

CURRICULUM VITAE

University of Idaho

NAME: P. Charles Goebel

DATE: 1/5/2021

RANK OR TITLE: Department Head and Professor

DEPARTMENT: Forest, Rangeland and Fire Sciences; College of Natural Resources

OFFICE LOCATION AND CAMPUS ZIP: CNR 204A / 1133

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DATE OF FIRST EMPLOYMENT AT UI: 09/11/2017

DATE OF TENURE: 2017

DATE OF PRESENT RANK OR TITLE: 2017

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D., Michigan Technological University, Houghton, MI. 2001. Forest Science.

M.S., The Ohio State University, Columbus, OH. 1995. Natural Resources.

B.S., Virginia Polytechnic Institute and State University, Blacksburg, VA. 1993. Forestry.

EXPERIENCE:

Teaching, Extension and Research Appointments:

Professor, Department of Forest, Rangeland and Fire Sciences, University of Idaho, Moscow, ID. 2017-current.

Professor, School of Environment and Natural Resources, The Ohio State University, Wooster, OH. 2012-2017.

Associate Professor, School of Environment and Natural Resources, The Ohio State University, Wooster, OH. 2007-2012.

Assistant Professor, School of Environment and Natural Resources, The Ohio State University, Wooster, OH. 2001-2017.

Graduate Research Assistant, School of Forestry and Wood Products, Michigan Technological University, Houghton, MI. 1997-2001.

Research Technician III, J.W. Jones Ecological Research Center, Newton, GA. 1995-1997.

Graduate Research Assistant, School of Natural Resources, The Ohio State University, Columbus, OH. 1993-1995.

Forestry Technician. Department of Forestry, Virginia Polytechnic Institute and State University, Blacksburg, VA. 1990-1993.

Biological Aide, U.S. Forest Service Northeastern Research Station, Morgantown, WV. 1990.

Academic Administrative Appointments:

Department Head, Department of Forest, Rangeland and Fire Sciences (FRFS), College of Natural Resources, University of Idaho, Moscow, ID. 2017-current.

Provide leadership, administration, and management for FRFS personnel and budgets, including faculty (22 tenure-track faculty and several research faculty and instructors), staff, and students enrolled in four undergraduate degree programs (Fire Ecology and Management, Forestry, Rangeland Conservation, and Renewable Materials) and graduate programs specializing forest, fire, rangeland, and renewable material sciences.

Associate Dean for Research & Graduate Education (interim), College of Food, Agricultural, and Environmental Sciences (CFAES), The Ohio State University. 2017.

Served as the chief research officer for CFAES and with the Director of the Wooster Campus, served as the leader of the Ohio Agricultural Research and Development Center, Ohio's Agricultural Experiment Station. In role, advanced relationships with Ohio State's Office of Research, Office of Sponsored Programs, and Office of Technology Commercialization to leverage resources and opportunities to expand research portfolio, as well as providing overall leadership for the CFAES's research enterprise and graduate education with an emphasis on integrating research and graduate education with extension and academic programs. Helped identify and implemented best practices focusing on graduate education that address recruitment, retention, funding, professional development and career preparation, and expanded outreach to underrepresented groups and promote a welcoming, inclusive, and respectful environment within CFAES. Worked closely with other groups with College and University to develop and implement comprehensive strategies to enhance business and industry relationships to support sponsored research, coordinating resources and capacity in CFAES to engage internally and externally. Worked with the Ohio State Graduate School and advocated for graduate education in the agricultural and related sciences, with an emphasis on developing comprehensive strategies to identify funding opportunities for research and graduate education. Finally, worked collaboratively with CFAES leadership to identify and support the comprehensive and coordinated investment in facilities and infrastructure to support and advance the CFAES research enterprise.

Assistant Director, School of Environment and Natural Resources (SENR), College of Food, Agricultural, and Environmental Sciences, The Ohio State University, Wooster, OH. 2012-2016.

Provided administrative and management support for School personnel (10 faculty and research scientists, 11 research and administrative staff, and graduate students), facilities, and programs at the Wooster campus including academic, research, and extension functions. Additionally, provided administration and management of School's overall research enterprise, including reporting and policies related to research activities and expenditures, and served as a liaison for SENR Wooster-based and Wooster campus-related functions, committees, programs, and constituencies.

Non-Academic Employment:

Program Director, Lake States Fire Science Consortium (member of the Joint Fire Science Program Fire Science Exchange Network). Description. 2009-2017.

Led a group of nine university and agency scientists and support staff to acquire over \$1.5M in funding to deliver fire science information to fire practitioners, resource managers, and policymakers using a variety of outlets (e.g., monthly webinars, scientific conferences, field-based workshops, and training opportunities for undergraduates and resource professionals) to increase awareness, understanding, and a commitment to incorporating fire science into forest and natural resource management decisions.

Consulting:

Serve as an independent consultant assisting local landowners by developing forest management plans that help landowners meet requirements of the Ohio Current Agricultural Use Valuation (CAUV) Program. 2008-present.

TEACHING ACCOMPLISHMENTS:**Areas of Specialization:**

Forest ecosystem restoration and ecology; riparian ecology and management; multivariate statistics for natural resources

Courses Taught:University of Idaho – Department of Forest, Rangeland and Fire Sciences

FOR 220 – Forest Biology and Dendrology (Fall Semester, 2019-current)

FOR 221 – Principles of Ecology (Spring Semester, 2020-current)

FOR 330 – Dendrology (Fall Semester, 2018).

REM 280 – Introduction to Wildland Restoration (Spring Semester, 2018-current).

FOR 501/REM 501 – Current Topics Seminar (Fall and Spring Semesters, 2018-current).

The Ohio State University – School of Environment and Natural Resources

ENR 221 - Biology and Identification of Woody Forest Plants (Fall Quarter, 2001-2003; co-taught with D. Hix).

ENR 533 – Forestry Field Studies (Fall Quarter, 2001-2003; co-taught with R. Gates and R. Williams).

ENR 606.02 – Natural Resources Management – capstone course for Forestry, Fisheries, and Wildlife students (Fall Quarter, 2004-2007; co-taught with R. Gates and R. Williams).

ENR 731 – Principles and Applications of Forest Ecosystem Restoration (Winter Quarter, 2003-2008).

ENR 756 (5560) - Rehabilitation and Restoration of Ecosystems (Fall Quarter 2010-2011, Fall Semester, 2012-2016).

ENR 770 – Watershed Management and Restoration (Winter Quarter 2005-2008; co-taught with V. Bouchard and L. Williams).

ENR 822 (8780) – Quantitative Methods for Natural Resources (Winter Quarter 2004-2010, Spring Semester 2012-2016; every other year; co-taught with R. Gates).

ENR 899.03 - Special Topics in Environmental Science: Foundations and Frontiers in Environmental Science (Winter Quarter 2009-2011).

The Ohio State University – Agricultural Technical Institute

CRPSOIL 2580T – Soil Fertility and Fertilizers (Spring Semester, 2014).

Northern Michigan University – Department of Geography

GC 202 – Soils (Fall Semester, 1998).

Students Advised:Undergraduate Students:*Undergraduate Honors Exam Committees at The Ohio State University*

Robert Denney (2016) - School of Environment and Natural Resources.
 Roxanne Anderson (2013) - School of Environment and Natural Resources.
 Stephanie Colwell (2007) - School of Environment and Natural Resources.
 Stephen Rist (2006) - School of Environment and Natural Resources.

High School and Undergraduate Research Interns at The Ohio State University

Nicky Rosner (2016), Triway High School.
 Johnny Goldenberg (2014), Shaker Heights International Baccalaureate Program.
 William Harrison (2014), College of Wooster.
 Silvia Francis-Bongue (2012), Wooster High School.
 Erin Gorrell (2012), The Ohio State University.

Graduate Students and Post-Doctoral Associates:*Major Advisor for Ph.D. Students***University of Idaho**

Dalyna Hannah (current, started Fall 2021) – *Topic: TBD*. Department of Forest, Rangeland and Fire Sciences.

Frank Kamarick-Luth (current, started Fall 2019) – *Topic to be determined*. Department of Forest, Rangeland and Fire Sciences.

Ben Spei (current, started Fall 2018) – *Resistance of trembling aspen stands to changing climate in southeastern Idaho*. Department of Forest, Rangeland and Fire Sciences.

Eric Winford (current, started Fall 2021) – *Topic: TBD*. Department of Forest, Rangeland and Fire Sciences.

Emily Yurcich (current, started Fall 2019) – *Longevity of masticated fuels in a Ponderosa pine forest ecosystem*. Department of Forest, Rangeland and Fire Sciences.

The Ohio State University

Yanting Guo (2018; co-advised with R. Moore) – *Farmer attitudes related to water quality and nutrient trading in the Blanchard Watershed, northwestern Ohio*. Environmental Science Graduate Program.

Sarah Rose (2017) – *Ecology and successional dynamics of forest spider communities following natural disturbances in forest ecosystems*. School of Environment and Natural Resources.

Charles Goss (2014) – *Influence of forest fragments on headwater stream ecosystems in agricultural landscapes*. School of Environment and Natural Resources. (co-advised with M. Sullivan).

Priscilla Nyamai (2013) – *Regeneration layer dynamics of mixed-pine forest ecosystems of the northern Lake States*. School of Environment and Natural Resources.

Katherine Martin (2012) – *Changes in composition, structure and function of hemlock forests in the central Appalachians in response to hemlock wooly adelgid*. School of Environment and Natural Resources.

Kathryn Holmes (2008) – *Hierarchical analysis of riparian areas of the Lower Cuyahoga River Watershed, northeastern Ohio*. School of Environment and Natural Resources.

Bruce Allen (2007) – *Vegetation dynamics and response to disturbance in floodplain forest ecosystems with a focus on lianas*. School of Environment and Natural Resources.

Arthur Morris (2005) – *Large-scale geomorphic controls on large wood jams and associated fish communities in old-growth and second-growth northern forests*. School of Environment and Natural Resources.

Gary Graham (2005) – *Analysis of production practices and demographic characteristics of the Ohio maple syrup industry*. School of Environment and Natural Resources.

Major Advisor for M.S. Students

The Ohio State University

Ryan Vogel (current) – *Invasive species ecology and policy in an urban Midwestern forest*. School of Environment and Natural Resources and City and Regional Planning.

James Palus (2017) – *Environmental influences on ecosystem resilience in mixed-oak forests of southeastern Ohio*. School of Environment and Natural Resources.

Ellie Monarch (2014) – *Ground-flora composition and diversity of young and mature wildfire-regenerated jack pine forests*. School of Environment and Natural Resources.

Keely Davidson-Bennett (2011) - *Environmental factors structuring macroinvertebrate community composition in headwater streams along a stormwater-impact gradient*. ESGP.

Heather Whitman (2009; co-advised with D. Hix) – *Effects of adjacent land-use practices and environmental factors on riparian vegetation and water quality in the Sugar Creek watershed, northeastern Ohio*. School of Environment and Natural Resources.

Stephen Rist (2008) – *Effects of timber harvesting on red pine forest ecosystems in the Upper Peninsula of Michigan*. School of Environment and Natural Resources.

Natalie Pinheiro (2008) – *Stand development and disturbance history of a second-growth and old-growth beech-maple forest ecosystem of north-central Ohio*. ESGP.

Thomas Wyse (2004) – *Biological legacies of historical fires, logging and fire suppression on the structure and composition of coastal pine forests at Sleeping Bear Dunes National Lakeshore*. School of Environment and Natural Resources.

Kathryn Holmes (2004) – *Landscape factors influencing water quality and the development of reference conditions for riparian restoration in the headwaters of a northeast Ohio watershed*. School of Environment and Natural Resources.

Major Advisor for Professional Students

The Ohio State University

Nathan Smiell (2012) – *Land use and land cover relationships to water quality in the headwaters of the Upper Sugar Creek watershed, northeastern Ohio*. School of Environment and Natural Resources, Master of Environment and Natural Resources.

Member of Ph.D. Advisory and/or Exam Committees

University of Idaho

Danielle Berardi (current). Department of Forest, Rangeland and Fire Sciences.

Sean DiStefano (current). Department of Forest, Rangeland and Fire Sciences.
 Derek Tilley (current). Department of Forest, Rangeland and Fire Sciences.
 Kathryn Baker (2020). Department of Forest, Rangeland and Fire Sciences.

The Ohio State University

Kristen Diesburg (current). School of Environment and Natural Resources.
 Chris Riley (current). Department of Entomology.
 Stephen Murphy (current). Department of Ecology, Evolution, and Organismal Biology.
 Kayla Perry (2017). Department of Entomology.
 Jed Stinner (2017). Environmental Science Graduate Program.
 Mike Grazioni (2017). School of Environment and Natural Resources
 Erin O'Brien (2017). Department of Entomology.
 Leslie Rieck (2016). School of Environment and Natural Resources.
 Grey Everson (2016). Department of Geography.
 Darryl Marois (2015). School of Environment and Natural Resources.
 Paradzayi Tagwireyi (2013). School of Environment and Natural Resources.
 Kevin Rice (2013). Department of Entomology.
 Brady Hardiman (2012). Department of Ecology, Evolution, and Organismal Biology.
 Laura Kerns (2012). School of Environment and Natural Resources.
 Wendy Klooster (2012). Department of Horticulture and Crop Science.
 Kay Stefanik (2012). Environmental Science Graduate Program.
 Divya Gupta (2011). School of Environment and Natural Resources.
 Luke Nave (2007). Department of Ecology, Evolution, and Organismal Biology.
 Archis Grubh (2006). School of Environment and Natural Resources.
 Lynn Sosnoskie (2005). Department of Horticulture and Crop Science.
 Reid Coffman (2004). Department of Horticulture and Crop Science.
 Suparna Biswas (2004). Department of Ecology, Evolution, and Organismal Biology.

Member of M.S. Advisory Committees

University of Idaho

Ellen Incelli (current). Department of Soil and Water Systems.

The Ohio State University

Shelby Weiss (2017). School of Environment and Natural Resources.
 Jenny Pugliese (2017). School of Environment and Natural Resources.
 Erin Andrew (2016). School of Environment and Natural Resources.
 Beth Renner (2014). School of Environment and Natural Resources.
 Matt Pollack (2014). School of Environment and Natural Resources.
 Jason Tucker (2014). School of Environment and Natural Resources.
 Paul Soltész (2013). School of Environment and Natural Resources.
 Mark Wiley (2012). School of Environment and Natural Resources.
 Gwyneth Myer (2012). School of Environment and Natural Resources.
 Tom Macy (2012). School of Environment and Natural Resources.
 Wanying Zhao (2011). Department of Horticulture and Crop Science.
 John Reinier (2011). School of Environment and Natural Resources.
 Clayton Dygert (2011). School of Environment and Natural Resources.
 David Henry (2010). School of Environment and Natural Resources.
 Edward Moore (2009). School of Environment and Natural Resources.
 Sonia Bigham (2009). School of Environment and Natural Resources.
 Stephanie Collwel (2009). School of Environment and Natural Resources.
 Alison Willingham (2008). School of Environment and Natural Resources.
 Edmund Ingham (2008). School of Environment and Natural Resources.
 James Downs (2008). School of Environment and Natural Resources.
 Carrie Rasik (2008). School of Environment and Natural Resources.

Debra Scott (2007). School of Environment and Natural Resources.
 Elizabeth Swinehart (2006). School of Environment and Natural Resources.
 Anne Marie Smith (2006). Department of Entomology.
 Marie Schecengost (2005). School of Environment and Natural Resources.

Post-doctoral Associates

The Ohio State University

Dr. Charles Goss (2014-2015) – Currently Research Scientist, Washington University (St. Louis, MO).

Dr. Katie Costigan (2014; co-advised with K. Jaeger) – Currently Assistant Professor, School of Geosciences, University of Louisiana at Lafayette (Lafayette, LA).

Dr. Jessica Miesel (2010-2012) – Currently Assistant Professor, Department of Forestry, Michigan State University (East Lansing, MI).

Dr. Kathryn L. Holmes (2009) – Currently living in Wooster, OH.

Dr. Igor Drobyshv (2006-2008) – Currently Lector, Swedish University of Agricultural Sciences (Alnarp, Sweden); Associate Professor, Universite du Quebec en Abitibi-Temiscaminque (Rouyn-Noranda, Quebec).

Dr. Arthur E.L. Morris (2005-2006) – Currently owns AidEcology (Ecological Consulting Company) and Adjunct Instructor, Brigham Young University Idaho and Salt Lake Community College (Salt Lake City, UT).

Awards and Recognition for Graduate Students

The Ohio State University

Society of American Foresters Diversity Ambassador Fellowship: Ryan Vogel (2016).

The Ohio State University Fellowship Awardee: Keely Davidson-Bennett (2008); Sarah Rose (2011)

College of Food, Agriculture, and Environmental Science Environmental Research Fellowship Awardees: Katie Martin (2007); Keely Davidson-Bennett (2009).

Ohio Agricultural Research and Development Center (OARDC) Minority Associateship: Ryan Vogel (2016).

Thorne Memorial Associateship Awardees (OARDC): Arthur Morris (2004); Katie Holmes (2007).

Director's Fellowship Awardee (OARDC): Katie Martin (2008).

National Science Foundation GK-12 Fellows: Natalie Pinheiro (2007); Katie Martin (2009, 2010); Charles Goss (2010, 2011); Keely Davidson-Bennett (2010); Sarah Rose (2012).

Best Poster, 2005 National Water Quality Meeting: Katie Holmes.

Best Poster, 2014 Stewardship Network Conference: Elizabeth Monarch.

Second-Place Poster, 2016 Society of American Foresters National Convention: Jim Palus.

SCHOLARSHIP ACCOMPLISHMENTS:**Invited Publications:**

- Morris, A. E.L., W. Fisher, E. Maloutas-Storheim, and *P.C. Goebel*. 2010. On the Need for Stream and Riparian Restoration in Land Conservation. Pp. 177-180, In: *Stream Restoration: Halting Disturbances, Assisted Recovery and Managed Recovery*. Edited by G.D. Hayes; and T. Flores. Hauppauge, NY: Nova Science Publishers, Inc.
- Mitchell, R.J., K.L. Clark, M.D. Hurteau, B.J. Palik, M.E. Rocca, M.C. Wimberly, J.B. Bradford, P.M. Brown, J.J. Charney, B. Clinton, P.Z. Fulé, *P.C. Goebel*, R.S.H. Kennedy, Y. Liu, L.H. MacDonald, J.J. O'Brien, H. Renninger, R. Scheller, N. Skowronski, G. Starr, and A.H. Taylor. 2013. Fire-Climate Interactions: A Technical Input Report. *National Climate Assessment, U.S. Global Change Research Program*. Washington, D.C.
- Corace, R. G., III and *P.C. Goebel*. 2010. An ecological approach to forest management for wildlife: integrating disturbance ecology patterns into silvicultural treatments. *The Wildlife Professional*. Spring: 38-40.

Refereed/Adjudicated (*designates graduate student or post-doctoral advisee):Peer Reviewed Journals:

- *Nyamai, P.A., *P.C. Goebel*, R.G. Corace, III, and D.M. Hix. 2020. Regeneration patterns of key pine species in a mixed-pine forest indicate a positive effect of variable retention harvesting and an increase in recruitment with time. *Forest Ecosystems* 7, 50. <https://doi.org/10.1186/s40663-020-00264-x>.
- *Goss, C., M. Sullivan and *C. Goebel*. 2020. Effects of land-cover transitions on emerging aquatic insects and environmental characteristics of headwater streams in an agricultural catchment. *River Research & Applications* 36: 1097-1108. <https://doi.org/10.1002/rra.3639>
- *Palus, J.D., *P.C. Goebel*, D.M. Hix, and S.N. Matthews. 2018. Structural and compositional shifts in forests undergoing mesophication in the Wayne National Forest, southeastern Ohio. *Forest Ecology and Management* 430: 413-420.
- *Weiss, S.A., R.G. Corace, III, E.L. Toman, D.A. Herms, and *P.C. Goebel*. 2017. Wildlife implications across snag treatment types in jack pine stands of Upper Michigan. *Forest Ecology and Management*. 409: 407-416.
- Costigan, K.H., K.L. Jaeger, C.W. Goss, K.M. Fritz, and *P.C. Goebel*. 2016. Understanding controls on flow permanence in intermittent rivers to aid ecological research: A call for scientific integration. *Ecohydrology*. 9:1141-1153.
- *Rose, S.J., and *P.C. Goebel*. 2015. Short-term impacts of prescribed burning on the spider community (Order: Araneae) in a small Ohio grassland. *Ohio Journal of Science*. 115:79-86.
- *Nyamai, P.A., *P.C. Goebel*, D.M. Hix, R.G. Corace, III, and I. Drobyshev. 2014. Fire history, fuels, and overstory effects on the regeneration-layer dynamics of mixed-pine forest ecosystems of eastern Upper Michigan. *Forest Ecology and Management*. 322:37-47.
- Corace, R.G., III, L.M. Shartell, *P.C. Goebel*, D.M. Kashian, I. Drobyshev, and D.M. Hix. 2014. Bird communities of reference and altered mixed-pine forests: implications for restoring fire-dependent forest ecosystems. *Forest Ecology and Management*. 318:183-193.
- *Goss, C.W., *P.C. Goebel*, and S.M.P. Sullivan. 2014. Shifts in attributes along agricultural-forest transitions of two streams in central Ohio, USA. *Agriculture, Ecosystems and Environment* 197:106-117.

- Corace, III, R.G., A.T. Stout, P.C. Goebel, and D.M. Hix. 2013. Snag benchmarks and treatment options for mixed-pine forest restoration in Upper Michigan. *Restoration Ecology*. 21:608-616.
- *Martin, K.L., and P.C. Goebel. 2013. The foundation species influence of eastern hemlock (*Tsuga canadensis*) on biodiversity and ecosystem function on the Unglaciated Allegheny Plateau. *Forest Ecology and Management*. 289:143-152.
- Zhao, W., P.C. Goebel, and J. Cardina. 2013. Temporal and spatial pattern of a privet (*Ligustrum vulgare*) invasion. *Invasive Plant Science and Management*. 6:310-319.
- *Miesel, J.R., P.C. Goebel, R.G. Corace, III, D.M. Hix, R. Kolka, B.J. Palik, and D. Mladenoff. 2012. Fire effects on soil in Lake States Forests: a compilation of published research to facilitate long-term investigations. *Forests*. 3:1034-1070.
- Kocher, S.D., E. Toman, S.F. Trainor, V. Wright, J.S. Briggs, P.C. Goebel, E.M. Mont-Blanc, A. Oxarat, D.L. Pepin, T.A. Steelman, A. Thode, and T.A. Waldrop. 2012. How can we span the boundaries between wildland fire science and management in the United States? *Journal of Forestry*. 110:421-428.
- *Martin, K.L., and P.C. Goebel. 2012. Decline in riparian *Tsuga canadensis* forests of the central Appalachians across an *Adelges tsugae* invasion chronosequence. *Journal of the Torrey Botanical Society*. 139:367-378.
- *Drobyshev, I., P.C. Goebel, Y. Bergeron, and R.G. Corace, III. 2012. Detecting changes in climate forcing on fire regime in a North American mixed pine forests: a case study of Seney National Wildlife Refuge, Upper Michigan. *Dendrochronologia*. 30:137-145.
- Goebel, P.C., B.J. Palik, and K.S. Pregitzer. 2012. Structure and composition of riparian forests in an old-growth northern hardwood-hemlock watershed. *Forest Ecology and Management*. 280:52-61.
- Goebel, P.C., K.S. Pregitzer, and B.J. Palik. 2012. Influence of flooding and fluvial landforms on stream valley plant communities in an old-growth northern hardwood watershed. *Wetlands*. 32:679-691.
- *Morris, A.E.L., L.R. Williams, P.C. Goebel, and E. Braig, IV. 2012. Association of brook trout and other fish with large wood jams in a Lake Superior tributary in a northern old-growth watershed. *Ecology of Freshwater Fish*. 21:1-12.
- Bumgardner, M.S., G.W. Graham, P.C. Goebel, and R.L. Romig. 2011. How clustering dynamics influence lumber utilization patterns in the Amish-based furniture industry in Ohio. *Journal of Forestry*. 109:74-81.
- *Holmes, K.L., P.C. Goebel, L.R. Williams, and M. Schecengost. 2011. Environmental influences on macroinvertebrate assemblages in headwater streams of northeastern Ohio. *Journal of Freshwater Ecology*. 26:409-422.
- *Holmes, K.L., and P.C. Goebel. 2011. A functional approach to riparian area delineation using geospatial methods. *Journal of Forestry*. 109:233-241.
- *Martin, K.L., D.M. Hix, and P.C. Goebel. 2011. Coupling of vegetation layers and environmental influences in a mature, second-growth Central Hardwood forest landscape. *Forest Ecology and Management*. 261:720-729.
- *Rist, S.L., P.C. Goebel, R.G. Corace, III, D.M. Hix, I. Drobyshev, and T. Casselman. 2011. Do partial cross sections from live trees for fire history analysis result in higher mortality 2 years after sampling? *Forest Ecology and Management*. 262:940-946.
- Goebel, P. C., M.S. Bumgardner, D.A. Herms, and A. Sabula. 2010. Failure to phytosanitize firewood infested with emerald ash borer (*Agrilus planipennis*) in a small dry kiln using ISPM-15 standards. *Journal of Economic Entomology*. 103:597-602.

- Corace, R. G., III, N.E. Seefelt, and P.C. Goebel. 2010. Snag management in Kirtland's Warbler jack pine plantations. *Northern Journal of Applied Forestry*. 27:125-131.
- Corace, R. G., III, P.C. Goebel, and D.L. McCormick. 2010. Kirtland's Warbler habitat management and multi-species bird conservation: considerations for planning and management across jack pine habitat types. *Natural Areas Journal*. 30:174-190.
- *Holmes, K.L., P.C. Goebel, and A.E.L. Morris. 2010. The distribution and characteristics of downed wood across headwater riparian ecotones: integrating the stream with the riparian area. *Canadian Journal of Forest Research*. 40: 1604-1614.
- *Morris, A.E.L., P.C. Goebel, and B.J. Palik. 2010. Spatial distribution of large wood jams in streams related to stream-valley geomorphology and forest age in northern Michigan. *River Research and Applications*. 26:835-847.
- Corace, R. G., III, P.C. Goebel, D.M. Hix, T. Casselman, and N.E. Seefelt. 2009. Ecological forestry at National Wildlife Refuges: experiences from Seney National Wildlife Refuge and Kirtland's Warbler Wildlife Management Area, USA. *Forestry Chronicle*. 85: 695-701.
- Wilson, R.S., D.M. Hix, P.C. Goebel, and R.G. Corace, III. 2009. Identifying land manager objectives and alternatives for mixed-pine forest ecosystem management and restoration in eastern Upper Michigan. *Ecological Restoration*. 27:407-416.
- *Drobyshev, I. V., P.C. Goebel, D.M. Hix, R.G. Corace, and M.E. Semko-Duncan. 2008. Fire history of red pine-dominated forest ecosystems of the Seney National Wildlife Refuge, Upper Michigan. *Canadian Journal of Forest Research*. 38:2497-2514
- *Drobyshev, I. V., P.C. Goebel, D.M. Hix, R.G. Corace, and M.E. Semko-Duncan. 2008. Interactions between forest structure, fuel loadings and fire history: a case study of red pine-dominated forests of Seney National Wildlife Refuge, Upper Michigan. *Forest Ecology and Management*. 256:1723-1733.
- *Allen, B. P., P.C. Goebel, and R.R. Sharitz. 2007. Are lianas increasing in importance in temperate floodplain forests in the southeastern United States? *Forest Ecology and Management*. 242:17-23.
- *Graham, G. W., P.C. Goebel, R.B. Heiligmann, and M.B. Bumgardner. 2007. Influence of demographic characteristics on production practices within the Ohio maple syrup industry. *Northern Journal of Applied Forestry*. 24:290-295.
- *Morris, A. L., P.C. Goebel, and B.J. Palik. 2007. Geomorphic and riparian forest influences on characteristics of large wood and large wood jams in old-growth and second-growth forests in Northern Michigan, USA. *Earth Surface Processes and Landforms*. 32:1131-1153.
- Goebel, P. C., K.S. Pregitzer, and B.J. Palik. 2006. Landscape hierarchies influence riparian ground-flora communities in Wisconsin, USA. *Forest Ecology and Management*. 230:43-54.
- *Morris, A.E.L., P.C. Goebel, L.R. Williams, and B.J. Palik. 2006. Influence of landscape geomorphology on large wood jams and salmonids in an old-growth river of Upper Michigan. *Hydrobiologia*. 556:149-161.
- *Graham, G.W., P.C. Goebel, R.B. Heiligmann, and M.S. Bumgardner. 2006. The role of extension in supporting maple syrup production in family-owned sugarbushes in Ohio. *Journal of Forestry*. 104:94-101.
- *Allen, B.P., R.R. Sharitz, and P.C. Goebel. 2005. Twelve years post-hurricane liana dynamics in an old-growth southeastern floodplain forest. *Forest Ecology and Management*. 218:259-269.
- Corace, R.G., III, P.C. Goebel, and T.C. Wyse. 2005. A landscape and field-scale assessment of the bird

- communities of historic openlands at Sleeping Bear Dunes National Lakeshore. *Michigan Birds and Natural History*. 12:169-181.
- Goebel, P.C., T.C. Wyse, and R.G. Corace, III. 2005. Determining reference ecosystems conditions for disturbed landscapes within the context of contemporary resource management issues. *Journal of Forestry*. 103:351-356.
- *Holmes, K.L., P.C. Goebel, D.M. Hix, and C.E. Dygert. 2005. Ground-flora composition and structure of floodplain and upland landforms of an old-growth headwater forest in north-central Ohio. *Journal of the Torrey Botanical Society*. 132:62-71.
- Goebel, P.C., D.M. Hix and M.E. Semko-Duncan. 2005. Composition and structure of two contrasting southeastern Ohio old-growth forest ecosystem types. *Ohio Journal of Science*. 105:8-16.
- Kirkman, L.K., P.C. Goebel, B.J. Palik, and L. West. 2004. Predicting plant diversity in a longleaf pine landscape. *Écoscience*, 11:80-93.
- Goebel, P.C., B.J. Palik, and K.S. Pregitzer. 2003. Plant diversity contributions of riparian areas in watersheds of the northern Lake States, USA. *Ecological Application*. 13:1595-1609.
- Goebel, P.C., K.S. Pregitzer, and B.J. Palik. 2003. Geomorphic influences on large wood dam loadings, particulate organic matter and dissolved organic matter in an old-growth northern hardwood watershed. *Journal of Freshwater Ecology*. 18:479-490.
- Goebel, P.C., B.J. Palik, L.K. Kirkman, M.B. Drew, L. West, and D.C. Pederson. 2001. Forest ecosystems of a Lower Gulf Coastal Plain landscape: multifactor classification and analysis. *Journal of the Torrey Botanical Society*. 128:47-75.
- Pregitzer, K.S., P.C. Goebel, and T.B. Wigley. 2001. Evaluating forestland classification schemes as tools for the maintenance of biodiversity. *Journal of Forestry*. 99:33-40.
- Kirkman, L.K., P.C. Goebel, L. West, M.B. Drew, and B.J. Palik. 2000. Depressional wetland reference sites: a question of community development. *Wetlands*. 20:373-385.
- Palik, B.J., P.C. Goebel, L.K. Kirkman, and L. West. 2000. Using landscape hierarchies to guide restoration of disturbed ecosystems. *Ecological Applications*. 10:189-202.
- Goebel, P.C., D.M. Hix and A.M. Olivero. 1999. Seasonal ground-flora dynamics between second-growth and old-growth south-facing forest ecosystems, southeastern Ohio. *Natural Areas Journal* 19:12-21.
- Palik, B.J., S.W. Golladay, P. C. Goebel, and B.W. Taylor. 1998. Riparian geomorphology and coarse woody debris recruitment in a Georgia Coastal Plain stream. *Écoscience*. 5:551-560.
- Goebel, P.C., and D.M. Hix. 1997. Changes in the composition and structure of mixed oak, second-growth forest ecosystems during the understory reinitiation stage of stand development. *Écoscience*. 4:327-339.
- Goebel, P.C., and D.M. Hix. 1996. Development of mixed-oak forests in southeastern Ohio: a comparison of second-growth and old-growth forests. *Forest Ecology and Management*. 84:1-21.

Peer-Reviewed Proceedings Papers

- Matthews, S.N., D.M. Hix, J.D. Palus, E.E. Andrew, P.C. Goebel, and D. Radcliffe. 2018. Assessing change in hardwood forests of the Wayne National Forest, southeastern Ohio. Proceedings, Oak Symposium: Sustaining oak forests in the 21st century through science-based management (*in press*).
- Bumgardner, M.S., G.W. Graham, and P.C. Goebel. 2012. Opportunities for development of local forest markets: the case of Amish furniture manufacturing In: Meyer, S.R. ed. Proceedings, IUFRO Small-scale Forestry Conference. Amherst, MA: IUFRO. 16-19.

- Bumgardner, M. S., G.W. Graham, *P.C. Goebel*, and R.L. Romig. 2011. Perceptions of firms within a cluster regarding its function and success: Amish furniture manufacturing in Ohio. In: Fei, S., Lhotka, J.M., Stringer, J.W., Gottschalk, K.W., and Miller, G.W., eds. Proceedings, 17th Central Hardwood Forest Conference; 2010 April 5-7; Lexington, KY. Gen. Tech. Rep. NRS-P-78. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 597-606.
- Goebel, P.C.*, D.M. Hix, and H.L. Whitman. 2011. Influence of environmental factors and adjacent land use on the composition and structure of woody riparian vegetation in northeastern Ohio. In: Fei, S., Lhotka, J.M., Stringer, J.W., Gottschalk, K.W., and Miller, G.W., eds. Proceedings, 17th Central Hardwood Forest Conference; 2010 April 5-7; Lexington, KY. Gen. Tech. Rep. NRS-P-78. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 186-196.
- Hix, D.M., *P.C. Goebel*, and H.L. Whitman. 2011. Canopy gap characteristics of an old-growth and adjacent second-growth beech-maple stand in north-central Ohio. In: Fei, S., Lhotka, J.M., Stringer, J.W., Gottschalk, K.W., and Miller, G.W., eds. Proceedings, 17th Central Hardwood Forest Conference; 2010 April 5-7; Lexington, KY. Gen. Tech. Rep. NRS-P-78. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 177-185.
- *Martin, K.L., and *P.C. Goebel*. 2011. Preparing for hemlock woolly adelgid in Ohio: communities associated with hemlock-dominated ravines of Ohio's unglaciated Allegheny Plateau. In: Fei, S., Lhotka, J.M., Stringer, J.W., Gottschalk, K.W., and Miller, G.W., eds. Proceedings, 17th Central Hardwood Forest Conference; 2010 April 5-7; Lexington, KY. Gen. Tech. Rep. NRS-P-78. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 436-446.
- Goebel, P. C.*, D.M. Hix, R.S. Wilson, and R.G. Corace, III. 2009. Linking ecological and structured decision-making networks to develop local- and landscape-scale restoration strategies for mixed-pine forests of Upper Michigan, USA. In: Pp. 192-196, Ecological Networks: Science and Practice. Proceedings of the 16th Annual Conference of the International Association of Landscape Ecology (UK Chapter). R. Catchpole, R. Smithers, P. Baarda, and A. Eycott (Editors). International Association of Landscape Ecology (UK Chapter), Edinburgh, Scotland, UK.
- Goebel, P.C.* and K.L. Holmes. 2009. Prioritising riparian restoration by integrating ecological function and management objectives across a landscape of northeastern Ohio, USA. In: Pp. 152-160, Ecological Networks: Science and Practice. Proceedings of the 16th Annual Conference of the International Association of Landscape Ecology (UK Chapter). R. Catchpole, R. Smithers, P. Baarda, and A. Eycott (Editors). International Association of Landscape Ecology (UK Chapter), Edinburgh, Scotland, UK.
- *Pinheiro, N. R., *P.C. Goebel*, and D.M. Hix. 2008. Forty-two years of change in an old-growth and second-growth beech-maple forest of north-central Ohio. Pp. 204-212. In: D.F. Jacobs and C.H. Michler, (Editors), Proceedings of the 16th Central Hardwood Forest Conference, West Lafayette, IN. USDA Gen. Tech. Rep. NRS-P-24, Northern Research Station, Newton Square, PA.
- *Holmes, K. L., *P.C. Goebel*, and D.M. Hix. 2007. Influence of landform and soil characteristics on canopy and ground-flora composition and structure of first and second order headwater riparian forests in unglaciated Ohio. Pp. 325-336, In: D.S. Buckley and W.K. Clatterbuck (Editors). Proceedings, 15th Central Hardwoods Research Conference, Knoxville, TN. USDA For. Serv. Gen. Tech. Rep. SRS-101, Asheville, NC. Refereed paper.
- *Holmes, K.L., M.E. Semko-Duncan, and *P.C. Goebel*. 2004. Temporal changes in spring ground-flora communities across riparian areas in a north-central Ohio old-growth forest. Pp. 434-439, In: D.A. Yaussy, D.M. Hix, R.L. Long, and *P.C. Goebel* (Editors). Proceedings. 14th Central Hardwood Forest Conference; March 16-19, 2004, Wooster, OH. USDA For. Serv. Gen. Tech. Rep. NE-316, Newtown Square, PA. Refereed paper.
- *Allen, B.P., *P.C. Goebel*, and D.M. Hix. 2004. Thirty-one years of stand development in a northern red oak, *Quercus rubra*, plantation in central Ohio, USA. Pp. 335-343, In: D.A. Yaussy, D.M. Hix, R.L. Long, and *P.C. Goebel* (Editors). Proceedings. 14th Central Hardwood Forest Conference; March 16-19, 2004,

Wooster, OH. USDA For. Serv. Gen. Tech. Rep. NE-316, Newtown Square, PA. Refereed paper.

Goebel, P.C., D.M. Hix, C.E. Dygert, and K.L. Holmes. 2003. Ground-flora communities of headwater riparian areas in an old-growth Central Hardwood Forest. Pp. 136-145, In: Van Sambeek, J.W. Dawson, F. Ponder, Jr., E.F. Lowenstein, and J.S. Fralish (Editors), Proceedings, 13th Central Hardwood Forest Conference; April 1-3, 2002, Urbana, IL. USDA For. Serv. Gen. Tech. Rep. NC-234, St. Paul, MN. Refereed paper.

Goebel, P.C., and D.M. Hix. 1997. Correlations among stand ages and forest strata in mixed-oak forests of southeastern Ohio. Pp. 269-282, In: S.G. Pallardy, R.A. Cecich, H.G. Garrett, and P.S. Johnson (Editors), Proceedings, Eleventh Central Hardwood Forest Conference, Columbia, MO. USDA For. Serv. Gen. Tech. Rep. NC-188. Refereed paper.

Editor-Reviewed Papers

Goebel, P.C., M.S. Bumgardner, D.A. Herms, and A. Sabula. 2010. Using heat to sanitize EAB-infested firewood. *Ohio Woodland Journal* 17:23-25.

Corace, R. G., III, *P.C. Goebel*, and N.C. Seefelt. 2008. Innovative forest management: Seney National Wildlife Refuge and Kirtland's Warbler Wildlife Management Area. *Forest Wisdom*, (Spring): 4,10.

Graham, G.W., *P.C. Goebel*, and R.B. Heiligmann. 2007. Ohio's tasty forest product industry - maple syrup. *The Ohio Woodland Journal* 14(2):16-17.

Goebel, P.C., and D. M. Hix. 2003. The next 100 years: forest ecosystem restoration in Ohio. *Ohio Woodlands* 41 (1): 23-25.

Goebel, P. C., D.M. Hix, and M.E. Semko Duncan. 2003. Restoring Ohio's riparian areas: How do we know what conditions to restore to? *Ohio Woodlands*. 41(2):7-9.

Hix, D.M., and *P.C. Goebel*. 2003. Restoring natural disturbance regimes in Ohio's forests: The role of silviculture. *Ohio Woodlands* 41(3):5-9.

Other:

Toman, E. D.M. Hix, *P.C. Goebel*, S.D. Gehrt, R.S. Wilson, J.A. Sherry, A. Silvis, P. Nyamai, R.A. Williams, and S. McCaffrey. 2014. Hazardous fuels management in mixed red pine and eastern white pine forest in the northern Lake States: A synthesis of knowledge. Gen. Tech. Rep. NRS-134. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 64 p.

Toman, E., S. Gehrt, *P.C. Goebel*, D.M. Hix, R. Williams, and R. Wilson. 2011. Fuel treatments in mixed-pine forests in the Great Lakes Region: a comprehensive guide to planning and implementation. Final Project Report, JFSP Project Number 09-2-01-22.

Goebel, P.C., C.W. Goss, V. Bouchard, and L.R. Williams. 2010. How important are riparian forests to aquatic food webs in agricultural watersheds of north-central Ohio, USA? Pp. 129-134, In: J.C. Azevedo, M. Feliciano, J. Castro and M.A. Pinto (Editors), Proceedings of the IUFRO Landscape Ecology International Conference, Sept 21-27, 2010. Bragança, Portugal.

Martin, K.L., and *P.C. Goebel*. 2010. Impact of hemlock decline on successional pathways and ecosystem function at multiple scales in forests of the central Appalachians, USA. Pp. 147-152, In: J.C. Azevedo, M. Feliciano, J. Castro and M.A. Pinto (Editors), Proceedings of the IUFRO Landscape Ecology International Conference, Sept 21-27, 2010. Bragança, Portugal.

Corace, R. G., III, *P.C. Goebel*, and T.C. Wyse. 2009. A Multi-scale Assessment and Evaluation of Historic Openlands at Sleeping Bear Dunes National Lakeshore. National Park Service, Natural Resource Technical Report NPS/GLKN/NRTR—2009/150. Fort Collins, CO.

- Goebel, P. C.*, and D.M. Hix. 2008. Crall Woods. Pp. 28-29, In: Proceedings of the 2008 Central States Forest Soils Conference, Columbus, OH. Ohio State University Extension, Columbus, OH.
- Goebel, P. C.*, and D.M. Hix. 2008. "Forest stand dynamics at Crall Woods." Pp. 32-37, In: Proceedings of the 2008 Central States Forest Soils Conference, Columbus, OH. Ohio State University Extension, Columbus, OH.
- Holmes, K. L., and *P.C. Goebel*. 2008. Prioritization model for riparian areas of the Cuyahoga Valley National Park. Final Project Report to National Park Service. School of Environment and Natural Resources, The Ohio State University, Wooster, OH. 187 pp.
- Goebel, P.C., M.S. Bumgardner, and D.A. Herms. 2008. Phytosanitation of emerald ash borer infested firewood. Final project report submitted to Division of Forestry, Ohio Department of Natural Resources and the USDA Forest Service, Northeastern Area State and Private Forestry, School of Environment and Natural Resources, The Ohio State University, Wooster, OH. 21 pp.
- Allen, B. P., *Goebel, P. C.*, Sharitz, R. R., 2007. Long-term effects of wind disturbance on the old-growth forests and lianas of the Congaree National Park. Final Report to the National Park Service. School of Environment and Natural Resources, The Ohio State University, Wooster, OH. 32 pp.
- Goebel, P. C.*, 2007. Ecological assessment of the USDI Fish and Wildlife Service's Kirtland's Warbler Wildlife Management Area. Final Project Report to US Fish and Wildlife Service. School of Environment and Natural Resources, The Ohio State University, Wooster, OH. 72 pp.
- Graham, G.W., R.B. Heiligmann, and *P.C. Goebel*. 2005. The Ohio Maple Syrup Industry: The People, the Practices, and the Value to Ohio. In: Ornamental Plants Annual Reports and Research Reviews 2005. OARDC Special Circular 197:172-176.
- Allen, B. P., R.R. Sharitz, and *P.C. Goebel*. 2005. Long-term trends in liana density in temperate floodplain forests: Implications for forest management. Proceedings of the 2006 Society of American Foresters National Convention. Ft. Worth, TX.
- Goebel, P.C.*, R.G. Corace, and T.C. Wyse. 2003. Balancing the Need to Restore Forest Ecosystems While Focusing on Other Important Conservation Goals – Examples from Sleeping Bear Dunes National Lakeshore. Proceedings, 2003 Society of American Foresters National Convention. October 25-29. Buffalo, NY.
- Goebel, P.C.*, D.M. Hix, and M.E. Semko-Duncan. 2003. Identifying reference conditions for Ohio's riparian areas. OARDC Special Circular SC-192. Wooster, OH. 31pp.
- Corace, R.G., *P.C. Goebel*, and T.C. Wyse. 2003. A multi-scale assessment and evaluation of historic openlands at Sleeping Bear Dunes National Lakeshore. National Park Service Report. Empire, MI. 50p.
- Pregitzer, K.S., and *P.C. Goebel*. 2000. Land management tools for the maintenance of biological diversity: an evaluation of existing forest land classification schemes. NCASI Technical Bulletin 800. Research Triangle Park, NC.
- Goebel, P.C.*, B.J. Palik, L.K. Kirkman, and L. West. 1997. Field Guide: Landscape ecosystem types of Ichauway. General Technical Report 97-1, Joseph W. Jones Ecological Research Center, Newton, GA.
- Golladay, S.W., B.J. Palik, *P.C. Goebel*, and B.W. Taylor. 1997. Influence of riparian landform on large woody debris input and movement in a blackwater Coastal Plain stream. In: K.J. Hatcher (Editor), Proceedings of the 1997 Georgia Water Resources Conference. Carl Vinson Institute of Government, The University of Georgia, Athens, GA.

Goebel, P.C., B.J. Palik, L.K. Kirkman, and L. West. 1996. Geomorphic influences on riparian forest composition and structure in a karst landscape of southwestern Georgia. Pp. 110-114, In: K.M. Flynn (Editor), Proceedings, Southern Forested Wetlands Ecology and Management Conference, Clemson, SC.

Presentations and Other Creative Activities:

Professional Meeting Papers, Workshops, Showings, Recitals:

Invited Presentations

International Meetings and Conferences

Goebel, P.C. 2014. Restoring complexity and ecosystem services in forest ecosystems by emulating natural disturbance processes. Invited Presentation, Sapienza University of Roma. Rome, Italy. July 3, 2014.

Goebel, P.C. 2014. Applying principles of ecological forestry to restore forest ecosystems using examples from eastern North America. Invited Presentation, University of Turin. Turin, Italy. June 30, 2014.

Goebel, P.C. 2012. Complexity, resiliency, and restoration – Lessons from the forests of eastern North America. Invited Presentation, School of Natural Resources, Trinity College. Dublin, Ireland. July 17, 2012.

Goebel, P.C. 2012. Resorting and managing for complexity in conifer forests of the Lake States region of the U.S. Invited Presentation, UK Forestry Commission, Northern Research. Roslyn, United Kingdom. July 14, 2012.

Goebel, P.C. Introduction to the Lake States Fire Science Consortium. Invited Presentation, Lake States Fire Science Consortium Webinar Series W10-1. December 14, 2010.

Goebel, P.C., D.M. Hix, R.S. Wilson, and R.G. Corace, III. 2009. Restoration-based fuel reduction recommendations for mixed-pine forests of Upper Michigan. Invited presentation. 4th International Fire Ecology and Management Congress. Savannah, GA. December 2, 2009.

Goebel, P.C. 2009. A requiem or renaissance for mixed-pine forest ecosystems in the northern Lake States of the USA? Invited presentation. Environmental Research Institute. Thurso, UK. September 4, 2009.

Holmes, K.L., and P.C. Goebel. 2007. A functional approach to riparian restoration and management in complex landscapes. Invited presentation. 2007 Society of American Foresters National Convention, Portland, OR. Oct 23-27, 2007

Goebel, P. C., D.M. Hix, K.L. Holmes, and M.E. Semko-Duncan. 2005. Influence of landscape hierarchies on the structure and diversity of ground-flora communities in beech-maple forest ecosystems of the Lower Great Lakes. Invited presentation. 90th Annual Meeting of the Ecological Society of America and INTECOL. Montreal, Quebec. August 12, 2005.

Allen, B. P., R.R. Sharitz, and P.C. Goebel. 2005. Long-term liana dynamics in temperate floodplain forests in the southeastern U.S. Invited presentation. 90th Annual Meeting of the Ecological Society of America and INTECOL. Montreal, Quebec. August 12, 2005.

Palik, B.J., P.C. Goebel and K.S. Pregitzer. 2001. Contributions of riparian areas to overall plant diversity in forested watersheds. Invited Presentation, Third Biannual North American Forest Ecology Workshop. Duluth, MN.

National Meetings and Conferences

- Goebel, P.C.* 2013. Prioritizing restoration efforts. Invited presentation, Science Considerations in Functional Restoration: A Workshop. US Forest Service National Office, Pittsburgh, PA. Feb 4-5, 2013.
- Goebel, P.C.*, and D.M. Hix. 2010. Past and future research efforts on mined-land reclamation and reforestation in Ohio. Invited presentation, Annual Meeting of the Ecological Society of America, Pittsburgh, PA. Aug. 1-6, 2010.
- Martin, K.L., and *P.C. Goebel*. 2010. Composition and structure of hemlock-dominated ravines in unglaciated Ohio on the front of the HWA invasion. Invited presentation, Annual Meeting of the Ecological Society of America, Pittsburgh, PA. Aug. 1-6, 2010.
- Goebel, P.C. 2010. Fire science network for the northern Lake States. Invited presentation. Joint Fire Science Program Fire Science Consortium Workshop. Skamandia, WA. June 29-July 1, 2010.
- Goebel, P.C.* 2006. Ecology and management of large wood in Lake States streams. Invited presentation. National Meeting, Forest Guild, Boulder Junction, WI. September 28, 2006.
- Allen, B. P., R.R. Sharitz, and *P.C. Goebel*. 2005. Long-term trends in liana density in temperate floodplain forests: Implications for forest management. Invited presentation. National Convention of the Society of American Foresters, Fort Worth, TX. October 21, 2005.
- Goebel, P.C.*, R.G. Corace, and T.C. Wyse. 2003. Balancing the Need to Restore Forest Ecosystems While Focusing on Other Important Conservation Goals – Examples from Sleeping Bear Dunes National Lakeshore. Invited Presentation, 2003 Society of American Foresters National Convention. October 25-29. Buffalo, NY.

Regional and Local Meetings and Conferences

- Goebel, P.C.* 2021. Recent developments in fire ecology and management from the University of Idaho. 2021 Family Forest landowners and Managers Conference, Moscow, ID. March 29, 2021. 95 attendees.
- Goebel, P.C.* 2016. How important are riparian patches in agricultural landscapes. 2016 Ohio Woodland, Water and Wildlife Conference, Mansfield OH. March 2, 2016.
- Goebel, P.C.* 2012. Importance of hemlock in Ohio. Hemlock Woolly Adelgid Workshop, Athens, OH. November 15, 2012.
- Corace, R.G., III, *P.C. Goebel*, D.M. Kashian, and T. Pypker. 2012. Research-management partnerships and fire-dependent ecosystem restoration: case studies from Seney National Wildlife Refuge, Upper Michigan. Invited presentation, 2012 Science, Practice and Art of Restoring Ecosystems Conference, East Lansing, MI. January 20-21, 2012.
- Palik, B.J., *P.C. Goebel*, and R.G. Corace, III. 2012. Applying principles of ecological forestry to the management of pine-oak forests in the Lake States. Invited presentation, 2012 Science, Practice and Art of Restoring Ecosystems Conference, East Lansing, MI. January 20-21, 2012.
- Corace, R.G., III, Kashian, D.M., *Goebel, P.C.* and E. Toman. 2011. Wildfire and structural and compositional patterns in jack pine ecosystems of the northern Lower Peninsula of Michigan: implications for restoration and ecological forestry. Fall Field Tour, Michigan Society of American Foresters, Lower Peninsula Chapter, Grayling, MI.
- Goebel, P.C.* 2011. The importance of complexity in forest ecosystems. Invited presentation. The Holden Arboretum. Kirtland, OH. January 19, 2011.

- Corace, R.G., III, *P.C. Goebel*, D.M. Kashian, and E. Toman. 2010. Back to the future: Thinking ahead to the management of jack pine forest ecosystems for Kirtland's Warbler and associated wildlife species. Oral presentation, 71st Midwest Fish and Wildlife Conference. Minneapolis, MN. December 12-15, 2010.
- Goebel, P.C.* 2010. Introduction to the Lake States Fire Science Consortium. Lake States Fire Science Consortium Webinar Series W10-1. Invited presentation. Wooster, OH. November 5, 2010. <Webinar>.
- Goebel, P.C.* 2010. Natural disturbance as a guide for the restoration and management of forest ecosystems. Invited presentation. Environmental Science Graduate Program Seminar Series, Wooster, OH. October 8, 2010.
- Davidson-Bennett, K.M., and *P.C. Goebel*. 2010. Stormwater impacts on streamflow in headwater streams along a watershed urbanization gradient. Oral presentation, 2010 Cleveland Metroparks Research Meeting. Cleveland, OH. July 9, 2010.
- Goebel, P.C.*, and R.G. Corace, III. 2010. Fire science network for the northern Lake States. Invited presentation. Winter Meeting of the Kirtland's Warbler Recovery Team. Roscommon, MI. March 10, 2010.
- Goebel, P.C.* 2010. Fire science network for the northern Lake States. Invited presentation. Bureau of Indian Affairs Midwest Region, Fire and Forestry Annual Meeting. Wabeno, WI. February 9, 2010.
- Goebel, P.C.* 2010. A requiem or renaissance for mixed-pine forest ecosystems in the northern Lake States of the USA? Invited presentation. School of Environment and Natural Resources, The Ohio State University. Columbus, OH. January 14, 2010.
- Goebel, P.C.*, D.L. McCormick, and R.G. Corace, III. 2007. Ecological assessment of the USDI Fish and Wildlife Service's Kirtland's Warbler Wildlife Management Area. Kirtland's Warbler Recovery Team Meeting, Roscommon, MI. March 12, 2007.
- Goebel, P.C.*, and A.E.L. Morris. 2005. Wood is Good - Ecology of Large Wood in Streams. Invited presentation. Wayne County Izaak Walton League, Wooster, OH. November 21, 2005.
- Goebel, P. C.*, and A.E.L. Morris. 2005. Stream valley geomorphology, large wood, and coaster brook trout in forested watersheds along the south shore of Lake Superior. Invited presentation. College of Wooster Geology Club Seminar Series, Wooster, OH. November 10, 2005.
- Goebel, P.C.*, A.E.L. Morris, and B.J. Palik. 2005. Recruitment, retention, and restoration of large wood in streams along Lake Superior's south shore. Invited presentation. Department of Biological Sciences, University of Notre Dame. April 22, 2005.
- Goebel, P.C.* 2004. Restoring Ohio's Riparian Areas. Invited presentation. The Wilderness Center. Wilmot, OH. February 1, 2004.
- Goebel, P. C.* 2003. Forest Ecosystem Restoration in Ohio. Invited presentation, Northeastern Ohio Forestry Association, Canfield, Ohio. November 20, 2003.
- Goebel, P.C.*, R.G. Corace, III, and T.C. Wyse. 2003. Identifying reference conditions of disturbed ecosystems and application for maintaining openland avian diversity at Sleeping Bear Dunes National Lakeshore. Invited Presentation, Annual Western Great Lakes Research Conference, Ashland, WI.
- Goebel, P. C.*, 2003. Do Riparian Areas Contribute Significantly to Overall Plant Diversity in Forested Watersheds? Invited presentation. Department of Horticulture and Crop Science, The Ohio State University, Wooster, OH. Jan. 24, 2003.

- Goebel, P.C.* 2002. Using landscape hierarchies to design strategies for ecosystem restoration: Examples from longleaf pine-wiregrass and northern hardwood forest ecosystems. Invited Seminar. EEOB Seminar Series, The Ohio State University, Columbus, OH. October 31, 2002.
- Goebel, P.C.* 2002. Using landscape hierarchies to help integrate ecological principles into the restoration of disturbed ecosystems. Invited seminar. Soils Graduate Seminar Series, The Ohio State University, Columbus, OH. May 20, 2002.
- Goebel, P.C.* 2002. Ground-flora structure and composition of floodplain and upland areas of an old-growth headwater forest: A restoration template for disturbed headwater riparian areas of north-central Ohio. Invited Seminar, College of Wooster Earth Day Celebration, Wooster OH. May 12, 2002.

Contributed Papers and Posters Presented Since 2010 (total of 170+ over career)

International Meetings and Conferences

- Klooster, W.S., P.C. Goebel, C.P. Herms, D.G. McCullough, A. Smith, K.J.K. Gandhi, D. Hartzler, K.S. Knight, J. Cardina, and D.A. Herms. 2016. Forest responses following emerald ash borer (*Agrilus planipennis*) induced ash mortality in southeastern Michigan. 2016 North American Forest Insect Work Conference, Washington D.C. May 31-June 3, 2016.
- Rose, S.J., and P.C. Goebel. 2016. Understanding how changes in the ground spider community can enhance restoration practices. Oral presentation. 20th International Congress of Arachnology, Golden, CO. July 2-9, 2016.
- Hix, D.M., P.C. Goebel, P.A. Nyamai, and R.G. Corace, III. 2014. Restoration of mixed-pine forest ecosystems of eastern Upper Michigan using variable-retention harvesting. Oral presentation. XXIV IUFRO World Congress, IUFRO, Salt Lake City, UT. October 5-11, 2014.
- Hix, D.M., T. Macy, P.C. Goebel, S.A. Matthews. 2014. Eastern hemlock-dominated forest ecosystems of northeastern Ohio and possible changes with the impending infestation by the hemlock woolly adelgid. Poster presentation. XXIV IUFRO World Congress, IUFRO, Salt Lake City, UT. October 5-11, 2014.
- Goebel, P.C.*, and C.W. Goss. 2013. Prioritizing forest, riparian, and watershed restoration efforts using a holistic approach that incorporates ecosystem services: Lessons learned from eastern North America. RegioResources21. Catania, Sicily. September 18-20, 2013.
- Goebel, P.C.*, and G.M. Davies. 2013. Novel disturbances for novel ecosystems: managing conifer plantations for multiplecosystem services. RegioResources21. Catania, Sicily. September 18-20, 2013.
- Goss, C.W., P.C. Goebel, and S.M.P. Sullivan. 2013. Aquatic-terrestrial linkages in remnant forest patches: implications for conservation and restoration of headwater streams in agricultural landscapes. RegioResources21. Catania, Sicily. September 18-20, 2013.
- Goebel, P.C.*, R. G. Corace, III, D.M. Hix, and P.A. Nyamai. 2013. Reducing fuels and restoring the regeneration layer of mixed-pine forests of eastern Upper Michigan using variable-retention harvesting. 2013 North American Forest Ecology Workshop. Bloomington, IN. June 16-20, 2013.
- Bumgardner, M.S, G.W. Graham, and P.C. Goebel. 2012. Opportunities for development of local forest markets: the case of Amish manufacturing. Poster presentation. IUFRO Small-Scale Forestry Conference. Amherst, MA.
- Goss, C.W., and P.C. Goebel. Influence of forest patches on leaf breakdown and macroinvertebrate communities in agricultural landscapes. Poster presentation. EcoSummit 2012. Columbus, OH. September 30-October 5, 2012.

- Nyamai, P., *P.C. Goebel*, D.M. Hix, and R.G. Corace, III. 2012. Initial seedling densities following a variable retention harvest in a mixed-pine forest ecosystem of the eastern Upper Peninsula of Michigan. Poster presentation. EcoSummit 2012. Columbus, OH. September 30-October 5, 2012.
- Martin, K.L., and *P.C. Goebel*. 2011. Divergence in riparian communities experiencing eastern hemlock decline in the Central Appalachians. Oral presentation. 8th North American Forest Ecology Workshop, Roanoke, VA. June 19-23, 2011.
- Corace, R.G., III, *P.C. Goebel*, and D.M. Hix. 2010. Implementing ecological forestry concepts at US Fish and Wildlife National Wildlife Refuges in the northern Lake States, USA. Oral presentation, IUFRO Landscape Ecology International Conference. Bragança, Portugal. Sept 21-27, 2010.
- Goebel, P.C.*, C.W. Goss, L.R. Williams, and V. Bouchard. 2010. How important are riparian forests to aquatic foodwebs in agricultural watersheds of north-central Ohio, USA? Oral presentation, IUFRO Landscape Ecology International Conference. Bragança, Portugal. Sept 21-27, 2010.
- Martin, K.L., and *P.C. Goebel*. 2010. Impact of hemlock decline on successional pathways and ecosystem function at multiple scales in forests of the central Appalachians, USA. Oral presentation, IUFRO Landscape Ecology International Conference. Bragança, Portugal. Sept 21-27, 2010.
- Allen, B.P., K.L. Martin, R.R. Sharitz, and *P.C. Goebel*. 2010. Testing concepts of complexity in natural and managed forests: Lessons from southeastern bottomland hardwoods. Poster presentation, IUFRO Landscape Ecology International Conference. Bragança, Portugal. Sept 21-27, 2010.

National Meetings and Conferences

- Goebel, P.C.*, A.E.L. Morris, E. Winford, J.W. Baker, H. Simper, and J.W. Karl. 2020. Rapid riparian vegetation community descriptions for aerial monitoring. Poster presentation, 2020 Virtual Meeting of the Ecological Society of America, Salt Lake City, UT. August 3-6, 2020.
- Spei, B. and *P.C. Goebel*. 2020. Will riparian areas limit decline of aspen (*Populus tremuloides* Michx.) communities in a semi-arid montane region? Poster presentation, 2020 Virtual Meeting of the Ecological Society of America, Salt Lake City, UT. August 3-6, 2020.
- Radcliffe, D., S.N. Matthews, D.M. Hix, and *P.C. Goebel*. 2018. Oak decline and maple increase includes favorable aspects. 2018 SAF National Convention, Portland OR.
- Vogel, R., and *P.C. Goebel*. 2018. Ten policy faux pas and streetscape mistakes: why foresters need to get involved in city planning. 2018 SAF National Convention, Portland OR.
- Palus, J.D., E.E. Andrew, *P.C. Goebel*, D.M. Hix, and S.N. Matthews. 2016. Forest succession and mesophication in oak-hickory forests of the Wayne National Forest, southeastern Ohio. Poster presentation, 2016 Society of American Forests National Convention, Madison, WI. November 2-6, 2016.
- Andrew, E.E., J.D. Palus, D.M. Hix, *P.C. Goebel*, and S.N. Matthews. 2016. Compositional change of ground-flora in the Central Hardwoods region of southeastern Ohio over two decades. Poster presentation, 2016 Society of American Forests National Convention, Madison, WI. November 2-6, 2016.
- Hix, D.M., *P.C. Goebel*, and J. Roise. 2016. Linking science and natural resource management through the JFSP Fire Science Exchange Network. Poster presentation, 2016 Society of American Forests National Convention, Madison, WI. November 2-6, 2016.
- Costigan, K.H., C.W. Goss, *P.C. Goebel*, and K.L. Jaeger. 2016. Patterns of flow permanence and aquatic invertebrate communities in a forested corridor of north-central Ohio. Society of Freshwater Scientists, Sacramento, CA, May 2016.

- Rose, S.J. and P. C. Goebel. Short-term Impacts of Prescribed Burning on the Spider Community (Order: Araneae) in a Small Ohio Prairie. 2015. American Arachnological Society Conference, Mitchell SD.
- Costigan, K.H., C.W. Goss, K.L. Jaeger, and P.C. Goebel. Comparison of wet/dry mapping and electrical resistivity sensors to characterize patterns of intermittency. American Geophysical Union, San Francisco, CA, December 2015.
- Costigan, K., K. Jaeger, C. Goss, K. Fritz, and C. Goebel. Controls on flow permanence in temporary rivers: a framework of hydrogeomorphic processes across space and time. Oral presentation. 2014 Fall Meeting of the American Geophysical Union, San Francisco, CA. December 15-19, 2014.
- York, A. C. Blocksome, T. Cheng, J. Creighton, G. Edwards, S. Frederick, C. Giardina, C. Goebel, C. Gucker, L. Kobizar, E. Lane, S. Leis, A. Long, C. Maier, J. Marschall, J. McGowan-Stinski, H. Mohr, E. MontBlanc, M. Pellant, E. Pickett, D. Seesholtz, N. Skowronski, M. Stambaugh, S. Stephens, A. Thode, S. Trainor, T. Walsrop, B. Wolfson, V. Wright, and P. Zedler. 2014. The Joint Fire Science Program Exchange Network: Facilitating knowledge exchange about wildland fire science across the U.S. Poster presentation. 2014 Fall Meeting of the American Geophysical Union, San Francisco, CA. December 15-19, 2014.
- Rose, S.J., and P.C. Goebel. 2014. Changes in the spider (Order: Araneae) and ground beetle (Family: Carabidae) communities after an EF-2 tornado impacted a North-central Ohio forest. Oral presentation. 41st Natural Areas Conference. Natural Areas Association. Dayton, OH. October 15-17, 2014.
- Rose, S.J., and P.C. Goebel. 2014. Spider community succession in a post-wildfire jack pine forests. Poster presentation. 2014 American Arachnological Society Meeting, Newark, OH. June 22-24, 2014.
- Goss, and P.C. Goebel. 2012. Do forest patches influence leaf breakdown and macroinvertebrate communities in agricultural landscapes? Poster presentation. 2012 Annual Meeting of the Ecological Society of America. Portland OR. August 5-10, 2012.
- Martin, K.L., and P.C. Goebel. 2012. Quantifying the transition in composition and function in eastern hemlock forests impacted by hemlock woolly adelgid. Oral presentation. 2012 Annual Meeting of the Ecological Society of America. Portland OR. August 5-10, 2012.
- Miesel, J.R., P.M. Nelson, P.C. Goebel, R.G. Corace, III, and D.M. Kashian. 2012. Forest fuels and vegetation in wildfire-regenerated jack pine (*Pinus banksiana* Lamb.) forests: informing ecological forestry in the Lake States region. Poster presentation. 2012 Annual Meeting of the Ecological Society of America. Portland OR. August 5-10, 2012.
- Nyamai, P., P.C. Goebel, D.M. Hix, and R.G. Corace, III. 2012. Can variable-retention harvesting help reduce fuel loads and restore mixed-pine forest ecosystems? Oral presentation. 2012 Annual Meeting of the Ecological Society of America. Portland OR. August 5-10, 2012.
- Macy, T., P.C. Goebel, and D.M. Hix. 2011. Effects of an EF-2 tornado on forest composition and structure. Poster presentation, 2011 Society of American Foresters National Convention, Honolulu, HI. November 2-6, 2011.
- Martin, K.L., and P.C. Goebel. 2011. Alternate community states in hemlock-dominated riparian forests following the invasion of hemlock woolly adelgid. Oral presentation, Annual Meeting of the Ecological Society of America, Austin, TX. Aug. 7-12, 2011.
- Nyamai, P., P.C. Goebel, D.M. Hix., and R.G. Corace, III. 2011. Downed woody fuel dynamics of mixed-pine forest ecosystems in the eastern Upper Peninsula of Michigan, U.S.A. Poster presentation, Annual Meeting of the Ecological Society of America, Austin, TX. Aug. 7-12, 2011.
- Nyamai, P., P.C. Goebel, D.M. Hix., and R.G. Corace, III. 2010. Disturbance and environmental influences on regeneration layer dynamics of mixed-pine forest ecosystems. Poster presentation, Annual Meeting of the Ecological Society of America, Pittsburgh, PA. Aug. 1-6, 2010.

- Goss, C.W., *P.C. Goebel*, L.R. Williams, and V. Bouchard. 2010. Role of riparian forests as energy sources for aquatic food webs in an agricultural watershed. Poster presentation, Annual Meeting of the Ecological Society of America, Pittsburgh, PA. Aug. 1-6, 2010.
- Davidson-Bennett, K.L., *P.C. Goebel*, J. Mack, M. Durkalec, C. Weldon, and T.L. Robison. 2010. Stormwater impacts on streamflow in headwater streams along an urban gradient along the south shore of Lake Erie. Poster presentation, Annual Meeting of the Ecological Society of America, Pittsburgh, PA. Aug. 1-6, 2010.
- Davidson-Bennett, K.M., and *P.C. Goebel*. 2010. Relationships between stream discharge and nutrient and organic matter concentrations in northeastern Ohio headwater streams. Poster presentation, 2010 Land Grant & Sea Grant National Water Conference. Hilton Head, SC. Feb. 21-25, 2010.

Regional and Local Meetings and Conferences

- Morris, A.E.L., *P.C. Goebel*, and E. Winford. 2020. Rock Creek Riparian Vegetation. 2020 Rinker Rock Creek Ranch Research Webinar. University of Idaho, Moscow, ID. February 12, 2020.
- Hix, D.M., S.N. Matthews, *P.C. Goebel*, E.E. Andrew, J.N. Palus, and D. Radcliffe. 2018. Quantifying change in hardwood forests across the Ecological Land Types of the Wayne National Forest. 18th Central Hardwoods Research Conference, West Lafayette, IN. May 15-17, 2018.
- Palus, J.D., E.E. Andrew, *P.C. Goebel*, D.M. Hix, and S.N. Matthews. 2017. Factors driving forest succession in oak–hickory forests of the Wayne National Forest, southeastern Ohio. Oral Presentation, Midwest-Great Lakes Chapter, Society for Ecological Restoration, Grand Rapids, MI. March 24-26, 2017.
- Klooster, W., *P.C. Goebel*, and D.A. Herms. 2016. Forest responses to ash tree mortality following emerald ash borer (*Agrilus planipennis*). Poster presentation, Entomological Society of America North-Central Branch Meeting. Cleveland, OH. June 5-8, 2016.
- Rose, S.J., and *P.C. Goebel*. 2016. Shifts in the spider (Order: Araneae) community after an EF-2 tornado impacted a north-central Ohio forest. Oral presentation, Annual Meeting of the Ohio Academy of Science, Athens, OH. April 16, 2016.
- Palus, J.D., E.E. Andrew, *P.C. Goebel*, and D.M. Hix. 2016. Environmental influences on canopy disturbance histories in mature oak–hickory forests in southeastern Ohio. Oral presentation, Annual Meeting of the Ohio Academy of Science, Athens, OH. April 16, 2016.
- Palus, J.D., E.E. Andrew, *P.C. Goebel*, and D.M. Hix. 2016. Environmental influences on canopy disturbance histories in mature oak–hickory forests in southeastern Ohio. Poster presentation, OARDC Annual Conference, Wooster, OH. April 21, 2016.
- Palus, J.D., E.E. Andrew, *P.C. Goebel*, and D.M. Hix. 2016. Environmental influences on canopy disturbance histories in mature oak–hickory forests in southeastern Ohio. Oral presentation, Annual Meeting of the Society for Ecological Restoration Great Lakes-Midwest Chapter, Bloomington, IN. April 1-3, 2016.
- Rose, S.J., and *P.C. Goebel*. 2016. Changes to the spider (Order: Araneae) community after an EF-2 tornado impacted a north-central Ohio forest. Oral presentation, Ohio Natural History Conference, Columbus, OH. February 27, 2016.
- Rose, S.J. and *P.C. Goebel*. 2015. Short-term impacts on the spider community (Order: Araneae) from a prescribed burn in a small Ohio Prairie. Oral presentation. Agricultural Communication, Education, and Leadership Graduate Research Conference, Columbus, OH.

- Rose, S.J. and *P.C. Goebel*. 2015. Short-term impacts on the spider community (Order: Araneae) from a prescribed burn in a small Ohio Prairie. Poster presentation. OARDC Annual Research Conference, Columbus, OH.
- Rose, S.J. and *P.C. Goebel*. 2015. Short-term effects of a prescribed burn on the spider (Order: Araneae) community in a small Ohio prairie. Poster presentation. Ohio Natural History Conference, Columbus, OH.
- Monarch, E.A., and *P.C. Goebel*. 2014. Ground-flora composition & diversity of young and mature wildfire regenerated jack pine (*Pinus banksiana* Lamb.) forests. Poster presentation, 2014. OARDC Annual Research Conference, Wooster, Ohio.
- Rose, S.J. and *P. C. Goebel*. 2014. Effects of an EF-2 tornado on ground beetle (Family: Carabidae) and spider (Order: Araneae) communities in a north-central Ohio forest. Poster Presentation, 2014 OARDC Annual Research Conference, Wooster, Ohio.
- Rose, S.J. and *P. C. Goebel*. 2014. Effects of an EF-2 tornado on ground beetle (Family: Carabidae) and spider (Order: Araneae) communities in a north-central Ohio forest. Oral presentation, Agricultural Communication, Education, and Leadership Graduate Research Conference, Columbus, Ohio.
- Rose, S.J. and *P. C. Goebel*. 2014. Effects of an EF-2 tornado on ground beetle (Family: Carabidae) and spider (Order: Araneae) communities in a north-central Ohio forest. Poster Presentation, 2014 Ohio Natural History Conference, Columbus, Ohio.
- Monarch, E.A., and *P.C. Goebel*. 2014. Ground-flora composition & diversity of young and mature wildfire regenerated jack pine (*Pinus banksiana* Lamb.) forests. Poster presentation, 2014 Science, Practice and Art of Restoring Ecosystems Conference, East Lansing, MI. January 17-18, 2014.
- Corace, R.G., III, *P.C. Goebel*, and D.M. Kashian. 2013. Reconciling yellow rail habitat use and landscape dynamics at Seney National Wildlife Refuge. Yellow Rail Virtual Symposium, U.S. Fish and Wildlife Service. Online. August 16, 2013.
- Goebel, P.C.*, and D.M. Hix. 2013. Revisiting the past to improve the future: Legacy of OARDC research on mined-land reclamation in Ohio. 5th Midwest-Great Lakes Society for Ecological Restoration Chapter Meeting, Wooster, OH. April 12-14, 2013.
- Goss, C.W., *P.C. Goebel*, and S.M.P. Sullivan. 2013. Transitions in land cover, ecological thresholds, and restoration of stream ecosystems in agricultural landscapes. 5th Midwest-Great Lakes Society for Ecological Restoration Chapter Meeting, Wooster, OH. April 12-14, 2013.
- Nyamai, P.A., *P.C. Goebel*, D.M. Hix, and R.G. Corace, III. 2013. Initial regeneration and litter decomposition response following a variable-retention harvest in mixed-pine forests of eastern Upper Michigan. 5th Midwest-Great Lakes Society for Ecological Restoration Chapter Meeting, Wooster, OH. April 12-14, 2013.
- Corace, R.G. III, *P.C. Goebel*, I. Drobyshchev, and D.M. Hix. 2012. Is mixed-pine forest restoration in the Upper Peninsula of Michigan for the birds? Michigan Bird Conservation Initiative Workshop, March 22-24, Tustin, MI.
- Goss, C.W., and *P.C. Goebel*. 2012. Can riparian forest patches restore the structure and function of streams in agricultural landscapes? Poster presentation, 2012 Science, Practice and Art of Restoring Ecosystems Conference, East Lansing, MI. January 20-21, 2012.
- Howk, F., J.R. Miesel, D.J. Mladenoff, and *P.C. Goebel*. 2012. Reviewing the effects of wildfire on the occurrence and spread of invasive plant species: application to Great Lakes ecosystems. Poster presentation, 2012 Science, Practice and Art of Restoring Ecosystems Conference, East Lansing, MI. January 20-21, 2012.

- Macy, T.D., D.M. Hix, and *P.C. Goebel*. 2012. Composition and structure of eastern hemlock forest ecosystems of northeastern Ohio prior to hemlock woolly adelgid infestation. Poster presentation, 18th Central Hardwood Forest Conference, Morgantown, WV.
- Macy, T.D., *P.C. Goebel*, and D.M. Hix. 2012. Effects of an EF-2 tornado on the composition and structure of a Northern Ohio forest. Poster presentation, 2012 Science, Practice and Art of Restoring Ecosystems Conference, East Lansing, MI. January 20-21, 2012.
- Nyamai, P.A., *P.C. Goebel*, D.M. Hix, and R.G. Corace, III. 2012. Initial seedling densities following a variable retention harvest in a mixed-pine forest ecosystem of eastern Upper Michigan. Poster presentation, 2012 Science, Practice and Art of Restoring Ecosystems Conference, East Lansing, MI. January 20-21, 2012.
- Willis, D.J., J.R. Miesel, D.J. Mladenoff, and *P.C. Goebel*. 2012. The use of prescribed fire to control the spread of four invasive plant species in the Great Lakes Region. Poster presentation, 2012 Science, Practice and Art of Restoring Ecosystems Conference, East Lansing, MI. January 20-21, 2012.
- Corace, R.G., III, *P.C. Goebel*, D.M. Kashian, E. Toman, and N.E. Seefelt. 2011. Beyond Kirtland's Warbler: Multi-species implications for jack pine ecosystem management. Oral presentation, Jack Pine Symposium, University of Minnesota, Cloquet Forestry Center, Cloquet, MN. January 18, 2011.
- Goebel, P.C., and R.H. Ziel. 2011. Lake States Fire Science Consortium. Poster presentation, 2011 Science, Practice and Art of Restoring Ecosystems Conference, East Lansing, MI. January 21-22, 2012.
- Davidson-Bennett, K.M., and *P.C. Goebel*. 2011. Watershed urbanization impacts on headwater streams in the Cleveland metropolitan area. Poster presentation, 2011 OARDC Annual Conference, Wooster, OH. April 28, 2011.
- Goss, C.W., and *P.C. Goebel*. 2011. Do riparian forest patches mitigate the downstream influence of agriculture on leaf breakdown? Poster presentation, 2011 OARDC Annual Conference, Wooster, OH. April 28, 2011.
- Martin, K.L., and *P.C. Goebel*. 2011. How will hemlock woolly adelgid shift ecosystem function across the central Appalachians, including unglaciated Ohio? Poster presentation, 2011 OARDC Annual Conference, Wooster, OH. April 28, 2011.
- Davidson-Bennett, K.M., *P.C. Goebel*, J.J. Mack, M. Durkalec, and T. Robison. 2010. Stormwater impacts on streamflow in headwater streams in Cleveland Metroparks. Poster presentation, 2010 Ohio Stormwater Conference. Sandusky, OH. June 10-11, 2010.
- Nyamai, P., *P.C. Goebel*, D.M. Hix, and R.G. Corace, III. 2010. Disturbance and environmental influences on regeneration layer dynamics of mixed-pine forest ecosystems of Upper Michigan, USA. Poster presentation, Second Annual Meeting Midwest- Great Lakes Chapter, Society for Ecological Restoration, Madison, WI. April 9-10, 2010.
- Martin, K.L., and *P.C. Goebel*. 2010. Establishment of reference plant communities for forest ecosystems of the Unglaciated Allegheny Plateau. Poster presentation, Second Annual Meeting Midwest- Great Lakes Chapter, Society for Ecological Restoration, Madison, WI. April 9-10, 2010.
- Bumgardner, M. S., G.W. Graham, *P.C. Goebel*, and R.L. Romig. 2010. Perceptions of firms within a cluster regarding its function and success: Amish furniture manufacturing in Ohio. Oral Presentation, 17th Central Hardwoods Forest Conference. Lexington, KY. April 5-7, 2010.
- Goebel, P. C.*, D.M. Hix, and H.L. Whitman. 2010. Composition and structure of riparian areas along a land use gradient in an agricultural watershed of northeastern Ohio. Oral Presentation, 17th Central Hardwoods Forest Conference. Lexington, KY. April 5-7, 2010.

Hix, D.M., P.C. Goebel, and H.L. Whitman. 2010. Canopy gap characteristics of an old-growth and adjacent second-growth beech-maple stand in north-central Ohio. Oral Presentation, 17th Central Hardwoods Forest Conference. Lexington, KY. April 5-7, 2010.

Martin, K.L., and P.C. Goebel. 2010. Preparing for hemlock woolly adelgid in Ohio: communities associated with hemlock-dominated ravines of Ohio's unglaciated Allegheny Plateau. Oral Presentation, 17th Central Hardwoods Forest Conference. Lexington, KY. April 5-7, 2010.

Grants and Contracts Awarded:

Research Grants and Contracts

Total awarded - \$6,309,107; \$4,178,457 as lead PI (~66%)

2021-2022. Design and development of wildland fire courses. National Wildfire Coordinating Group (NWCG). Investigators: C. Goebel, H. Heward. \$29,942.

2020-2023. Assessing the effectiveness of BDAs. USDA NRCS Idaho Conservation Improvement Grant (CIG). Investigators: C. Goebel, J. Karl, M. Ellison, and E. Winford. \$73,464.

2020-2021. Synthesis of fire and aspen in the Lake States. Lake States Fire Science Consortium. Investigators: C. Goebel. \$13,342.

2020-2021. Northern Rockies Fire Science Network UI FY20-21 Modification. USDA Rocky Mountain Research Stations and Joint Fire Science Program. Investigators: C. Goebel. \$15,028.

2018-2021. Structure, function, and services in riparian areas of managed forest & rangeland landscapes of Idaho. McIntire-Stennis Program, University of Idaho. Investigators: C. Goebel. \$200,000.

2017-2020. Renewal for Lake States Fire Science Consortium: A JFSP Fire Science Knowledge Exchange Consortium. Joint Fire Science Program. Investigators: C. Goebel, E. Toman, D. Hix, B. Palik, R. Kolka, G. Corace, J. Miesel, and D. Kashian. \$448,212.

2016-2017. Renewal for Lake States Fire Science Consortium: A JFSP Fire Science Knowledge Exchange Consortium. Joint Fire Science Program. Investigators: C. Goebel, E. Toman, D. Hix, B. Palik, R. Kolka, G. Corace, J. Miesel, and D. Kashian. \$262,500.

2015-2017. A partnership to support collaborative oak management in Ohio's Appalachian forests. USDA Forest Service. Investigators: S.N. Matthews, P.C. Goebel, and D.M. Hix. \$49,973.

2015-2017. Change in forest ecosystems of southeastern Ohio: Assessing past trends and predicting future plant diversity and stand structural dynamics. OARDC SEEDS Grant Program, Seed Grant Competition. Investigators: D. Hix and C. Goebel. \$49,991.

2013-2015. Fire-science network and delivery system for fire-dependent ecosystems of the Northern Lake States – Extension Proposal. Joint Fire Science Program. Investigators: C. Goebel, E. Toman, D. Hix, R. Wilson, B. Palik, R. Kolka, G. Corace, J. Miesel, and D. Kashian. \$299,313.

2012-2013. Fire science network and delivery system for fire-dependent ecosystems of the northern Lake States: Third year extension. Joint Fire Science Program. Investigators: C. Goebel, E. Toman, D. Hix, R. Wilson, B. Palik, G. Corace, and R. Kolka. \$150,000.

2011-2013. Effects of catastrophic natural disturbance on the structure and function of forest ecosystems. OARDC SEEDS Seed Grant Program. Investigators: Goebel, P.C., J. Cardina, D.P. Herms, and P. Bonello. \$49,610.40.

- 2011-2013.** Consequences of hemlock woolly adelgid to coupled dynamics across riparian and stream ecosystems. OARDC SEEDS Interdisciplinary Grant Program. *Goebel, P.C., M. Sullivan, and D. Apsley.* Consequences of hemlock woolly adelgid to coupled dynamics across riparian and stream ecosystems. \$99,992.20.
- 2010-2012.** Fire science network and delivery system for fire-dependent ecosystems of the northern Lake States. Joint Fire Science Program. Investigators: *C. Goebel, E. Toman, D. Hix, R. Wilson, B. Palik, G. Corace, and R. Kolka.* \$397,827.
- 2010-2012.** Integrating fuels reduction and pine barrens restoration in endangered Kirtland's warbler habitat management. Joint Fire Science Program. Investigators: *G. Corace, D. Kashian, and C. Goebel.* \$195,029.00.
- 2010-2012.** Development of a forest management network for U.S. Fish and Wildlife Service Region 3 National Wildlife Refuges. U.S. Fish and Wildlife Service. Investigator: *C. Goebel.* \$4,000.
- 2009-2012.** Designing effective land management policies for the 21st century Ohio River Basin: Managing the carbon and nutrient cycles to maintain and restore water quantity and quality. The Ohio State University, Targeted Investment in Excellence (TIE) Climate, Water, and Carbon (CWC) Program. Investigators: *C. Goebel, E. Irwin, R. Moore, and R. Wilson.* \$1,299,911.00.
- 2009-2011.** Genetic, age, and spatial structure to improve invasive plant management strategies. OARDC Research Enhancement Competitive Grants Program Interdisciplinary Grant. Investigators: *J. Cardina, A. Michel, and C. Goebel.* \$100,000.00.
- 2009-2010.** Developing a fire-science network and delivery system for the northern Lake States." Joint Fire Science Program. Investigators: *C. Goebel, E. Toman, D. Hix, R. Wilson, and R.G. Corace, III.* \$20,079.00.
- 2009-2011.** Fuel treatments in mixed-pine forests in the Great Lakes Region: A comprehensive guide to planning and implementation. Joint Fire Science Program. Investigators: *E. Toman, R. Wilson, R. Williams, S. Gehrt, D. Hix, and C. Goebel.* \$151,363.00.
- 2008-2009.** Development of an evaluation tool for modified agricultural channels in Ohio. Ohio Environmental Protection Agency. Investigators: *C. Goebel and L. Williams.* \$65,000.00.
- 2007-2009.** An assessment of wood use and competitive factors in the Amish furniture manufacturing cluster." USDA Forest Service, Northern Research Station. Investigators: *G. Graham and C. Goebel.* \$33,280.00
- 2007.** Phytosanitation of emerald ash borer infested firewood. Ohio Division of Forestry. Investigator: *C. Goebel.* \$49,755.
- 2006-2008.** Association of salamanders and downed wood in riparian forests of headwater streams in the Cuyahoga Valley National Park. OARDC RECGP. Investigators: *C. Goebel and L. Williams.* \$49,794.
- 2006.** Assessment of bird use in the Kirtland's Warbler Wildlife Management Area among forest stand age classes. USDI Fish and Wildlife Service. Investigator: *C. Goebel.* \$5,000.
- 2005-2008.** Restoration-based fuel reduction recommendations for mixed-pine forests of Upper Michigan. Joint Fire Science Program. Investigators: *C. Goebel, D. Hix, J. Arvai, R. Corace, K. Brosofske, B. Palik.* \$299,411.
- 2005-2008.** Landscape scale disturbances in an agroecosystem: impacts on aquatic and riparian environments in the Sugar Creek Watershed, Ohio. USDA CSREES. Investigators: *L. Williams, V. Bouchard, C. Goebel, R. Moore, D. Stinner.* \$590,000.

- 2005-2007.** Long-term effects of wind disturbance on the old-growth forests and lianas of the Congaree National Park. USDI National Park Service. Investigators: B. Allen, R. Sharitz, *C. Goebel*. \$49,491.
- 2005-2006.** Assessing the current status and restoration potential of riparian areas in the Cuyahoga Valley National Park. USDI National Park Service. Investigators: *C. Goebel*, K. Holmes, M. Semko-Duncan. \$49,864 (Match of \$25,000 provided by OARDC).
- 2005.** Chemical Characterization of the Agricultural Production Soils on the Mellinger Farm. OARDC. Investigators: R. Mullen, *C. Goebel*. \$7,324.
- 2004-2005.** Monitoring plant community and large wood dynamics in tributary streams following a record flood in the Cuyahoga Valley National Park. USDI National Park Service. Investigator: *C. Goebel*. \$15,215 (Match of \$13,530 provided by OARDC and SNR).
- 2004-2006.** Ecological assessment of the USDI FWS Kirtland's Warbler Management Area. USDI Fish and Wildlife Service. Investigator: *C. Goebel*. \$18,000.
- 2003-2004.** Impacts of economics-driven land use decisions on watershed health. National Science Foundation Biocomplexity of Coupled Natural and Human Systems, Planning Grant. Investigators: B. Stinner, *C. Goebel*, R. Moore, D. Stinner, R. Taylor. \$99,990.
- 2003-2005.** Influence of landscape hierarchies on the structure and function of riparian plant communities in beech-maple forest ecosystems of the Lower Great Lakes. OARDC Research Enhancement Competitive Grants Program Seed Grant. Investigators: *C. Goebel*, D. Hix. \$24,668.
- 2002-2005.** Influence of large dam woods dams on stream organic matter processing and aquatic food webs in northern hardwood forest ecosystems. USDA National Research Initiative. Investigators: B. Palik, *C. Goebel*, R. Koch. \$294,000.
- 2002-2005.** Improving water quality and fostering a community vision and action through participatory farmers groups in the Sugar Creek headwaters. Ohio Environmental Protection Agency. Investigators: R. Moore, B. Stinner, *C. Goebel*, M. Weaver, T. Beck, D. Slates. \$475,479.
- 2001-2003.** Restoration and maintenance of historical openlands of Sleeping Bear Dunes National Lakeshore: Impacts on grassland and forest bird communities. National Park Service Great Lakes Monitoring Program. Investigators: G. Corace, *C. Goebel*, D. Flaspohler, J. Probst. \$35,000.
- 1997-2001.** Hydrogeomorphic controls on riparian areas of the Northern Lake States. USDA Forest Service North Central Research Station. Investigators: *C. Goebel*, B. Palik, K. Pregitzer. \$200,000.

Training Grants and Contracts

Total Awarded - \$2,960,461

- 2006-2011.** Linking watershed research and GK-12 education within an ecosystem context. National Science Foundation, GK-12 Program. Investigators: R. Moore, V. Bouchard, *C. Goebel*, C. Hoy, and L. Williams. \$2,958,178.00.
- 2005.** Influence of landscape characteristics on water quality in the headwaters of the North Fork, Sugar Creek, north-central Ohio: Internship program with ISARA-Lyons, France. The Ohio State University Agricultural Technical Institute. Investigators: O. Marcq and *C. Goebel*. \$2,283.00.

Honors and Awards:

Research Honors and Awards

2010 Ohio Agricultural Research and Development Center (OARDC), College of Food, Agricultural, and Environmental Sciences Distinguished Junior Faculty Research Award.

Best Posters (Goebel et al. and Holmes et al.) presented in the Best Management Practices section of the 2005 CSREES National Water Quality Conference, La Jolla, CA. Feb. 7-9, 2005.

Council of Graduate Schools (CGS)/University Microfilms International (UMI) Biological and Life Sciences Distinguished Dissertation Award Nominee, Michigan Technological University (2001).

Haakala Graduate Fellowship Award, School of Forestry and Wood Products, Michigan Technological University (2001).

Horner Hardwood Research Award, School of Forestry and Wood Products, Michigan Technological University (2001).

Research Program Highlights in Popular and University Press

2012. “What’s the Best Way to Burn (or Not) Certain Forests Around the Great Lakes? New Program Has Science-based Answers” by Kurt Kneebusch, OARDC CommTech (May 21, 2012), ([http://oardc.osu.edu/7141/Whats-the-Best-Way-to-Burn-\(or-Not\)-Certain-Forests-Around-the-Great-Lakes?-New-Program-Has-Science-based-Answers.htm](http://oardc.osu.edu/7141/Whats-the-Best-Way-to-Burn-(or-Not)-Certain-Forests-Around-the-Great-Lakes?-New-Program-Has-Science-based-Answers.htm))

2007. “Increase in vine density may alter composition, structure of Southeast’s bottomland hardwood forests” *The Forestry Source* (Sep 2007)

2007. “Vines slowly taking over southern U.S. forests” by Andrea Thompson, *FoxNews.Com SciTech* (Jul 20, 2007), (<http://www.foxnews.com/story/0,2933,289966,00.html>)

2007. “Vines climbing in Southeast” by Rick Weiss, *Washington Post* (Jul 23, 2007), (http://www.washingtonpost.com/wp-dyn/content/article/2007/07/22/AR2007072201142_pf.html)

2007. “Vines slowly taking over southern U.S. forests” by Andrea Thompson, *FoxNews.Com SciTech* (Jul 20, 2007), (<http://www.foxnews.com/story/0,2933,289966,00.html>)

2007. “Increase in creeping vines signals major shifts in southern U.S. forests” by Holly Wagner, *OSU Research* (Jul 7, 2007), (<http://researchnews.osu.edu/archive/lianas.htm>)

2004. “Mending Broken Rivers” by Mike Lafferty, *Columbus Dispatch* (Oct 5, 2004).

2003. Research program on riparian ecology and restoration highlighted in the *2003 OARDC Annual Report* (<http://oardcreport.osu.edu/2003/viewstory.asp?id=32>).

2003. Research on riparian ecology and restoration highlighted in *OARDC Report*, Fall 2003 issue.

2003. “Riparian buffers; Restoring the home of the Buckeyes (and more)” by Kurt Kneebush, *Ohionline News* (Nov 26, 2003). (<http://fusion.ag.ohio-state.edu/news/story.asp?storyid=1153>)

2003. “Riparian Zones” by Kurt Kneebush, *Smart Stuff with Twig Walkingstick*, OARDC (Nov 17, 2003).

SERVICE:

Major Committee Assignments:

University of Idaho – College of Natural Resources

College representative, University Committee on General Education (2018-current).

College representative, President’s Council on Diversity and Inclusion (2020-current).

College Senator, Faculty Senate (Fall semester 2020).

Member, College of Natural Resources Dean Search Committee (2018).

University of Idaho – Department of Forest, Rangeland and Fire Sciences

Chair, Alberg and Beck Endowed Chair in Native Plant Regeneration Search Committee (2017-2018).

The Ohio State University

University representative, National Council for Science and the Environment (NCSE) Council of Environmental Deans and Directors (CEDD) (2015-2017).

The Ohio State University – College of Food, Agriculture, and Environmental Science

Member, Associate Dean for Research and Graduate Education Search Committee (2015-2016).

Member, ATI Re-envisioning Committee (2015-2016).

Member, Secrest Arboretum Support Council (2014-2017).

The Ohio State University - School of Environment and Natural Resources

Chair, School of Environment and Natural Resources Research, Space, and Equipment Committee (2013-2017).

Chair, School of Environment and Natural Resources GIS/NRIS Committee (2005-2016).

Chair, School of Environment and Natural Resources Watershed Hydrologist Faculty Search Committee (2010-2011).

Chair, School of Environment and Natural Resources Environmental Modeling and Spatial Analysis Faculty Search Committee (2012-2013).

Member, School of Environment and Natural Resources Executive Committee (2010-2016).

Member, School of Environment and Natural Resources Forest Economics and Management Faculty Search Committee (2015-2016).

Member, School of Environment and Natural Resources Water and Social Science Faculty Search Committee (2015-2016).

Member, School of Environment and Natural Resources Soil-Plant Restoration Faculty Search Committee (2013-2014).

Member, School of Environment and Natural Resources Promotion and Tenure Oversight Committee (2006-2013).

Member, School of Environment and Natural Resources Graduate Studies Committee (2005-2010).

Member, School of Environment and Natural Resources Director's Search Committee (2009).

Member, School of Environment and Natural Resources Stream Ecology and Fisheries Faculty Search Committee (2008).

Member, School of Environment and Natural Resources 2010 Planning Committee (2003-2006).

The Ohio State University - Ohio Agricultural Research and Development Center

Member, Librarian 3 Search Committee (2015-2016).

Member, Wooster Campus Integration Committee (2014-2015).

Member, Ohio Agricultural Research and Development Center Research Awards Committee (2009-2012; 2015); Chair 2010 and 2011.

Member, Ohio Agricultural Research and Development Center Research Committee (2006-2009).

Member, Melinger Farm Steering Committee (School of Environment and Natural Resources representative; 2003-2016).

The Ohio State University - Agricultural Technology Institute

Member, Soils and Agronomy Faculty Search Committee (2013-2014).

Member, Advisory panel for managing OSU-ATI forest properties (2005-2016).

Academic Activities

2018. Wildland Fire Academic Program Accreditation Application for Fire Ecology and Management Program, University of Idaho. Association for Fire Ecology. October 2018.

2018. UI Renewable Materials Program (presented with A. McDonald), Meeting of US Wood Science Departments, Blacksburg, VA. May 6-8, 2018.

Professional and Scholarly Organizations

Professional Societies and Organizations

Chair, Western Region, National Association of University Forest Resource Program (NAUFRP) (2020-current).

Member, Executive Board, National Council for Science and the Environment (NCSE) Council of Environmental Deans and Directors (CEDD) (2015-2020).

Chair, Forest Ecology Working Group (C1), Society of American Foresters (2007-2009).

Chair-elect, Forest Ecology Working Group (C1), Society of American Foresters (2005-2006).

Secretary, Forest Ecology Working Group (C1), Society of American Foresters (2003-2005).

Academic Team Member, Ohio's Reforestation Initiative Team, Appalachian Regional Reforestation Initiative

Team Member – Ohio Department of Natural Resources Hemlock Woolly Adelgid (HWA) Task Force

Team Member - Great Lakes Regional Water Quality - Environmental Restoration Theme Team, Great Lakes Regional Water Leadership Team, USDA CSREES and USEPA

Member – International Union of Forest Research Organizations (IUFRO), Society of American Foresters (SAF), Ecological Society of America (ESA), Society for Ecological Restoration (SER), Torrey Botanical Society (TBS).

Editorial Activities

Associate Editor (Community Ecology; Vegetation Dynamics), *Journal of the Torrey Botanical Society*.

(2003-2018).

Associate Editor, Open Journal of Forestry. (2011-present).

Co-Editor - with D.A. Yaussy, D.M. Hix, and R.L. Long, 2004, Proceedings. 14th Central Hardwood Forest Conference; March 16-19, 2004, Wooster, OH. USDA USDA For. Serv. Gen. Tech. Rep. NE-316, Newtown Square, PA.

Subject Matter Editor – Forest Ecology Section, Proceedings. 17th Central Hardwood Forest Conference; April 5-7, 2010, Lexington, KY.

Peer Reviewer (manuscripts) – American Society of Mining and Reclamation; American Midland Naturalist; Applied Vegetation Science; Canadian Journal of Fisheries and Aquatic Science; Ecological Applications; Ecological Engineering; Forest Ecology and Management; Forests; Forest Science; Forestry; International Journal of Biodiversity; Journal of Fish and Wildlife Management; Journal of Forestry; Journal of the Torrey Botanical Society; Natural Areas Journal; Northern Journal of Applied Forestry; Perspectives in Plant Ecology, Evolution, and Systematics; PLOS One; Plant Ecology; Rhodora; River Research and Applications; Tree Ring Research; USDA North Central Research Station; Wetlands.

Peer Reviewer (books) – CRC Press, John Wiley and Sons; Nova Science; Island Press.

Grant Review Panels

Panel Member. 2010 Joint Fire Science Program. Interagency Fire Center, Boise, ID.

Panel Member. 2009. USDA Tropical and Subtropical Agriculture Research (TSTAR) Program. University of Hawaii - Manoa. Honolulu, HI.

Reviewer: USDA CSREES Managed Ecosystems (2002); USDA CSREES Watersheds and Water Processes (2003, 2004); USDA CSREES Soil Biology (2003, 2004); USDA SBIR Program (2010); USDA AFRI (2015).

Conferences and Symposia Organized

Steering Committee, 5th Midwest-Great Lakes Society for Ecological Restoration Chapter Meeting, Wooster, OH. April 12-14, 2013.

Steering Committee, 14th Central Hardwoods Forest Research Conference, sponsored by The Ohio State University and USDA Forest Service, Northeastern Research Station. Wooster, OH. March 16-19, 2004.

Session Organizer, *Managing fire and ecosystem services at the Wildland-Urban Interface*, 2015 European Ecological Federation. Rome, ITALY (2015). – Planning in 2014 included developing abstract and developing list of speakers; accepted in October 2014.

Session Organizer, *Restoring Forest Ecosystems Using Fire and Fire Surrogate Approaches*, 2013 North American Forest Ecology Workshop. Bloomington, IN (2013).

Session Organizer, *Another Challenge to Eastern Forests of North America: Hemlock Woolly Adelgid, Climate Change, and the Loss of Hemlock*, 2010 Annual Meeting of the Ecological Society of America. Pittsburgh, PA. (2010).

Session Organizer, *Natural History and Ecology of the Great Basin*, 2008 National Convention of the Society of American Foresters, Reno, NV. (2008).

Session Co-organizer, *Challenges of ecological restoration in landscapes altered by surface mining*, 5th Midwest-Great Lakes Society for Ecological Restoration Chapter Meeting, Wooster, OH. (2013). Co-organized with K. Jaeger.

Session Co-organizer, *Ecological Forestry From Different Perspectives*, 2008 National Convention of the

Society of American Foresters, Reno, NV. (2008).

Session Co-organizer, *Ecological Forestry - Innovative Approaches Integrating Ecology with Management*, 2007 National Convention of the Society of American Foresters. Portland, OR (2007).

Session Co-organizer, *Ecology and Management of Forest Understories*, 2007 National Convention of the Society of American Foresters. Portland, OR (2007).

Session Co-organizer, *Current Perspectives on Mineland Reclamation and Restoration*, 2006 National Convention of the Society of American Foresters. Portland, OR (2006).

Session Co-organizer, *Understanding Forest/Surface Water Interactions: Riparian to Watershed Influences on Aquatic and Wetland Ecosystems*, Third Biannual North American Forest Ecology Workshop. Duluth, MN (2001).

Honors and Awards:

Carnegie Foundation's 2008 "Curricular Engagement and Outreach & Partnerships" as a member of the Sugar Creek Watershed Initiative.

2007 Refereed Journal Article Gold Award for paper entitled *Maple syrup production in Ohio and impact of Ohio State University (OSU) Extension Programming* (*Journal of Forestry*. 104(2):94-101, Association of Natural Resource Extension Professionals (ANREP).

C. Peter McGrath – W.K. Kellogg Foundation Engagement Award State Nominee as a member of a team of researchers conducting watershed research, education and outreach in the Sugar Creek watershed of north-central Ohio (2007).

Ohio Citizen's Action Blue Ribbon Award for Ecological Approach to Agriculture as a member of the Agroecosystem Management Program, Ohio Agricultural Research and Development Center (OARDC), The Ohio State University for our research to help farmers farm in ways that are socially acceptable and environmentally friendly as well as profitable and productive (2003).