

JAMES J. ZACZEK

Professor of Forest Ecology, Forestry Program, Southern Illinois Univ. (SIUC), Carbondale, IL 62901
zaczek@siu.edu

Terminal Degree

1994 Ph.D. Forest Resources, Pennsylvania State University, University Park, PA. Dissertation title:
 Genetic, Ontogenetic, and Environmental Influences on Cloning Performance of *Quercus*
rubra L.

Recent Positions Held

2020 - 2020 **Program Coordinator**, Forestry, SIUC
 2010 - 2019 **Chair**, Department of Forestry, SIUC
 2010 - 2019 **Chair**, Illinois Forestry Development Council
 2009 - 2016 **Chair**, North Central Region, National Assoc. of University Forest Resource
 Programs
 2009 - present **Professor of Forest Ecology**, Department of Forestry, SIUC

Peer-Reviewed Publications (n=46)

- Goble, M. D., Singh, G., Schoonover, J.E., K.W.J. Williard, and Zaczek J.J. 2018. Allometry, Morphometry, and Soil Characterization of Giant Cane (*Arundinaria gigantea*) Stands. *Ecological Restoration*. (doi: 10.3368/er.36.4.315) 36(4): 315-324.
- Eade, A.W., Singh, G., Schoonover, J.E., Zaczek J.J., and K.W.J. Williard. 2018. Innovative Sandbag Propagation Method for Giant Cane [*Arundinaria gigantea* (Walter) Muhl.] *Castanea*. 83(2): 173-182.
- Schoonover, J.E., J.F. Crim, K.W.J. Williard, J.W. Groninger, J.J. Zaczek, and K. Pattumma. 2015. Sediment dynamics within buffer zone and sinkhole splay areas under extreme soil disturbance. *Environmental Management*. (DOI: 10.1007/s00267-015-0523-z).
- Beck, W.J., Schoonover, J.E., Williard, K.W.J., and Zaczek, J.J. 2013. Attenuation and persistence of fecal indicator bacteria in vegetated buffer strips in Southern Illinois, USA. *Agroforestry Systems*. 87(6): 1405-1419.
- Schoonover, J. E., J. L. Hartleb, J. J. Zaczek, and J. W. Groninger. 2011. Growing Giant Cane (*Arundinaria gigantea*) for Canebrake Restoration: Greenhouse Propagation and Field Trials. *Ecological Restoration* 29:3 234-242.
- Zaczek, J. J., S. G. Baer, and D. Dalzotto. 2010. Fire and Fertilization Effects on the Growth and Spread of Rhizome-Transplanted Giant Cane (*Arundinaria gigantea*). *Restoration Ecology* 18: 462-468. Suppl. 2
<http://onlinelibrary.wiley.com/doi/10.1111/j.1526-100X.2009.00560.x/full>
- Ruzika, K. J., J. W. Groninger, and J. J. Zaczek. 2010. Deer browsing, forest edge effects, and vegetation dynamics following bottomland forest restoration. *Restoration Ecology* 18:702-710.
- Romano*, S. P., S. G. Baer, J. J. Zaczek, and K. W. J. Williard. 2009. Site modeling methods for detecting hydrologic alteration of flood frequency and flood duration in the floodplain below the Carlyle Dam, Lower Kaskaskia River, Illinois, USA. *River Research and Applications* 25:975-984.
- Zaczek, J. J., S. G. Baer, J. L. Hartleb, W. W. Brendecke, J. E. Schoonover, K. W. J. Williard, and J. W. Groninger. 2009. Survival and genet growth and development of field-planted giant cane (*Arundinaria gigantea*) over time in southern Illinois. *Castanea* 74(3): 286-299.
- Blattel C. R., K. W. J. Williard, S. G. Baer, J. E. Schoonover, and J. J. Zaczek. 2009. Ground water nitrogen dynamics in giant cane and forest riparian buffers. *Castanea* 74(3):259-270.

Grants Received: (over \$8,900,000 from 54 separate contracts)

- Investigating Native Bamboo Management Practices for Nursery Sustainability, Lakeshore Conservation and Habitat Restoration, 2019-2023. McIntire-Stennis Cooperative Forestry Research Grant, National Institute of Food and Agriculture's (NIFA) United States Department of Agriculture (USDA). \$80,000. J. J. Zaczek (PI)
- The Illinois Forestry Summit. Supplemental funding for the Illinois Forestry Development Council Director and Support, 2018. Illinois Department of Natural Resources (IDNR) \$29,975. J. J. Zaczek (PI)
- Improving Oak Hickory Forestland Health in Illinois, 2016-2019) funded and administered through the Regional Conservation Partnership Program (RCPP), USDA Natural Resource s Conservation Service, \$2,300,000. (submitted as Chair of the Illinois Forest Development Council)
- Illinois Forestry Development Council Director and Support, 2016-2019. IDNR. \$244,035. J. J. Zaczek (PI)
- Developing giant Cane (*Arundinaria gigantea*) bottomland ecosystem restoration, rehabilitation, and nursery management techniques. 2014-2018. McIntire-Stennis Cooperative Forestry Research Grant, National Institute of Food and Agriculture's (NIFA) United States Department of Agriculture (USDA). \$80,000. J. J. Zaczek (PI)
- Illinois Forestry Development Council Director and Support, 2013-2016. IDNR \$198,825. J. J. Zaczek (PI)
- Evaluation and Management of Surface Hydrology, Erosion, and Sedimentation Associated with Tracked and Wheeled Vehicle Training – Phase I, at U.S. Army Garrison Fort Knox, Fort Knox, Kentucky. 2007-2010. Subcontract with ICI Services, LLC. \$882,224. K. W. J. Williard, J. E. Schoonover, J. W. Groninger, J. J. Zaczek, and C. M. Ruffner (Co-Principle Investigators, Co-PIs).
- Growing Economic and Environmental Applications of Giant Cane as a Best Management Practice. 2007-2010. Illinois Council on Food and Agriculture Research (CFAR). \$57,212. J. E. Schoonover and J. J. Zaczek (Co-PIs).

Courses Taught: Ecology of North American Forests, Forest Ecosystems, Tree Identification Laboratory, Tree Physiology: Concepts and Application, Forest Industries Field Studies, Forestry Seminar, Research Methods, Introduction to Forestry, Forest Ecology Field Studies - Lake States, Forest Ecology Field Studies – Appalachians, Field Dendrology (PSU).

Completed M.S. Theses or Ph.D. Dissertations under My Direction: (14 at SIUC)

Other Credentials:

- Served on over 60 Graduate Student Committees at SIUC.
- 37 invited talks at professional meetings
- >200 presentations and abstracts at professional meetings
- Awarded Honorary State FFA Degree for meritorious service to agricultural education
- “Outstanding Alumnus” by the Department of Forestry, SIUC.
- “Outstanding Recent Alumnus” by the School of Forest Resources at Pennsylvania State University
- The Donald M. Elkins Excellence in Education Award. College-wide recognition for teaching achievement presented by the COAS Student Advisory Council, SIUC.
- Co-inventor (with H. D. Gerhold) of three separate varieties (PennSpanish-II, Pennpal-75, and Pennmerritt-74) of genetically improved Christmas tree seed of *Pinus sylvestris* L. as officially approved by the Pennsylvania State Agricultural Experiment Station
- Chair and Vice Chair of the Illinois Chapter of the Society of American Foresters, 2007-2008.