.** 2017. Fostering dialogue & collaboration on climate change. IGNITE Water Week event, Lexington, KY, October 9. <https://www.uky.edu/bae/ignite>
18. **Agouridis, C.T.** 2017. Backyard Water Resources, Rain Gardens, Stormwater Wetlands, and Caring for Your Backyard Water Resources. Kentucky Wood Expo, Your Backyard Woods, Lexington, KY, September 16.
19. **Agouridis, C.T.**, S. Austen, and M. Gerlitz. 2017. Water Activities. Celebrating the Seasons Series in the Kentucky Children’s Garden: Sizzling Summer, Lexington, KY, July 14.

20. Hernandez, E., K. Peterson, **C. Agouridis**, and A. Gumbert. 2017. Water Professionals Student Chapter at the University of Kentucky and BAE. 4<sup>th</sup> Annual Water for Life, KY/TN Water Professionals Conference, Young Professionals Service Event, Lexington, KY, July 9.
21. **Agouridis, C.T.** 2017. University of Kentucky, Tracy Farmer Institute for Sustainability and the Environment, Water Systems Working Group. Organized a meeting with Jim Beam Suntory to discuss water issues in the bourbon industry, Clermont, KY, May 30.
22. **Agouridis, C.T.** and J. Jackson. 2017. Drones. Developed and led a workshop on drones for the Cassidy Elementary Science Club, Lexington, KY, May 3.
23. **Agouridis, C.T.** 2017. Stream Systems. Developed and demonstrated a stream table (agriculture and urban streams) at the National Farm Machinery Show, Louisville, KY, February 15-18.
24. **Agouridis, C.T.** 2016. Career Panel. Part of 2016 Water Week Events, University of Kentucky, Lexington, KY, October 11-14.
25. **Agouridis, C.T.** 2016. Restoring Vaughn's Branch at UK. KY ASCE Bluegrass Branch Meeting. Lexington, KY, August 26. (Invited)
26. **Agouridis, C.T.** 2016. Stormwater Management at UK: Opportunities and Challenges of an LID Approach. University of Physical Plant Staff Luncheon. Lexington, KY, June 23. (Invited)
27. **Agouridis, C.T.** 2016. Pollution Sources. 4-H SET Leadership Board – Teen Conference Super Track: Science of Soil Track, Lexington, KY, June 15. (Invited)
28. **Agouridis, C.T.** 2016. Stormwater and Stream Restoration Project Case Studies. LFUCG Stormwater Stakeholder Advisory Committee. Lexington, KY, June 3. (Invited)
29. **Agouridis, C.T.** 2016. Stormwater Management. 2016. Presentation for 40 8<sup>th</sup> graders and 4 teachers from Casey County, University of Kentucky, Lexington, KY, March 30. (Invited)
30. **Agouridis, C.T.** and Tyler Sanderson. 2015. Career Panel. Part of 2015 Water Week Events, University of Kentucky, Lexington, KY, October 19-23.
31. **Agouridis, C.T.** and C.D. Barton. 2015. Restoration of UT to Cane Run. Part of 2015 Water Week Events, University of Kentucky, Lexington, KY, October 19-23.
32. **Agouridis, C.T.**, C.D. Barton, and R.C. Warner. 2015. Guy Cove Stream Restoration Project and Onsite Discussions during Mine Sites Tour with the Department of Interior Deputy Secretary, Kentucky, Hazard, KY, May 28-29.

33. **Agouridis, C.T.** and T.M. Sanderson. 2015. Ecosystem Restoration and Stream Tables. Interactive lesson for students at Lansdowne Elementary, March 27.
34. **Agouridis, C.T.** and T.M. Sanderson. 2015. Stream Restoration Opportunities at George Rogers Clark High School. Onsite discussion, field visit, and consultation with students in Project Based Learning at George Rogers Clark High School, February 12.
35. **Agouridis, C.T.** and E. Wesley. 2014. Photos Contest and Scavenger Hunt. Part of 2014 Water Week, University of Kentucky, Lexington, KY, September 15-19.
36. **Agouridis, C.T.** 2014. Panel Discussion: Low Impact Development. Presentation for Greening Woodford County: Protecting Our Uniquely Woodford Land and Water Resources, Woodford Coalition, Pisgah Presbyterian Church, January 11.
37. **Agouridis, C.T.** 2014. The Guy Cove Stream Restoration Project: Recreating a Headwater Stream System on a Head-of-Hollow Fill, Bryan Station High School Environmental AP (4 classes), January 8-9.
38. **Agouridis, C.T.** 2014. Student Experiences in Ecosystem Restoration and Protection: Biosystems and Agricultural Engineering (BAE) and Natural Resources and Environmental Science (NRES), January 8.
39. **Agouridis, C.T.** 2013. Sustainability in the Biosystems and Agricultural Engineering Department at the University of Kentucky. Booth at the Big Blue Goes Green! Encouraging Student Engagement! Showcase, Lexington, KY, October 9.
40. **Agouridis, C.T.** 2013. The Guy Cove Stream Restoration Project. Presentation for the Department of Civil and Environmental Engineering, University of Brawijaya, Malang, Indonesia, June 18. (Invited)
41. **Agouridis, C.T.** 2013. The Guy Cove Stream Restoration Project. Presentation for the Department of Civil and Environmental Engineering, Bogor Agricultural University (IPB), Bogor, Indonesia, June 11. (Invited)
42. **Agouridis, C.T.** 2013. The Guy Cove Stream Restoration Project. Presentation for Department of Geological Engineering at Middle East Technical University, Ankara, Turkey June 6. (Invited)
43. **Agouridis, C.T.** 2013. The Guy Cove Stream Restoration Project. Presentation for the General Directorate of Water Management (Ministry of Forestry and Water Affairs), Ankara, Turkey, June 5. (Invited)



44. **Agouridis, C.T.** 2013. Research Areas in BAE at Kentucky: Bioenvironmental Engineering. Presentation for the Biosystems and Agricultural Engineering Graduate Recruitment Event, January 25.
45. Gumbert, A. and C.T. Agouridis. 2012. Hot Chocolate and Cool Watershed Social. Presentation for the EPA Urban Waters Small Grant, Coldstream Stream Restoration Project, December 11.
46. **Agouridis, C.T.** 2011. Bioenvironmental Engineering. Presentation for the Biosystems and Agricultural Engineering Graduate Recruitment Event. October 21.
47. **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).
48. 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).
49. 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).
50. **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.
51. **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)
52. **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)
53. **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.
54. **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)

55. **Agouridis, C.T.** 2010. Managing the Nitrogen Cycle: Grand Challenges for Engineering. Presented to the Engineering Residential College, Lexington, KY, October 6. (Invited)
56. **Agouridis, C.T.** 2010. Environmental Restoration and Geospatial Engineering. Presented to the BAE Student Branch, Lexington, KY, September 7. (Invited).
57. **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)
58. 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)
59. **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)
60. 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)
61. 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)
62. **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)
63. 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)
64. **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.

65. **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)
66. 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)
67. **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.
68. **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.
69. 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)
70. **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.
71. **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.
72. **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.
73. 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.
74. 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.

75. 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.
76. **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.
77. 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.
78. **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.
79. **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.
80. 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.
81. 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.
82. 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.
83. 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.
84. 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.
85. 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.

86. 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.
87. 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.
88. 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.
89. **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.
90. **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.
91. **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.
92. **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.
93. **Agouridis, C.T.** 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.
94. 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.
95. **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.

96. **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.
97. **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.
98. 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.
99. 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.
100. **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.
101. 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.
102. Warner, R.C. and **C.T. Agouridis**. 2003. Starfire stormwater, erosion and sediment control experimental practices site tour for the Office of Surface Mining. Starfire Mine in Perry County, Kentucky, May 21. 35 attendees.

### **TEACHING AND ADVISING**

#### ***Graduate Student Major Advising: Completed***

1. Morgan Gerlitz. M.S. BAE. 2019. Thesis: Evaluating the influence of the Forestry Reclamation Approach on hydrology of Appalachian coal mined lands. **Finalist UK Fall 2017 Three Minute Thesis (3MT).**
2. Ashlan Clark, M.S., BAE. 2016. Thesis: Bankfull regional curves and hydraulic geometry curves for the eastern Kentucky coalfields.

3. Kameryn Wright, M.S., BAE. 2016. Thesis: Long-term effects of forestry best management practices on hydrology and water chemistry in three Appalachian headwater catchments.
4. Whitney Blackburn-Lynch. Ph.D. BAE. 2015. Development of stream restoration techniques for mined lands. Awarded **Outstanding Graduate Student Poster** at the 2015 Student Water Conference held at Oklahoma State University on March 26-27.
5. David Griffith, M.S. BAE. 2015. Characterization of two biochars derived from horse muck and their ability to reduce pathogen transport in soil.
6. Mary (Deicher) Weatherford, M.S. BAE. 2014. Influence of vegetation on the hydrologic characteristics of loose-dumped spoil.
7. Holly Enlow, M.S. BAE. 2014. Evaluating sampling strategies for rainfall simulation studies and surface transport of antibiotics from swine manure applied to fescue plots.
8. John McMaine, M.S. BAE. 2013. Hydrologic characterization of a rain garden mitigating stormwater runoff from a commercial area. Received **Outstanding Graduate Student Oral Presentation** at the 2013 Water Conference Sponsored by the National Science Foundation; held at Oklahoma State University on April 4-5, 2013. Advisor. Received **1<sup>st</sup> Place Graduate Student Poster** at the 3<sup>rd</sup> Annual TFISE Research Showcase on October 9, 2013. Awarded **Honorable Mention, Outstanding Graduate Student Oral Presentation**.
9. Jonathan Villines, M.S. BAE 2013. Use of GIS to delineate stream types in eastern Kentucky.
10. Ross Guffey, M.S. BAE 2012. Evaluating the effectiveness of weep berm systems for treating runoff from a horse muck composting operation. Co-Advisor with Dr. Richard Warner.
11. Donnie Stamper. M.S. BAE (Option B). 2012. Effect of soil sampling density and landscape characteristics on soil test phosphorus.
12. Sam Lee. 2012. M.S. C.E. Identifying hot-spots of human fecal contamination in the Royal Springs Karstshed. Co-Advisor with Dr. Gail Brion.
13. Travis Maupin, M.S. BAE. 2012. Assessment of conductivity sensor performance for monitoring mined land discharge waters and an evaluation of the hydrologic performance of the Guy Cove stream restoration project. Received **Outstanding Graduate Student Oral Presentation** at the 2012 Water Conference Sponsored by the National Science Foundation; held at Oklahoma State University on April 4-5, 2012.
14. Ruthie Brockman, M.S. BAE. 2010. Thesis: Hydraulic geometry relationships and regional curves for the Inner and Outer Bluegrass Regions of Kentucky.

15. Oakes Routt, M.S. BAE (Option B). 2009. Thesis: Determination of RUSLE parameters for mine spoils on steep, low-compacted slopes with grass cover in the Cumberland Plateau of eastern Kentucky.
16. Matthew Peake, M.S. BAE (Option B). 2009. Thesis: Streambank erosion rates for Thompson Creek.
17. Jason Maxwell, M.S. BAE (Option B). 2008. Thesis: Hydrologic and hydraulic study for Town Run in Ashland County, Ohio.
18. Timothy Taylor, M.S. BAE. 2007. Thesis: Examination of the hydrologic characteristics of the Forestry Reclamation Approach for use in a head-of-hollow fill restoration. Co-advisor with Dr. Richard Warner.

***Graduate Student Major Advising: In Progress***

1. Samuel Austen. M.S. BAE. 2019. Using stream restoration to improve hydrology and water quality in an urban watershed.
2. Jonathan Brantley. M.S. BAE. 2020.
3. Cole Crankshaw. M.S. BAE. 2020.

***Advisory Committee Member: Completed***

1. Brenton Newswanger. M.S. C.E. (Option B). 2019. Advisor: Scott Yost
2. Alexandra Jensen. M.S. BAE. 2018. High resolution sensing of nitrate dynamics in a mixed-use Appalachian watershed: Quantifying nitrate fate and transport as influenced by a backwater riparian wetland. Committee Member. Advisor: William Ford.
3. Somsubhra Chattopadhyay. Ph.D. BAE. 2017. Impact of climate change on extreme hydrological events in the Kentucky River Basin. Committee Member. Advisor: Dwayne Edwards
4. Brett Howell. M.S. EES. 2016. Spring responses to storms and seasonal variations in recharge in the Middle Atlas Region of Morocco. Committee Member. Advisor: Alan Fryar
5. Bradford Greenwell. M.S. BAE. 2016. Continuous proportional flow flocculation dosage system. Committee Member. Advisor: Richard Warner
6. Rachel Williams. M.S. BAE. 2016. Effectiveness of biochar addition in reducing concentrations of selected nutrients and bacteria in runoff. Committee Member. Advisor: Dwayne Edwards



7. Admin Husic. M.S. CE. 2015. Sediment organic carbon fate and transport in a fluviokarst watershed in the Bluegrass Region. Committee Member. Advisor: James Fox
8. Chase Clark. M.S. Forestry. 2015. The impacts of harvesting with current and modified best management practices on watershed characteristics in eastern Kentucky. Committee Member. Advisor: Christopher Barton
9. Derek Scott. M.S. BAE. 2015. Evaluation of the performance of flocculation to enhance sediment trap efficiency. Advisor: Richard Warner
10. Davis Huston. M.S. CE. 2014. Clogging of fine sediment within gravel substrates: Macro-analysis and momentum-impulse model. Advisor: James Fox
11. Nicole Koeninger, M.S. BAE. 2014. Determining soil erosion with varying corn stover cover factors. Awarded **Outstanding Graduate Student Oral Presentation** at the 2014 Student Water Conference held at Oklahoma State University on April 10-11. Advisor: Michael Montross.
12. Kenton Sena. M.S. Forestry. 2014. Influence of spoil type on afforestation success and hydrochemical function on a surface coal mine in eastern Kentucky. Advisor: Christopher Barton
13. Amanda Gumbert. Ph.D. Soil Science. 2013. Influence of riparian buffer management strategies on soil properties. Advisor: Mark Coyne
14. Hillary Otte, M.S. Forestry. 2012. Control and passive treatment of runoff from horse muck storage structures using rain gardens. Advisor: Christopher Barton
15. Christopher Reeves, M.S. Forestry. 2012. Effectiveness of improved skid trail ephemeral channel crossings. Advisor: Jeffrey Stringer
16. Catherine Hoy, M.S. Forestry. 2012. A hydrologic characterization of three headwater mountain wetlands in eastern Kentucky, USA. Advisor: Christopher Barton
17. Bakkiyalakshmi Palanisamy, Ph.D. BAE. 2010. Developmental strategies for a server based hydrologic model flood forecasting system for Kentucky. Advisor: Stephen Workman
18. Courtney Mastin. M.S. Forestry. 2010. Preliminary evaluation of stream restoration and passive treatment technologies for the improvement of water quality on a surface mine in eastern Kentucky. Advisor: Christopher Barton
19. Tracy Atkinson. M.S. BAE. 2010. Hydrologic and water quality performance of a weep berm-grass filter system for runoff from stockpiled horse muck: A preliminary study. Advisor: Richard Warner

20. Lee Moser, M.S. Forestry. 2009. Hardwood re-sprout control in hydrologically restored Carolina Bay depression wetlands. Advisor: Christopher Barton

***Advisory Committee Member: In Progress***

1. Emily Rice. Ph.D. Animal and Food Sciences. 2020. Committee Member. Advisor: Joao Costa.
2. Shishir Sarker. Ph.D. EES. 2021. Advisor: Alan Fryar
3. Elizabeth Avery. Ph.D. EES. 2021. Committee Member. Advisor: Andrea Erhardt

***Outside Examiner***

1. Zamaan Al-Shabbani. Ph.D. C.E. 2019. Improving safety performance of highway maintenance crews through pre-task safety toolbox talks. Outside Examiner. Advisor: Gabe Dadi.
2. Admin Husic. Ph.D. CE. 2018. Numerical modeling and isotope tracers to investigate karst biogeochemistry and transport processes. Outside Examiner. Advisor: James Fox
3. Mohammed Razaee. Ph.D. Mining Engineering. 2015. Sustainable disposal of coal processing waste streams. Outside Examiner. Advisor: Rick Honaker
4. William Ford. Ph.D. CE. 2014. Control of the surficial fine-grained laminae upon stream carbon and nitrogen cycles. Outside Examiner. Advisor: James Fox

***Undergraduate Student Advising: Completed***

1. Leandro (Nachie) Braga. 2018-2019. Kentucky Master Naturalist program intern.
2. American Water Works Association/World Environmental Association (AWWA/WEA) University of Kentucky Student Chapter Advisor. 2016-2019. I assisted in the development of this chapter at UK.
3. Ethan Martion, STEAM Academy. 2018. Establishing a hydrologic and water quality monitoring station at UK's tributary to Vaughn's Branch.
4. Erin Remley, Lafayette High School. 2018. Using citizen science to evaluate the success of stream restoration projects with a focus on urban watersheds. 2018. **2<sup>nd</sup> Place Award for Best Undergraduate Poster in the 7<sup>th</sup> Annual Sustainability Form.**
5. Kayla Rosko. 2017-2018. UK stormwater intern.
6. Sara Stewart. 2017-2018. UK stormwater intern.
7. Alpha Epsilon Student Branch Advisor. 2013-2017.
8. Eric Vanzant. 2016. Effect of bioretention amendment mixtures on water quality. 2016.

9. William (Zac) Hammond. 2014-2015. OSCAR development and testing: Quarter-scale in-stream trash collection system.
10. Tahnee Qualls. 2014-2015. Development of a methodology to determine antibiotic concentrations in runoff samples. Awarded **2014 Sustainability Summer Research and Creativity Fellowship** from the University of Kentucky Office of Undergraduate Research. Awarded **Outstanding Undergraduate Poster** at the 2015 Student Water Conference held at Oklahoma State University on March 26-27, 2014-2015. Awarded **Outstanding Poster Presentation** at the 2015 American Society of Agricultural and Biological Engineers Annual International Meeting on July 26-29, 2015. **1<sup>st</sup> place 2016 Oswald Research and Creativity Competition, Physical and Engineering Sciences category.** Advisor.
11. Sarah Smith. 2014-2015. Ability of laboratory procedures to predict field conditions for maximum density and saturated hydraulic conductivity. Co-Advisor with Dr. Richard Warner.
12. Rachel Norton. 2014. Hydrologic monitoring of the farm road rain garden. 2014. Advisor.
13. ASABE Student Branch Advisor. 2012-2013. Received recognition from the University of Kentucky as an **Outstanding Advisor.**
14. Mariana de Rosa, Universidade Federal de Viçosa, Brazil. 2012-2013. Assessment of weathered spoil for creation of a low-permeability barrier. Received **Outstanding Undergraduate Oral Presentation** at the 2013 American Society of Mining and Reclamation; held at Laramie, WY on June 1-7.
15. Joseph Sawyer. 2013. Geomorphic assessment of beaver impacts on a stream inhabited by the Blackside Dace.
16. Cannon Applegate. 2013. Internship with Aquatic Resources Management.
17. Paul Hafner. 2013. Internship with the Ohio Environmental Protection Agency.
18. Ivan Ribeiro, Universidade Federal de Viçosa, Brazil. 2012-2013. Review of the Brazilian grazing literature and effects of mowing regimes and native grasses on denitrification potential in an agricultural riparian zone.
19. Rachel Megill. 2013. Independent research, developed extension publication (AEN-119 Keeping trash out of streams).
20. Luane Monteiro, Universidade Federal de Viçosa, Brazil. 2012. Turbidity-total suspended solids relationships.

21. Joanna Foresman. 2012. Chellgren Scholar Undergraduate Research Experience.
22. Maísa Miranda, Universidade Federal de Viçosa, Brazil, 2011. Bioenvironmental lab experiences.
23. Marlon Souza, Universidade Federal de Viçosa, Brazil. 2011. Bioenvironmental lab experiences.
24. Seth White. 2009. Research paper on the Clean Water Act.

***Innovations at the Nexus of Food, Energy and Water Graduate Certificate***

I helped develop the Innovations at the Nexus of Food, Energy and Water (INFEWS) Graduate Certificate. This certificate is part of a National Science Foundation Research Traineeship program aimed at fully integrating research at the nexus of food, energy and water systems with professional skill development within an inclusive, multidisciplinary, and supportive academy.

***Stream and Watershed Science Graduate Certificate***

I developed the Stream and Watershed Science Graduate Certificate, which was approved by the University Senate in May 2012. The Stream and Watershed Science Graduate Certificate Program provides students with an understanding of the complex physical, biological, and social systems involved in stream and watershed related issues.

***Environmental Engineering Undergraduate Certificate***

I co-developed the Environmental Engineering Undergraduate Certificate with Dr. Kelly Pennell (Civil Engineering). The purpose of the Environmental Engineering Certificate is to offer current (and incoming) degree-seeking undergraduate students in the College of Engineering a curriculum that integrates principles of engineering, biology, and chemistry with the development of sustainable solutions to environmental problems impacting ecosystem and human health. The proposed Environmental Engineering Certificate will: 1) formalize environmental engineering training taking place across various degree programs within the College of Engineering; 2) raise visibility of environmental engineering as a discipline among students, faculty and advisors; and, 3) increase cross-departmental interaction among four departments within the College of Engineering.

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

<b>Semester</b>	<b>No. Students</b>	<b>Course Evaluation<sup>1</sup> (College Mean)</b>	<b>Teaching Evaluation<sup>1</sup> (College Mean)</b>
Spring 2019	18 out of 26	4.7	4.8
Spring 2018	22 out of 23	4.9 (4.1)	4.9 (4.2)
Spring 2017	15 out of 18	4.73 (3.99)	4.53 (4.21)
Spring 2016	25	3.5 (3.5)	3.7 (3.5)
Fall 2015 (DL) <sup>2</sup>	14	3.0 (3.2)	3.2 (3.4)
Spring 2015	24	3.9 (3.4)	3.7 (3.5)
Fall 2014 (DL) <sup>2</sup>	19	3.7 (3.4)	3.8(3.4)
Spring 2014	23	3.6 (4.0)	3.6 (4.0)
Fall 2013 (DL) <sup>2</sup>	8	--	--
Spring 2013	19	3.8 (3.5)	3.9 (3.5)
Spring 2012	24	3.4 (3.4)	3.4 (3.5)
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 <sup>3</sup>	19	3.5 (3.3)	3.4 (3.4)
Spring 2005 <sup>3</sup>	17	3.4 (3.3)	3.4 (3.4)
Spring 2004 <sup>3,4</sup>	5	3.5 (3.2)	3.5 (3.4)

<sup>1</sup>Scale: 0 to 4 2004-2016. Scale: 0 to 5 2017-present<sup>2</sup>Distance learning version (online only)<sup>3</sup>Course was listed as BAE 599: Introduction to Stream Restoration<sup>4</sup>Co-instructor (taught 50% of course)**NRE 390-002: Kentucky Master Naturalist (3 credit hours) – Developed Course**

<b>Semester</b>	<b>No. Students</b>	<b>Course Evaluation<sup>1</sup> (College Mean)</b>	<b>Teaching Evaluation<sup>1</sup> (College Mean)</b>
Fall 2018	8 of 17	4.0 (4.3)	4.0 (4.4)

<sup>1</sup>Scale: 0 to 5

Multiple guest instructors

**BAE 599-003: Capstone for Agriculture Individualized Studies – Co-Developed Course**

<b>Semester</b>	<b>No. Students</b>	<b>Course Evaluation<sup>1</sup> (College Mean)</b>	<b>Teaching Evaluation<sup>1</sup> (College Mean)</b>
Spring 2020	11	3.4/3.4 <sup>2</sup> (3.4)	3.4/3.6 <sup>2</sup> (3.5)

<sup>1</sup>Scale: 0 to 5<sup>2</sup>Co-taught with Lou Hirsch

BAE 103: Energy in Biological Systems (2 credit hours) – *Redesigned Course*

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Spring 2016	67	3.4/3.4 <sup>2</sup> (3.4)	3.4/3.6 <sup>2</sup> (3.5)
Spring 2015	60	3.3/3.3 <sup>2</sup> (3.4)	3.4/3.4 <sup>2</sup> (3.5)
Spring 2014	52	3.3/3.2 (3.3)	3.9/3.5 (3.4)
Spring 2013	42	3.3 (3.5)	3.5 (3.5)

<sup>1</sup>Scale: 0 to 4.<sup>2</sup>Two sections.BAE 599/MNG 599: Environmental Controls System Design and Reclamation (3 credit hours) – *Co-Developed Course*

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Spring 2015 <sup>3</sup>	18	2.7/3.3 <sup>2</sup> (3.4)	3.3/3.2 <sup>2</sup> (3.5)

<sup>1</sup>Scale: 0 to 4.<sup>2</sup>Two sections.<sup>3</sup>Co-taught with Richard WarnerBAE 535/MNG 564: Environmental Controls System Design and Reclamation (3 credit hours) - *Co-Developed Course*

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Spring 2017 <sup>3</sup>	5 out of 5	4.00 (3.99)	4.40 (4.21)

<sup>1</sup>Scale: 0 to 4 2004-2016. Scale: 0 to 5 2017-present.<sup>2</sup>Two sections.<sup>3</sup>Co-taught with Richard WarnerBAE 750: Low Impact Development (3 credit hours) - *Developed Course*

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Fall 2014	4	--	--
Fall 2013	4	--	--
Fall 2012	5	--	--

<sup>1</sup>Scale: 0 to 4.AEN 103: Basic Principles of Surveying (2 credit hours) - *Redesigned Course*

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Fall 2002	16	3.0 (3.3)	3.3 (3.4)
Fall 2001	18	2.5 (3.3)	2.4 (3.5)

<sup>1</sup>Scale: 0 to 4.

## EXP 396: Engaging Girls in STEM (1 or 2 credit hours)

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Spring 2018	10 out of 18	4.6 (4.4)	4.9 (4.6)

<sup>1</sup>Scale: 0 to 5.<sup>2</sup>Co-taught with Ellen Crocker

## EXP 650: Engaging Girls in STEM (1 or 2 credit hours)

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Spring 2018	3 out of 3	--	--

<sup>1</sup>Scale: 0 to 5.<sup>2</sup>Co-taught with Ellen Crocker**Greenhouse-Related Courses**UK 100 Pathways and Barriers to Sustainability (2 credit hours) – *Co-Developed Course*

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Fall 2015 <sup>3</sup>	35	3.6 (3.2)	3.4 (3.4)

<sup>1</sup>Scale: 0 to 4.<sup>2</sup>Three sections.<sup>3</sup>Co-taught with Co-Directors: Mary Arthur, Shannon Bell, and Alan FryarA&S 100 Pathways and Barriers to Sustainability (2 credit hours) - *Co-Developed Course*

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Fall 2014 <sup>3</sup>	59	3.1 (3.4) <sup>2</sup>	3.6 (3.4) <sup>2</sup>

<sup>1</sup>Scale: 0 to 4.<sup>2</sup>Four sections.<sup>3</sup>Co-taught with Co-Directors: Mary Arthur, Shannon Bell, and Alan FryarA&S 100 The Sustainability Challenge (1 credit hour) - *Developed Course*

Semester	No. Students	Course Evaluation <sup>1</sup> (College Mean)	Teaching Evaluation <sup>1</sup> (College Mean)
Spring 2016	6	--	--
Spring 2015	14	3.3 (3.2)	4.0 (3.3)

<sup>1</sup>Scale: 0 to 4.

1. Substitute instructor (2 months) for GEN 100-009 Issues in Agriculture, Food and Environment, Fall 2019, 22 students.
2. Advisor for Alpha Epsilon Omega Chapter, **Most Outstanding Chapter** and **Most Improved Chapter** at ASABE 2016 AIM.

3. Advisor for BAE 402/403 Bioenvironmental Senior Design Team, Development of a Bioretention Media Test Facility. Fall 2016 and Spring 2017, 4 students. **3<sup>rd</sup> Place Finish in the ASABE 2016 G.B. Gunlogson Student Environmental Design Competition.**
4. Advisor for BAE 402/403 Bioenvironmental Senior Design Team, Lakeview Estates Lake Association (LELA) Management Plan, Spring and Fall 2016, 5 students.
5. Instructor for BAE 750: Developing Cooperative Extension Publications, Fall 2015, 1 student.
6. Advisor for BAE 402/403 Bioenvironmental Senior Design Teams, 1) Development of a Flocculant Delivery System to Control Pollutants in Gluck Pond, and 2) Development of a Hand-Held Hyporheic Gas Sampler. **Recipients of UK College of Engineering Senior Capstone Funding Award (\$250 each team)**, Fall 2015 and Spring 2016, 8 students. Development of a Hand-Held Hyporheic Gas Sampler received **1<sup>st</sup> Place Finish in the ASABE 2016 G.B. Gunlogson Student Environmental Design Competition.**
7. Advisor for BAE 402/403 Bioenvironmental Senior Design Team, Design and Construction of Treatment and Stormwater Wetlands at the Wendell H. Ford Regional Training Center, Fall 2014 and Spring 2015, 3 students
8. Advisor for BAE 402/403 Bioenvironmental Senior Design Teams, 1) An Interactive Lot-Scale Stormwater Model and Lesson Plans for Grades 3-5, and 2) Design and Construction of Koi Ponds and Spindletop Hall, Fall 2013 and Spring 2014, 6 students. **Recipients of UK College of Engineering Senior Capstone Funding Award (\$250 each team).**
9. Advisor for BAE 402/403 Bioenvironmental Senior Design Team, Instream Trash Collection System for Lexmark Park, Fall 2012 and Spring 2013, 2 students. **3<sup>rd</sup> Place Finish in the ASABE 2013 G.B. Gunlogson Student Environmental Design Competition.**
10. Advisor for BAE 402/403 Bioenvironmental Senior Design Team, Stormwater Management at the Kentucky Horse Park, Fall 2011 and Spring 2012, 4 students. **2<sup>nd</sup> Place Finish in the ASABE 2012 G.B. Gunlogson Student Environmental Design Competition.**
11. Instructor for Envirothon Low-Impact Development sections, Spring 2011, 87 students and 7 coaches.
12. Advisor for BAE 402/403 Bioenvironmental Senior Design Team, Geographical Information Receiver Apparatus for Field Evaluation (GIRAFFE), Fall 2010 and Spring 2011, 5 students
13. Instructor for Stream Restoration Assessment Outdoor Laboratory for Community Montessori School/Montessori Middle School of Kentucky, Spring 2011, 60 students
14. Instructor for Stream Restoration Assessment Outdoor Laboratory for Community Montessori School/Montessori Middle School of Kentucky, Spring 2009, 30 students



15. Instructor for BAE 750: Stream Restoration Assessment, Fall 2008, 1 student
16. Instructor for Stream Restoration Section of NRC 320: Data Collection Techniques, 2004 – 2008, 2010-2014, 2018
17. Instructor for Stream Restoration Assessment Outdoor Laboratory for Community Montessori School/Montessori Middle School of Kentucky, Spring 2008, 60 students
18. Instructor for BAE 750: Hydrologic Modeling, Fall 2007, 1 student
19. Instructor for Stream Restoration Assessment Outdoor Laboratory for Community Montessori School/Montessori Middle School of Kentucky, Spring 2007, 60 students
20. Co-instructor for short course AutoCAD Use for Stream Monitoring and Restoration, Spring 2005, short course, 7 students

***Guest Lectures***

1. NRE 320 Natural Resource and Environmental Analysis. 2020. Stream assessment and restoration, May 22.
2. FOR 460 Forest Hydrology & Watershed Management. 2019. Stormwater. What's happening on campus? December 3.
3. ENS 300/EES 480 Global water issues. 2019. Stormwater. What's happening on campus? February 28 and April 12.
4. HON 152 Restoration ecology in the Commonwealth. 2019. Protecting and restoring Kentucky's ecosystems: What's happening on campus?, March 1, 10 students.
5. GEN 100. University of Kentucky Stream Restoration Project, Fall 2018, 15 sections, 360 students.
6. HON 152 Restoration ecology in the Commonwealth. 2018. UT to Vaughn's Branch stream restoration project, September 22, 10 students.
7. GEN 100 CAFE Perspectives Panel Series, Fall 2018, Land Use, September 12.
8. GEN 100. University of Kentucky Stream Restoration Project, Spring 2018, 6 sections, 144 students.
9. STEMcats, Construction: Landscapes to Cityscapes, Managing Ecosystems, Fall 2017, 150 students.
10. GEN 100 Expert Speaker Series. Restoring Vaughn's Branch at UK, Fall 2017, 20 students.

11. GEN 100 REO Series: Water. Watershed Protection, Fall 2017, 75 students.
12. NRE 390 Environmental Education & Communication, Fall 2016, 25 students.
13. STEMcats, Ecosystem Restoration, Fall 2016, 280 students.
14. GEN 200 Issues in Agriculture: Contemporary Problems in Agriculture and Natural Resources, Spring 2013, 10 students
15. 1 month for AEN 536 Fluvial Hydraulics (est. 10 students), Fall 2012
16. EGR 199 Topics in Engineering: Engineering Futures, Biosystems and Agricultural Engineering, Spring 2011, 150 students; Fall 2013, 100 students.
17. BAE 400 Senior Seminar: Becoming a Professional Engineer, Spring 2010-2012, ~10 students each year.
18. BAE 437 Land and Water Resource Engineering, Topic: Channel Stabilization and Restoration, Spring 2010-2011.
19. BAE 102 Introduction to Biosystems Engineering, Topic: Bioenvironmental Engineering, Regional Curves and Discharge Measurements, Spring 2010, 60 students
20. Deming Middle School in Robertson County, Topic: Surface and Groundwater Hydrology as Related to Ponds, Spring 2009
21. NRC 471 Senior Problems in Natural Resources, Stream Restoration, Spring 2006, 18 students
22. BAE 536 Fluvial Hydraulics (est. 10 students) and AEN 343 Fluid Mechanics of Biosystems (est. 10 students), Fall 2004

### ***Instruction Training***

1. University of Kentucky Faculty Fellows: Cohort 6, August 2016-May 2017.
2. Kentucky Association for Environmental Education Facilitator (Project Learning Tree, Project WET, Project Wild, Project Underground, and Project Leopold), 2016.
3. University of Kentucky eLearning Innovation Initiative (eLII) Faculty Skill Development: Community 1 (Online Learning), Cohort 1.5, September 2014-August 2015.
4. College of Agriculture 2012-2013 Faculty Learning Community focused on Student Engagement Techniques.

5. College of Agriculture 2011 Spring Teaching Seminar on Distance Learning, May 11
6. Preparing Future Faculty: Graduate School 650, 2001
7. College Teaching: Graduate School 610, 2001

### ***Service-Learning Projects***

1. Design and installation of alternative goose management strategies for Gluck Pond. I am working with the University of Kentucky Horticulture Club and Grounds personnel to install 7,000 native plants at Gluck Pond to deter geese from loitering around and in the pond. The Horticulture Club grew the plants, and I am helping with volunteer organization for planting and mulching.
2. Restoration of about 300 ft of intermittent stream at the University of Kentucky Ecological Education and Research Center (EREC). Students in BAE 532/CE 542 (Spring 2010) developed preliminary design. I worked with the contractors (Ridgewater/EcoGro) on the final designs. I applied for and secured all permits (federal, state, and local).
3. Restoration of about 55 ft of riparian buffer, creation of a vernal wetland (~1,500 ft<sup>2</sup>), and native prairie restoration (~2 ac) at the University of Kentucky Spindletop Farm as part of UK's Water Week (Fall 2015). I developed the design with Dr. Chris Barton, applied for the permits, and led the construction of the vernal wetland. Approximately 200 8<sup>th</sup> grade students from Leestown Middle School help plant the riparian zone and vernal wetland.
4. Creation of about 3,000 ft<sup>2</sup> of butterfly gardens on the University of Kentucky campus. Students in UK 100 (Fall 2015), as part of Greenhouse, helped install six butterfly gardens. The butterfly gardens are located at Slone Research Building, Erikson Hall, T.P. Cooper Building, Agricultural Science North (Lextran Bus Stop), UK Healthcare, and C.E. Barnhart Building. I worked with two undergraduate students (Coleman Stivers and Adam Garner) and one technical staff (Tyler Sanderson) to design and prepare the gardens.
5. Restoration of about 900 ft of intermittent stream at the University of Kentucky Spindletop Farm. Students in BAE 532/CE 542 (Spring 2010) developed preliminary design. I completed the design, applied for the permits, and organized the construction. Graduate students assisted contractor with construction. Graduate and undergraduate students collect monitoring data; help me with analysis and development of monitoring reports.
6. Restoration of about 1,800 ft of perennial stream at the Kentucky Horse Park. Students in BAE 532/CE 542 (Spring 2013) developed preliminary design. I completed the design, applied for the permits, and am helping organize the construction. Graduate and undergraduate students assisted with construction (Fall 2013), collect monitoring data, analysis of data, and development of monitoring reports.

7. Design and construction of a rain garden (~7,500 ft<sup>2</sup>) on the University of Kentucky College of Food, Agriculture and Environment Campus. Students in BAE 750 Low-Impact Development created preliminary design. I completed the design in collaboration with the Landscape Architecture department. I helped organize the construction and monitoring with assistance from graduate and undergraduate students.
8. Design of a rain garden and stormwater wetland for The Learning Center. Students in BAE 750 Low-Impact Development created preliminary design. The students and I met with representatives from The Learning Center to discuss the design and assist them in identifying grant funding for the project.
9. Design and construction of a quarter-scale instream trash collection system for Lexmark International. A prototype was developed by the 2012-2013 senior capstone design team. A quarter-scale version was designed, constructed and tested in the Biosystems and Agricultural Engineering Hydraulics Laboratory as part of an individual special problems course. Results of the project will assist Lexmark in developing a proposal for the LFUCG Stormwater Incentives Grant program.

#### **STREAM RESTORATION TRAINING**

1. **EcoStream Conference.** 2016. North Carolina State University, Asheville, NC, August 22-25.
2. **Stream Restoration – In-Channel Structure Design and Placement.** 2015. American Society of Civil Engineers Webinar, December 28. (1 PDH)
3. **Stream Restoration: What Works and What Doesn't Work.** 2015. American Society of Civil Engineers Webinar, December 28. (1 PDH)
4. **Stream Restoration and Bioengineered Bank Stabilization – Fundamental Concepts.** 2015. American Society of Civil Engineers Webinar, December 1. (1 PDH)
5. **Stream Restoration in Large and Small Channels.** 2015. American Society of Civil Engineers Webinar, December 1. (1 PDH)
6. **Stream Restoration in the Southeast: Innovations for Ecology.** 2012. Wilmington, NC, October 15-18.
7. **River Course 521: Mountain Restoration Tour and Evaluation.** 2012. North Carolina State University Stream Restoration Institute, Boone, NC
8. **HEC-RAS and HEC-GeoRAS for River Restoration Professionals.** 2011. Frankfort, Kentucky, December 13-15, 2011.
9. **Stream Restoration in the Southeast: Connecting Communities with Ecosystems.** 2010. Raleigh, NC, November 15-18, 2006.

10. **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.
11. **River Restoration and Natural Channel Design (Level IV).** Wildland Hydrology, Breckenridge, CO and Steamboat Springs, CO, May 15-24, 2007.
12. **Current National Sedimentation Laboratory Research in Support of Stream Restoration.** Oxford, MS, October 24-26, 2006.
13. **Stream Restoration in the Southeast: Accomplishments and Opportunities.** 2006. Charlotte, NC, October 2-5, 2006.
14. **River Assessment and Monitoring (Level III).** Wildland Hydrology, Lubrecht Forest, MT, July 31-August 10, 2006.
15. **River Morphology and Applications (Level II).** Wildland Hydrology. National Conservation Training Center, Shepherdstown, WV, May 8-12, 2006.
16. **Stream Restoration Construction Training.** North Carolina State University Stream Restoration Institute, Brevard, NC, May 23-25, 2006.
17. **River Restoration from the Perspective of Ecohydrology and Ecohydraulics.** Workshop at ASAE Self-Sustaining Solutions for Streams, Wetlands, and Watersheds. September 12, 2004.
18. **Ecological Engineering and Ecological Restoration.** Workshop at ASAE Self-Sustaining Solutions for Streams, Wetlands, and Watersheds. September 12, 2004.
19. **Geomorphic and Numerical Analysis of Unstable Channels and Streambank Processes.** Workshop at ASAE Self-Sustaining Solutions for Streams, Wetlands, and Watersheds. September 15, 2004.
20. **Fluvial Geomorphology for Engineers (Level I).** Wildland Hydrology. Pagosa Springs, Colorado. June 1-10, 2004.
21. **AutoCAD Use for Stream Restoration and Monitoring.** North Carolina State University. Raleigh, North Carolina. May 7, 10 and 14, 2004.
22. **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.

23. **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.
24. **Ph.D. Dissertation Research Project.** " Cattle Production Practices in a Small Grazed Watershed of Central Kentucky." University of Kentucky, Summer 2004.
25. **Review of Stream Restoration Chapter.** Chapter written by Steve Workman included in 5th edition of *Soil and Water Conservation Engineering*. April 2003.
26. **Senior Design Team Consultant.** Provided consultation to two senior design teams on their urban stream restoration projects. University of Kentucky, Spring Semester 2003.

#### **STORMWATER TRAINING**

1. **Post-Construction Stormwater Management.** 2017. Lexington-Fayette Urban County Government. February 10. (6 PDH).
2. **Sustainable Water Reuse & Recycling.** 2016. American Society of Civil Engineers Webinar. December 27. (1 PDH)
3. **An Introduction to HEC-HMS.** 2016. American Society of Civil Engineers Webinar. December 27. (1 PDH)
4. **Runoff Analysis Using WinTR-55.** 2016. American Society of Civil Engineers Webinar. December 27. (1 PDH)
5. **Creating Design Storms for Rainfall-Runoff Models.** 2016. American Society of Civil Engineers Webinar. December 23. (1 PDH)
6. **Green Roof Professional (GRP) Accreditation Training.** 2016. HeatSpring. July-September. (10-week online course)
7. **Stormwater Constructed Wetland Design.** 2015. American Society of Civil Engineers Webinar, December 28. (1 PDH)
8. **Wetland Restoration Institute.** Sheltoewe Environmental Training Coalition (SEEC), Salt Lick, KY, September 25-30, 2011. (59 PDHs)
9. **Permeable Pavement: Design, Construction & Maintenance.** Forester University, Webinar, September 22, 2011. (1 PDH)

**CONTINUING PROFESSIONAL DEVELOPMENT**

1. **Time Management: A Roles and Goals Approach to Life Balance.** 2016. American Society of Civil Engineers Webinar. December 22. (1 PDH)
2. **Academic Leadership – A Systems Approach.** 2016. American Society of Agricultural and Biological Engineers, July 17, 2016. (4 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)

**AWARDS AND HONORS**

- Lexington-Fayette Urban County Government 2019 Environmental Commission Award, Kentucky Master Naturalist program
- Kentucky Association for Environmental Education 2019 M.K. Dickerson Award for Excellence in EE
- American Society of Biosystems and Agricultural Engineers 2019 Educational Aids Blue Ribbon Award, Electronic & Web-based Delivery Category, Backyard Streams
- Kentucky Association for Environmental Education, 2018 KAEE Excellence in EE Outstanding K-12 School of the Year, Cassidy Elementary
- Semifinalist in Kentucky Living's Beautify the Bluegrass project for UK's Pollinator Gardens
- American Society of Biosystems and Agricultural Engineers 2018 Educational Aids Blue Ribbon Award, Publications-Short Category, Tire Tank for Watering Livestock
- American Society of Biosystems and Agricultural Engineers 2017 Educational Aids Blue Ribbon Award, Publications-Short Category, Sediment Fingerprinting
- Nominated for the 2017 University of Kentucky Ken Freedman Outstanding Faculty Advisor
- American Society of Biosystems and Agricultural Engineers 2016 Standards Development Award for ASAE S526.4 SEP2015, Soil and Water Terminology
- University of Kentucky Women in Executive Leadership Development (WELD) program 2016
- University of Kentucky, College of Education, 2016 Teacher Who Made a Difference (3 separate nominations by students)
- Nominated for the 2016 University of Kentucky Ken Freedman Outstanding Faculty Advisor
- University of Kentucky Gamma Sigma Delta 2015 Master Teacher Award
- American Society of Biosystems and Agricultural Engineers 2014 A.W. Farrall Young Educator Award

- American Society of Biosystems and Agricultural Engineers 2014 Educational Aids Blue Ribbon Award, Publications-Short Category, Managing Stormwater Using Low Impact Development (LID) Techniques
- American Society of Biosystems and Agricultural Engineers Outstanding Reviewer for 2012 Publication Year, Biological Engineering Division
- United States Department of Interior's 2012 Secretary's Partner's in Conservation Award to ARRI Core and Academic Teams (member of the Academic Team)
- 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 Interior 2011 Presidential Migratory Bird Federal Stewardship Award to ARRI Core and Academic Teams (member of the Academic Team)
- 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 2003 Educational Aids Blue Ribbon Award for Web Pages, 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

### **PROFESSIONAL ORGANIZATION AFFILIATIONS**

- Order of the Engineer (active member)
- Alpha Epsilon Kentucky Omega Chapter (active member)
- American Society for Engineering Education (inactive member)
- American Society of Biological and Agricultural Engineers (active member)
- American Society of Civil Engineers (inactive member)
- American Society of Mining and Reclamation (inactive member)
- American Society of Water Resources (inactive member)
- Appalachian Regional Reforestation Initiative (active member)
- Association for Women Geoscientists (inactive member)
- Kentucky Association of Environmental Education (active member)
- Pi Alpha Alpha, the National Honor Society for Public Affairs and Administration (inactive member)

### **SERVICE**

#### ***Associate Editor***

- Transactions of the ASABE (2015-2017)

#### ***Manuscript Review***

- Agricultural Water Management
- Agroforestry Systems
- American Society of Mining and Reclamation
- Applied Engineering in Agriculture
- Biological Engineering Transactions
- Canadian Journal of Soil Science
- Computers and Electronics in Agriculture
- Ecological Engineering
- Environmental Management
- Forest Science
- Hydrological Processes
- International Journal of Mining, Reclamation and Environment
- Journal of Environmental Management
- Journal of Environmental Quality

- Journal of Forestry
- Journal of Hydrology: Regional Studies
- Journal of the American Water Resources Association
- Journal of the American Society of Mining and Reclamation
- Journal of Soil and Water Conservation
- Natural and Environmental Sciences (Editorial Team)
- New Zealand Veterinary Journal
- Society of Mining, Metallurgy, and Exploration, Inc.
- Transactions of the ASABE
- Transactions in GIS
- Water (formerly part of Editorial Team)

***Proposal Review***

- Chesapeake Bay Trust
- Exploring Water in India and Kentucky
- USDA AFRI Agricultural Engineering Program
- Agriculture and Agri-Food Canada Science and Technology Branch
- U.S. Geological Survey and National Institutes for Water Resources National Competitive Grants
- Conference of Southern Graduate Schools
- National Science Foundation
- University of Kentucky Tracy Farmer Institute for Sustainability and the Environment, Karri Casner Environmental Sciences Fellowship
- 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 (WRI) of the University of North Carolina

***Advisory Council***

- UT Biosystems Engineering (BsE) Program Advisory Council (PAC), 2013-2018.

***Non-Profit Organizations***

- ASABE Foundation
  - Trustee, 2016-2018
- Green Forests Work
  - Board of Directors, 2016-2018
  - Treasurer, 2016-2018
- Kentucky Association for Environmental Education
  - Board of Directors, 2017-2019
- National Academies of Science, Engineering, and Medicine
  - Committee for Earth Resources, 2018-2021

**Committees**Professional Society

- NRES Executive and Steering Chair, American Society of Agricultural and Biological Engineers, 2018-2019
- NRES Program Chair, American Society of Agricultural and Biological Engineers, 2017-2018
- Nominating Committee, American Society of Agricultural and Biological Engineers (ASABE), Natural Resources & Environmental Systems Technical Committee, 2017-2019.
- Trustee, American Society of Agricultural and Biological Engineers (ASABE) Foundation Board, 2016-2018, 2018-2020
- Vice-Chair of Awards for the Kentucky Section of the American Society of Agricultural and Biological Engineers (ASABE), 2015-2017
- Chair of American Society of Agricultural and Biological Engineers (ASABE) committee E-07 Issues Management and Social Action, 2016-2017
- Vice-Chair of American Society of Agricultural and Biological Engineers (ASABE) committee E-07 Issues Management and Social Action, 2015-2016
- Secretary of American Society of Agricultural and Biological Engineers (ASABE) committee E-07 Issues Management and Social Action, 2014-2015
- Member E-07 Issues Management and Social Action, American Society of Agricultural and Biological Engineers (ASABE), 2013-2014
- Chair of American Society of Agricultural and Biological Engineers (ASABE) committee M-115 Young Educator (A.W. Farrall), 2016-2017
- Chair-Elect of American Society of Agricultural and Biological Engineers (ASABE) committee M-115 Young Educator (A.W. Farrall), 2015-2016
- Member of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-01 Executive, 2014-2016
- Secretary (Program Chair Elect) of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-02 Steering, 2016-2017
- Member of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-02 Steering, 2013-2016
- Member of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-04 Program, 2015-2016
- Associate Editor and Member of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-05 Publications Review, 2015-2018
- Member of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-06 Paper Awards, 2013-2014
- Chair of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-07 Nomenclature, 2015-2017
- Vice-Chair of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-07 Nomenclature, 2014-2015

- Member of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-07 Nomenclature, 2013-2014
- Member of American Society of Agricultural and Biological Engineers (ASABE) committee, NRES-09 Environmental Quality Coordinating, 2015-2016
- Member of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-21 Hydrology, 2012-2017
- Chair of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-25 Streams, Reservoirs, and Wetlands, 2015-2017
- Vice-Chair of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-25 Streams, Reservoirs, and Wetlands, 2013-2015
- Chair of American Society of Agricultural and Biological Engineers (ASABE) committee SW-252 Geomorphology, Streambank Stability, and In-Stream Processes, 2011-2012
- Member of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-26 Sustainable Land Resources, 2012-2017
- Member of American Society of Agricultural and Biological Engineers (ASABE) committee NRES-28 Ecological Engineering, 2015-2018

#### University

- University of Kentucky, Women’s Executive Leadership Development (WELD) Program Advisory Board, 2018-2021.
- University of Kentucky Senate, 2016-2019.
- Lead for Water Systems Working Group, Tracy Farmer Institute for Sustainability and the Environment, 2016-present
- MS4 Stormwater Stakeholders Advisory Committee, 2016-present.
- Paducah Junior College (PJC) Engineering Professional Selection Committee, Chair, 2018.
- Scientific Advisory Board member for the Tracy Farmer Center for the Environment: 2006-2008

#### College

- University of Kentucky, College of Agriculture, Food and Environment Appointment, Promotion, and Tenure Committee, 2018-2020.
- University of Kentucky, College of Agriculture, Food and Environment Faculty Council Member, 2017-2019
- University of Kentucky, Department of Forestry Program Review (Bachelor’s Degree in Forestry, Master’s Degree in Forestry, Forestry Research, and Forestry Extension), 2015
- Member of Charles E. Barnhart Fund for Excellence Award Committee, 2013-2015
- Member of the Department of Landscape Architecture Faculty Search Committee, 2012-2013
- Steering Committee for the BS Program in Natural Resources and Environmental Science (NRES) in the College of Agriculture, 2012-2015
- Member of the Forestry Department Stream and Riparian Ecology Faculty Search Committee, 2011-2012
- Steering Committee of the Environment and Natural Resources Initiative

- Member of Natural Resource Initiative Planning Committee, College of Agriculture, University of Kentucky, 2007
- Member of Distinguished Lecture Series on Natural Resource Conservation at University of Kentucky: Environmental Systems 600, 2001-2002

#### Departmental

- Member Department of Biosystems and Agricultural Engineering Academic Showcase Planning Committee, 2018-2019
- Member of the Department of Biosystems and Agricultural Engineering Chair Search Committee, 2017
- Chair of Department of Biosystems and Agricultural Engineering Research and Graduate Studies Committee, 2013-present
- Member of Department of Biosystems and Agricultural Engineering Research and Graduate Studies Committee, 2011-2013
- Chair of Department of Biosystems and Agricultural Engineering Social Committee, 2014-2018
- Chair of Department of Biosystems and Agricultural Engineering Student Recruitment and Outreach Committee, 2010-2011
- Member of Department of Biosystems and Agricultural Engineering Student Recruitment and Outreach Committee, 2013-2015
- Chair of Department of Biosystems and Agricultural Engineering Food Engineer Search Committee, 2013-2014
- Member of Department of Biosystems and Agricultural Engineering Seminar Committee, 2011-2013
- 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 Undergraduate and Curriculum Course Committee, 2011-2013
- Member of Department of Biosystems and Agricultural Engineering Undergraduate Curriculum and Course Committee, 2010-2011
- Member of Department of Biosystems and Agricultural Engineering Larry W. Turner Young Extension Professional Award Fundraising Committee
- Chair of Department of Biosystems and Agricultural Engineering Alumni and Development Committee, 2007-2008
- Member of Department of Biosystems and Agricultural Engineering Alumni and Development Committee, 2009-2010
- Member of College of Agriculture Strategic Plan Committee at the University of Kentucky, 2003-2004
- Member of 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
- Co-Chair Graduate Student Committee for University of Kentucky Biosystems and Agricultural Engineering Departmental Retreat, 2001
- Member of Graduate Student Selection Committee for University of Kentucky Biosystems and Agricultural Engineering Department, 2000-2001
- Member of Computer Committee for University of Kentucky Biosystems and Agricultural Engineering Department, 2001-2003
- Member of Research Committee for University of Kentucky Biosystems and Agricultural Engineering Department, 2001-2003
- Member of Social Committee for University of Kentucky Biosystems and Agricultural Engineering Department, 2002-2003

### Regional

- Partner for 2014, 2016, and 2108 Southeast Stream Restoration Conferences, *EcoStream*
- Member of Wetlands Working Group (sponsored by Kentucky Department for Natural Resources, led by Deputy Commissioner Larry Arnett), 2008-2009
- 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 Conference Steering Committee for the 2007 Mid-Atlantic Stream Restoration Conference, Cumberland, MD, November 6-8
- Partner for 2006 Stream Restoration in the Southeast: Accomplishments and Opportunities Conference, Charlotte, NC, October 2-5

### **Other Service**

- Judge for Environmental Services/Natural Resource Systems at the 2016 State FFA Agriscience Fair, Lexington, KY, June 8
- Faculty Panelist for the 2016 University of Kentucky Engineering Girl Day, February 26.
- Lead Organizer, 2018 5<sup>th</sup> Annual Water Week, University of Kentucky, Tracy Farmer Institute for Sustainability and the Environment, October 15-19
- Lead Organizer, 2017 4<sup>th</sup> Annual Water Week, University of Kentucky, Tracy Farmer Institute for Sustainability and the Environment, October 7-13
- Lead Organizer, 2016 3<sup>rd</sup> Annual Water Week, University of Kentucky, Tracy Farmer Institute for Sustainability and the Environment, October 10-14
- Lead Organizer, 2015 2<sup>nd</sup> Annual Water Week, University of Kentucky, Tracy Farmer Institute for Sustainability and the Environment, October 19-23
- ASABE Social Media Champion, 2014
- Co-Organizer, 2014 1<sup>st</sup> Annual Water Week, University of Kentucky, Tracy Farmer Institute for Sustainability and the Environment, September 15-19
  - Lead Photo Contest and Scavenger Hunt
- Co-Organizer, 2014 K Week Event, College of Agriculture, Food and Environment Environmental Programs, August 26

- Advisor for BAE Connections, the Biosystems and Agricultural Engineering departmental newsletter, 2013-2015
- Panelist for the University of Kentucky Landscape Architecture Design Week 2014, ‘Live and Learn Outdoors’, September 10
- Judge for Bioethics Essay Contest at 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16
- Moderator Session 309 Environmental Considerations of Resource Extraction at 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16
- Co-Moderator Session 335 Geomorphology, Streambank Stability, and In-stream Processes at 2014 ASABE and CSBE/SCGAB Annual International Meeting, Montreal, Quebec Canada, July 13-16
- Judge for Environmental Services/Natural Resource Systems at the 2014 State FFA Agriscience Fair, Lexington, KY, June 11
- Organizer and Design Participant for the Coldstream EPA Consent Decree Project, Vegetation Design Charrette, March 13, 2014
- Panelist for 2014 Green Greek Panel on Sustainability, University of Kentucky, March 12
- Reviewer for the University of Kentucky Oswald Research and Creativity Program, 2013
- Managed BAE departmental booth at UK Sustainability Showcase Big Blue Goes Green at UK Student Center, October 9, 2013.
- BAE XStream Team hosted a booth at the Lexington-Fayette Urban County Government H2O Expo at Jacobson Park, Lexington, KY, August 10, 2013
- Hosted the Monitoring Training for MS4s with the Kentucky Division of Water, Lexington, KY, August 1, 2013
- Moderator Session 236 Geomorphology, Streambank Stability, and In-stream Processes at the American Society of Agricultural and Biological Engineers Annual International Meeting in Kansas City, MO, July 21-24, 2013
- Study participant for University of Kentucky College of Agriculture, Department of Community and Leadership Development, Defining the Act of Effective College Teaching grant, 2013
- Developed University of Kentucky, BAE Ecosystem Restoration booth for Stream Restoration in the Southeast: Innovations for Ecology conference in Wilmington, NC, October 15-18, 2012
- 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 and Kentucky Division of Water)
- 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

## **MEDIA COVERAGE**

### ***National/International***

#### **Al Jazeera (English), Earthrise**

- *Mountaintop Renewal: Restoring Forests in the Mine-Blasted Appalachian Mountaintops of Eastern Kentucky*, October 2, 2013.  
<http://www.aljazeera.com/programmes/earthrise/2013/09/mountaintop-renewal-2013927154944723475.html>

### MidAmerica Farmer Grower

- *KYH2O podcast entertaining way to learn about water resources.* March 2019.  
<http://www.mafg.net/NewsDetail.aspx?NewsID=6728>

### Popular Mechanics

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