

Jennifer Louise Bouldin

jbouldin@astate.edu

Current Position

Position Title:

Current Academic Rank: Associate Professor

Rank Since: Fall 2012

Degrees

Ph D	Environmental Sciences: Aquatic toxicology, Arkansas State University, Jonesboro, AR 2004 Dissertation: INTERACTION OF AGRICULTURAL RUNOFF WITH VEGETATED AQUATIC
BS	Medical Technology: , University of AR for Medical Sciences, Little Rock, AR 1977

Scholarly Contributions and Creative Productions

Chapters

Accepted

Bouldin, J., & Wilkie, J. (2009). Get land priorities in order. Using aerial photography and GIS can help cities and towns focus on areas with the most potential for recreation and conservation purposes. In Ken Wasson (Ed.), (pp. 38-39). North Little Rock, AR: Don Zimmerman.

Grants

Bouldin, J., & Warby, R. (2011). Cache River Watershed Monitoring. Arkansas Natural Resources Commission - 465652.

Bouldin, J., Brueggen, T.R., & Warby, R. (2011). Continued Investigation of Land Use and Best Management Practices on. US Geological Society - 47954.

Bouldin, J., Justus, B., Marsico, T., Warby, R., & Wise, J. (2011). Identification of Biological Methods for Evaluating Wetland Water Quality Conditions in Arkansas. United States Environmental Protection Agency - 317661.

Bouldin, J., Marsico, T.D., Warby, R., Justus, B.G., & Wise, J.A. (2011). Identification of Biological Methods for Evaluating Wetland Water-Quality Conditions in Arkansas. US EPA - 317661.

Teague, T.G., Shumway, C.R., & Bouldin, J. (2011). Integrating Soil, Crop and Pest Monitoring Using Spatial Technology on Arkansas Cotton Farms to Achieve Nutrient Loss Reduction. USDA - 184214.

Bouldin, J., Teague, T.G., & Reba, M. (2011). Little River Ditches Nutrient Loss Reduction Project - MRBI. USDA NRCS CCPI - 53000.

Bouldin, J., Teague, T.G., Reba, M., & Warby, R. (2011). Little River Ditches Watershed Monitoring. Arkansas Natural Resources Commission - 222928.

Bouldin, J., Teague, T.G., & Reba, M. (2011). Lower St. Francis River Nutrient Loss Reduction - MRBI. USDA NRCS CCPI - 53000.

Ahn, S., Kennedy, D., Choi, S., & Bouldin, J. (2011). on Prevalence and Characterization of Shiga toxin-producing E. coli (STEC) from Cattle Farms in Arkansas Delta Region. USDA-NIFA - 149571.

Bouldin, J., & Warby, R. (2011). Sustainable cotton production ► Water, sediment, and soil quality of best management practices. Cotton, Inc. - 10000.

Warby, R., Bouldin, J., & Choate, J.C. (2011). Sustainable cotton production ► Water, sediment, and soil quality of best management practices: A trace metal perspective.. Judd Hill Foundation. - 5566.

Bouldin, J., & Warby, R. (2011). Water Quality Monitoring on Larkin Creek Lateral 1-A, St. Francis County, AR - Phase II. Arkansas Natural Resources Commission - 199017.

Bouldin, J., & Warby, R. (2010). Acquisition of a GC/MS to Facilitate Interdisciplinary Ecotoxicological and Analytical Research and Teaching at Arkansas State University. NSF - 296917.

Bouldin, J. (2010). Assessment of water quality and stream bank stability following BMP implementation on the upper Strawberry River watershed. US Geological Society - 66000.

Teague, T.G., Bourland, F., Bouldin, J., Danforth, D., Green, V.S., Morris, K., Mozaffari, M., Rothrock, C., & Shumway, C. (2010). Integrating soil and plant monitoring to improve soil and water conservation for sustainable cotton production.. Cotton, Inc State Support Committee - 120000.

Teague, T.G., Green, V.S., Bouldin, J., & Shumway, C. (2010). Integrating Soil and Water Conservation and Pest Management strategies for Sustainable Cotton Production.. Cotton, Inc - 35000.

Bouldin, J., & Warby, R. (2010). Larkin Creek Lateral 1-A Monitoring. Arkansas Natural Resources Commission - 10000.

Savary, B., Bouldin, J., Green, V.S., Humphrey, J.K., & Xu, J. (2010). MidSouth/Southeast Bioenergy Consortium (3). USDOE Biomass Office - 333000.

Bouldin, J. (2009). Comparison of biosolids as a soil amendment for nutrient content, soil quality, and leaching propensity. Mannco Fertilizer Inc. - 10000.

Bouldin, J., Green, V.S., Teague, T.G., & Shumway, C.C. (2009). Integrating Soil and Water Conservation and Pest Management

strategies for Sustainable Cotton Production. Cotton, Inc. - 35000.

Bouldin, J., & Green, V.S. (2009). Measures of water quality in the Cache River. The Nature Conservancy - 12705.

Savary, B., Bouldin, J., Green, V.S., Humphrey, J.K., & Xu, J. (2009). MidSouth/Southeast Bioenergy Consortium (2). USDOE Biomass Office - 634333.

Bouldin, J., & Harris, J. (2009). Mulberry River/Ozark St. Francis National Forest Mussel Survey. USDA Forest Service - 31250.

Bouldin, J., & Harris, J. (2009). Rangewide Morphometric and Meristic Comparison of *Potamilus capax* (Green 1832) Shell Shape and Soft Anatomy. US Fish & Wildlife Service - 29483.

Green, V.S., & Bouldin, J. (2008). Cotton production practices to enhance soil quality. ASU - 5914.

Bouldin, J., Grippo, A., Kennon, J.T., Miller, C.A., & Hall, J. (2008). GK12: Environmental Sciences and Molecular Biosciences in the Natural State.. NSF Division of Graduate Education - 2242556.

Savary, B., Bouldin, J., Green, V.S., Humphrey, J.K., Weathers, P., & Xu, J. (2008). MidSouth/Southeast Bioenergy Consortium (1). USDOE Biomass Office - 656000.

Pratte, J.M., Kennon, J.T., Green, V.S., Bouldin, J., & Gilbert, E. (2008). SENCER Implementation Grant. SENCER - 3000.

Bouldin, J., Shumway, C.S., & Green, V.S. (2008). Soil and water conservation in sustainable cotton production. ASU - 4927.07.

Buchanan, R., & Bouldin, J. (2008). Supplement to URM RISE-UP to fund Minority High School Student Research Fellows. NSF - 12500.

Bouldin, J., Green, V.S., & Christian, A. (2008). Water quality sampling and analysis for nutrients and TSS on the upper Strawberry River subwatersheds. Arkansas Natural Resource Commission for USEPA - 142008.

Bouldin, J., & Dowling, C. (2007). Accelerated Research into Science of the Environment (ARISE) Program.. NSF GEO - 111570.

Bouldin, J., & Green, V.S. (2007). Characterization of groundwater resources at Judd Hill Plantation, Poinsett County, AR.. Judd Hill Foundation - 2000.

Bouldin, J., & Green, V.S. (2007). Identifying characteristics for high priority conservation areas in and around Jonesboro. Arkansas Urban Forestry Commission - 5600.

Bouldin, J., & Baker, W.H. (2007). Measured and modeled fate and effects of diazinon in agricultural ditch ecosystems.. ASU Faculty Enhancement - 4115.

Green, V.S., Bouldin, J., Christian, A., & Hannigan, R. (2007). MRI: Acquisition of biogeochemical analytical instrumentation for enhanced interdisciplinary research and training at Arkansas State University. National Science Foundation - 190835.

Green, V.S., Farris, J., & Bouldin, J. (2006). Delta Center for Agricultural Water Use. US EPA - 193400.

Hannigan, R., Dowling, C., & Bouldin, J. (2006). Mississippi Embayment Regional Ground Water Study. EPA - 144000.

Pratte, J.M., Bouldin, J., & Risch, T. (2006). Research Internships in Science of the Environment (RISE). NSF - 479985.

Journal Publications

Brueggen, T.R., & Bouldin, J. (2012). Historical and present day macroinvertebrate populations, pre-best management practice implementation, in the upper watersheds of the Strawberry River, AR, USA. *Journal of Environmental Quality*.

Leigh, K.L., Bouldin, J., & Buchanan, R. (2012). Measurement of accumulation of semiconductor nanocrystal quantum dotsTM by *Pimephales promelas*. *Dose Response Journal*.

Summarco, P.W., Kolian, S., Warby, R., Bouldin, J., Subra, W., Joyce, S., & Porter, S. (2012). Petroleum hydrocarbon concentrations in the N. Gulf of Mexico: Seafood, human blood, biota, sediment, and water, following the BP Oil Well Blow-Out.. *Environmental Science & Technology*.

Kenyon, J.T., Vaughn, G.C., Grippo, A., & Bouldin, J. (2012). Simple Toxicity Testing Utilizing *Daphnia* spp. and Table Salt.

Kennedy, A.J., Hull, M.S., Bednar, A.J., Goss, J.D., Hunter, J.C., Bouldin, J., Vikesland, P.J., & Steevens, J.A. (2010). Fractionating nanosilver: importance for determining toxicity to aquatic test organisms. *Environmental Science and Technology*, 44(24), 9571-9577.

Bouldin, J., Ingle, T.M., Sengupta, A., Alexander, R., & Buchanan, R. (2009). Aqueous Toxicity, Uptake and Transfer of QDots in Freshwater Algae and *Ceriodaphnia dubia*. *The Environmental Institute*, 2, 12-Jul.

Teague, T.G., Green, V.S., Bouldin, J., Shumway, C., & Fowley, L. (2009). Tillage and pest control → Where should we focus management in building a sustainable cotton system?. *Summaries of Arkansas Cotton Research 2008; Arkansas Agricultural Experiment Station Research Series 573.*, 573(573), 137-147.

Sengupta, A., Bouldin, J., Ingle, T.M., & Buchanan, R. (2009). Uptake and Distribution of Quantum Dots in *Artemia Franciscana* and *Pimephales Promelas* and a Comparative Study of Dietary vs. Aqueous Uptake in *Pimephales Promelas*. *The Environmental Institute*, 2, 85-90.

Bouldin, J., Farris, J., Moore, M.T., Smith, S., & Cooper, C.M. (2006). Hydroponic uptake of atrazine and lambda-cyhalothrin in *Juncus effusus* and *Ludwigia peploides*. *Chemosphere-Elsevier*, 65(6), 1049-1057.

Bouldin, J., Farris, J., Moore, M.T., Smith, S., Stephens, W.W., & Cooper, C.C. (2005). Evaluated fate and effects of atrazine and lambda-cyhalothrin in vegetated and unvegetated microcosms.. *Environmental Toxicology/Wiley Periodicals, Inc.*, 20(5), 287-298.

Milam, C.D., Bouldin, J., Farris, J., Schulz, R., Moore, M.T., Bennett, E.R., & Smith, S. (2004). Evaluating acute toxicity of methyl parathion application in constructed wetland mesocosms. *Environmental Toxicology*, Wiley Periodicals, Inc, 19(6), 471-479.

Bouldin, J., Milam, C.D., Farris, J., Moore, M.T., Smith, S., & Cooper, C.M. (2004). Evaluating toxicity of Asana XL (esfenvalerate) amendments in agricultural ditch mesocosms. *Chemosphere-Elsevier*, 56(7), 677-683.

Bouldin, J., Bickford, N.A., Stroud, H.B., & Guha, G.S. (2004). Tailwater recovery systems for irrigation: benefit/cost analysis and water resource conservation technique in Northeast Arkansas. *Arkansas Academy of Science*, 58, 23-31.

Bouldin, J., Farris, J., Moore, M.T., & Cooper, C.M. (2004). Vegetative and structural characteristics of agricultural drainages in the Mississippi Delta landscape. *Environmental Pollution - Elsevier*, 132, 403-411.

Schulz, R., Moore, M.T., Bennett, E.R., Milam, C.D., Bouldin, J., Farris, J., Smith, S., & Cooper, C.M. (2003). Acute Toxicity of Methyl-Parathion in Wetland Mesocosms: Assessing the Influence of Aquatic Plants Using Laboratory Testing with *Hyalella azteca*. *Archives of Environmental Contamination and Toxicology*, 2003(45/3), 331-336.

Christian, A., Bouldin, J., Bickford, N.A., Kanieski, L., McBride, A., McCord, S.B., Sako, A., & Farris, J. (2003). Winter and spring water quality of the big Creek Watershed, Craighead County, Arkansas: Nutrients, habitat, and macroinvertebrates. *Journal of Arkansas Academy of Sciences*, 57, 27-36.

Angima, S.A., Bouldin, J., Green, V.S., & Woodruff, T.C. (2011). Effect of soil amendments on soil enzyme activities and active carbon on a managed Douglas-Fir forest ecosystem. *Journal of the National Association of County Agricultural Agents*, 4(1), 12-Jan.

Leigh, K.L., Bouldin, J., & Buchanan, R. (2011). Effects of Exposure to Semiconductor Nanoparticles on Aquatic Organisms. *Journal of Toxicology*, 2012, 9 pp.

Bouldin, J., Warby, R., Yu, P., & Teague, T.G. (2011). Sustainable Cotton Production: The Effects of Best Management Practices on Water, Sediment and Soil Quality. *Summaries of Arkansas Cotton Research 2010*, Arkansas Agricultural Experiment Station Research Series 589, University of Arkansas Press, 589, 100-105.

Bouldin, J., Sappington, D.R., & Brueggen, T.R. (2010). Best Management Practices for Improved Water Quality in Cotton Production. *Summaries of Arkansas Cotton Research 2009*, Arkansas Agricultural Experiment Station Research Series 582, University of Arkansas Press, 582, 188-198.

Teague, T.G., Shumway, C., Green, V.S., Bouldin, J., & Fowler, L. (2010). Focusing Management to Build Sustainable Cotton Systems. *University of Arkansas Press*, 582, 142-150.

- Brueggen, T.R., Dowling, C., & Bouldin, J. (2010). Tributary contribution to the Spring River, AR as determined by water quality analyses. *Arkansas Academy of Science*, 64, 70-76.
- Ingle, T.M., Alexander, R., Bouldin, J., & Buchanan, R. (2008). Absorption of semiconductor nanocrystals by the aquatic invertebrate *Ceriodaphnia dubia*. *Bull Environ Contam Toxicol*.
- Bouldin, J., Ingle, T.M., SenGupta, A., Alexander, R., Hannigan, R., & Buchanan, R. (2008). Aquatic toxicity and food chain transfer of Quantum Dots in freshwater algae and *Ceriodaphnia dubia*. *Environmental Toxicology & Chemistry*, 27(9), 1958-1963.
- Stephens, W.W., Moore, M.T., Farris, J., Bouldin, J., & Cooper, C.M. (2008). Considerations for assessments of wadable drainage systems in the agriculturally dominated deltas of Arkansas and Mississippi. *Archives of Environmental Contamination and Toxicology*.
- Krauth, D.M., Bouldin, J., Green, V.S., Wren, P.S., & Baker, W.H. (2008). Evaluation of a Polyacrylamide Soil Additive to Reduce Agricultural-Associated Contamination. *Bulletin of Environmental Contamination and Toxicology*, 81(2), 116-123.
- Bouldin, J., Farris, J., Moore, M.T., Smith, S., & Cooper, C.M. (2007). Assessment of diazinon toxicity in sediment and water of constructed wetlands using deployed *Corbicula fluminea* and laboratory testing. *Archives of Environmental Contamination and Toxicology*, 53(2), 174-182.

Presentations

- Wright, R.E., Bingner, R.L., Griffin, T., & Bouldin, J. (2011). AnnAGNPS Model Simulation of Sediment and Nutrient Loss on a Cross County, Arkansas Watershed. *Arkansas Crop Protection Association Research Conference*.
- Bouldin, J., Yanowitz, K.L., Miller, C.A., Grippo, A., & Kennon, J.T. (2011). Arkansas State University graduate student enhance communication skills and science education in the Arkansas Delta. *NSF GK12 Annual Meeting*.
- Brueggen, T., & Bouldin, J. (2011). Assessment of Three Creeks in the Upper Watershed of the Strawberry River, AR, Fulton Co, USA. *Arkansas Academy of Sciences Annual Meeting*.
- Bouldin, J. (2011). Beyond Biomonitoring. *Arkansas Water Works and Water Environmental Association Annual Conference*.
- Grippo, A., Kennon, J.T., Hall, J., Engelken, R., Yanowitz, K., & Bouldin, J. (2011). Creating STEM Teachers for Arkansas' Future by Designing an Environmental Science Outreach Activity. *Mid-South SETAC Regional Meeting*.
- Bouldin, J., & Yu, S. (2011). Detection of morphological changes in *Pseudokirchneriella subcapitata* following exposure to Quantum Dots. *Society of Environmental Toxicology and Chemistry Annual Meeting*.
- Choate, J.C., Bouldin, J., & Klasky, J.W. (2011). Earthworm Behavior in Soils with Added Amendments, Various Agronomic Practices, and a Bioenergy Crop. *Society of Environmental Toxicology and Chemistry Annual Meeting*.

Bouldin, J., Yanowitz, K.L., Miller, C.A., Grippo, A., & Kennon, J.T. (2011). Enhanced environmental education in middle school classrooms by graduate students in the Arkansas Delta. North American Benthological Society Annual Meeting.

Bouldin, J., Yanowitz, K.L., Miller, C.A., Grippo, A., & Kennon, J.T. (2011). Enhanced environmental education in middle school classrooms by graduate students in the Arkansas Delta. MidSouth Society of Environmental Toxicology and Chemistry Annual Meeting.

Kennon, J.T., Miller, C., Wynia, A., Bouldin, J., & Grippo, A. (2011). Fun Hands-On Environmental Science Activities for Middle Grades. Arkansas Curriculum Conference.

Bouldin, J., & Warby, R. (2011). Monitoring of total petroleum hydrocarbons in water column, sediment and biological samples from Barataria Bay, LA.. Society of Environmental Toxicology & Chemistry Focused Topic Meeting → Gulf Oil Spill.

Brueggen, T.R., & Bouldin, J. (2011). Three years of continued data collection from three creeks in the upper subwatersheds of the Strawberry River, AR, Fulton Co, USA. Society of Environmental Toxicology and Chemistry Annual Meeting.

Carter, T., Yu, P., Teague, T.G., & Bouldin, J. (2011). Water and Sediment Quality Assessment of Cotton Production. Arkansas Academy of Sciences Annual Meeting.

Cooper, R.I., Bouldin, J., & Warby, R. (2011). Water quality monitoring of a L→Anguille tributary prior to BMP implementation. Arkansas Water Works and Water Environmental Association Annual Conference..

Brueggen, T.R., & Bouldin, J. (2011). Year three review of water quality monitoring on the Upper Strawberry River Project 07-1000. Arkansas Natural Resource Commission 2011 Task Force Meeting.

Brueggen, T.R., & Bouldin, J. (2010). A Comparison Among Three Waterways in the Upper Watershed of the Strawberry River, Fulton CO, AR, with Current Best Management Practices Implementation. 44th Annual Joint Meeting of the North-Central and South-Central Geological Society of America Sections.

Bouldin, J. (2010). Arkansas → a water-rich state. Rotary International.

Brueggen, T.R., & Bouldin, J. (2010). Assessment of Three Headwater Streams of the Strawberry River, Fulton CO, AR.. Mid South Society of Environmental Toxicology & Chemistry Annual meeting.

Yu, P., Brueggen, T.R., Warby, R., Green, V.S., & Bouldin, J. (2010). Assessment of water, sediment and soil quality of cotton production management practices. Society of Environmental Toxicology & Chemistry North America annual meeting.

Brueggen, T.R., Dowling, C., & Bouldin, J. (2010). ater Quality Parameters to Assess Tributary Contribution to the Spring River, AR. Mid South Society of Environmental Toxicology & Chemistry Annual meeting.

Brueggen, T.R., & Bouldin, J. (2010). Biological and chemical assessment of three creeks in the upper watershed of the Strawberry River, AR, Fulton Co, USA. Society of Environmental Toxicology & Chemistry North America annual meeting.

Brueggen, T.R., Dowling, C., & Bouldin, J. (2010). Chemical Analyses to Determine Tributary Contribution to the Spring River, AR. Arkansas Academy of Science Annual Meetin.

Klasky, J.P., & Bouldin, J. (2010). Comparison of Water and Soil Quality from Locally-Available Soil Amendments to Biomass Sorghum (*Sorghum bicolor* (L.) Moench). Arkansas Water Works and Water Environment Association Annual Conference.

Grippio, A., Kennon, J.T., Hall, J., Engelken, R., Yanowitz, K., Trautwein, J., & Bouldin, J. (2010). C-STAF: Creating STEM Teachers for Arkansas' Future. Noyce National Conference.

Kennon, J.T., Miller, C., Hall, J., Bouldin, J., Lisko, K., & White, A. (2010). Environmental Science, Inquiry-based Activities for The Classroom. Arkansas Curriculum Conference 2010.

Grippio, R., & Bouldin, J. (2010). Graduate Student Program in Environmental Science. Bridging Science with Communities.

Sappington, D.R., Brueggen, T.R., Bouldin, J., Green, V.S., Shumway, C., & Teague, T.G. (2010). Improving Water Quality with Better Management Practices in Midsouth Cotton. Beltwide Cotton Conference.

Vaughan, G.L., Warby, R., & Bouldin, J. (2010). Monitoring the Long-term effects of the BP oil spill in Barataria Bay, LA and the Gulf of Mexico. Fall Conference of the AR Chapter of the Wildlife Society.

Vaughan, G.L., Bouldin, J., & Warby, R. (2010). Monitoring the long term impacts of the British Petroleum oil spill in Barataria Bay and the Gulf of Mexico for Total Petroleum Hydrocarbons. Society of Environmental Toxicology & Chemistry North America annual meeting.

Klasky, J.P., & Bouldin, J. (2010). Organic waste materials: Water and soil quality resulting from application to biomass sorghum (*Sorghum bicolor* (L.) Moench). Mid South Society of Environmental Toxicology & Chemistry Annual meeting.

Bouldin, J., Yanowitz, K.L., Miller, C.A., Grippio, A., & Kennon, J.T. (2010). Pedagogy by graduate students enhance communication skills and science education in the Arkansas Delta. Society of Environmental Toxicology & Chemistry North America annual meeting.

Bouldin, J., & Sawyer, J.A. (2010). Quantification of change in cellular morphology of *Pseudokirchneriella subcapitata* following Quantum dot exposure. Environmental Effects of Nanoparticles and Nanomaterials.

Bouldin, J. (2010). Quantum Dot dietary uptake and transfer in aquatic organisms. US Army Corp of Engineers seminar.

Little, J., Sappington, D.R., Brueggen, T.R., & Bouldin, J. (2010). Second Year of a Multi-year Study of the Effects of Varying Crop

Production Treatments on Water and Sediment Quality. 30th Annual Undergraduate Research Conference.

Little, J., Sappington, D.R., Brueggen, T.R., & Bouldin, J. (2010). Second Year of a Multi-year Study of the Effects of Varying Crop Production Treatments on Water and Sediment Quality. Arkansas Academy of Science Annual Meetin.

Bouldin, J., & Wright, R.E. (2010). Water quality and quantity implications of biofuel crops. North American Benthological Society annual meeting.

Bouldin, J. (2010). Water Quality and Quantity Issues in Bioenergy Crop Production. Arkansas Water Works and Water Environment Association Annual Conference.

Bouldin, J., & Warby, R. (2010). Water Quality Monitoring on Larkin Creek St. Francis County, AR. Arkansas Natural Resource Commission 2010 Task Force Meeting.

Bouldin, J., & Wright, R.E. (2010). Water Sustainability in Biomass Production. Mid South Society of Environmental Toxicology & Chemistry Annual meeting.

Brueggen, T.R., & Bouldin, J. (2010). Year Two Review of Water Quality Monitoring on the Upper Strawberry River Project 07-1000. Arkansas Natural Resource Commission 2010 Task Force Meeting.

Wright, R.E., & Bouldin, J. (2009). AGNPS Model Identifies BMPs to Reduce N Loading in the Mississippi River Basin. SETAC North America Meeting.

Bouldin, J., Ingle, T.M., Sengupta, A., & Buchanan, R. (2009). Aqueous Toxicity, Uptake and Transfer of QDots in Freshwater Algae and Ceriodaphnia dubia. The International Conference on the Environmental Implications and Applications of Nanotechnology.

Williams, J.C., Kamler, B.S., Gray, K., Polk, A., Shelton, J.T., Layton, A., Bouldin, J., Dowling, C., Christian, A., & Green, V.S. (2009). Assessing the Impacts of Humans on the Tyronza River: Advancing the Science of Limnology and Oceanography Aquatic Sciences Meeting.

Bouldin, J. (2009). Bioenergy Research at ASU: Water quality and quantity issues.. Academy of Certified Hazardous Materials Managers regional meeting.

Sappington, D.R., Brueggen, T.R., Teague, T.G., & Bouldin, J. (2009). Comparison of Runoff Qualities and Soil Qualities of Cover Cropping, Conservative Tillage, and Conventional Tillage practices in Cotton Farming. Arkansas Crop Protection Association Meeting.

Klasky, J.P., & Bouldin, J. (2009). Comparison of Water and Soil Quality from Locally-Available Soil Amendments to Biomass Sorghum (*Sorghum bicolor* L. Moench). SETAC North America Meeting.

Bouldin, J., Sappington, D.R., Yanowitz, K.L., Grippo, A., Miller, C.A., & Kennon, J.T. (2009). Enhancing middle school science education in the Arkansas rural schools by Environmental

Sciences and Molecular Biosciences graduate students. SETAC North America Meeting.

Bouldin, J., & Mundali, I.M. (2009). Measured effects of single and binary pesticide. North American Benthological Society annual meeting..

Leigh, K., Ingle, T.M., Bouldin, J., & Buchanan, R. (2009). Measurement of Uptake and Accumulation of Semiconductor Nanocrystals by *Pimephales promelas*. SETAC North America Meeting.

Sengupta, A., Bouldin, J., Ingle, T.M., Leigh, K., & Buchanan, R. (2009). Quantum Dots: Uptake, bioconcentration and bioaccumulation in standard aquatic test organisms. SETAC North America Meeting.

Brueggen, T.R., & Bouldin, J. (2009). Strawberry River. Arkansas River Association Meeting.

Brueggen, T.R., Ogendi, G.M., Bouldin, J., Green, V.S., & Teague, T.G. (2009). Striving toward sustainable cotton production and improved water quality.. Beltwide Cotton Conference.

Sengupta, A., Bouldin, J., Ingle, T.M., & Buchanan, R. (2009). Uptake and Distribution of Quantum Dots in *Artemia Franciscana* and *Pimephales Promelas* and a Comparative Study of Dietary vs. Aqueous Uptake in *Pimephales Promelas*. The International Conference on the Environmental Implications and Applications of Nanotechnology.

Brueggen, T.R., Sappington, D.R., Green, V.S., Teague, T.G., & Bouldin, J. (2009). Use of Best Management Practices to Improve Water and Sediment Quality in an Effort Toward Sustainable Cotton Production. SETAC North America Meeting.

Bouldin, J., & Wilkie, J. (2009). Using GIS technology to evaluate potential park land.. Arkansas Recreation & Park Association/ Arkansas Therapeutic Recreation Society Annual Meeting.

Brueggen, T.R., & Bouldin, J. (2009). Water Quality Monitoring on the Upper Strawberry River Project 07-1000. Arkansas Natural Resource Commission 2009 Task Force Meeting.

Little, J.D., Brueggen, T.R., Sappington, D.R., & Bouldin, J. (2009). Year Two of a Multi-Year Study on the Effects of Best Management Practices on Water and Sediment. 15th Annual Judd Hill Cotton Technology Field Day.

Bouldin, J., Gilbert, E., Guha, G.S., Stewart, P.A., Stroud, H., & Christian, A. (2008). A community survey and study of mosquito abatement for Jonesboro, AR.. SENCER Summer Institute.

Mundali, I.M., Bouldin, J., Seagraves, S.E., Green, V.S., & Farris, J. (2008). Acute toxicity of atrazine and lambda-cyhalothrin to aquatic organisms and hydroponic uptake by *Juncus effusus* and *Ludwigia peploides*.. National Environmental Studies and Science Summit 2008.

Bouldin, J., Ingle, T.M., Sengupta, A., Alexander, R., Hannigan, R., & Buchanan, R. (2008). Aqueous toxicity and food chain transfer of fluorescent nanocrystals in freshwater algae and

Ceriodaphnia dubia. North American Benthological Society Annual Meeting.

Bouldin, J., Ingle, T.M., Sengupta, A., Alexander, R., Hannigan, R., & Buchanan, R. (2008). Aqueous toxicity and food chain transfer of quantum dots— in freshwater algae and Ceriodaphnia dubia. 3rd Annual BioNanoTox and Applications Research Conference.

Mundali, I.M., Bouldin, J., Seagraves, S.E., Green, V.S., & Farris, J. (2008). Aqueous toxicity of lambda cyhalothrin and atrazine to aquatic organisms and hydroponic uptake by Juncus effusus and Ludwigia peploides. MidSouth Society of Environmental Toxicology & Chemistry.

Green, V.S., Christian, A., Bouldin, J., & Hannigan, R. (2008). Aquisition of biogeochemical analytical instrumentation for enhanced interdisciplinary research and training at Arkansas State University. Soil Science Society of America.

Kammler, B.S., Gray, K., Layton, A., Polk, A., Shelton, J., Williams, J., Bouldin, J., Dowling, C., Green, V.S., & Christian, A. (2008). Assessing the impact of humans on the Tyronza River: An agriculturally dominated watershed. Southwest Regional ACS Meeting.

Ogendi, M., Green, V.S., Bouldin, J., & Trujillo, E. (2008). Biological activity in a wheat-soybean double-cropping system. Soil Science Society of America.

Gopalan, M.B., Bouldin, J., & Farris, J. (2008). Biomonitoring in the edge of field drainage ditches to assess farm-scale impacts and environmental performance of integrated cotton farm practices. SETAC North America Meeting.

Mundali, I.M., & Bouldin, J. (2008). Determination of acute toxicity endpoints of atrazine and lambda cyhalothrin exposed to Ceriodaphnia dubia and Pimephales promelas. SETAC North America Meeting.

Woodruff, T.M., Bouldin, J., Angima, S.A., & Green, V.S. (2008). Determination of Soil Enzyme Activity in Response to Management Practices in a Forested Ecosystem. MidSouth Regional Society of Environmental Toxicology & Chemistry.

Ogendi, G.M., Green, V.S., Bouldin, J., & Trujillo, E. (2008). Effects of residue burning on soil carbon and soil biological activity in a wheat-soybean double-cropping system. SETAC North America Meeting.

Wright, R.E., & Bouldin, J. (2008). Farm Level Environmental Implications of Corn-Based Ethanol Production. MidSouth Regional Society of Environmental Toxicology & Chemistry.

Bouldin, J., Ingle, T.M., Sengupta, A., Alexander, R., Hannigan, R., & Buchanan, R. (2008). Food Chain Transfer and Aqueous Toxicity of Quantum Dots. MidSouth Regional Society of Environmental Toxicology & Chemistry.

Bouldin, J. (2008). Identification of priority conservation areas in Craighead County, AR for the Jonesboro Parks and Recreation Commission. Jonesboro Parks Commission and City Council.

Bouldin, J., Conrad, J.M., Inlander, E.M., Gallipeau, C.G., & Wilkie, J. (2008). Identification of priority conservation areas using GIS and habitat assessments. SETAC North America Meeting.

Ingle, T.M., Bouldin, J., & Buchanan, R. (2008). Nanoparticles and our Environment. Arkansas Water Works and Water Environmental Association Annual Conference.

Woodruff, T., Bouldin, J., & Green, V.S. (2008). Soil enzyme activity in response to management practices in a forested ecosystem. SETAC North America Meeting.

Sengupta, A., & Bouldin, J. (2008). Uptake and distribution of Quantum Dots in *Artemia franciscana* and *Pimephales promelas* and a comparative study of dietary vs aqueous uptake in *Pimephales promelas*. SETAC North America Meeting.

Sengupta, A., Bouldin, J., Ingle, T.M., & Buchanan, R. (2008). Uptake and distribution of Quantum Dots in *Artemia franciscana* and *Pimephales promelas* and a comparative study of dietary vs aqueous uptake in *Pimephales promelas*. 3rd Annual BioNanoTox and Applications Research Conference.

Mundali, I.M., Bouldin, J., Seagraves, S.E., Green, V.S., & Farris, J. (2008). Uptake of lambda cyhalothrin and atrazine by aquatic macrophytes in a laboratory hydroponic exposure. Geological Society of America South-Central Section - 42nd Annual Meeting.

Wright, R.E., & Bouldin, J. (2008). Using BMPs to Reduce Environmental Consequences of Corn-Based Ethanol Production. SETAC North America Meeting.

Bouldin, J. (2008). Water resources: local and global issues. Arkansas Water Works and Water Environmental Association Annual Conference.

Bouldin, J. (2008). WET testing methodology for wastewater treatment managers. Arkansas Water Environmental Association Specialty Conference.

Mundali, I.M., Bouldin, J., Seagraves, S.E., Green, V.S., & Farris, J. (2007). Aqueous toxicity of lambda cyhalothrin and atrazine to aquatic organisms and hydroponic uptake by *Juncus effusus* and *Ludwigia peploides*. MidSouth Society of Environmental Toxicology & Chemistry.

Krauth, D.M., Bouldin, J., Green, V.S., Baker, W.H., & Wren, P.S. (2007). Comparison of Field Use and Laboratory Simulation of Polyacrylamide to Reduce Agricultural Associated Contamination. New England Science Symposium.

Ingle, T.M., Alexander, R., Hannigan, R., Buchanan, R., & Bouldin, J. (2007). Detection, Measurement and Toxicology of Semiconductor Nanocrystals in *Ceriodaphnia dubia*. Proceedings of NSTI Nanotechnology.

Krauth, D.M., Bouldin, J., Green, V.S., Baker, W.H., & Wren, P.S. (2007). Field Use of a Polyacrylamide to Reduce Agricultural Associated Contamination. National Conference of Undergraduate Research.

Bouldin, J., Wren, P.S., Green, V.S., & Baker, W.H. (2007). Laboratory Simulation to determine Potential Toxicity of a Polyacrylamide. Society of Environmental Toxicology and Chemistry.

Bouldin, J., Farris, J., Moore, M.T., Smith, S., & Cooper, C.M. (2007). Macrophyte uptake of atrazine and lambda-cyhalothrin in hydroponic laboratory exposures.. Arkansas Soil and Water Education Conference.

Bouldin, J., Ingle, T.M., Cos, L.O., Buchanan, R., & Hannigan, R. (2007). Toxicological Effects of Nanoparticles as Measured with Standard Laboratory Biomonitoring.. Society of Environmental Toxicology and Chemistry.

Mundali, I.M., Bouldin, J., Seagraves, S.E., Green, V.S., & Farris, J. (2007). Uptake of lambda cyhalothrin and atrazine by aquatic macrophytes in a laboratory hydroponic exposure. Society of Environmental Toxicology and Chemistry abstracts.

Mundali, I.M., Bouldin, J., Seagraves, S.E., Green, V.S., & Farris, J. (2007). UPTAKE OF LAMBDA-CYHALOTHRIN AND ATRAZINE BY AQUATIC MACROPHYTES IN A LABORATORY HYDROPONIC EXPOSURE. Mid south SETAC.

Gopalan, M.B., Bouldin, J., & Farris, J. (2007). Use of Aqueous Biomonitoring of Field Drainage Ditches as a Tool to Assess the Environmental Performance of Integrated Farm Practices. Society of Environmental Toxicology and Chemistry.

Bouldin, J., Ingle, T.M., Cos, L.O., Buchanan, R., & Hannigan, R. (2007). Use of Standard Laboratory Biomonitoring to Measure Toxicological Effects of Nanoparticles. North American Benthological Society Annual meeting.

Bouldin, J., Ingle, T.M., Cos, L.O., Buchanan, R., & Hannigan, R. (2007). Use of Standard Laboratory Biomonitoring to Measure Toxicological Effects of Nanoparticles. MidSouth Society of Environmental Toxicology and Chemistry Annual Meeting.

Bouldin, J. (2007). Water Issues. Jonesboro Exchange Club Weekly Meeting.

Bouldin, J. (2007). Water Quality ► Local and Global Issues. MidSouth Society of Environmental Toxicology and Chemistry Annual Meeting.

Bouldin, J. (2007). Water Resource Protection. Academy of Certified Hazardous Materials Managers Quarterly Meeting.

Proceedings Publications

Ingle, T., Hannigan, R., Buchanan, R., & Bouldin, J. (2007). Detection, Measurement and Toxicology of Semiconductor Nanocrystals in Ceriodaphnia dubia. Proceedings of the 10th Annual NSTI Nanotechnology Conference and Trade Show,

Gopalan, M.B., Bouldin, J., & Farris, J. (2006). Use of Biomonitoring at Farm-scale to Formulate and Assess the Impacts of Improved Cotton Farming Practices upon Reduction of Ecological Risk.. International Perspective on Environmental and Water Resources,

Breuggen, T.R., Ogendi, G.M., Bouldin, J., Green, V.S., & Teague, T.G. (2012). Striving toward sustainable cotton production and improved water quality. Proceedings of the Cotton Engineering-Systems Conference, Beltwide Cotton Conference,

Other

Bouldin, J., Warby, R., & Yu, P. (2012). 2010 Annual report for Cotton, Inc.

Bouldin, J. (2012). Annual report (2010) for Arkansas Natural Resources Commission..

Bouldin, J., & Brueggen, T.R. (2012). Arkansas Water Resources Center (USGS) 104B Program Project.

Bouldin, J. (2012). Annual report (2008) for Arkansas Natural Resources Commission..

Bouldin, J., Conrad, J.C., Bednarz, J.J., & Klasky, W. (2012). Identification of priority conservation areas in Craighead County, AR for the Jonesboro Parks and Recreation Commission..

Bouldin, J. (2010). Conference will include information for all.

Bouldin, J., & Sappington, D.R. (2010). Groundwater Quality and Use at Judd Hill Plantation. Judd Hill Foundation.

Bouldin, J., & Warby, R. (2010). Larkin Creek Water Quality Monitoring Project Final Report.

Bouldin, J., Sappington, D.R., & Brueggen, T.R. (2010). Water and Sediment Quality Improvements as a Result of Best Management Practices for Sustainable Cotton Production. Judd Hill Foundation.

Bouldin, J. (2009). 2009 Annual report for Cotton, Inc.

Bouldin, J. (2009). Annual report (2009) for Arkansas Natural Resources Commission..

Bouldin, J. (2009). Arkansas State University monitors protections of Arkansas→ rivers.

Ogendi, G.M., & Bouldin, J. (2009). Bioenergy crops may be beneficial for soil and water..

Bouldin, J., & Green, V.S. (2009). Groundwater Quality and Use at Judd Hill Plantation.

Bouldin, J., Green, V.S., Brueggen, T.R., Ogendi, G.M., & Teague, T.G. (2009). Striving toward sustainable cotton production and improved water quality..

Bouldin, J. (2008). A-State faculty studies bioenergy alternatives.

Bouldin, J., & Wilkie, J. (2008). ASU helps in land planning.

Bouldin, J. (2008). ASU researchers study nanoparticles, effects..

Bouldin, J. (2008). Elimination of pesticides from wetlands studied.

Bouldin, J. (2008). Mississippi Embayment Regional Ground Water Study annual QA report..

Bouldin, J. (2007). A-State faculty traces historic development of agriculture to ancient Iraq.

Krauth, D.M., Bouldin, J., Green, V.S., Baker, W.H., & Wren, P.S. (2007). Comparison of Field Use and Laboratory Simulation of Polyacrylamide to Reduce Agricultural Associated Contamination.

Ingle, T.M., Alexander, R., Hannigan, R., Buchanan, R., & Bouldin, J. (2007). Detection, Measurement and Toxicology of Semiconductor Nanocrystals in *Ceriodaphnia dubia*.

Bouldin, J., Krauth, D.M., Green, V.S., Baker, W.H., & Wren, P.S. (2007). Field Use of a Polyacrylamide to Reduce Agricultural Associated Contamination.

Mundali, I.M., Bouldin, J., Seagraves, S.E., Green, V.S., & Farris, J. (2007). Uptake of Lambda-cyhalothrin and Atrazine by Aquatic Macrophytes in a Laboratory Hydroponic Exposure.

Bouldin, J., Ingle, T.M., Cox, L.O., Buchanan, R., & Hannigan, R. (2007). Use of Standard Laboratory Biomonitoring to Measure Toxicological Effects of Nanoparticles.

Bouldin, J. (2007). Water Quality ► Local and Global Issues.

Bouldin, J. (2006). Aqueous Product Testing for Ciba Specialty→s Stormwater Polyacrylimide Tablets.

Bouldin, J. (2006). ASU researchers describe role of ditches..

Bouldin, J. (2006). Mississippi Delta was once covered with forests..

Bouldin, J., Wren, P.S., Green, V.S., & Baker, W.H. (2007). Laboratory Simulation to determine Potential Toxicity of a Polyacrylamide.

Bouldin, J., Ingle, T.M., Cox, L.O., Buchanan, R., & Hannigan, R. (2007). Toxicological Effects of Nanoparticles as Measured with Standard Laboratory Biomonitoring.

Mundali, I.M., Bouldin, J., Seagraves, S.E., Green, V.S., & Farris, J. (2007). Uptake of lambda cyhalothrin and atrazine by aquatic macrophytes in a laboratory hydroponic exposure.

Gopalan, M.B., Bouldin, J., & Farris, J. (2007). Use of Aqueous Biomonitoring of Field Drainage Ditches as a Tool to Assess the Environmental Performance of Integrated Farm Practices.

Bouldin, J., Ingle, T.M., Cox, L.O., Buchanan, R., & Hannigan, R. (2007). Use of Standard Laboratory Biomonitoring to Measure Toxicological Effects of Nanoparticles.

Institutional Committees

University

College Grievance Committee (University) Fall 2010 - Summer 2012

Other Institutional Service

(Committee Member) EVS Committee (University) Fall 2009 - Summer 2012

(Committee Member) Biology Chair search (University) Fall 2009 - Summer 2012

(Committee Member) College of Engineering Hydrologist Search Committee (University) Spring 2009 - Summer 2009

(Chairperson) ASU Earth Day (University) Spring 2008 - Summer 2012

(Committee Member) Undergraduate EVS curriculum committee (University) Fall 2006 - Fall 2009

(Committee Member) Search Committee – Postdoctoral/instructor position, Department of Biological Sciences (University) Fall 2006 - Fall 2008

(Committee Member) Graduate Program Committee – Department of Biological Sciences (University) Fall 2006 - Summer 2012

(Other) ASU Petting Zoo (University) Spring 2006 - Summer 2012

(Session Chair) Arkansas Soil & Water Education Conference (University) Spring 2006 - Summer 2012

Professional Service

Committee Member, Institutional Biosafety Committee - Western Institutional Review Board Summer 2009 - Summer 2012

Committee Chair, Society of Environmental Toxicology and Chemistry organizational committee for annual conference Spring 2009 - Fall 2009

Program Coordinator, MidSouth Society of Environmental Toxicology and Chemistry (SETAC) Spring 2007 - Summer 2007

Officer, Other Officer, Mississippi River Embayment Regional Ground Water Study Fall 2006 - Summer 2008

Member, Society of Environmental Toxicology and Chemistry Student Activities Committee Fall 2001 - Summer 2012

Honors and Awards

James Bailey Memorial Educator of the Year, Arkansas Water Environment Association 2008

Best Student Poster Presentation, Elsevier / SETAC 2005

Environmental Sciences Doctoral Research Award, ASU 2005

Teaching

Fall 2006 Courses:

BIOL 3121 1 - PRINCIPLES OF ECOLOGY LAB

BIOL 3121 2 - PRINCIPLES OF ECOLOGY LAB

BIOL 3122 1 - PRINCIPLES OF ECOLOGY

BIOL 439V 3 - SPECIAL PROB ECOLOGY LAB STUDY

Spring 2007 Courses:

ESCI 6303 1 - GLOBAL WATER ISSUES

Fall 2007 Courses:

BIOL 3121 2 - PRINCIPLES OF ECOLOGY LAB
BIOL 3123 1 - PRINCIPLES OF ECOLOGY
BIOL 439V 6 - SP PROBLEMS PRIN ECOLOGY LAB
BIOL 439V 7 - SP PROBLEMS PRIN OF ECOLOGY
ESCI 7121 5 - TOP SEM APPLS OF US EPA PROTOC
ESCI 713V 13 - IND RES SOIL MICROBIAL ACTIVIT
ESCI 713V 21 - IND RES AQUATIC RESPONCE NANO

Spring 2008 Courses:

BIOL 439V 4 - SPPR PESTICIDE TOXICITY AQUEOU
ESCI 613V 4 - IND RSRCH APP US EPA PROTOCOL
ESCI 613V 6 - INDEPENDENT RESEARCH
ESCI 6303 1 - GLOBAL WATER ISSUES
ESCI 689V 3 - THESIS TOXICITY HYDROPONIC
ESCI 7121 4 - TOP SEM SCI RDNGS ECOTOXICOLO
ESCI 713V 10 - IND RSRCH ECON COMPARISON

Summer 2008 Courses:

ESCI 613V 1 - INDRCH PESTICIDE INTERACTION

Fall 2008 Courses:

BIO 3023 001 - Principles of Ecology
BIO 3023 002 - Principles of Ecology
BIO 680V 2 - IND STUDY MICROBIAL DETECTION
CHEM 689V 2 - THESIS SOIL ENZYME ACTIVITY
ESCI 713V 13 - INDRSCH PROJ DSGN FIELD PLOTS
ESCI 713V 15 - INDRSCH DECONTAM BACILLUS
ESCI 713V 16 - INDRSCH FATE EFFECT QUANTUM
ESCI 713V 17 - INDRSCH SOIL PESTICIDE MEASURE
ESCI 713V 18 - INDRSCH WETLAND PLANT PESTICID
ESCI 889V 3 - DISSERTATION

Spring 2009 Courses:

CHEM 680V 1 - IND ST BIOGEOCHEM CYCL NUTRIEN
CHEM 680V 3 - IND STY SOIL ENZYM FOREST ECOS
CHEM 680V 4 - IND STY SOIL ENZYM ACT AGR SYS
ESCI 6303 1 - GLOBAL WATER ISSUES
ESCI 713V 15 - IND RES CLASSIF MANUF NANOPART
ESCI 713V 16 - IND RES SUM PEST SURF WATR US
ESCI 713V 7 - IND RES NANOPART DET FLUORIMET
ESCI 889V 4 - DISSERTATION

Summer 2009 Courses:

ESCI 713V 3 - INDEPENDENT RESEARCH

Fall 2009 Courses:

BIO 3023 001 - Principles of Ecology

BIO 3023 002 - Principles of Ecology

BIO 403V 001 - SPEC PROBLEMS

BIO 6653 1 - AQUATIC ECOTOXICOLOGY

ESCI 6913 1 - ADV METH MAT TEACH MID SEC SCH

ESCI 713V 10 - IND RES MODELS IMPROV WATR QUA

ESCI 713V 11 - IND RES QD UPTAKE USING FLUORI

ESCI 713V 18 - IND RES APPL USEPA PROTOCOL

ESCI 713V 19 - IND RES WATER QUAL BIOEN CROPS

ESCI 713V 20 - IND RES APPLIC OF ALGAE TOXICI

Spring 2010 Courses:

BIO 680V 10 - IND STY WATER QUAL IMPACT BIO

BIO 680V 3 - IND STY EARTHWORM PREF TOXICIT

BIO 680V 9 - IND STY SPT ESCI ADV TEACH MID

ESCI 6303 1 - GLOBAL WATER ISSUES

ESCI 7121 2 - TOPICAL SEM READ IN ECOTOXICOL

ESCI 713V 11 - INDRCH APP STAND AQUEOUS TOX

ESCI 713V 7 - INDRSCH WATER QUALITY 2ND GEN

ESCI 713V 8 - INDRSCH SED TOX STRAWBERRY RVR

ESCI 713V 9 - INDRSCH SED TOX FROM COTTON

Summer 2010 Courses:

BIO 638V 2 - THESIS WATER SOIL QUAL SORGHUM

BIO 680V 2 - IND STY BASICS AQUATIC ECOTOXI

ESCI 7121 1 - TOP SEM EPA PROT WTR SEDI TEST

Fall 2010 Courses:

BIO 3023 001 - Principles of Ecology

BIO 3023 002 - Principles of Ecology

BIO 680V 4 - EPA PROT FOR AQ SED TEST

ESCI 6913 1 - ADV METH MAT TEACH MID SEC SCH

ESCI 889V 8 - DISSERTATION

Spring 2011 Courses:

BIO 638V 4 - THESIS MA PRACTICUM HOURS
BIO 6653 1 - AQUATIC ECOTOXICOLOGY
BIO 680V 3 - IND ST SPT ESCI ADV TEACH MID
BIO 680V 6 - IN ST WATER QUA ANALY AGRI MGM
ESCI 889V 11 - DISSERTATION
MBS 713V 8 - INDST PATHOGEN DETECTION WATER

Summer 2011 Courses:

BIO 680V 5 - IND ST TOXICOLOGY COTTON MGMT

Fall 2011 Courses:

BIO 3023 001 - Principles of Ecology
BIO 3023 H01 - HNRS PRINCIPLES OF ECOLOGY
ESCI 6913 1 - ADV METH MAT TEACH MID SEC SCH
ESCI 713V 1 - IND RE TEACHING UNIVERSITY LEV
ESCI 889V 2 - DISSERTATION

Spring 2012 Courses:

CHEM 427V 005 - RESEARCH IN CHEMISTRY
ESCI 6303 1 - GLOBAL WATER ISSUES
ESCI 7121 2 - DEV OF RES TESTING PROTOCOL
ESCI 713V 1 - ST SPT ESCI ADV TEACH
ESCI 713V 11 - INV OF N AND P IN CACHE RIVER
ESCI 713V 14 - ANALYSIS DRAINAGE LITTLE RIVER
ESCI 713V 15 - WATER QUALITY OF LITTLE RIVER
ESCI 889V 2 - DIS LAND USE AND MGMT PRACTICE
ESCI 889V 4 - DISSERTATION

Summer 2012 Courses:

MBS 713V 8 - IND ST EFFECT NANO INHALATION

Fall 2012 Courses:

BIO 3023 001 - PRINCIPLES OF ECOLOGY
BIO 3023 H02 - HNRS PRINCIPLES OF ECOLOGY
BIO 403V 006 - SP PR ENV TEST AND ORG CULT
ESCI 6913 001 - ADV METH MAT TEACH MID SEC SCH
ESCI 713V 01 - IND RES LICHEN ANALYSES
ESCI 713V 013 - IND RES AQUEOUS TOXICITY TEST
ESCI 889V 003 - DIS MGMT PRACTICE ON WATERSHED
ESCI 889V 004 - DISSERTATION

MBS 889V 006 - DIS NANOPARTICLE EFFECT ON ORG