

CURRICULUM VITAE
Jon E. Schoonover
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Department of Forestry
1205 Lincoln Drive
Southern Illinois University Carbondale
Carbondale, IL 62901-4411
Telephone: 618-453-7468
Fax: 618-453-7475
Email: jschoon@siu.edu

EDUCATION

Ph.D., Forest Hydrology. Dec. 2005. School of Forestry and Wildlife Sciences, Auburn University, AL. Dissertation Title: Hydrology, Water Quality, and Channel Morphology Across an Urban – Rural Gradient in the Georgia Piedmont, USA.

M.S. Forestry. Dec. 2001. Department of Forestry, Southern Illinois University Carbondale, Carbondale. IL. Thesis Title: Native riparian vegetation impacts on agricultural surface and subsurface water quality in the Cache River watershed.

B.S., Forestry, Dec. 1999
Southern Illinois University Carbondale
Carbondale, IL 62901

A.S., General Science, May 1997
Kaskaskia Junior College
Centralia, IL 62801

EMPLOYMENT HISTORY

Assistant Professor of Physical Hydrology. Jan. 2006 – Current. Department of Forestry, Southern Illinois University, Carbondale.

Research Assistant. Jan, 2002-Dec. 2005.
School of Forestry and Wildlife Sciences, Auburn University

Research Assistant, Dec. 1999-Dec. 2001
Department of Forestry, Southern Illinois University Carbondale

COURSES TAUGHT AT SIUC

FOR 452 Forest Soils
FOR 452L Forest Soils Laboratory
FOR 415 Urban Ecosystem Management
FOR 100 Introduction to Forestry

HONORS AND AWARDS

2005 Meriwether Fellowship, Auburn University
2004 James Floyd Goggan's Endowed Fellowship in Forest Biology, School of Forestry and Wildlife Sciences, Auburn University
2004 Outstanding Graduate Student Award in the School of Forestry and Wildlife Sciences
2003 Richard A. Herbert Memorial Scholarship, American Water Resources Association
2002-2005 Westervelt Fellowship, School of Forestry and Wildlife Sciences, Auburn University

PROFESSIONAL AFFILIATIONS

Xi Sigma Pi National Forestry Honorary Society
American Water Resources Association (AWRA) – National
Society of Wetland Scientists Member (SWS)
Soil and Water Conservation Society Member (SWCS)
Charter member and Treasurer of Illinois Student Chapter of AWRA at Southern Illinois University Carbondale

RESEARCH INTERESTS

Sediment source tracking, impacts of land use on water chemistry, hydrology, channel morphometry, and sediment transport, fecal coliform contamination across multiple land uses, and riparian zone management in agricultural systems.

FUNDED PROJECTS

Williard, W.J., M.R. Whiles, and J.E. Schoonover. 2006. Analysis of water quality and quantity in the Kaskaskia River Watershed. Illinois Southwest Resource Conservation and Development Area, Inc.

Schoonover, J.E. 2006. Particle size analysis and channel morphology changes in two West Virginia watersheds following harvesting. USDA, Forest Service.

PUBLICATIONS

Refereed Publications:

Schoonover, J.E., K.W.J. Williard, J.J. Zaczek, J.C. Mangun, and A.D. Carver. 2006. Agricultural Sediment Reduction by Giant Cane and Forest Riparian Buffers. *Water, Air, and Soil Pollution*. 169 (1-4):303-315.

Schoonover, J.E., B.G. Lockaby, and S. Pan. 2005. Changes in chemical and physical properties of stream water across an urban-rural gradient in western Georgia. *Urban Ecosystems*. 8:107-124.

Schoonover, J.E., K.W.J. Williard, J.J. Zaczek, J.C. Mangun, and A.D. Carver. 2004. Nutrient attenuation in agricultural surface runoff by riparian buffer zones in southern Illinois, USA. *Agroforestry Systems*. 64: 169-180.

Schoonover, J.E. and B.S. Helms. 2005. Fire effects on the management of Giant Cane (*Arundinaria gigantea*) in the southeastern United States. *Fire Encyclopedia*

- Network. Kennard, D. (ed.) <http://fire.forestencyclopedia.net/>.
- Schoonover, J.E. and B.S. Helms. 2004. Fire effects on water quality. Fire Encyclopedia Network. Kennard, D. (ed.) <http://fire.forestencyclopedia.net/>.
- Helms, B.S. and J.E. Schoonover. 2004. Fire effects on aquatic fauna. Fire Encyclopedia Network. Kennard, D. (ed.) <http://fire.forestencyclopedia.net/>.
- Schoonover, J.E., K.W.J. Williard. 2003. Groundwater nitrate reduction in giant cane and forest riparian zones. *Journal of the American Water Resources Association*. 39(2):347-354.
- Manuscripts in Review:**
- Schoonover, J.E., B.G. Lockaby, and B.S. Helms. 2006. Effects of watershed land use on perennial streams of west Georgia, USA. I: Influence of urban development on stream hydrology. *Journal of Environmental Quality*. In Review.
- Helms, B.S., J.E. Schoonover, and J.W. Feminella. 2006. Effects of watershed land use on perennial streams of west Georgia, USA. II: Indirect influence of urbanization on fish assemblages. *Journal of Environmental Quality*. In Review
- Schoonover, J.E. and B.G. Lockaby. 2006. Changes in Nutrient and Bacteriological Properties of Stream Water Across an Urban-Rural Gradient in Western Georgia. *Journal of Hydrology*. In Review.
- Schoonover, J.E., B.G. Lockaby, and J.N. Shaw. 2006. Channel Morphology and Sediment Origin in Streams Draining the Georgia Piedmont. *Journal of Environmental Quality*. In Review.
- Non-Refereed Publications:**
- Schoonover, J.E. 2005. Hydrology, water quality, and channel morphology across an urban-rural gradient in the Georgia Piedmont, USA. Ph.D. Dissertation. Auburn University, Auburn, AL. 184pp.
- Schoonover, J.E., K.W.J. Williard, J.J. Zaczek, J.C. Mangun, and A.D. Carver. 2003. Soil water nitrate concentrations in giant cane and forest riparian buffer zones. In: Van Sambeek, J.W.; J.O. Dawson; F. Ponder, Jr.; E.F. Loewenstein; and J.S. Fralish, eds. *Proceedings, 13th Central Hardwood Forest Conference*; April 1-3, 2002; Urbana, IL. Gen. Tech. Rep. NC-234. St. Paul, MN: USDA Forest Service, North Central Research Station: 206-210.
- Schoonover, J.E. 2001. Attenuation of nutrients and sediment in agricultural surface and subsurface runoff by giant cane and forest riparian buffer zones. M.S. Thesis. Southern Illinois University, Carbondale IL. 138pp.

PROFESSIONAL PRESENTATIONS (* presenter)

- Schoonover, J.E.*, B.G. Lockaby, and B.S. Helms. June 6-10, 2005. Effects of land use on hydrology of low-order streams in the southern Piedmont of Georgia. Society of Wetland Scientists Annual Meeting, Charleston, SC. (Submitted)
- Schoonover, J.E*., B.G. Lockaby, and B.S. Helms. March 13-16, 2005. Sediment and hydrological relationships along an urban-rural gradient in the lower Piedmont. Urban-Rural Interface Conference, Atlanta, GA. (published abstract)
- Helms, B.S.* , J.E. Schoonover, and J.W. Feminella. March 13-16, 2004. Evaluating hydrology and stream biotic integrity across a gradient of urbanization. Urban-Rural Interface Conference, Atlanta, GA (Submitted)
- Schoonover, J.E.* , B.G. Lockaby, and B.S. Helms. November 1-4, 2004. Sediment and hydrologic relationships along an urban-rural gradient in the lower Piedmont of western Georgia. American Water Resources Association Annual Meeting, Orlando, FL. (published abstract)
- Helms, B.* , J. Schoonover, and J. Feminella. November 1-4, 2004. Relating hydrologic alteration and stream biotic integrity across a gradient of urbanization. American Water Resources Association Annual Meeting, Orlando, FL. (published abstract)
- Schoonover, J.E.* and B.G. Lockaby. September 8-10, 2004. Sediment and hydrological change across an urban-rural gradient in the lower Piedmont of western Georgia. 18th Annual Alabama Water Resources Conference. Orange Beach, AL. (published abstract)
- Helms, B., J. Schoonover, J. Feminella. September 8-10, 2004. Urbanization and stream biotic integrity: exploring the influence of hydrologic alteration on fish and macroinvertebrates. 18th Annual Alabama Water Resources Conference. Orange Beach, AL. (published abstract)
- Williard, K.W.J.* , J.E. Schoonover, and J.J. Zaczek. December 8, 2003. Nutrient and sediment attenuation by giant cane and forest riparian buffers in southern Illinois. Midwest Fish and Wildlife Conference. Kansas City, KS. (published abstract)
- Schoonover, J.E.* and B.G. Lockaby. November 3-6, 2003. Effects of urban development on water quality in the lower Piedmont of western Georgia. American Water Resources Association Annual Meeting. San Diego, CA. (published abstract)
- Williard, K.W.J. and J.E. Schoonover*. November 3-6, 2003. Overland flow sediment and nutrient dynamics in remnant riparian buffers. American Water Resources Association Annual Meeting. San Diego, CA. (published abstract)
- Schoonover, J.E.* and B.G. Lockaby. September 3-5, 2003. Effects of Urban

- Development on Water Quality in the Middle Chattahoochee Watershed in Western Georgia. 17th Annual Alabama Water Resources Conference. Orange Beach, AL. (published abstract)
- Schoonover, J.E.* and B.G. Lockaby. June 8-13, 2003. Water quality changes across an urban-rural gradient in the lower piedmont of Georgia. Society of Wetland Scientists 24th Annual Meeting. New Orleans, LA. (published abstract)
- Schoonover, J.E.* , B.G. Lockaby, and P.L. Chaney. August 3-8, 2003. Changes in water quality across an urban-rural landscape gradient: the west Georgia project. 88th Annual Ecological Society of America Conference. Savannah, GA. (published abstract)
- Schoonover, J.E.* and B.G. Lockaby. February 25-27, 2003. Relationships between land development and water quality in the lower Piedmont of western Georgia. 12th Biennial Southern Silvicultural Research Conference. Biloxi, MS. (published abstract)
- Williard, K.W.J.* , J.E. Schoonover, and J.J. Zaczek. November 12, 2002. Nitrogen, phosphorus, and sediment attenuation in giant cane and forest riparian buffer zones. Illinois Council on Food and Agricultural Research Day. Carbondale, IL.
- Williard, K.W.J., Schoonover, J.E.* , and J.J. Zaczek. November 3-7, 2002. Nitrogen, phosphorus, and sediment attenuation in giant cane and forest riparian buffer zones. American Water Resources Association Annual Conference. Philadelphia, PA. (published abstract)
- Williard, K.W.J.* , J.E. Schoonover, J.J. Zaczek, J.C. Mangun, and A.D. Carver. October 29, 2002. Water quality benefits of riparian vegetation in southern Illinois. 2002 Annual Meeting: The North Central Region Association of Agricultural Experiment Station Directors, Technical Committee on Riparian Management in Midwest Agricultural and Forest Ecosystems (NC-230). Carbondale, IL.
- Schoonover, J.E.* and B.G. Lockaby. September 4-6, 2002. Interactions between water quality and land development in the Lower Piedmont of western Georgia. 16th Annual Alabama Water Resources Conference. Orange Beach, AL. (published abstract)
- Schoonover, J.E.* and K.W.J. Williard. April 1-3, 2002. Native riparian vegetation impacts on agricultural surface and subsurface water quality in the Cache River watershed. 13th Central Hardwoods Conference. Champaign, IL. (published proceedings article)
- Schoonover, J.E.* and K.W. Williard. November 12-15, 2001. Nutrient and Sediment Retention in Forest and Cane Riparian Zones. American Water Resources

Association National Conference. Albuquerque, NM. (published abstract)

Williard, K.W.J.*, J.E. Schoonover, J.M. O'Brien, and J.A. Webber. March 7-9, 2001. Water quality benefits of native riparian vegetation in the Cache River watershed. Illinois Renewable Natural Resources Conference. Peoria, IL. (published abstract)

Schoonover, J.E.* and K.W.J. Williard. March 7-9, 2001. Native riparian vegetation impacts on agricultural surface and subsurface water quality in the Cache River Watershed. Illinois Renewable Natural Resources Conference. Peoria, IL. (published abstract)

Schoonover, J.E.*, and K.W.J. Williard. November 2000. Native riparian vegetation impacts on agricultural surface and subsurface water quality in the Cache River watershed.