

Eckhardt's Curriculum Vitae

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LORI G. ECKHARDT

Professor and Director
 School of Forestry and Wildlife Sciences
 Auburn University, Auburn, Alabama 36849
 E-mail: eckhalg@auburn.edu
 Office: 334.844.2720; Fax: 334.884.1084; Cell: 334.332.6462

I. EDUCATION

- Ph.D. Plant Health and Entomology, Louisiana State University, Baton Rouge, LA 2003
 B.S. Cell, Molecular Biology and Genetics, University of Maryland, College Park, MD 1997

Short courses and technical training

- Genetic Data Analysis in Tree Breeding Workshop, North Carolina State University, Raleigh, NC, 2011
- Advanced Fungal Phylogenetic Analysis, University of Pretoria, FABI, South Africa, 2009
- Introductory Fungal Phylogenetic Analysis, University of Pretoria, FABI, South Africa, 2009
- CSREES Integrated Competitive Programs Grantsmanship Workshop, Memphis, TN, 2008
- Bark and Ambrosia Beetle Identification Workshop, North Central Plant Diagnostic Network, Michigan State University, East Lansing, MI, 2008

Administrative and leadership training

- Communicating with Tact, Diplomacy and Professionalism, Atlanta, GA, 2015
- Leadership in Academia: Challenges and Opportunities, Auburn University, AL, 2014
- Conflict Management Skills for Women, Columbus, GA, 2011
- COACH Workshop for Women Faculty in STEM Disciplines, Auburn University, 2010
- Managing Multiple Projects, Objectives and Deadlines, Atlanta, GA 2008

II. EMPLOYMENT HISTORY

Employer	Position/s	Dates
Auburn University	Professor, Associate Professor, Associate Research Professor, Assistant Research Professor and Director	2005 - present
Louisiana State University	Post-Doctoral Fellow	2004 – 2005
United States Forest Service	Plant Pathologist	2003 – 2004

Forest Health Protection, United States Forest Service	Volunteer Pathologist/Entomologist	2000 – 2003
Louisiana State University	Graduate Research Associate	1999 – 2003
University of Maryland Biotechnology Institute	Howard Hughes Undergraduate Research Fellow	1996 – 1997
University of Maryland Biotechnology Institute	Research Assistant	1996 – 1999

III. HONORS/AWARDS & LEADERSHIP

Leadership service:

- Chair, Women in Science and Engineering, Auburn University, 2017-present
- Coordinator, International Union of Forest Research Organizations (IUFRO) Working Group Disease/Environment Interactions in Forest Decline, Pathology, IUFRO Division 7, 2015-present
- Director, Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University, 2008-present
- Co-Director, Sudden Oak Death Regional Laboratories for Alabama and Mississippi, 2010-present
- Co-Director, National Science Foundation Center for Advanced Forest Systems Site at the School of Forestry and Wildlife Sciences, Auburn University, 2015-present
- Associate Director, Southern Region, Sigma Xi, 2016-present
- President, Auburn University Chapter, Sigma Xi, 2008-present
- President, Graduate Student Club, Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA, 2000-2003
- President, Alpha Rho Chapter, Alpha Chi Sigma - National Co-Ed Chemistry Fraternity, University of Maryland, College Park, MD, 1998-1999
- Vice President, Alpha Rho Chapter, Alpha Chi Sigma - National Co-Ed Chemistry Fraternity, University of Maryland, College Park, MD, 1997-1998

Work or bio was featured/broadcasted in (selected):

- Featured in *Auburn in Africa* Magazine, The Fungi Detective, 2018
- Research on Forest Health selected for the 2017 AAES Annual Report
- The Birmingham News, Auburn University tries to teach talented noses of its EcoDogs to sniff out tree killing fungus, 2011
- Channel 12 WFSB News (Montgomery, AL), Timber Dogs and Pine Decline, 2011
- Channel 3 News (Columbus, GA), Timber Dogs and Pine Decline, 2011
- Channel 13 News 38 (Columbus, GA), Timber Dogs and Pine Decline, 2011
- Radio Show, *Capital Ideas-Live!* 9/2007, 8/2008, 6/2009

Administration, research, teaching, extension recognition:

- Outstanding Extension Paper Award, South-wide Forest Disease Workshop, Quincy, FL 2011
- Outstanding Pathology Research Paper Award, South-wide Forest Disease Workshop, Quincy, FL 2011
- Adjunct faculty at the University of Pretoria, Forestry Agriculture and Biotechnology Institute, South Africa (2010-present)
- Appreciation Award, Appreciation for Participation in the Job Shadow Program, Junior Achievement and Alabama Cooperative Extension System, Auburn, AL 2007
- Affiliate faculty status in the Department for Plant Pathology and Crop Physiology at Louisiana State University, 2005-2007
- Appreciation Award, Appreciation for Research Efforts in Defining the Role of *Leptographium* in Loblolly Decline, United States Department of Agriculture, United States Forest Service, Forest Health Protection, Pineville, LA, 2005

Graduate education/research recognition:

- Outstanding Poster Award, Second Place, 4th Southern Forestry and Natural Resources GIS Conference, Athens, GA 2005
- Distinguished Dissertation Finalist, College of Agriculture, Louisiana State University, Baton Rouge, LA 2004
- C. W. Edgerton Honor Award, Outstanding Performance as a Graduate Student, Department of Plant Pathology & Crop Physiology, Louisiana State University, Baton Rouge, LA 2003
- Outstanding Student Research Paper Award, South-wide Forest Disease Workshop, Asheville, NC 2003
- Outstanding Student Research Paper Award, Louisiana State University, Graduate Student Association Annual Intellectual Gumbo Poster Symposium, Baton Rouge, LA, 2002
- Outstanding Student Research Paper Award, South-wide Forest Disease Workshop, Daytona Beach, FL 2002
- Outstanding Student Research Paper Award, Louisiana State University, Graduate Student Association Annual Intellectual Gumbo Poster Symposium, Baton Rouge, LA 2001
- Certificate of Appreciation, Participation in the Evaluation Monitoring Project, Assessment of Loblolly Pine 2001

Undergraduate education/research recognition:

- Outstanding Student Research Paper, Howard Hughes Medical Institute Undergraduate Research Fellowship Poster Session, University of Maryland, College Park, MD 1996
- Howard Hughes Medical Institute Undergraduate Research Fellowship, University of Maryland, College Park, MD 1996
- Alpha Chi Sigma, National Co-ed Chemistry Fraternity, University of Maryland, College Park, MD 1995
- Golden Key National Honor Society, Wayne State University, Detroit, MI 1993

IV. ADMINISTRATIVE AND LEADERSHIP ACCOMPLISHMENTS

Chair, Women in Science and Engineering: Women's Initiatives, Office of Inclusion and Diversity, Auburn University (2017-present)

Major accomplishments:

- Co-initiated the Graduate Student and Postdoc Academic program held as a luncheon with a panel that addresses topics associated with preparing for an academic career
- Co-initiated the Faculty Mothers Networking program to provide support and address issues facing faculty with young children
- Facilitated Spring 2018 TESS (Together Embracing Successful Scholars) Talks at the Black Box Theater

Chair, Graduate Policy and Procedure Committee: School of Forestry and Wildlife Sciences, Auburn University (2010-2017)

Major accomplishments:

- Managed and evaluated over 200 graduate student admission packages
- Directed graduate curricular review
- Co-developed the SFWS Thesis and Dissertation Evaluation form and rubric
- Facilitated the rewrite of the graduate faculty appointment and reappointment criteria and standards document
- Established a new MS degree in Natural Resources
- Chaired the graduate student awards committee and reviewed over 120 award packages

Director and Co-Founder, Forest Health Cooperative: School of Forestry and Wildlife Sciences, Auburn University (2008-present)

Major accomplishments:

- Collaborate with industry, federal agencies and private landowners on research, education and technology transfer concerning real world issues affecting forest health
- Manage 16 members and an annual budget of \$300,000 to \$350,000
- Developed interactive platform between industry and graduate student research (2009-present)
- Conduct yearly meetings and forest health workshops
- Supervised 3 research associates and 3 research assistants; currently supervise one research assistant
- Mentored 3 undergraduate fellows and 7 summer interns; currently supervise 3 summer interns
- Manage lab (2,500 sf) and greenhouse and head house (3,000 sf)

Professor, Associate (Research) Professor, and Assistant Research Professor: School of Forestry and Wildlife Sciences, Auburn University (2005-present)

Major accomplishments:

- Collaborate with various academic departments and research and education centers within the SFWS and other institutions across AU campus to advance my research academic programs
- Joint appointment in Department of Entomology and Plant Pathology, College of Agriculture, Auburn University
- Co-Director for the Sudden Oak Death Regional Laboratories for Alabama and Mississippi as well as the NSF Center for Advanced Forest Systems Site
- Chair or co-chair of 15 graduate students (5 PhD and 10 MS);supervised a postdoctoral fellow as well as 33 undergraduates and 4 high school students
- Mentored and coached student to publish 44 articles and reports, give 356 scientific presentations and win over 70 awards
- Chair of the Graduate Policy and Procedures Committee (2010-2017) working closely with the GPO on graduate issues in the SFWS
- Co-established and implemented a seminar series in SFWS with a \$5,000 budget to bring in speakers. Currently over 188 speakers from 31 universities (including four international) and 20 industry and government partners have participated and it has been running from 2009-present
- Developed research partnerships with South Africa (Forestry and Agriculture Biotechnology Institute, University of Pretoria and the Institute for Commercial Forestry Research) , Central America (Universidad Nacional Agraria (UNA), Instituto Nacional Forestal (INAFOR), and Ministry of Natural Resources (MARENA)) and South America (Universidad Pontificia Bolivariana-assisted with MOU)
- Adjunct Assistant Professor in the Department of Plant Pathology and Crop Physiology at Louisiana State University
- Co-developed the *Forest Health Teaching Practicum* to address the practical and theoretical issues of laboratory learning and facilitating the skills of pedagogy

V. RESEARCH, TEACHING, EXTENSION AND CONSULTING EXPERIENCE

Research, graduate advising and mentoring:

- Topical expertise:
 - 20+ years of research experience in plant health and entomology with collaborators from the United States, Canada, South Africa, Nicaragua, Australia, Columbia and Italy.
 - Investigated issues include mycology, pathology, entomology, virology, invasive species, management effects on forest health, loblolly pine decline, biology and ecology of ophiostomatoid fungi and their vectors, bark beetle ecology, and risk mapping.

- External funding:
 - Secured over \$5 million (as PI or co-PI) research support from the US Department of Agriculture, National Science Foundation, USDA Forest Service, Department of Defense, and several other national and international government and non-governmental organizations.
- Mentoring:
 - Chair/co-chair: 5 PhD and 10 masters committees
 - Committee member: 2 PhD and 4 masters committees
 - Supervisor: 1 Postdoctoral Fellow
 - Mentor: 7 visiting scholars; 3 undergraduate research fellows; 33 undergraduate student researchers; 7 summer interns; 4 high school student researchers
 - External examiner
 - Auburn University 2014, 2016, 2017
 - Southern University 2004
 - External international examiner
 - University of Pretoria, South Africa 2013 (PhD), 2016 (MSc)
 - University of British Columbia, Vancouver, Canada 2017 (PhD)

Graduate and undergraduate students that I direct and/or mentor have won 70+ awards including Best Paper, James Floyd Goggans' Endowed Fellowship for Outstanding Graduate Student in Forest Biology, Outstanding Ph.D. Student, Outstanding MS Student, Distinguished Dissertation for Biology and Life Sciences, Best Poster Award, Graduate Student Thesis/Dissertation Fellowship, Master's Thesis Award for Biology and Life Sciences, 3 Minute Thesis People's Choice Award, Dukes Award in Biological Sciences, Sigma Xi Grants in Aid, and various travel grants.

Employers of postdocs/graduates/undergraduates include United States Forest Service, The Nature Conservancy, Southern Company, Auburn University, Colorado State University, International Paper, The St. Joe Company, Department of Forestry (Columbia), Hawksberry Institute in the Environment (Sydney Australia), University of Massachusetts, Department of Natural Resources (GA, AL), Rayonier, Rothamsted Research (United Kingdom), The Westervelt Company, and Michigan State University.

Teaching:

Has 20+ years of teaching experience. Taught at Auburn University, Louisiana State University and the University of Maryland. Courses include *Forest Health Protection*, *Graduate Seminar*, *Forest Health Teaching Practicum*, *Forest Insect and Disease*, *Introductory Mycology*, *Science and Society*, *Professionalism in the Plant Sciences*, and *Cell Biology and Physiology*. I also have 10+ years teaching experience in the United States Navy as well as courses in the Northwest Flight Attendant School.

- Auburn University:
 - *Forest Health Protection* (lecture and laboratory), senior undergraduate and graduate level, 3+1-credits. Taught 10 times. (Developed and added laboratory to course)
 - *Graduate Seminar*, graduate level, 1-credit. Taught 3 times

- *Forest Health Teaching Practicum*, graduate level, 1-credit. Taught 10 times
- Louisiana State University:
 - *Science and Society*, freshman level, 3-credits. Taught 2 times
 - *Professionalism in the Plant Sciences*, graduate level, 2-credits. Taught 1 time (Initiator and co-developer)
 - *Forest Insects and Diseases* (lecture and laboratory), senior undergraduate and graduate level, 3+1-credits. Taught 1 time
 - *Forest Insects and Diseases* (laboratory only), senior undergraduate and graduate level, 1-credit. Taught 6 times
 - *Introductory Mycology* (laboratory only), senior undergraduate and graduate level, 1-credit. Taught 2 times
- University of Maryland:
 - *Cell Biology and Physiology* (Recitation Instructor), junior undergraduate level, 1-credit. Taught 1 time

Extension/Outreach/Service:

Has 10+ years of administration/coordination/working experience in extension and outreach. Worked with the Alabama Cooperative Extension Systems, Future Farmers of America, 4-H Forestry, Forest Productivity Cooperative, Tree Improvement Cooperative, Southern Forest Nursery Management Cooperative, Forest Health Cooperative and many industry partners.

- International:
 - Provided advice to enhance the undergraduate pathology and entomology research program in the Department of Protection of Agriculture and Forests at the Universidad Nacional Agraria (UNA), Nicaragua.
 - Helped optimize inspection protocols for forest insect and disease inspections and train personnel for the Instituto Nacional Forestal (INAFOR) and Ministry of Natural Resources (MARENA), Nicaragua.
- National/State:
 - Participate as a presenter in landowner meetings and land visits about forest health.
 - Participate as a presenter in industry partner meetings with the Forest Productivity Cooperative, Tree Improvement Cooperative, Southern Forest Nursery Management Cooperative, and Forest Health Cooperative.
 - Evaluated and helped transform the Future Farmers of America Forestry Career Development Event for the State of Alabama.

VI. RESEARCH GRANTS (Over \$5 million total)

- ~~□ Southern Forest Nursery Management Cooperative, Nanocellulose/lignin impregnated with pesticide: Possible insect control (2017, Co-PI) \$20,000~~
- Auburn University-IGP, Novel analytical tools for the selection of superior loblolly pine genotypes for improved plant health, fuels, and chemicals (2015-2017, Co-PI) \$49,980

- Forest Health Cooperative, Quantifying the impact of pine decline in the southeastern United States (2015-2019, Co-PI) \$315,765
- United States Forest Service, Forest Health Cooperative and Forest Agriculture and Biotechnology Institute, Ecology of siricids and fungal associates in southeastern pine forests: potential for biological control and competition (2015-2017, Co-PI) \$150,000
- National Science Foundation, Seedling production and forest health in the southeastern United States (2014-2019, Co-PI) \$300,000
- Department of Defense, Identification of climate effects on microbial symbionts of longleaf pine (2013-2014, Co-PI) \$90,000
- United States Forest Service, Testing of a rapid PCR screening test for the presence of *Fusarium circinatum*, the causal agent of pitch canker on pine planting material, (2013-2016, Co-PI) \$207,000
- Auburn University-HATCH, Rapid assessment tools for the genetic improvement of forest products and bioenergy, (2013-2015, Co-PI) \$40,000
- United States Forest Service, Physiological processes controlling pine vigor and decline in the southeastern United States, (2013, Co-PI) \$12,500
- Auburn University-HATCH, Interactions of future climate change scenarios of elevated tropospheric ozone and decreasing rainfall amounts with loblolly pine decline (2012-2014, Co-PI) \$49,986
- Auburn University-IGP, Field trials of a controlled vapor delivery method in an IPM system (2012-2014, Co-PI) \$97,000
- United States Forest Service, Biomass thinning effects on *Hylastes* populations (2011, PI) \$20,000
- Auburn University York Scholarship, Comprehensive analysis of the pathogenicity of *Ophiostoma* sp. Nov. in Nicaragua, Guatemala and Honduras (2010, Co-PI) \$5,000
- United States Forest Service, *Dendroctonus approximatus* sampling in Mexico, Honduras and Guatemala (2010, Co-PI) \$10,000
- United States Forest Service, Sudden oak death (*Phytophthora ramorum*) detection survey (2010-2018, PI) \$324,000
- United States Forest Service, Delineating loblolly pine decline in the southeast using FHM/FIA data (2010-2012, PI) \$50,000
- NIFA-AFRI, Cogongrass and ecologically based weed management strategies: Impacts on insect diversity and pine decline in the southeastern United States (2009-2012, Co-PI) \$494,000
- Forest Health Cooperative, Member Dues, (2008-2018, PI) \$1,196,120
- Department of Defense, Evaluation of virulence and pathogenicity of invasive ophiostomatoid fungi in relation to southern pine (2008, PI) \$47,500
- United States Forest Service, Development of a rapid PCR screening test for the presence of *Fusarium circinatum*, the causal agent of pitch canker on pine planting material (2008-2010, Co-PI) \$119,686
- Nutrition Cooperative at NCSU, *Hylastes* population dynamics and forest health evaluation in association with thinning and fertilization (2007-2009, PI) \$33,710
- United States Forest Service, Forest health evaluation of stand health in association with biomass removal, (2007-2009, PI) \$50,000

- Department of Defense, Longleaf pine assessment and evaluation of sustainable longleaf pine stands for RCW colony and foraging habitat, Fort Benning Georgia (2005-2010, PI) \$635,000
- United States Forest Service, Validation of risk mapping for loblolly pine decline across the southeastern United States (2004-2007, PI) \$100,800
- United States Forest Service and Department of Defense, Risk mapping, loblolly decline and sustainable RCW habitat, Fort Benning Georgia (2003-2006, PI) \$265,000
- United States Forest Service, Pine decline in Central Alabama (1999-2003, Co-PI) \$250,000
- Howard Hughes Medical Institute Undergraduate Research Fellowship, Virus disassembly: importance of coat protein-RNA interactions (1997, PI) \$20,000

VII. SERVICE TO THE PROFESSION AND UNIVERSITY SYSTEM

Editorships and professional memberships

- Current Editorial Board Memberships
 - Fine Focus, an International Microbiology Journal for Undergraduate Research
 - Forests
 - Journal of Forestry
 - Antoine van Leeuwenhoek Journal of Microbiology
 - Forest Pathology
 - Journal of Plant Pathology
 - Plant Disease
 - Forest Ecology and Management
 - Forestry: An International Journal of Forest Research

Professional membership

- Member, International Society of Plant Pathology 2012-present
- Member, Principle Investigators Association, 2010-present
- Member, Society of Women in Sciences and Mathematics, 2008-present
- Member, Ecological Society of America, 2008-2012
- Member, South-wide Forest Disease Workshop, 2008-2016
- Member, Society of American Foresters, 2003-present
- Member, Entomological Society of America, 2001-present
- Member, American Phytopathological Society, 2000-present
- Member, Mycological Society of America, 2000-present
- Member, Sigma Xi National Research Honor Society, 2000-present
- Member, Alpha Chi Sigma - National Co-ed Chemistry Fraternity, 1997-present

International level service

- Coordinator of IUFRO Working Group WP 7.02.06 Disease/Environment Interactions in Forest Decline under Research Group RG 7.02.00 Pathology in IUFRO Division 7, 2015-present
- Ad-hoc Grant Evaluator, National Research Foundation, South Africa, 2010-present

National level service

- Chair, Credentials Committee, Sigma Xi 126th Annual Meeting, 2016
- Judge in Agriculture, Soil, and Natural Resources for the Sigma Xi Student Research Conference, Sigma Xi 126th Annual Meeting, 2016
- Sigma Xi Membership Reviewer (*Reviews nomination packets for new initiate's for membership at the National level*), 2015-present
- Chair, Mentor Committee, South Eastern Division, Society of American Foresters, 2010
- Secretary, South-wide Forest Disease Workshop, 2008-2016

University-wide service

- Chair, Women in Science and Engineering Institute Steering Committee, Auburn University, 2017-present
- Reviewer, Assistant Professor CV and Promotion and Tenure Packet for “Pathways to Full Professor and Beyond” a Women’s Initiative program, Auburn University, 2015-2017
- Member, Auburn University Budget Committee, 2013-2015
- Member, Auburn University Council for Energy Environment Economic Research, 2012-2014
- Member, Senate Faculty Research Committee, Auburn University, 2011-2012
- Member, Energy and Environment Task Force, Auburn University, 2010-2013
- Member, Women in Science and Engineering Institute Steering Committee, Auburn University, 2009-2017
- Member, Undergraduate Research and Creative Scholarship Committee, 2009-2012
- Member, Senate Graduate Council Committee, Auburn University, 2008-2011
- Member, Graduate School Fellowship Committee, Auburn University, 2006-2009
- Judge, Graduate Student Research Forum, Undergraduate Research Forum, This is Research, Auburn University, 2006-2018

College-wide service

- Reviewer, OVPR IGP Review Panel, 2017
- Served as Subject Matter Expert (SME) for the School of Forestry and Wildlife Sciences for the OVPR for the IGP Review Panel, 2016
- Reviewer, OVPR IGP Review Panel, 2015
- Panelist, New Faculty Symposium (NSF) luncheon on Work/Life Balance, 2016

School/Department-wide service

- Committee Member, SFWS Wildlife Faculty Search Committee, Auburn University, 2013
- Committee Member, Department of Entomology and Plant Pathology Mycology Faculty Search Committee, College of Agriculture, Auburn University 2013
- Committee Member, SFWS Contracts and Grants Coordinator Search Committee, Auburn University, 2012
- Committee Member, SFWS Executive Budget Coordinator Search Committee, Auburn University, 2011
- Committee Member, SFWS Dean Search Committee, Auburn University, 2010
- Chair, SFWS Weaver Lecture Committee, Auburn University, 2014-2017
- Chair, SFWS Seminar Committee, Auburn University, 2010-2013

- Chair, SFWS Graduate Policy and Procedures Committee, 2010-2017
- Co-Chair, SFWS Scholarship Committee, Auburn University, 2009-2015
- Member, SFWS Graduate Policy and Procedures Committee, 2008-2010
- Member, SFWS Forest Ecology Preserve Steering Committee, 2007-2008
- Member, SFWS Scholarship Committee, Auburn University, 2006-2009
- Member, SFWS Research Committee, Auburn University, 2006-2015
- Member, SFWS Seminar Committee, Auburn University, 2005-2010, 2014-present

VIII. PUBLICATIONS (Total = 80 [5 invited]; referred book chapters = 4; referred journal articles = 45; other non-referred publications = 31; An asterisk [*] denotes the author is a Graduate Student and a double asterisk [] denotes the authors is an Undergraduate Student)**

Books/Book Chapters (Total = 4)

1. Eckhardt, L.G. 2018. Loblolly Pine Decline (sidebar, Chapter X). In: (eds.) *The Conifer Compendium*. American Phytopathological Society Press, USA (**Invited**)
2. Eckhardt, L.G. and Menard, R.D. 2013. Pine decline in the southeastern United States and the involvement of bark beetles and ophiostomatoid fungi. In: Siefert, K., Wingfield, M. and de Beer, W. (eds.) *The Ophiostomatoid Fungi: Expanding Frontiers*. American Phytopathological Society Press, USA (**Invited**)
3. Eckhardt, L.G. 2013. Black stain root diseases and other *Leptographium* diseases. In: Nicolotti G. and Gonthier P. (eds.) *Infectious Forest Diseases*. CABI Book (**Invited**)
4. Eckhardt, L.G. 2010. Loblolly pine decline (sidebar, Chapter 12). In: McNabb, K. and Gjerstad, D., (eds.) *Managing forests on private lands in Alabama and the Southeast*. Sweetwater Press/Alabama Forestry Foundation (**Invited**)

Refereed Journal Articles (Total = 45)

1. Devkota*, P., Enebak, S.A. and Eckhardt, L.G. (*Accepted*) The impact of drought and vascular-inhabiting pathogen invasion in *Pinus taeda* health. Intl J For Res (*In Press*)
2. Piculell*, B.J. Nelson, C.D., Roberds, J., Eckhardt, L.G., and Hoeksema, J.D. (*Accepted*) Genetically determined fungal pathogen tolerance and soil variation influences ectomycorrhizal traits of loblolly pine. Ecol Evol (*In Press*)
3. Essien*, C., Via, B.K., Gallagher, T., McDonald, T., and Eckhardt, L.G. 2018. Distance error for determining the acoustic velocity of standing tree using tree morphological, physical and anatomical properties. Published online <https://doi.org/10.1007/s13196-018-0208-3> J Indian Acad Wood Sci

4. Acquah*, G., Via, B.K., Fasina, O., Adhikari, S., Billor, N., and Eckhardt L. 2018. Estimating the basic density and mechanical properties of elite loblolly pine families with near infrared spectroscopy. *For Sci* 64:149-158.
5. Devkota*, P., Nadel, R.L., and Eckhardt, L.G. 2018. Intra-species variation of mature *Pinus taeda* in response to ophiostomatoid fungi. *Forest Pathol* Published online <http://onlinelibrary.wiley.com/doi/10.1111/efp.12415/full>
6. Essien*, C., Via, K.B., Acquah, G.E., Gallagher, T., McDonald, T., Wang, X. and Eckhardt, L.G. 2017. Effect of genetic sources on the anatomical, morphological, and mechanical properties of 14-year-old genetically improved loblolly pine families selected from two sites in the southern United States. *J For Res* Published online <https://link.springer.com/article/10.1007/s11676-017-0584-3#citeas>
7. Essien*, C., Via, B.K., Gallagher, T., McDonald, T., and Eckhardt, L.G. 2017. Sensitivity tools to variation in equilibrium moisture content of small clear samples of loblolly pine (*Pinus taeda*). *J Indian Acad Wood Sci* Published online <https://doi.org/10.1007/s13196-017-0202-1>
8. Chieppa*, J.J., Eckhardt, L.G., and Chappelka, A.H. 2017. Simulated summer rainfall variability effects on loblolly pine (*Pinus taeda*) seedling physiology and susceptibility to root-infecting ophiostomatoid fungi. *Forests* 8:132-145 (**Invited**)
9. Acquah*, G., Via, B.K., Fasina, O., Adhikari, S., Billor, N., and Eckhardt L. 2017. Chemometric modeling of thermogravimetric data for the compositional analysis of biomass. *PLoS-ONE* 12(3): e0172999. <https://doi.org/10.1371/journal.pone.0172999>
10. Essien*, C., Via, B.K., Eckhardt, L., Cheng, Q., Gallagher, T., McDonald, T., and Wang, X. 2017. Multivariate modeling of acusto-mechanical response of fourteen-year-old suppressed loblolly pine (*Pinus taeda*) to variation in wood chemistry, microfibril angle and density. *Wood Sci Technol* 51:475-492
11. Trautwig*, A. Eckhardt, L.G., Hoeksema, J., Carter, E.A., and Loewenstein, N. 2017. Mycorrhizal communities in *Imperata cylindrical* invaded and non-invaded commercial *Pinus taeda* stands. *For Sci* 62:10-16(17)
12. Acquah*, G., Via, B.K., Fasina, O., and Eckhardt L. 2016. Rapid quantitative analysis of forest biomass using Fourier transformation spectroscopy (FTIR) and partial least squares (PLS) regression. *J Anal Meth Chem* Published online <https://www.hindawi.com/journals/jamc/2016/1839598/>
13. Acquah*, G., Via, B., Billor, N., Fasina, O., and Eckhardt, L. 2016. Identifying plant part composition of forest logging residue using infrared spectral data and linear discriminant analysis. *Sensors* 19:1375-1389

14. Matusick, G., *Walker, D., *Hossain, M., Nadel, R.L., and Eckhardt, L.G. 2016. Comparative behavior of root disease pathogens in stems and roots of *Pinus* species. *Fungal Biology*. Published online: DOI: 10.1016/j.funbio.2015.12.007.
15. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2015. Effects of tropospheric ozone on loblolly pine seedlings inoculated with root infecting ophiostomatoid fungi. *Environ Poll* 207:130-137.
16. Beach, J., Uertz, J., and Eckhardt, L. 2015. Hyperspectral interferometry: sizing micro-scale surface features in the pine bark beetle. *Microscopy Research and Techniques* Published online: DOI: 10.1002/jemt22550.
17. Acquah*, G.E., Via, B.K., Fasina, O. and Eckhardt, L.G. 2015. Nondestructive estimation of forest biomass properties for bioenergy, fuels and chemical applications using near infrared spectroscopy (NIRS). *J Near Infr Spec* Published first: doi: 10.1255/jnirs.1153.
18. Sells*, S.M., Held, D., Enloe, S., Loewenstein, N., and Eckhardt, L. 2015. Impact of cogongrass management strategies on generalist predators in longleaf pine stands. *Pest Mgmt Sci* 71:478-484
19. Via, B.K., Zhou, C., Acquah, G., Jiang, W., and Eckhardt, L. 2014. Near infrared spectroscopy calibration for wood chemistry: which chemometric technique is best for prediction and interpretation? *Sensors* 14:13532-13547
20. Riggins, J.J., Little, N.S., and Eckhardt, L.G. 2014. Correlation between infection by ophiostomatoid fungi and the presence of eastern subterranean termite (*Reticulitermes* spp.) in loblolly pine (*Pinus taeda*) roots. *Agric For Entol* 16:260-264
21. Duong*, T.A., de Beer, Z.W., Wingfield, B.D., Eckhardt, L.G., and Wingfield, M.J. 2014. Microsatellite and mating-type markers reveal unexpected patterns of genetic diversity in the pine root-infecting fungus *Grosmannia alacris*. *Phytopathology* 64:235-242
22. Singh*, A., Anderson, D, and Eckhardt, L.G. 2014. Variation in resistance of loblolly pine (*Pinus taeda* L.) families against *Leptographium* and *Grosmannia* root fungi. *For Path* 44:293-298
23. Enloe, S.F., Loewenstein, N.J., Held, D.W., Eckhardt, L.G., and Lauer, D.K. 2014. Impacts of prescribed fire, glyphosate, and seeding on cogongrass, species richness and species diversity in longleaf pine. *Invas Plant Sci Mana* 6:536-544
24. Zeng*, Y., Kidd, R., and Eckhardt, L.G. 2013. The Effect of thinning and clear-cut on changes in the relative abundance of root-feeding beetle (Coleoptera: Curculionidae) in *Pinus taeda* plantations in Central Alabama and Georgia. *Pest Manag Sci* 70:915-921

25. Matusick*, G., Menard, R.D., Zeng, Y., and Eckhardt, L.G. 2013. Root-inhabiting bark beetles (Coleoptera: Curculionidae) and their fungal associates breeding in dying loblolly pine in Alabama. *Fla Entomol March*: 238-241
26. Walls*, J.G., Hepp, G.R., and Eckhardt, L.G. 2012. Onset of incubation and nest reuse: effects on microbial growth and viability of wood duck eggs. *The Condor* 114:720-725
27. Matusick*, G., Somers, G., and Eckhardt, L.G. 2012. Root lesions in large loblolly pine (*Pinus taeda* L.) following inoculation with four root-inhabiting ophiostomatoid fungi. *For Path* 42:37-43
28. Walls*, J.G., Hepp, G.R., and Eckhardt, L.G. 2011. Effects of incubation delay on viability and microbial growth on wood duck eggs. *The Auk* 128:663-670
29. Matusick*, G., Eckhardt, L.G., and Somers, G. 2010. The pathogenicity of four *Leptographium* species to mature longleaf pine roots. *For Ecol Mgmt* 260:2189-2195
30. Matusick*, G. and Eckhardt, L.G. 2010. Variation in virulence among four root-inhabiting ophiostomatoid fungi on *Pinus taeda* L., *P. palustris* Mill., and *P. elliottii* Englem. seedlings. *Can J Plant Path* 32:361-367
31. Zanzot*, J.W., de Beer, Z.W., Eckhardt, L.G., and Wingfield, M.J. 2010. A new *Ophiostoma* species from loblolly pine roots in the southeastern United States. *Mycol Progress* 9:447-457
32. Matusick*, G. and Eckhardt, L.G. 2010. The pathogenicity and virulence of four ophiostomatoid fungi on young longleaf pine trees. *Can J Plant Path* 32:170-176
33. Zanzot*, J.W., Matusick, G., and Eckhardt, L.G. 2010. Activity of root-feeding insects and their associated fungi on longleaf pine in Georgia. *J Econ Entomol* 39:415-423
34. Eckhardt, L.G., Menard, R.D., and Gray, E. 2009. Effects of oleoresins and terpenoids on the fungal growth associated with pine decline in the southeastern United States. *For Path* 39:157-167
35. Matusick*, G., Eckhardt, L.G., and Enebak, S.A. 2008. Pathogenicity of *Leptographium serpens* to longleaf pine seedlings under various moisture regimes. *Plant Dis* 92:1574-1576
36. Eckhardt, L.G. and Menard, R.D. 2008. Topographic features associated with loblolly pine decline in central Alabama. *For Ecol Mgmt* 255:1735-1739
37. Via, B.K., So, C.L., Eckhardt, L.G., Shupe, T.F., Stine, M., and Groom, L. 2008. Response of near infrared diffuse reflectance spectra to blue stain and wood age. *J Near Infr Spec* 16:71-74

38. Eckhardt, L.G., Weber, A.M., Menard, R.D., Jones, J.P., and Hess, N.J. 2007. Association of an insect-fungal complex with loblolly pine decline in central Alabama. *For Sci* 53:84-92
39. Via, B.K., Eckhardt, L.G., So, C.L., Shupe, T.F., Stine, M., Groom, L., and Roberds, J.H. 2006. The sensitivity of near infrared spectroscopy to two blue staining fungi. *Wood Fiber Sci* 38:717-726
40. Jacobs, K., Eckhardt, L.G., and Wingfield, M.J. 2006. *Leptographium profanum* sp. nov., a new species from hardwood in North America. *Can J Bot* 84:759-766
41. Via, B.K., So, C.L., Shupe, T.F., Eckhardt, L.G., Stine, M., and Groom, L. 2005. Prediction of wood mechanical and chemical properties in the presence and absence of blue stain using two infrared instruments. *J Near Infr Spec* 13:201-212
42. Eckhardt, L.G., Jones, J.P. and Klepzig, K.D. 2004. Pathogenicity of *Leptographium* species associated with loblolly pine decline. *Plant Dis* 88:1174-1178
43. Eckhardt, L.G., Goyer, R.A., Klepzig, K.D., and Jones, J.P. 2004. Interactions of *Hylastes* species (Coleoptera:Scolytidae) with *Leptographium* species associated with loblolly pine decline. *J Econ Entomol* 97:468-474
44. Eckhardt, L.G. 2003. Biology and ecology of *Leptographium* species and their vectors as components of loblolly pine decline. Ph.D. Dissertation, Louisiana State University, Baton Rouge, LA
45. Goregaoker, S.P., Eckhardt, L.G., and Culver, J.N. 2000. Tobacco mosaic virus replicase-mediated cross-protection: contributions of RNA and protein-derived mechanisms. *Virology* 273:267-275

Refereed Proceedings and Professionally Reviewed Publications (Total = 7)

1. Eckhardt, L. and Steury, T. 2012. Root diseases and timber dogs. *Forestry Source*. May 2012 Vol. 17, No. 5, p. 13.
2. Eckhardt, L. and Steury, T. 2011. Root diseases and timber dogs. *Silviculture Magazine*. Fall 2011, p. 30-31
3. Eckhardt, L.G., Sword-Sayer, M.A., and Imm, D.W. 2010. State of pine decline in the southern United States: A Technical Note. *J Appl For* 34:138-141
4. Eckhardt, L.G. and Menard, R.D. 2009. Declining loblolly pine stands: symptoms, causes and management options. *AL Treasured Forest Magazine* Volume XXV111, No. 2, p. 10-12

5. Eckhardt, L.G., Sword-Sayer, M.A., and Imm, D.W. 2008. What is pine decline in the southern United States and how wide spread is it? White Paper, http://www.esa.org/science_resources/forest_health_workshop.php
6. Eckhardt, L.G. 2002. *Leptographium* species: tree pathogens, insect associates, and agents of blue-stain: a review. For Sci 48:790
7. Jones, J.P., Sun, X., Eckhardt, L., Weber, A., Hess, N., Barnett, J., and McGilvory, J. 2002. Longleaf seedling production: some problems and their solutions. La Agri. 45:4-6

Non-refereed Proceedings, Papers and Reports (Total = 31)

1. Essien*, C., Via, B.K., Cheng, G., Gallagher, T., McDonald, T., and Eckhardt, L. 2017. Applying discriminate analysis and acoustic tool to assign loblolly pine families into susceptibility classes. Proceedings of the International Nondestructive Testing and Evaluation Symposium. Madison, WI, USA. September 12 – 15, 2017
2. Essien*, C., Via, B.K., Wang, X., Gallagher, T., McDonald, T., and Eckhardt, L.G. 2017. Multivariate modeling of acousto-mechanical response of fourteen-year-old suppressed loblolly pine (*Pinus taeda*) to variation in wood chemistry, microfibril angle, and density. Proceedings of the International Nondestructive Testing and Evaluation Symposium. Madison, WI, USA. September 12 – 15, 2017
3. Devkota*, P. and Eckhardt, L.G. 2017. The role of *Leptographium terebrantis* and *Grosmannia huntii* invasion in driving drought-related decline in *Pinus taeda* families. Research Report 2017-07. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University
4. Devkota*, P. and Eckhardt, L.G. 2017. Intra-species variation in response of mature *Pinus taeda* families to root-infecting ophiostomatoid fungi. Research Report 2017-06. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University
5. Devkota*, P. and Eckhardt, L.G. 2017. Intraspecific and inter-stocktype response of *Pinus taeda* L. to *Grosmannia huntii* and *Leptographium terebrantis*. Research Report 2017-05. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University
6. Wahl*, A.C. and Eckhardt, L.G. 2017. Competitiveness of *Amylostereum* spp. fungi against *Leptographium* spp. fungi. Research Report 2017-04. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University
7. Wahl*, A.C. and Eckhardt, L.G. 2017. Effect of growth rate on *Amylostereum* spp. fungus by terpenes. Research Report 2017-03. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University

8. Wahl*, A.C. and Eckhardt, L.G. 2017. *Deladenus* species associated with native siricid woodwasps in Alabama. Research Report 2017-02. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University
9. Wahl*, A.C. and Eckhardt, L.G. 2017. Flight phenology of *Sirex nigricornis* (Hymenoptera: Siricidae) and other woodwasps in Alabama. Research Report 2017-01. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University
10. Trautwig*, A.M. and Eckhardt, L.G. 2016. Response of ectomycorrhizal fungi associated with *Pinus taeda* to *Imperata cylindrica* exudate constituents. Research Report 2016-04. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University
11. Trautwig*, A.M. and Eckhardt, L.G. 2016. The impact of invasion by *Imperata cylindrica* on microbial abundance and abiotic soil factors in *Pinus taeda* plantations. Research Report 2016-03. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University
12. Trautwig*, A.M. and Eckhardt, L.G. 2016. *Imperata cylindrica* impacts solonization by mycorrhizal fungi on *Pinus taeda* in commercial stands. Research Report 2016-02. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University.
13. Devkot*a, P. and Eckhardt, L.G. 2016. Variance in tolerance of different families of loblolly pine (*Pinus taeda* L.) to *Grosmannia huntii* and *Leptographium terebrantis*. Research Report 2016-01. Forest Health Cooperative, School of Forestry and Wildlife Sciences, Auburn University
14. Sayer, M.A.S., Tyree, M.C. Blazier, M.A., Sung, S.S., and Eckhardt, L.G. 2016. Is natural defense capacity correlated to allocation of dry mass to the stem in loblolly pine? In: Schweitzer, C.J.; Clatterbuck, W.K.; Oswald, C.M., eds. 2016. Proceedings of the 18th biennial southern silvicultural research conference. e-Gen. Tech. Rep. SRS-212. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 614 p.
15. Eckhardt, L.G., Matusick, G., Menard, R.D., and Ditchkoff, S.S. 2016. Three new ophiostomatoid species isolated from soil on snouts of wild pigs damaging pine roots in Georgia. In: Schweitzer, C.J.; Clatterbuck, W.K.; Oswald, C.M., eds. 2016. Proceedings of the 18th biennial southern silvicultural research conference. e-Gen. Tech. Rep. SRS-212. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 614 p.
16. Acquah*, G., Via, B.K., and Eckhardt, L.G. 2016. Nondestructive estimation of the chemical and thermal properties of forest biomass using vibrational spectroscopy and thermogravimetric analysis. In: Schweitzer, C.J.; Clatterbuck, W.K.; Oswald, C.M., eds. 2016. Proceedings of the 18th biennial southern silvicultural research conference. e-Gen. Tech. Rep. SRS-212. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 614 p.

17. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2016. Effects of elevated tropospheric ozone and altered irrigation regimes on loblolly pine seedlings inoculated with ophiostomatoid fungi. In: Oswalt, Christopher, ed. 2014. Schweitzer, C.J.; Clatterbuck, W.K.; Oswalt, C.M., eds. 2016. Proceedings of the 18th biennial southern silvicultural research conference. e-Gen. Tech. Rep. SRS-212. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 614 p.
18. Chappelka, A.H., Eckhardt, L.G., and Chieppa, J. 2014. Interactions of future climate change scenarios of elevated tropospheric ozone with loblolly pine decline. Proceedings of the Western Forest Pathology Workshop
19. Eckhardt, L. and Matusick, G. 2012. Variation in pathogenicity and virulence of four ophiostomatoid fungi and *Heterobasidion* irregular in *Pinus taeda* and *Pinus elliottii*. P. 146. in Proceedings of the 13th International Conference of the IUFRO Working Party 7.02.01, September 4-10, 2011 Firenze Italy on Root and Butt Rot of Forest Trees, Capretti, P., Comparini, C., Garelotto, M., La Porta, M. (eds), University Press, Firenze
20. Menard, R., Eckhardt, L., and Hess, N. 2011. Assessment of loblolly Pine on Fort Benning Military Reservation, Fort Benning, GA. In: Stanturf, John A., ed. 2010. Proceedings of the 14th biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-212. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 301-306 pp.
21. Menard, R., Eckhardt, L., and Hess, N. 2006. Assessment of loblolly Pine on Fort Benning Military Reservation, Fort Benning, Georgia. Report No. 2006-02-01. Pineville, LA: U.S. Department of Agriculture, Forest Service, Forest Health Protection
22. Hess, N., Eckhardt, L., Menard, R., and Goddard, A. 2005. Assessment of loblolly pine decline on the Shoal Creek and Talladega Ranger Districts, Talladega National Forest, Alabama. (Revised) Report No. 2005-08-04. Pineville, LA: U.S. Department of Agriculture, Forest Service, Forest Health Protection
23. Hess, N., Eckhardt, L., Menard, R., and Goddard, A. 2005. Assessment of loblolly pine decline on the Oakmulgee Ranger District, Talladega National Forest, Alabama. Report No. 2005-02-04. Pineville, LA: U.S. Department of Agriculture, Forest Service, Forest Health Protection
24. Smith, M.O., Hess, N. J., Gulik, S., Jr., Eckhardt, L.G., and Menard, R.D. 2004. Use of aerial hyperspectral imaging for monitoring forest health. Gen. Tech. Rep. SRS-71. Proceedings of the 12th biennial southern silvicultural research conference. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. pp. 166-168
25. Eckhardt, L., Hess, N., Menard, R., and Goddard, A. 2004. Assessment of loblolly pine decline on the Ranger Districts, Talladega National Forest, Alabama. Report No. 2004-02-01. Pineville, LA: U.S. Department of Agriculture, Forest Service, Forest Health Protection

26. Hess, N., Eckhardt, L., Menard, R., and Goddard, A. 2003. Assessment of loblolly pine decline on the Shoal Creek and Talladega Ranger Districts, Talladega National Forest, Alabama. Report No. 2003-02-04. Pineville, LA: U.S. Department of Agriculture, Forest Service, Forest Health Protection
27. Hess, N., Eckhardt, L., Menard, R., and Goddard, A. 2003. Assessment of loblolly pine decline on the Oakmulgee Ranger District, Talladega National Forest, Alabama. Report No. 2003-02-02. Pineville, LA: U.S. Department of Agriculture, Forest Service, Forest Health Protection
28. Haley, T., Bruce, B., Danzy, J., Eckhardt, L., Menard, R., Oliveria, F., and Steiner, C. 2002. Forest health evaluation of southern pine beetle on the Nation Forests in Alabama. Report No. 2002-02-02. Pineville, LA: U.S. Department of Agriculture, Forest Service, Forest Health Protection
29. Hess, N.J., Otrosina, W.J., Carter, E.A., Steinman, J., Jones, J.P., Eckhardt, L.G., Weber, A., and Walkinshaw, C. 2001. Assessment of loblolly pine decline in central Alabama. Gen. Tech. Rep. SRS-48. Ashville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 558-564 pp.
30. Bauman, T.A., Eckhardt, L.G., Goyer, R.A., and Klepzig, K.D. 2001. Interactions of fire, insects and root pathogens in longleaf pine. P. 95-96 *in* Proceedings of the third longleaf alliance regional conference, Alexandria, Louisiana, October 16-18, on Restoration and management of longleaf pine ecosystems: silviculture, ecological, social, political and economic challenges, Kush, J.S. (ed), Longleaf Alliance Report No. 5
31. Goyer, R.A., Bauman, T.A., Lenhard, G.J. and Eckhardt, L.G. 2001. Effects of fire regimes in longleaf pine restoration efforts in the southeastern US. P. 52 *in* Boreal Odyssey: Proceedings of the North American Forest Work Conference. May 14-18, 2001. Edmonton, Alberta, Canada. W.J.A. Volney, J.R. Spence, and E.M. Lefebure (eds)

IX. LECTURES, SPEECHES, AND POSTERS PRESENTED AT SCIENTIFIC CONFERENCES/MEETINGS (Total = 496 and 108 Invited; An asterisk [*] denotes the author is a Graduate Student and a double asterisk [] denotes the authors is an Undergraduate Student)**

International: Total = 34 (23 invited)

1. Eckhardt, L.G. 2018. Pine decline in the southeast: An overview of research at the forest health dynamics laboratory. University of Alberta, Edmonton, Canada. **(Invited)**
- 2.

3. Eckhardt, L.G. 2018. Native pathogens affecting *Pinus* species in the southeastern United States. CTHB Meeting, Forest and Agricultural Biotechnology Institute. University of Pretoria, Pretoria, South Africa. **(Invited)**
4. Wahl*, A.C., Nadel, R.L., Slippers, B. and Eckhardt, L.G. 2017. The effect of *Amylostereum* spp. on forest health in Alabama. International Union of Forest Research Organizations (IUFRO) 125th Anniversary Congress, Freiburg, Germany. (Invited)
5. Wahl*, A.C., Nadel, R.L., Slippers, B. and Eckhardt, L.G. 2017. A survey for *Sirex noctilio* and native woodwasps in Alabama. International Union of Forest Research Organizations (IUFRO) 125th Anniversary Congress, Freiburg, Germany **(Invited)** (Poster)
6. Devkota*, P. and Eckhardt, L.G. 2017. How do different mature *Pinus taeda* families respond to root-infecting fungi? International Union of Forest Research Organizations (IUFRO) 125th Anniversary Congress, Freiburg, Germany (Poster)
7. Duwadi*, S., Nadel, R., Feng, Y., and Eckhardt, L.G. 2017. One-year study of soil microbial biomass and soil moisture in loblolly pine (*Pinus taeda*) stand. International Union of Forest Research Organizations (IUFRO) 125th Anniversary Congress, Freiburg, Germany (Poster)
8. Eckhardt, L.G. 2017. An overview of forest health research at the forest health cooperative and forest health dynamics laboratory at Auburn University. Universidad Pontificia Bolivariana. Medellin, Columbia **(Invited)**
9. Eckhardt, L.G. 2017. Pine root disease, root-feeding bark beetles and ophiostomatoid fungi in the United States and their impact on forest health. Departments of Forestry and Entomology, Universidad Nacional – Patología, Medellin, Columbia **(Invited)**
10. Acquah* G. E., Via B.K., Eckhardt L.G., Fasina O. O. and Billor N. 2015. Application of near infrared spectroscopy in the screening of disease tolerant *Pinus taeda* (Loblolly Pine) families for chemistry, strength and bioenergy. 19th International Nondestructive Testing and Evaluation of Wood Symposium, Rio de Janeiro, Brazil **(Invited)**
11. Acquah* G. E., Via B.K., Fasina O.O. and Eckhardt L.G. 2015. Non-destructive prediction of the chemical and thermal reactivity properties of forest biomass using vibrational spectroscopy and thermogravimetric analysis. 19th International Nondestructive Testing and Evaluation of Wood Symposium, Rio de Janeiro, Brazil (Poster)
12. Via, B.K. and Eckhardt, L.G. 2014. A new modelling strategy for *Pinus taeda* genetic families: connection of chemistry to products and disease. The Institute for Commercial

Forestry Research & The Department of Agriculture, Forestry & Fisheries 6th Forest Science Symposium, Pietermaritzburg, South Africa (**Invited**)

13. Piculell, B.J., Hoeksema, J.D., and Eckhardt, L.G. 2013. The good and the bad: trade-offs between disease resistance and symbionts in loblolly pine. 32nd New Phytologist Symposium on Plant interactions with other organisms: molecules, ecology and evolution. Buenos Aires, Argentina (**Invited**)
14. Piculell*, B.J., Hoeksema, J.D., and Eckhardt, L.G. 2013. The good and the bad: trade-offs between disease resistance and symbionts in loblolly pine. 32nd New Phytologist Symposium on Plant interactions with other organisms: molecules, ecology and evolution. Buenos Aires, Argentina (*Poster*)
15. Chappelka, A.H., Eckhardt, L.G., and Chieppa, J. 2013. Interaction of future climate change scenarios of elevated tropospheric ozone and decreasing rainfall amounts with loblolly pine decline. Western Insect Forest Disease Work Conference, Alberta Canada (**Invited**)
16. Eckhardt, L.G. 2013. Latest developments in pine decline research, disease development and management. International Congress of Plant Pathology. Beijing, China (**Invited**)
17. Eckhardt, L.G., Bauman, T.A., Menard, R.D., de Beer, Z.W., Wingfield, M.J., and Sediles, A. 2013. Evaluation of mortality in natural stands of *Pinus oocarpa* and *P. caribaeae* in Nicaragua. The Third IUFRO Latin American Congress (IUFROLAT) jointly by The International Union of Forest Research Organizations (IUFRO) and the Tropical Agricultural Research and Higher Education Center (CATIE) and partnered by the Ibero American Model Forest Network (RIABM). San Jose, Costa Rica (**Invited**)
18. Eckhardt, L.G. 2012. Pine root disease, root-feeding bark beetles and ophiostomatoid fungi in the United States and their impact on forest health. Institute for Commercial Forestry Research. Pietermaritzburg, South Africa (**Invited**)
19. Eckhardt, L.G. and Matusick, G. 2011. Variation in pathogenicity and virulence of four ophiostomatoid fungi and *Heterobasidion irregulare* in healthy loblolly and slash pine roots. XIII Conference on Root and Butt Rot of Forest Trees, Firenze, Italy (**Invited**)
20. Menard, R.D., Ward, J.D., Sediles, A., and Eckhardt, L.G. 2011. Evaluation of mortality in natural stands of *Pinus oocarpa* in Nicaragua. Annual Meeting of the Tree Protection Co-Operative Programme (TPCP) and the DST/NRF Centre of Excellence in Tree Health Biotechnology. Pretoria, South Africa (**Invited**)
21. Brunson*, B.A., Carter, E.A. and Eckhardt, L.G. 2011. Impact of cogongrass on populations of bark beetles associated with pine decline. International Union of Forest Research Organizations (IUFRO) Forest Protection Joint Meeting, Colonia del Sacramento, Uruguay (*Poster*)

22. Zeng*, Y. and Eckhardt, L.G. 2011. Third row thinning effect on root-feeding beetle population dynamics and incidence of ophiostomatoid fungal species in decline-impacted loblolly pine stands. International Union of Forest Research Organizations (IUFRO) Forest Protection Joint Meeting. Colonia del Sacramento, Uruguay (*Poster*)
23. Meyerpeter*, M.B., and Eckhardt, L.G. 2011. Mapping pine decline hazard sites in Alabama and Georgia. International Union of Forest Research Organizations (IUFRO) Forest Protection Joint Meeting, Colonia del Sacramento, Uruguay (*Poster*)
24. Duong*, T.A., de Beer, Z.W., Eckhardt, L.G., Wingfield, B.D., and Wingfield, M.J. 2011. Population diversity of the pine-infecting fungus *Grosmannia alacris*. South African Society of Plant Pathology 47th Congress, Kruger National Park, South Africa
25. Eckhardt, L.G., Menard, R.D., Ward, J.D., and Sediles, A. 2010. Evaluation of mortality in natural stands of *Pinus oocarpa* and *Pinus caribaea* in Nicaragua. Annual Meeting of the UNA Department of Protection of Agriculture and Forests, Instituto Nacional Forestal (INAFOR), and Ministry of Natural Resources (MARENA), Universidad Nacional Agraria (UNA), Managua, Nicaragua (**Invited**)
26. Matusick*, G. and Eckhardt, L.G. 2010. Pine decline and forest management on federal lands in the southeastern United States. School of Biological Sciences and Biotechnology, CPSM Seminar Series, Murdoch University, Western Australia (**Invited**)
27. Eckhardt, L.G., Menard, R.D., Zanzot, J., and Matusick, G. 2009. Pathogenic fungi and associated vectors in southern pine root decline. Forest and Agricultural Biotechnology Institute. University of Pretoria, Pretoria, South Africa (**Invited**)
28. Eckhardt, L.G. 2008. Forest Biosecurity. Annual Meeting of the UNA Department of Protection of Agriculture and Forests, Instituto Nacional Forestal (INAFOR), and Ministry of Natural Resources (MARENA), Universidad Nacional Agraria (UNA), Managua, Nicaragua (**Invited**)
29. Eckhardt, L.G. and Menard, R.D. 2008. Pine decline and the involvement of bark beetles and ophiostomatoid fungi. Universidad Nacional Agraria (UNA), Managua, Nicaragua (**Invited**)
30. Eckhardt, L.G. 2008. *Pinus* species diseases and insect pests and their possible economic impacts. Forest Health Initiative Meeting. Universidad Nacional Agraria (UNA), Managua, Nicaragua (**Invited**)
31. Eckhardt, L.G. 2008. Forest pathology and its future implications. Department of Plant Protection and Entomology, Universidad Nacional Agraria (UNA), Managua, Nicaragua (**Invited**)

32. Eckhardt, L.G., Menard, R.D., Zanzot, J., and Matusick, G. 2007. Southern pine root decline. Annual Meeting of the Tree Protection Co-Operative Programme (TPCP) and the DST/NRF Centre of Excellence in Tree Health Biotechnology. Pretoria, South Africa **(Invited)**
33. Eckhardt, L.G. and Menard, R.D. 2006. Pine decline in the southeastern United States and the involvement of bark beetles and Ophiostomatoid fungi. The Ophiostomatoid Fungi: Expanding Frontiers Conference, Brisbane, Australia **(Invited)**
34. Eckhardt, L.G., Jones, J.P., Hess, N.J., Carter, E.A., and Steinman, J. 2001. *Leptographium* species a component of loblolly pine decline. Root and Butt Rots 10th International Conference, Quebec, Canada
35. Hess, N.J., Otrosina, W.J., Carter, E.A., Steinman, J., Jones, J.P., Eckhardt, L.G., Weber, A., and Walkinshaw, C. 2001. Assessment of loblolly pine decline in central Alabama. Root and Butt Rots 10th International Conference, Quebec, Canada

National: Total = 87 (3 invited)

1. Mensah*, J., Nadel, R.L., Matusick, G., Sayer, M.A.S., Carter, E.A., and Eckhardt, L.G. 2018. Quantifying the impact of pine decline in the southeastern United States. Center for Advanced Forestry Systems Industrial Advisory Board Meeting, Burlington, VT
2. Mensah*, J.K., Sword Sayer, M. A., Nadel, R. L., Matusick, G., Fan, Z., and Eckhardt, L.G. 2018. Physiological response of naturally regenerated *Pinus taeda* L. saplings to four levels of stem inoculation with *Leptographium terebrantis*. International Congress of Plant Pathology, Boston, MA (*Poster*)
3. Essien*, C., Via, B.K., Wang, X., Gallagher, T., McDonald, T., and Eckhardt, L.G. 2017. Multivariate modeling of acousto-mechanical response of fourteen-year-old suppressed loblolly pine (*Pinus taeda*) to variation in wood chemistry, microfibril angle, and density. International Nondestructive Testing and Evaluation Symposium. Madison, WI
4. Essien*, C., Via, B.K., and Eckhardt, L.G. 2017. Multivariate modeling of acousto-mechanical response of fourteen-year-old loblolly pine (*Pinus taeda*) to variation in wood chemistry, microfibril angle and density. 71st FPS International Convention Program, Starkville, MS
5. Mensah*, J., Nadel, R.L., Matusick, G., Sayer, M.A.S., Carter, E.A., and Eckhardt, L.G. 2017. Quantifying the impact of pine decline in the southeastern United States. Center for Advanced Forestry Systems Industrial Advisory Board Meeting, Portland, OR

6. Duwadi*, S., Carter, E.A., Nadel, R., Feng, Y., and Eckhardt, L.G. 2017. Effect of soil moisture on soil microbial biomass in loblolly pine (*Pinus taeda*) stand. Soil Science Society of America. Tampa, FL (Poster)
7. Essien*, C, Via, B.K., Cheng, G., Gallagher, T., McDonald, T. and Eckhardt L. 2017. Applying discriminate analysis and acoustic tool to assign loblolly pine families into susceptibility classes. International Nondestructive Testing and Evaluation Symposium. Madison, WI (Poster)
8. Duwadi*, S., Nadel, R., Feng, Y., and Eckhardt, L.G. 2017. Study of soil microbial biomass and soil moisture in loblolly pine (*Pinus teada*) stand. Sigma Xi Student Research Showcase (Virtual)
9. Mensah*, J.K., Sword Sayer, M. A., Nadel, R. L., Matusick, G., Fan, Z., and Eckhardt, L.G. 2017. Impact of *Leptographium terebrantis* on loblolly pine trees in naturally regenerated forest. Sigma Xi Student Research Showcase (Virtual)
10. Devkota*, P. and Eckhardt, L.G. 2017. Loblolly pine and vascular-inhabiting fungi. Sigma Xi Student Research Showcase (Virtual)
11. Wahl*, A.C., Nadel, R.L., Slippers, B. and Eckhardt, L.G. 2017. *Sirex* woodwasps and their symbionts in Alabama forests. Sigma Xi Student Research Showcase (Virtual)
12. Ahl*, J.B., Eckhardt, L.G. and Beach, J.M. 2017. Can you identify spores of fungal species on coleopteran with hyperspectral interferometry? Sigma Xi Student Research Showcase (Virtual)
13. Wahl*, A.C. Nadel, R.L., Slippers, B. and Eckhardt, L.G 2017. *Sirex noctilio* in the southern pine forest. USDA Forum on Invasive Species, Annapolis, MD (Poster)
14. Wahl*, A.C., Nadel R.L., Slippers B., Eckhardt, L.G. 2016. Effect of growth rate on *Amylostereum* spp. Fungus by Terpenes. Sigma Xi Annual Meeting and Student Research Conference, Atlanta, GA (Poster)
15. Devkota*, P., and Eckhardt, L.G. 2016. Variation in tolerance of *Pinus taeda* families to ophiostomatoid fungi *Grosmannia huntii* and *Leptographium terebrantis*. Sigma Xi Annual Meeting and Student Research Conference, Atlanta, GA (Poster)
16. Devkota*, P., and Eckhardt, L.G. 2016. Susceptibility of various mature loblolly pine (*Pinus Taeda* L.) families to root infecting fungi. Society of American Foresters Annual Convention, Madison, WI (Poster)

17. Devkota*, P., and Eckhardt, L.G. 2016. Virulence of ophiostomatoid fungi on loblolly pine families under drought stress. Society of American Foresters Annual Convention, Madison, WI (*Poster*)
18. Nadel, R.L., Matusick, G., Sayer, M.A.S., Carter, E.A., and Eckhardt, L.G. 2016. Quantifying the impact of pine decline in the southeastern United States. Center for Advanced Forestry Systems Industrial Advisory Board Meeting, Pensacola, FL
19. Clay, N.A., Little, N., Eckhardt, L.G. and Riggins, J.J. 2015. Widespread and complex interactions among bark beetle vectored blue stain (ophiostomatoid) fungi and subterranean termites. Ecological Society of America Annual Meeting, Baltimore, MD
20. Piculell*, B.J. Nelson, C.D., Roberds, J., Eckhardt, L.G., and Hoeksema, J.D. 2015. Examining the evolutionary interactions of loblolly pine with both beneficial and pathogenic fungi. Ecological Society of America Annual Meeting, Baltimore, MD
21. Trautwig*, A., Eckhardt, L., Hoeksema, J., and Carter, E. 2015. Cogongrass (*Imperata cylindrica*) reduces colonization of mycorrhizal fungi on loblolly pine (*Pinus taeda*) in commercial stands. Ecological Society of America Annual Meeting, Baltimore, MD
22. Via, B.K. and Eckhardt, L.G. 2015. Near infrared reflectance (NIR) spectroscopy: dialing stem chemistry for optimal root disease resistance and forest products. Center for Advanced Forestry Systems Industrial Advisory Board Meeting, Asheville, NC
23. Nadel, R.L., Matusick, G., and Eckhardt, L.G. 2015. Quantifying the impact of pine decline in the southeastern United States. Center for Advanced Forestry Systems Industrial Advisory Board Meeting, Asheville, NC
24. Acquah*, G. E., Via B.K., Eckhardt L.G., Fasina O. O. and Billor N. 2015. Rapid assessment of disease tolerant *Pinus taeda* families for strength, chemical and bioenergy applications using near infrared spectroscopy. Sigma Xi's Annual Meeting and Student Research Conference, Kansas City, MO (*Poster*)
25. Acquah*, G.E., Via B.K., Eckhardt L.G., Fasina O. and Billor N. 2015. Application of NIRS in the screening of disease tolerant *Pinus taeda* families for chemistry, strength and bioenergy. Sigma Xi's Student Research Conference, Kansas City, MO (*Poster*)
26. Nadel, R.L., Eckhardt, L.G., and Enebak, S.A. 2015. A rapid PCR screening test for the presence of *Fusarium circinatum* on pine seed and planting material. Society of American Foresters National Convention, Baton Rouge, LA (*Poster*)

27. Cole*, A.B., and Eckhardt, L.G. 2015. Effect of growth rate on *Amylostereum* spp. fungus by terpenes. Society of American Foresters National Convention, Baton Rouge, LA (Poster)
28. Essien*, C., Via, B.K., Eckhardt, L., Cheng, Q., Gallagher, T., McDonald, T., and Wang, X. 2015. Acouto-mechanical response of fourteen-year-old suppressed loblolly pine (*Pinus taeda*) to variation in cellulose, hemicelluloses, lignin, microfibril angel and density. Society of American Foresters National Convention, Baton Rouge, LA (Poster)
29. Cole*, A.B., Eckhardt, L.G., Liebhold, A., Slippers, B. 2015. Prevalence of *Sirex noctilio* F. in Alabama Forests. Society of American Foresters National Convention, Baton Rouge, LA (Poster)
30. Acquah*, G.E., Via B.K., Eckhardt L.G., Fasina O. and Billor N. 2015. Application of NIRS in the screening of disease tolerant *Pinus taeda* families for chemistry, strength and bioenergy. Society of American Foresters National Convention, Baton Rouge, LA (Poster)
31. Trautwig*, A., Eckhardt, L., Loewenstein, N.J., Hoeksema, J., and Carter, E. 2015. *Imperata cylindrica* reduces colonization by mycorrhizal fungi on *Pinus taeda* in commercial stands. Society of American Foresters National Convention, Baton Rouge, LA (Poster)
32. Devkota*, P., Eckhardt, L., Liu, K. and Kloepper, J. 2015. Biological control of blue stain fungi by plant root growth promoting rhizobacteria (PGPR). Society of American Foresters National Convention, Baton Rouge, LA (Poster)
33. Devkota*, P., Eckhardt, L., and Singh, A. 2015. Relative susceptibility of several loblolly pine (*Pinus taeda* L.) families to ophiostomatoid fungi. Society of American Foresters National Convention, Baton Rouge, LA (Poster)
34. Devkota*, P. and Eckhardt, L. 2015. Susceptibility of various mature loblolly pine (*Pinus taeda* L.) families to root infecting fungi. Society of American Foresters National Convention, Baton Rouge, LA (Poster)
35. Eckhardt, L.G., Ditchkoff, S.S., Duong, T.A., De Beer, Z.W., and Wingfield, M.J. 2014. Two new ophiostomatoid species isolated from soil on snouts of feral hogs damaging pine roots in Georgia, USA. International Wild Pig Conference Science & Management, Montgomery, AL, USA (Invited)
36. Via, B.K. and Eckhardt, L.G. 2014. Near infrared reflectance (NIR) spectroscopy: dialing stem chemistry for optimal root disease resistance and forest products. XXIV

International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT

37. Acquah*, G., Via, B.K., and Eckhardt, L.G. 2014. Nondestructive estimation of the chemical and thermal properties of forest biomass using vibrational spectroscopy and thermogravimetric analysis. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT
38. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2014. Interaction of altered tropospheric ozone concentrations with loblolly pine decline. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT
39. Bauman*, T.A., Eckhardt, L.G., Menard, R.D., de Beer, Z.W., Sediles, A., and Wingfield, M.J. 2014. Determining fungal communities associated with the bark beetle *Dendroctonus approximatus* in Mexico and Central America. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT
40. Trautwig*, A.N., Eckhardt, L.G., and Hoeksema, J.D. 2014. Mycorrhizal Communities in *Imperata cylindrical* Invaded and Non-Invaded Commercial *Pinus taeda* Stands. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT (Poster)
41. Duong*, T.A., de Beer, Z.W., Eckhardt, L.G., Wingfield, B.D., and Wingfield, M.J. 2014. Taxonomy and population biology of *Grosmannia huntii sensu lato*. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT (Poster)
42. Eckhardt, L.G., *Singh, A., Nadel, R. L., and Bauman, T.A. 2014. Variation in resistance of *Pinus taeda* families against root infecting fungi. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT (Poster)
43. Eckhardt, L.G., Ditchkoff, S.S., Duong, T., De Beer, Z.W., and Wingfield, M.J. 2014. Two new ophiostomatoid species isolated from soil on snouts of feral hogs damaging pine roots in Georgia, USA. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT (Poster)

44. Eckhardt, L.G., Zanzot, J.W., *Zeng, Y., *Kidd, K.R., Bauman, T.A., and Nadel, R. L., 2014. *Hylastes* population dynamics and forest health evaluation in association with thinning and fertilization. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT (*Poster*)
45. Trautwig*, A.N., *Brunson, B.A., Carter, E.A. and Eckhardt, L.G. 2014. Assessing the impacts of cogongrass (*Imperata cylindrica* (L.) Beauv) on root-feeding bark beetle populations associated with southern pine decline. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT (*Poster*)
46. Piculell*, B.J., Hoeksema, J.D., and Eckhardt, L.G. 2014. The good and the bad: trade-offs between disease resistance and symbionts in loblolly pine. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT (*Poster*)
47. Bauman*, T.A., Eckhardt, L.G., Menard, R.D., Ward, J.D., and Sediles, A. 2014. Evaluation of mortality in natural stands of *Pinus oocarpa* and *Pinus caribaeae* in Nicaragua. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT (*Poster*)
48. Bauman*, T.A., Matusick, G., Menard, R.D., and Eckhardt, L.G. 2014. *Pinus taeda* roots represent a suitable host substrate for developing *Hylastes* spp. of bark beetles in Alabama, USA. XXIV International Union of Forest Research Organizations (IUFRO) World Congress on “Sustaining Forests, Sustaining People: The Role of Research”, Salt Lake City, UT (*Poster*)
49. Eckhardt, L.G., Via, B.K., and Enebak, S.A. 2014. Selection of genetically superior trees for disease resistance as a function of wood chemistry. Center for Advanced Forestry Systems Industrial Advisory Board Meeting, The Coeur d'Alene Resort, ID
50. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2014. Interaction of altered tropospheric ozone concentrations with loblolly pine decline. Center for Advanced Forestry Systems Industrial Advisory Board Meeting, The Coeur d'Alene Resort, ID
51. Enebak, S.A. and Eckhardt, L.G. 2013. An overview of forest health research at the Forest Health Dynamics Laboratory at Auburn University. Center for Advanced Forestry Systems Industrial Advisory Board Meeting, St. Simons Island, GA (**Invited**)
52. Chieppa*, J., Chappelka, A. and Eckhardt, L. 2013. Interactions of future climate change scenarios of elevated tropospheric ozone and decreased rainfall amounts with loblolly

pine decline. Joint American Phytopathological Society and Mycological Society of America Meeting, Austin, TX (*Poster*)

53. Kelvin**, S., Via, B.K., Jiang, W., and Eckhardt, L.G. 2012. Rapid characterization and determination of wood chemistry and crystallinity index of loblolly pine. *Frontiers in Biorefining 2012 Conference*, St. Simons Island, GA (*Poster*)
54. Brunson*, B.A. and Eckhardt, L.G. 2011. Impacts of cogongrass on populations of bark beetles associated with pine decline. *North American Forest Insect Work Conference*, Portland, OR (*Poster*)
55. Martin*, S., Held, D., Enloe, S., Loewenstein, N., and Eckhardt, L. 2010. Impact of cogongrass management strategies on arthropod fauna in longleaf pine. *Ecological Society of America 58th Annual Meeting*, San Diego, CA
56. Zanzot*, J.W. and Eckhardt, L.G. 2009. Seasonal changes in abundance of root-feeding curculionids and ophiostomatoid fungi at Fort Benning, Georgia. *Forest Insects and Environmental Change: International Union of Forest Research Organizations (IUFRO) Division 7 – Forest Health*, Jackson Hole, WY
57. Zanzot*, J.W. and Eckhardt, L.G. 2009. Assessment of longleaf pine on high-risk and low-risk loblolly pine decline sites at Fort Benning, Georgia. *Expanding the Boundaries: 2009 American Pathological Society Annual Meeting*, Portland, OR
58. Eckhardt, L.G., Menard, R.D., Matusick, G., and Zanzot, J.W. 2009. Pine decline: the involvement of bark beetles and ophiostomatoid fungi. *Society of American Foresters National Convention in New Trends in Management of Forest Insect and Diseases in the Southeast*, Orlando, FL (**Invited**)
59. Sword-Sayer, M.A., Eckhardt, L.G., and Carter, E.A. 2009. Nutrition challenges of longleaf pine in the Southeast. *Society of American Foresters National Convention*, Orlando, FL (*Poster*)
60. Eckhardt, L.G., Menard, R.D., and Gray, E. 2009. Effects of oleoresins and terpenoids on fungi associated with pine decline. *Society of American Foresters National Convention*, Orlando, FL (*Poster*)
61. Walker**, D., Matusick, G., Hossain, M., and Eckhardt, L. 2009. Host Response to several root pathogenic fungi. *Society of American Foresters National Convention*, Orlando, FL (*Poster*)

62. Menard, R.D., Eckhardt, L.G., Matusick, G., and Hess, N.J. 2009. Monitoring loblolly pine decline in the southern region. Society of American Foresters National Convention, Orlando, FL (*Poster*)
63. Thompson*, J.A., Menard, R.D., and Eckhardt, L.G. 2009. Root feeding insect populations in relation to multiple silvicultural practices. Society of American Foresters National Convention, Orlando, FL (*Poster*)
64. Menard, R.D. and Eckhardt, L.G. 2009. Root-feeding bark beetles: what constitutes an epizootic event? Society of American Foresters National Convention, Orlando, FL (*Poster*)
65. Zanzot*, J.W. and Eckhardt, L.G. 2009. Longleaf pine as an alternative species choice on high-risk loblolly pine decline sites. Society of American Foresters National Convention, Orlando, FL (*Poster*)
66. Zelko*, J.C., Menard, R.D., Matusick, G., and Eckhardt, L.G. 2009. The effects of Nicaraguan ophiostomatoid fungi on southern pines. Society of American Foresters National Convention, Orlando, FL (*Poster*)
67. Matusick*, G. and Eckhardt, L.G. 2009. Pathogenicity and virulence of *Leptographium* species to immature southern pines. Society of American Foresters National Convention, Orlando, FL (*Poster*)
68. Jackson*, D.P., Enebak, S.A., South, D.B., and Eckhardt, L.G. 2009. *Pythium* species affect southern pine seedling survival after cold storage. Society of American Foresters National Convention, Orlando, FL (*Poster*)
69. Sword-Sayer, M.A. and Eckhardt, L.G. 2008. Relationship between pine decline symptomology and mineral nutrition at Fort Benning Military Reserve. 93rd Ecological Society of America Annual Meeting, Milwaukee, WI (*Poster*)
70. Imm, D.W., Eckhardt, L.G., and Sword-Sayer, M.A. 2008. What is pine decline in the southeastern United States and how widespread is it? 93rd Ecological Society of America Annual Meeting, Milwaukee, WI (*Poster*)
71. Zanzot*, J.W., de Beer, Z.W., Eckhardt, L.G., and Wingfield, M.J. 2007. An RFLP based test to distinguish *Leptographium serpens* and *L. huntii*. Mycological Society of America Conference, Baton Rouge, LA
72. Zanzot*, J.W., de Beer, Z.W., Eckhardt, L.G., and Wingfield, M.J. 2007. A new *Ophiostoma* species in the *O. pluriannulatum* complex from loblolly pine roots. Mycological Society of America Conference, Baton Rouge, LA (*Poster*)

73. Menard, R.D., Eckhardt, L.G., Matusick, G., and Hess, N.J. 2007. Monitoring loblolly pine decline in the western zone of the Southern region. Society of American Foresters National Convention. Portland, OR (*Poster*)
74. Zanzot*, J.W., Eckhardt, L.G., and Menard, R.D. 2007. Seasonal variation in capture of root-feeding insects in longleaf pine stands at Fort Benning Georgia. Society of American Foresters National Convention, Portland, OR (*Poster*)
75. Matusick*, G., Eckhardt, L.G., and Menard, R.D. 2007. The pathogenicity of four *Leptographium* species to mature loblolly and longleaf pine roots. Society of American Foresters National Convention, Portland, OR (*Poster*)
76. Addington, R.N., Harrison, W.C., Eckhardt, L.G., Menard, R.D., and Doresky, J.K. 2006. Monitoring of upland pine tree vigor and mortality on Fort Benning, GA/AL. Forest Health Monitoring Work Group Meeting, Charleston, SC (*Poster*)
77. Eckhardt, L.G., Menard, R.D. and Hess, N.J. 2005. *Leptographium* species and their vectors as components of loblolly pine decline: a growing concern in the southeastern United States. American Phytopathological Society Annual Meeting, Austin, TX
78. Hess, N.J., Eckhardt, L.G., Menard, R.D., and Jones, J.P. 2005. Monitoring loblolly pine decline in the western zone of the southern region. American Phytopathological Society Annual Meeting, Austin, TX (*Poster*)
79. Menard, R.D. and Eckhardt, L.G. 2005. Assessment of loblolly pine decline risk mapping system on Fort Benning military installation. American Phytopathological Society Annual Meeting, Austin, TX (*Poster*)
80. Eckhardt, L.G. and Menard, R.D. 2005. Validating a methodology for evaluation southern pine beetle hazard applying southern pine decline hazard at the landscape level. Society of American Foresters National Convention, Fort Worth, TX (*Poster*)
81. Eckhardt, L.G. and Menard, R.D. 2005. Actively managing real & potential loblolly pine decline stands targeted for longleaf restoration within RCW habitat. Society of American Foresters National Convention, Fort Worth, TX (*Poster*)
82. Eckhardt, L.G., Menard, R.D. Jones, J.P., and Hess, N.J. 2005. *Leptographium* species and their vectors as components of loblolly pine decline: a growing concern in the southeastern United States. Society of American Foresters National Convention, Fort Worth, TX

83. Eckhardt, L.G., Jones, J.P., Hess, N.J., Menard, R.D., and Carter, E.A., 2003. Loblolly pine decline, *Leptographium* spp. and root -feeding insects. Forest Health Monitoring Work Group Meeting, Monterey, CA (*Poster*)
84. Eckhardt, L.G., Jones, J.P., Hess, N.J., and Carter, E. 2002. Loblolly pine decline, *Leptographium* spp. and root -feeding insects. American Phytopathological Society Annual Meeting, Milwaukee, WI
85. Eckhardt, L.G., Jones, J.P., Hess, N.J., and Carter, E.A. 2002. *Leptographium* species as components of loblolly pine decline. Forest Health Monitoring Work Group Meeting, New Orleans, LA (*Poster*)
86. Eckhardt, L.G., Jones, J.P., Hess, N.J., Carter, E.A., and Steinman, J. 2001. *Leptographium* species and their vectors as components of loblolly pine decline. American Phytopathological Society Annual Meeting, Salt Lake City, UT (*Poster*)
87. Eckhardt, L.G., Goregaoker, S.P., and Culver, J.N. 1999. Regions of the tobacco mosaic tobamovirus replicase gene that mediate resistance.” American Society of Virology Conference, Amherst, MA (*Poster*)

Regional: Total = 375 (72 invited)

1. Devkota, P., and Eckhardt, L.G. 2018. The response of loblolly pine families to root-feeding bark beetle vectored fungi. Southern Forest Nursery Association Meeting, Pensacola, FL (**Invited**)
2. Mensah*, J.K., Sword Sayer, M. A., Nadel, R. L, Matusick, G., Fan, Z., and Lori G. Eckhardt, L.G. 2018. Pathogenicity of *Leptographium terebrantis* to saplings of *Pinus taeda* L.: Efficacy of the toothpick inoculation approach. American Phytopathological Society, 95th Southern Division Meeting, Fayetteville, AR
3. Mensah*, J.K. and Eckhardt, L.G. 2018. Susceptibility and tolerance of loblolly pine to *Leptographium terebrantis*: Student Research Symposium, Auburn University, Auburn, AL
4. Duwadi*, S., Nadel, R., Carter, E.A., Feng, Y., Eckhardt, L.G. 2018. The response of soil microbial biomass to inoculation due to plant pathogenic fungus, *Leptographium terebrantis* in loblolly pine stand. This is Research: Student Symposium, Auburn University, Auburn, AL
5. Ahl*, J.B., Nadel, R. and L.G. Eckhardt, L.G. 2018. What is insect diversity like in a mature loblolly pine stand? This is Research: Student Symposium, Auburn University, Auburn, AL

6. Mensah*, J.K., Nadel, R. L, Matusick, G., Fan, Z., Sword Sayer, M. A., and Lori G. Eckhardt, L.G. 2018. Growth and yield response of *Pinus taeda* to *Leptographium terebrantis*. Forest Health Cooperative Advisory Meeting, Auburn, AL
7. Ahl*, J.B., Nadel, R. and L.G. Eckhardt, L.G. 2018. What is insect diversity like in a mature loblolly pine stand? Forest Health Cooperative Advisory Meeting, Auburn, AL
8. Duwadi*, S., Nadel, R., Carter, E.A., Feng, Y., and Eckhardt, L.G. 2018. Study of soil microbial biomass and soil moisture in a loblolly pine stand. Forest Health Cooperative Advisory Meeting, Auburn, AL
9. Ahl*, J.B., Eckhardt, L.G. and Beach, J.M. 2018. Can you identify spores of fungal species on coleopteran with hyperspectral interferometry? Forest Health Cooperative Advisory Meeting, Auburn, AL
10. Mendez, L. and Eckhardt, L.G. 2018. Emerging forest pests and sudden oak death review. Forest Health Cooperative Advisory Meeting, Auburn, AL
11. Mensah*, J.K., Nadel, R. L, Matusick, G., Fan, Z., Sword Sayer, M. A., and Lori G. Eckhardt, L.G. 2018. Chemical defense reaction of *Pinus taeda* to *Leptographium terebrantis* invasion. Forest Health Cooperative Advisory Meeting, Auburn, AL
12. Duwadi*, S., Nadel, R., Sword Sayer, M. A., Carter, E.A., and Eckhardt, L.G. 2018. Fine root dynamics in response to inoculation of *Leptographium terebrantis* in a loblolly pine stand. Forest Health Cooperative Advisory Meeting, Auburn, AL
13. Mendez, L. and Eckhardt, L.G. 2018. Forest health dynamics laboratory update. Forest Health Cooperative Advisory Meeting, Auburn, AL
14. Piculell, B.J., Eckhardt, L.G., and Hoeksema, J.D. 2018. Genetically determined fungal pathogen tolerance and soil variation influences ectomycorrhizal traits of loblolly pine. Forest Health Cooperative Advisory Meeting, Auburn, AL
15. Ahl*, J.B., Eckhardt, L.G. and Beach, J.M. 2018. Can you identify spores of fungal species on coleopteran with hyperspectral interferometry? Southeastern Society of American Foresters, Pine Mountain, GA (Poster)
16. Duwadi*, S., Nadel, R., Carter, E.A., Feng, Y., Eckhardt, L.G. 2018. Response of soil microbial biomass to soil moisture content in loblolly pine (*Pinus taeda*) stand. Southeastern Society of American Foresters, Pine Mountain, GA (Poster)
17. Mensah*, J.K., Sword Sayer, M. A., Nadel, R. L, Matusick, G., Fan, Z., and Lori G. Eckhardt, L.G. 2018. Pathogenicity of *Leptographium terrebrantis* to saplings of *Pinus*

taeda L.: Efficacy of the toothpick inoculation approach. Southeastern Society of American Foresters, Pine Mountain, GA (*Poster*)

18. Eckhardt, L.G. 2017. Forest insect and diseases. Forestry Invitational Training Workshop. Auburn, AL (**Invited**)
19. Eckhardt, L.G. 2017. Complexity of recent pine tree losses in southern forests. Chambers County Forestry Planning Committee Meeting, Lafayette, AL (**Invited**)
20. Eckhardt, L.G. 2017. Bark beetles 101. Alabama Forestry Commission Workshop: Are your trees dying? Landowners Meeting, Marengo County, Linden, AL (**Invited**)
21. Mensah*, J., Nadel, R.L., Matusick, G., Sword, M.A. and Eckhardt, L.G. 2017. Physiological response of loblolly pine to *Leptographium terebrantis* in a naturally regenerated stand. Forest Health Cooperative Advisory Meeting, Auburn, AL
22. Mensah*, J., Nadel, R.L., Matusick, G., Sword, M.A. and Eckhardt, L.G. 2017. Pathogenicity of *Leptographium terebrantis* to loblolly pine: effect of inoculum density. Forest Health Cooperative Advisory Meeting, Auburn, AL
23. Wahl*, A.C., Nadel, R.L., Slippers, B. and Eckhardt, L.G. 2017. The effect of *Sirex* spp. woodwasps and their fungal associates on Alabama forest health. Forest Health Cooperative Annual Meeting, Auburn, AL
24. Devkota*, P. and Eckhardt, L.G. 2017. The role of *Leptographium terebrantis* and *Grosmannia huntii* invasion in driving drought-related decline in loblolly pine. Forest Health Cooperative Annual Meeting, Auburn, AL
25. Devkota*, P. and Eckhardt, L.G. 2017. Variation in tolerance of several loblolly pine families to *Leptographium terebrantis* and *Grosmannia huntii*. Forest Health Cooperative Annual Meeting, Auburn, AL
26. Devkota*, P. and Eckhardt, L.G. 2017. Intra-species variation in response of mature loblolly pine to root-infecting ophiostomatoid fungi. Forest Health Cooperative Annual Meeting, Auburn, AL
27. Devkota*, P. and Eckhardt, L.G. 2017. Driving towards biocontrol of ophiostomatoid fungi by plant growth-promoting rhizobacteria. Forest Health Cooperative Annual Meeting, Auburn, AL
28. Essien*, C., Via, B.K. and Eckhardt, L.G. 2017. Screening elite loblolly pine families for structural integrity with near infrared-based chemometric models and acoustics. Forest Health Cooperative Annual Meeting, Auburn, AL

29. Wahl*, A.C., Nadel, R.L., Slippers, B. and Eckhardt, L.G. 2017. A survey for *Sirex noctilio* and native woodwasps in Alabama. Forest Health Cooperative Annual Meeting, Auburn, AL (Poster)
30. Duwadi*, S., Nadel, R., Feng, Y., and Eckhardt, L.G. 2017. Study of soil microbial biomass and soil moisture in loblolly pine (*Pinus taeda*) stand. Forest Health Cooperative Annual Meeting, Auburn, AL (Poster)
31. Essien*, C., Via, B.K., Gallagher, T., McDonald, T., and Eckhardt, L.G. 2017. Rapid characterization of genetically improved loblolly pine families using acoustic technique. Forest Health Cooperative Annual Meeting, Auburn, AL (Poster)
32. Acquah*, G., Via, B.K., Eckhardt, L.G., Fasina, O.O. and Billor, N. 2017. Near infrared based partial least squares regression models for predicting the strength and basic density of disease tolerant *Pinus taeda* families. Forest Health Cooperative Annual Meeting, Auburn, AL (Poster)
33. Essien*, C., Via, B.K., Gallagher, T., McDonald, T., and Eckhardt, L.G. 2017. Does tree species susceptibility to root feeding fungi affects wood quality? Forest Health Cooperative Annual Meeting, Auburn, AL (Poster)
34. Ahl*, J.B., Eckhardt, L.G. and Beach, J.M. 2017. Can you identify spores of fungal species on coleopteran with hyperspectral interferometry? Forest Health Cooperative Annual Meeting, Auburn, AL (Poster)
35. Acquah* G. E., Via B. K. and Eckhardt L. G. 2017. Screening elite loblolly pine families for structural integrity with near infrared-based chemometric models. Southeastern Society of American Foresters Annual Meeting, Sandestin, FL
36. Wahl*, A.C., Nadel, R.L., Slippers, B. and Eckhardt, L.G. 2017. The effect of *Sirex* species on Alabama forest health. Southeastern Society of American Foresters Annual Meeting, Sandestin, FL
37. Devkota*, P., Singh, A., and Eckhardt, L.G. 2017. Response of different *Pinus taeda* L. families to root-infecting ophiostomatoid fungi. Southeastern Society of American Foresters Annual Meeting, Sandestin, FL (Poster)
38. Devkota*, P., Kloepper, J.W., and Eckhardt, L.G. 2017. Induced systemic resistance of *Pinus taeda* L. to *Leptographium terebrantis* and *Grosmannia huntii* by plant growth-promoting rhizobacteria. Southeastern Society of American Foresters Annual Meeting, Sandestin, FL (Poster)
39. Essien*, C., Via, B., Gallagher, T., McDonald, T., and Eckhardt, L. 2017. Acoustic stiffness characterization of loblolly pine (*Pinus taeda* L.) families used for improved

forest health. Southeastern Society of American Foresters Annual Meeting, Sandestin, FL (Poster)

40. Acquah*, G. E., Via B. K., Fasina O. O., Adhikari S., and Eckhardt L. G. 2017. Rapid assessment of forest biomass for biofuel applications: A comparative study of three analytical tools. Southeastern Society of American Foresters Annual Meeting, Sandestin, FL (Poster)
41. Devkota*, P., and Eckhardt, L.G. 2017. Does pathogenicity of *Leptographium terebrantis* and *Grosmannia huntii* to *Pinus taeda* L. alter under varying soil moisture? Southeastern Society of American Foresters Annual Meeting, Sandestin, FL (Poster)
42. Devkota*, P. and Eckhardt, L.G. 2017. Induced systemic resistance of *Pinus taeda* to *Leptographium terebrantis* and *Grosmannia huntii* by plant growth-promoting rhizobacteria. This is Research: Student Symposium, Auburn, AL
43. Wahl*, A.C., Nadel, R.L., Slippers, B. and Eckhardt, L.G. 2017. Competitiveness of *Amylostereum* spp. fungi against *Leptographium* spp. fungi. This is Research: Student Symposium, Auburn, AL (Poster)
44. Mensah*, J.K., Sword Sayer, M.A., Nadel, R.L., Matusick, G., Fan, Z., and Eckhardt, L.G. 2017. Effect of *Leptographium terebrantis* on tree physiology and growth of loblolly pine. This is Research: Student Symposium, Auburn University, Auburn, AL (Poster)
45. Duwadi*, S., Nadel, R., Feng, Y., and Eckhardt, L.G. 2017. Study of soil microbial biomass and soil moisture in loblolly pine (*Pinus taeda*) stand. This is Research: Student Symposium, Auburn University, Auburn, AL (Poster)
46. Ahl*, J., Beach, J., Nadel, R., Held, D. and L. Eckhardt. April 2017. Insect populations associated with *Leptographium terebrantis*, a fungus that contributes to southern pine decline. This is Research: Student Symposium, Auburn University, Auburn, AL (Poster)
47. Ahl*, J.B., Eckhardt, L.G. and Beach, J.M. 2017. Can you identify spores of fungal species on coleopteran with hyperspectral interferometry? Weaver Lecture Graduate Student Poster Session, Auburn University, Auburn, AL (Poster)
48. Devkota*, P., Nadel R.L., & Eckhardt L.G. 2017. How do different mature *Pinus taeda* L. families respond to root-infecting fungi? Weaver Lecture Graduate Student Poster Session, Auburn University, Auburn, AL (Poster)

49. Wahl*, A.C., Nadel, R.L., Slippers, B. and Eckhardt, L.G. 2017. A survey for *Sirex noctilio* and native woodwasps in Alabama. Weaver Lecture Graduate Student Poster Session, Auburn University, Auburn, AL (*Poster*)
50. Mensah*, J., Duwadi, S., Ahl, J. and Eckhardt, L.G. 2017. Quantifying southern pine decline: the role of *Leptographium terebrantis*. Weaver Lecture Graduate Student Poster Session, Auburn University, Auburn, AL (*Poster*)
51. Wahl*, A.C., Devkota, P. and Eckhardt, L.G. 2017. Foes of the forests in the southern United States. SFWS Open House Poster Session, Auburn, AL (*Poster*)
52. Mensah*, J., Duwadi, S., Ahl, J. and Eckhardt, L.G. 2017. Quantifying southern pine decline: the role of *Leptographium terebrantis*. SFWS Open House Poster Session, Auburn, AL (*Poster*)
53. Ahl*, J.B., Eckhardt, L.G. and Beach, J.M. 2017. Can you identify spores of fungal species on coleopteran with hyperspectral interferometry? Southeastern Branch of the Entomological Society of America, Memphis, TN (*Poster*)
54. Wahl*, A.C., Nadel, R.L., Slippers, B. and Eckhardt, L.G. 2017. The effect of *Sirex* species on Alabama forest health. Southeastern Branch of the Entomological Society of America, Memphis, TN (*Poster*)
55. Devkota*, P., Singh A., & Eckhardt L.G. 2017. Phenotypic screening of loblolly pine families tolerant to pathogenic root-feeding bark beetle vectored fungi. Alabama Natural Resources Council, Outreach Symposium and Landowner Awards Banquet, Tuscaloosa, AL (*Poster*)
56. Devkota*, P., Kloepper J.W., & Eckhardt L.G. 2017. Induction of systemic resistance in *pinus taeda* to root-infecting fungi by plant growth-promoting rhizobacteria. Alabama Natural Resources Council, Outreach Symposium and Landowner Awards Banquet, Tuscaloosa, AL (*Poster*)
57. Devkota*, P., Nadel R.L., & Eckhardt L.G. 2017. How do different mature *Pinus taeda* L. families respond to root-infecting fungi? Alabama Natural Resources Council, Outreach Symposium and Landowner Awards Banquet, Tuscaloosa, AL (*Poster*)
58. Devkota*, P., Enebak S., & Eckhardt L.G. 2017. Virulence of ophiostomatoid fungi to loblolly pine under varying soil moisture levels. Alabama Natural Resources Council, Outreach Symposium and Landowner Awards Banquet 2017, Tuscaloosa, AL (*Poster*)

59. Ahl*, J.B., Eckhardt, L.G. and Beach, J.M. 2017. Can you identify spores of fungal species on coleopteran with hyperspectral interferometry? Alabama Natural Resource Council Outreach Symposium, Tuscaloosa, AL (*Poster*)
60. Wahl*, A.C. Nadel, R.L., Slippers, B. and Eckhardt, L.G 2017. The effect of terpenes emitted by *Pinus* spp. on *Amylostereum areolatum*. Alabama Natural Resource Council Outreach Symposium, Tuscaloosa, AL (*Poster*)
61. Wahl*, A.C., Nadel R.L., Slippers B., Eckhardt, L.G. 2017. *Sirex* woodwasp and their symbionts in Alabama forests. Alabama Natural Resources Council, Tuscaloosa, AL (*Poster*)
62. Wahl*, A.C., Nadel R.L., Slippers B., Eckhardt, L.G. 2017. Competitiveness of *Amylostereum* spp. fungi against *Leptographium* spp. fungi. Alabama Natural Resources Council, Tuscaloosa, AL (*Poster*)
63. Essien*, C., Via, B., Gallagher, T., McDonald, T., and Eckhardt, L. 2017. Applying discriminate analysis and acoustic tool to assign loblolly pine families into susceptibility classes. Alabama Natural Resources Council, Tuscaloosa, AL (*Poster*)
64. Eckhardt, L.G. 2017. Forest pests and diseases. Alabama Teachers Conservation Workshop. Auburn, AL (**Invited**)
65. Eckhardt, L.G. 2017. Bark beetles 101. Alabama Forestry Commission Workshop: Are your trees dying? Landowners Meeting, Oxford, AL (**Invited**)
66. Devkota*, P., and Eckhardt, L.G. 2017. Variation in tolerance of mature *Pinus taeda* families to root infesting fungi *Grosmannia huntii* and *Leptographium terebrantis*. Auburn University Pathogenesis Discussion Group. Auburn, AL (**Invited**)
67. Wahl*, A.C. and Eckhardt, L.G. 2017. *Amylostereum* spp. fungi in pines. Auburn University Pathogenesis Discussion Group. Auburn, AL (**Invited**)
68. Eckhardt, L.G. 2016. Forest health of southern pines. Pine Mountain and War Eagle Chapters of the Society of American Foresters, Oxbow Meadows, Columbus, GA (**Invited**)
69. Devkota*, P., and Eckhardt, L.G. 2016. Variation in tolerance of mature *Pinus taeda* families to root infesting fungi *Grosmannia huntii* and *Leptographium terebrantis*. This is Research: Student Symposium 2016, Auburn University, Auburn, AL (**Invited**)

70. Devkota*, P., and Eckhardt, L.G. 2016. Variation in tolerance of several loblolly pine (*Pinus taeda*) families to *Grosmannia huntii* and *Leptographium terebrantis*. Forest Health Cooperative Advisory Meeting, Auburn, AL
71. Devkota*, P., Mensah, J., Nadel, R. and Eckhardt, L.G., 2016. Impact of *Leptographium terebrantis* inoculum density on loblolly pine physiology. Forest Health Cooperative Advisory Meeting, Auburn, AL
72. Devkota*, P., and Eckhardt, L.G. 2016. Virulence of *Leptographium terebrantis* and *Grosmannia huntii* on loblolly pine families under drought stress. Forest Health Cooperative Advisory Meeting, Auburn, AL
73. Devkota*, P., and Eckhardt, L.G. 2016. Response of different mature loblolly pine (*Pinus taeda* L.) families to *Leptographium terebrantis* and *Grosmannia huntii*. Forest Health Cooperative Advisory Meeting, Auburn, AL
74. Devkota*, P., and Eckhardt, L.G., and Kloepper, J.W. 2016. Antibiosis of blue-stain fungi by plant growth-promoting rhizobacteria. Forest Health Cooperative Advisory Meeting, Auburn, AL
75. Cole*, A.B., Eckhardt, L.G., Liebold, A., and Slippers, B. 2016. Effect of growth rate on *Amylostereum* spp. fungus by terpenes. This Is Research: Student Symposium, Auburn, AL
76. Devkota*, P., and Eckhardt, L.G. 2016. Variation in tolerance of mature *Pinus taeda* families to root infesting fungi *Grosmannia huntii* and *Leptographium terebrantis*. This is Research: Student Symposium 2016, Auburn University, Auburn, AL
77. Devkota*, P., Eckhardt, L. and Via, B. 2016. Response of different mature loblolly pine (*Pinus taeda* L.) families to *Leptographium terebrantis* and *Grosmannia huntii*. Auburn University This is Research, Auburn. AL (*Poster*)
78. Essien*, C., Via, B. and Eckhardt, L. 2016. Acoustic stiffness characterization of loblolly pine (*Pinus taeda* L.) families used for improved forest health. Auburn University This is Research, Auburn, AL (*Poster*)
79. Essien*, C., Via, B.K., Cheng, G., Gallagher, T., McDonald, T. and Eckhardt, L. 2016. Assessing the sensitivity of acoustic tools to the effect of moisture content in estimating acoustic velocity and modulus of elasticity of loblolly pine (*Pinus taeda*) families. This is Research: Student Symposium, Auburn University, Auburn, AL (*Poster*)
80. Eckhardt, L.G. 2016. Forest health of southern pines. Southeastern Society of American Foresters Annual Meeting, Auburn, AL (**Invited**)

81. Cole*, A.B., Slippers, B., Liebold, A., and Eckhardt, L.G. 2016. Effect of growth rate on *Amylostereum* spp. fungus by terpenes. School of Forestry and Wildlife Sciences Advisory Council Meeting, Auburn University Auburn, AL (Poster)
82. Devkota*, P., and Eckhardt, L.G. 2016. Variation in tolerance of *Pinus taeda* families to ophiostomatoid fungi *Grosmannia huntii* and *Leptographium terebrantis*. Advisory Council Meeting, School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL (Poster)
83. Acquah*, G.E., Via, B.K., Eckhardt L.G., Fasina, O.O., and Billor, N. 2016. Near infrared based partial least squares regression models for predicting the strength and basic density of disease tolerant *Pinus taeda* families. Forest Products Advisory Board Meeting, Auburn, AL (Poster)
84. Essien*, C., Via, B.K., Cheng, G., Gallagher, T., McDonald, T., Wang, X. and Eckhardt, L. 2016. Acousto-mechanical response of fourteen-year-old suppressed loblolly pine (*Pinus taeda*) to variation in wood chemistry, microfibril angle and density. Forest Products Advisory Board Meeting, Auburn, AL (Poster)
85. Essien*, C, Via BK, Cheng G, Gallagher T, McDonald T and Eckhardt L. 2016. Are Acoustic tools sensitive to moisture variations in juvenile wood of loblolly pine families? Forest Products Advisory Board Meeting, Auburn, AL (Poster)
86. Essien*, C., Via, B.K., Cheng, G., and Eckhardt, L. 2016. Effect of tracheid length and chemistry on acoustic velocity in determining the strength properties of juvenile wood of loblolly pine families. Forest Products Advisory Board Meeting, Auburn, AL (Poster)
87. Acquah*, G. E., Via B.K., Eckhardt L.G., Fasina O.O. and Billor N. 2016. Rapid assessment of disease tolerant *Pinus taeda* families for strength, chemical and bioenergy applications using near infrared spectroscopy. Southeastern Society of American Foresters Annual Meeting, Auburn, AL (Poster)
88. Essien*, C., Via, B.K., Eckhardt, L., Cheng, Q., Gallagher, T., McDonald, T., and Wang, X. 2016. Acousto-mechanical response of fourteen-year-old suppressed loblolly pine (*Pinus taeda*) to variation in cellulose, hemicelluloses, lignin, microfibril angle and density. Southeastern Society of American Foresters Annual Meeting, Auburn, AL (Poster)
89. Cole*, A.B., and Eckhardt, L.G. 2016. Effect of growth rate on *Amylostereum* spp. fungus by terpenes. Southeastern Society of American Foresters Annual Meeting, Auburn, AL (Poster)
90. Devkota*, P. and Eckhardt, L. 2016. Susceptibility of various mature loblolly pine (*Pinus taeda* L.) families to root infecting fungi. Southeastern Society of American Foresters Annual Meeting, Auburn, AL (Poster)

91. Eckhardt, L.G. 2015. *Leptographium* species: Tree pathogens and agents of blue stain, and their bark beetle associates [Pine Decline: Is it real? If so, what are its effects?] Clemson Cooperative Extension Landowners Workshop and Field Trip, T & S Farms, Leesville, SC (**Invited**)
92. Eckhardt, L.G. 2015. An overview of forest health research at the forest health cooperative Auburn University. Entomology and Plant Pathology Departmental Seminar, Auburn University, Auburn, AL (**Invited**)
93. Via, B.K. and Eckhardt, L.G. 2015. Near infrared reflectance (NIR) spectroscopy: dialing stem chemistry for optimal root disease resistance and forest products. Joint Auburn University Southern Forest Nursery Management & Forest Health Cooperatives Contact Meeting, St. Simons, GA
94. Nadel, R.L., Matusick, G., and Eckhardt, L.G. 2015. Quantifying the impact of pine decline in the southeastern United States. Joint Auburn University Southern Forest Nursery Management & Forest Health Cooperatives Contact Meeting, St. Simons, GA
95. Trautwig*, A., Eckhardt, L., Hoeksema, J., and Carter, E. 2015. Mycorrhizal communities in *Imperata cylindrical* invaded and non-invaded commercial *Pinus taeda* stands. Joint Auburn University Southern Forest Nursery Management & Forest Health Cooperatives Contact Meeting, St. Simons, GA
96. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2015. Effects of elevated tropospheric ozone and altered irrigation regimes on loblolly pine seedlings inoculated with ophiostomatoid fungi. Joint Auburn University Southern Forest Nursery Management & Forest Health Cooperatives Contact Meeting, St. Simons, GA
97. Devkota*, P. and Eckhardt, L.G. 2015. Variation In tolerance of *pinus taeda* families to root infesting fungi *Grosmannia huntii* and *Leptographium terebrantis*. Joint Auburn University Southern Forest Nursery Management & Forest Health Cooperatives Contact Meeting, St. Simons, GA
98. Cole*, A., Eckhardt, L., Liebold, A., and Slippers, B. 2015. A survey for *Sirex noctilio* and native woodwasps in Alabama. Joint Auburn University Southern Forest Nursery Management & Forest Health Cooperatives Contact Meeting, St. Simons, GA
99. Acquah*, G., Via, B.K., and Eckhardt, L.G. 2015. Nondestructive estimation of the chemical and thermal properties of forest biomass using vibrational spectroscopy and thermogravimetric analysis. This is Research: Student Symposium, Auburn University, Auburn, AL
100. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2015. Effects of elevated tropospheric ozone and altered irrigation regimes on loblolly pine seedlings inoculated

with ophiostomatoid fungi. This is Research: Student Symposium, Auburn University, Auburn, AL

101. Trautwig*, A., Eckhardt, L., Hoeksema, J., and Carter, E. 2015. Mycorrhizal communities in *Imperata cylindrical* invaded and non-invaded commercial *Pinus taeda* stands. This is Research: Student Symposium, Auburn University, Auburn, AL
102. Devkota*, P. and Eckhardt, L.G. 2015. Variation in tolerance of *Pinus taeda* families to root infesting fungi *Grosmannia huntii* and *Leptographium terebrantis*. This is Research: Student Symposium, Auburn University, Auburn, AL
103. Cole*, A., Eckhardt, L., Liebold, A., and Slippers, B. 2015. A survey for *Sirex noctilio* and native woodwasps in Alabama. This is Research: Student Symposium 2015. Auburn University, Auburn, AL (Poster)
104. Trautwig*, A., Eckhardt, L., Hoeksema, J., and Carter, E. 2015. Mycorrhizal communities in *Imperata cylindrical* invaded and non-invaded commercial *Pinus taeda* stands. Southeastern Ecology and Evolution Conference, Athens, GA
105. Acquah*, G., Via, B.K., and Eckhardt, L.G. 2015. Nondestructive estimation of the chemical and thermal properties of forest biomass using vibrational spectroscopy and thermogravimetric analysis. 18th Annual Biennial Southern Silvicultural Research Conference, Knoxville, TN
106. Eckhardt, L.G., Ditchkoff, S.S., Duong, T.A., DeBeer, Z.W, and Wingfield, M.J. 2015. Two new ophiostomatoid species isolated from soil on snouts of wild pigs damaging pine roots in Georgia. 18th Annual Biennial Southern Silvicultural Research Conference, Knoxville, TN
107. Chieppav, J.J., Chappelka, A.H., and Eckhardt, L.G. 2015. Effects of elevated tropospheric ozone and altered irrigation regimes on loblolly pine seedlings inoculated with ophiostomatoid fungi. 18th Annual Biennial Southern Silvicultural Research Conference, Knoxville, TN
108. Trautwig*, A., Eckhardt, L., Hoeksema, J., and Carter, E. 2015. Mycorrhizal communities in *Imperata cylindrical* invaded and non-invaded commercial *Pinus taeda* stands. 18th Annual Biennial Southern Silvicultural Research Conference, Knoxville, TN
109. Carter, E.A., Brunson, B.A., and Eckhardt, L.G. 2015. Soil properties associated with cogongrass infested and non-infested loblolly pine stands in Mississippi. 18th Annual Biennial Southern Silvicultural Research Conference, Knoxville, TN

110. Sayer, M.A.S., Tyree, M.C. Blazier, M.A., Sung, S.S., and Eckhardt, L.G. 2015. Is natural defense capacity correlated to the allocation of dry mass to the stem in loblolly pine? 18th Annual Biennial Southern Silvicultural Research Conference, Knoxville, TN (Poster)
111. Cole*, A. and Eckhardt, L., Liebold, A., and Slippers, B. 2015. A survey for *Sirex noctilio* and native woodwasps in Alabama. 18th Annual Biennial Southern Silvicultural Research Conference, Knoxville, TN (Poster)
112. Devkota*, P. and Eckhardt, L. 2015. Variance and tolerance of several loblolly pine (*Pinus taeda*) families to *Leptographium terebrantidis* and *Grosmannia huntii* root fungi. 18th Annual Biennial Southern Silvicultural Research Conference, Knoxville, TN (Poster)
113. Trautwig*, A., Eckhardt, L., Hoeksema, J., and Carter, E. 2015. Mycorrhizal communities in *Imperata cylindrical* invaded and non-invaded commercial *Pinus taeda* stands. School of Forestry and Wildlife Sciences Annual Advisory Meeting Student Poster Session, Auburn University, Auburn, AL (Poster)
114. Devkota*, P., Singh, A., Nadel, R. and Eckhardt, L. 2015. Variance and tolerance of several loblolly pin (*Pinus taeda*) families to *Leptographium terebrantidis* and *Grosmannia huntii* root fungi. School of Forestry and Wildlife Sciences Annual Advisory Meeting Student Poster Session, Auburn University, Auburn, AL (Poster)
115. Cole*, A. and Eckhardt, L., Liebold, A., and Slippers, B. 2015. Prevalence of *Sirex noctilio* F. in the southeastern United States. School of Forestry and Wildlife Sciences Annual Advisory Meeting Student Poster Session, Auburn University, Auburn, AL (Poster)
116. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2015. Effects of tropospheric ozone on loblolly pine seedlings inoculated with ophiostomatoid fungi. School of Forestry and Wildlife Sciences Annual Advisory Meeting Student Poster Session, Auburn University, Auburn, AL (Poster)
117. Acquah*, G., Via, B.K., and Eckhardt, L.G. 2015. Nondestructive estimation of the chemical and thermal properties of forest biomass using vibrational spectroscopy and thermogravimetric analysis. School of Forestry and Wildlife Sciences Annual Advisory Meeting Student Poster Session, Auburn University, Auburn, AL (Poster)
118. Trautwig*, A., Eckhardt, L., Hoeksema, J., and Carter, E. 2015. Mycorrhizal communities in *Imperata cylindrical* invaded and non-invaded commercial *Pinus taeda* stands. Southeastern Society of American Foresters Annual Meeting, St Simons Island, GA (Poster)

119. Devkota*, P., Singh, A., Nadel, R. and Eckhardt, L. 2015. Variance and tolerance of several loblolly pine (*Pinus taeda*) families to *Leptographium terebrantis* and *Grosmannia huntii* root fungi. Southeastern Society of American Foresters Annual Meeting, St Simons Island, GA (*Poster*)
120. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2015. Effects of tropospheric ozone on loblolly pine seedlings inoculated with ophiostomatoid fungi. Southeastern Society of American Foresters Annual Meeting, St Simons Island, GA (*Poster*)
121. Cole*, A. and Eckhardt, L., Liebold, A., and Slippers, B. 2015. A survey of *Sirex noctilio* F. and native wood wasps in Alabama. Southeastern Society of American Foresters Annual Meeting, St Simons Island, GA (*Poster*)
122. Eckhardt, L.G. 2014. The biology of pine decline in the southeastern US. Rayonier Yearly Forest Health Meeting, Eufaula, AL (**Invited**)
123. Eckhardt, L.G. and Neuman, R. 2014. Field trial of a controlled vapor delivery method in an IPM system. Forest Health Cooperative Annual Meeting, Americus, GA
124. Sword-Sayer, M.A., Singh, A., Eckhardt, L.G., and Sung, S.J. 2014. Assessment of defense capacity among 15 loblolly pine families. Forest Health Cooperative Annual Meeting, Americus, GA
125. Eckhardt, L.G. and Nadel, R.L. 2014. Variation in resistance of *Pinus taeda* families against *Leptographium* root infecting fungi – year three update. Forest Health Cooperative Annual Meeting, Americus, GA
126. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2014. Interactions of future climate change scenarios of elevated tropospheric ozone and decreasing rainfall amounts with loblolly pine decline. Forest Health Cooperative Annual Meeting, Americus, GA
127. Trautwig*, A.N., Eckhardt, L.G., and Hoeksema, J.D. 2014. Mycorrhizal Communities in *Imperata cylindrical* Invaded and Non-Invaded Commercial *Pinus taeda* Stands. Forest Health Cooperative Annual Meeting, Americus, GA
128. Nadel, R.L., Enebak, S.A., and Eckhardt, L.G. 2014. Seed certification and pitch canker. Forest Health Cooperative Annual Meeting, Americus, GA
129. Bauman*, T.A., Eckhardt, L.G., Menard, R.D., de Beer, Z.W., Sediles, A., and Wingfield, M.J. 2014. Determining fungal communities associated with the bark beetle *Dendroctonus approximatus* in Mexico and Central America. Forest Health Cooperative Annual Meeting, Americus, GA

130. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2014. Interaction of altered tropospheric ozone concentrations with loblolly pine decline. Research Week 2014, Auburn University, AL
131. Trautwig*, A.N., Eckhardt, L.G., and Hoeksema, J.D. 2014. Mycorrhizal Communities in *Imperata cylindrical* Invaded and Non-Invaded Commercial *Pinus taeda* Stands. Research Week 2014, Auburn University, AL
132. Acquah*, G., Via, B.K., Fasina, O. and Eckhardt, L.G. 2014. Nondestructive prediction of the chemical and thermal properties of forest biomass using near infrared spectroscopy. Research Week 2014, Auburn University, AL
133. Eckhardt, L.G. and Neuman, R. 2014. Field trial of a controlled vapor delivery method in an IPM system. Research Week 2014, Auburn University, AL
134. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2014. Interaction of altered tropospheric ozone concentrations with loblolly pine decline. Graduate Student Forum, Auburn University, AL
135. Trautwig*, A.N., Eckhardt, L.G., and Hoeksema, J.D. 2014. Mycorrhizal Communities in *Imperata cylindrical* Invaded and Non-Invaded Commercial *Pinus taeda* Stands. Graduate Student Forum, Auburn University, AL
136. Acquah*, G., Via, B.K., Fasina, O. and Eckhardt, L.G. 2014. Nondestructive prediction of the chemical and thermal properties of forest biomass using near infrared spectroscopy. Graduate Student Forum, Auburn University, AL
137. Piculell*, B.J., Hoeksema, J.D., and Eckhardt, L.G. 2014. The good and the bad: trade-offs between disease resistance and symbionts in loblolly pine. South-wide Forest Disease Workshop, Andalusia, AL
138. Riggins, J., Little, N., and Eckhardt, L. 2014. Subterranean termites and ophiostomatoid fungi: a secret symbiosis? South-wide Forest Disease Workshop, Andalusia, AL
139. Sword-Sayer, M.A., Singh, A., Eckhardt, L.G., and Sung, S.J. 2014. Assessment of defense capacity among 15 loblolly pine families. South-wide Forest Disease Workshop, Andalusia, AL
140. Carter, E.A., Hess, N., Goddard, A., and Eckhardt, L.G. 2014. Soil characteristics of loblolly decline sites in Alabama. South-wide Forest Disease Workshop, Andalusia, AL

141. Via, B.K., Eckhardt, L.G., and Acquah, G. 2014. Genetic selection of loblolly pine (*Pinus taeda* L.) with near infrared spectroscopy combined root disease resistance and forest products. South-wide Forest Disease Workshop, Andalusia, AL
142. Trautwig*, A.N., Eckhardt, L.G., and Hoeksema, J.D. 2014. Mycorrhizal communities in *Imperata cylindrical* invaded and non-invaded commercial *Pinus taeda* stands. South-wide Forest Disease Workshop, Andalusia, AL
143. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2014. Interaction of altered tropospheric ozone concentrations with loblolly pine decline. South-wide Forest Disease Workshop, Andalusia, AL
144. Bauman*, T.A., Eckhardt, L.G., Menard, R.D., de Beer, Z.W., Sediles, A., and Wingfield, M.J. 2014. Determining fungal communities associated with the bark beetle *Dendroctonus approximatus* in Mexico and Central America. South-wide Forest Disease Workshop, Andalusia, AL
145. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2014. Interaction of altered tropospheric ozone concentrations with loblolly pine decline. Southeastern Society of American Foresters Annual Meeting, Panama City, FL (*Poster*)
146. Bauman*, T.A., Eckhardt, L.G., Menard, R.D., de Beer, Z.W., Sediles, A., and Wingfield, M.J. 2014. Determining fungal communities associated with the bark beetle *Dendroctonus approximatus* in Mexico and Central America. Southeastern Society of American Foresters Annual Meeting, Panama City, FL (*Poster*)
147. Acquah*, G., Via, B.K., and Eckhardt, L.G. 2014. Nondestructive estimation of the chemical and thermal properties of forest biomass using vibrational spectroscopy and thermogravimetric analysis. Southeastern Society of American Foresters Annual Meeting, Panama City, FL (*Poster*)
148. Trautwig*, A.N., Eckhardt, L.G., and Hoeksema, J.D. 2014. Mycorrhizal Communities in *Imperata cylindrical* Invaded and Non-Invaded Commercial *Pinus taeda* Stands. Southeastern Society of American Foresters Annual Meeting, Panama City, FL (*Poster*)
149. Bauman*, T.A., Eckhardt, L.G., Menard, R.D., Ward, J.D., and Sediles, A. 2014. Evaluation of mortality in natural stands of *Pinus oocarpa* and *Pinus caribae* in Nicaragua. Southeastern Society of American Foresters Annual Meeting, Panama City, FL (*Poster*)
150. Bauman*, T.A., Matusick, G., Menard, R.D., and Eckhardt, L.G. 2014. *Pinus taeda* roots represent a suitable host substrate for developing *Hylastes* spp. of bark beetles in

- Alabama, USA. Southeastern Society of American Foresters Annual Meeting, Panama City, FL (*Poster*)
151. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2014. Interactions of altered rainfall concentrations with loblolly pine decline. Southeastern Society of American Foresters Annual Meeting, Panama City, FL (*Poster*)
 152. Bauman*, T.A., Eckhardt, L.G., Menard, R.D., Ward, J.D., and Sediles, A. 2014. Evaluation of mortality in natural stands of *Pinus oocarpa* and *Pinus caribaea* in Nicaragua. South-wide Forest Disease Workshop, Andalusia, AL (*Poster*)
 153. Acquah*, G., Via, B., Eckhardt, L., and Fasina, O. 2014. Screening loblolly pine families for wood chemistry. South-wide Forest Disease Workshop, Andalusia, AL (*Poster*)
 154. Bauman*, T.A., Matusick, G., Menard, R.D., and Eckhardt, L.G. 2014. *Pinus taeda* roots represent a suitable host substrate for developing *Hylastes* spp. of bark beetles in Alabama, USA. South-wide Forest Disease Workshop, Andalusia, AL (*Poster*)
 155. Chieppa*, J.J., Chappelka, A.H., and Eckhardt, L.G. 2014. Interactions of altered rainfall concentrations with loblolly pine decline. South-wide Forest Disease Workshop, Andalusia, AL (*Poster*)
 156. Eckhardt, L.G. 2013. The biology of pine decline in the southeastern US. Farm City and Russell County Natural Resources Council Landowners Meeting. Seale, AL (**Invited**)
 157. Eckhardt, L.G. 2013. The biology of pine decline in the southeastern US. Rayonier Yearly Forest Health Meeting, Eufaula, AL (**Invited**)
 158. Eckhardt, L.G. 2013. An overview of forest health research at the forest health cooperative Auburn University. Brasseltown, GA (**Invited**)
 159. Eckhardt, L.G. 2013. Pine root disease, root-feeding bark beetles and ophiostomatoid fungi in the United States and their impact on forest health. Society of American Foresters, Pine Mountain Chapter, Harris County, GA (**Invited**)
 160. Eckhardt, L.G. 2013. Loblolly family screening for resistance to fungi associated with loblolly pine decline. GA Society of American Foresters Annual Meeting. Valdosta, GA (**Invited**)
 161. Chappelka, A.H., Eckhardt, L.G., and Chieppa, J. 2013. Interactions of future climate change scenarios of elevated tropospheric ozone and decreasing rainfall amounts with loblolly pine decline. AHC-NECC Annual Working Group Meeting, Durham, NH

162. Loewenstein, N.J., Enloe, S.F., Eckhardt, L.G., Held, D., and Lauer, D. 2013. Use of prescribed fire, glyphosate and seedling in cogongrass infested longleaf pine stands: impacts on species relative dominance. FLEPPC/SE-EPPC Joint Annual Symposium, Panama City Beach, FL
163. Enloe, S.F., Loewenstein, N.J., Held, D., Eckhardt, L.G., and Lauer, D. 2013. Use of prescribed fire, glyphosate and seedling in cogongrass infested longleaf pine stands: impacts on cogongrass, species richness and species diversity. FLEPPC/SE-EPPC Joint Annual Symposium, Panama City Beach, FL
164. Brunson*, B., Carter, E., Loewenstein, N., Enloe, S., and Eckhardt, L. 2013. Assessing the impacts of cogongrass (*Imperata cylindrical* (L.) Beauv.) on root-feeding bark beetle populations associated with southern pine decline. FLEPPC/SE-EPPC Joint Annual Symposium, Panama City Beach, FL (*Poster*)
165. Neuman, R.D. and Eckhardt, L.G. 2013. Next-generation volatile compound delivery system for control of insects and insect-borne diseases. Auburn University Research Week, Auburn University, AL (*Poster*)
166. Chieppa*, J., Chappelka, A. and Eckhardt, L. 2013. Interactions of future climate change scenarios of elevated tropospheric ozone and decreased rainfall amounts with loblolly pine decline. 23rd Annual Graduate Scholars Forum. Auburn University, AL (*Poster*)
167. Gougherty*, A. and Eckhardt, L. 2013. Assessing the competitive interaction between two groups of pathogenic root fungi. 23rd Annual Graduate Scholars Forum. Auburn University, AL (*Poster*)
168. Singh*, A. and Eckhardt, L. 2013. Variation in resistance of *Pinus taeda* and *Pinus elliotii* families against root infecting fungi. Southeastern Society of American Foresters Annual Meeting, Mobile, AL (*Poster*)
169. Brunson*, B.A., Carter, E.A. and Eckhardt, L.G. 2013. Assessing the impacts of cogongrass (*Imperata cylindrica* (L.) Beauv) on root-feeding bark beetle populations associated with southern pine decline. Southeastern Society of American Foresters Annual Meeting, Mobile, AL (*Poster*)
170. Eckhardt, L.G. 2012. Extent and nature of ophiostomatoid associated declines in the South. The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA (**Invited**)
171. Eckhardt, L.G. 2012. Pine decline. Emerging Issues Panel, Georgia Forestry Association Annual Conference and Forestry Expo. Savannah, GA (**Invited**)

172. Eckhardt, L.G. 2012. Pine root disease, root-feeding bark beetles and ophiostomatoid fungi in the United States and their impact on forest health. School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL (**Invited**)
173. Anderson, D., Oak, S., Enebak, S.A., and Eckhardt, L. 2012. Comparison of stream baiting protocols for recovering *Phytophthora ramorum* from streams and nursery discharge. The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA
174. Singh*, A. and Eckhardt, L.G. 2012. Variation in resistance of *Pinus taeda* families against *Leptographium* root infecting fungi. The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA
175. Brunson*, B.A., Carter, E.A., and Eckhardt, L.G. 2012. Assessing the impacts of cogongrass (*Imperata cylindrica* (L.) Beauv) on root-feeding bark beetle populations associated with southern pine decline. The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA
176. Meyerpeter*, M.B. and Eckhardt, L.G. 2012. Mapping loblolly pine decline hazard and risk across the southeastern United States. The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA
177. Meyerpeter*, M.B. and Eckhardt, L.G. 2012. Mapping loblolly pine decline hazard and risk across the southeastern United States. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
178. Brunson*, B.A., Carter, E.A. and Eckhardt, L.G. 2012. Cogongrass: Does it affect root-feeding beetle populations and pine decline susceptibility. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
179. Singh*, A., Anderson, D.D., and Eckhardt, L.G. 2012. Resistance of *Pinus taeda* families against *Leptographium* root fungi and assessment of family morphological traits linked to *Leptographium* infections. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
180. Zeng*, Y., Kidd, K.R., and Eckhardt, L.G. 2012. Bark beetle populations related to Silviculture disturbances. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
181. Zeng*, Y. and Eckhardt, L.G. 2012. Thinning effects on incidence of ophiostomatoid fungal species in decline impacted *Pinus taeda* stands. Research and Creative Scholarship, Research Week, Graduate Student Forum, Auburn University, Auburn, AL

182. Singh*, A., Anderson, D.D., and Eckhardt, L.G. 2012. Variation in resistance of *Pinus taeda* and *P. elliotii* families against *Leptographium* root infecting fungi. Graduate Research Forum, Auburn University, Auburn, AL
183. Zeng*, Y. and Eckhardt, L.G. 2012. Thinning effects on incidence of ophiostomatoid fungal species in decline impacted *Pinus taeda* stands. Graduate Research Forum, Auburn University, Auburn, AL
184. Steury, T.D., Eckhardt, L.G., Lowery, D., Hunter, S.A., Romagosa, C.M., Ditchkoff, S.S., Angle, C.T., and Tom, B.M. 2012. Success and failures of an ecological detection dog service. Alabama Chapter of the Wildlife Society Meeting, Decatur, AL
185. Brunson*, B.A., Carter, E.A., and Eckhardt, L.G. 2012. Assessing the impacts of cogongrass (*Imperata cylindrica* (L.) Beauv) on root-feeding bark beetle populations associated with southern pine decline. American Phytopathology Society Southern Division Meeting, Birmingham, AL
186. Anderson, D.D., Oak, S.A., Enebak, S.A., and Eckhardt, L.G. 2012. Comparison of stream baiting protocols for recovering *Phytophthora ramorum* from streams and nursery discharge. American Phytopathology Society Southern Division Meeting, Birmingham, AL
187. Singh*, A., Anderson, D.D., and Eckhardt, L.G. 2012. Variation in resistance of *Pinus taeda* and *P. elliotii* families against *Leptographium* root infecting fungi. American Phytopathology Society Southern Division Meeting, Birmingham, AL
188. Meyerpeter*, M.B. and Eckhardt, L.G. 2012. Mapping the extent of loblolly pine decline in Alabama and Georgia. American Phytopathology Society Southern Division Meeting, Birmingham, AL
189. Zeng*, Y. and Eckhardt, L.G. 2012. Thinning effects on incidence of ophiostomatoid fungal species in decline impacted *Pinus taeda* stands. American Phytopathology Society Southern Division 2012 Meeting, Birmingham, AL
190. Via, B.K. and Eckhardt, L.G. 2012. Wood chemistry and pine decline susceptibility. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL (*Poster*)
191. Carter, E.A., Hess, N.J., Goddard, A.J., Eckhardt, L.G., and Via, B.K. 2012. Soil characteristics of loblolly pine decline sites in central Alabama. The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA (*Poster*)
192. Sayer, M.A.S., Singh, A., Eckhardt, L.G., and Sung, S.S. 2012. Carbon allocation as an indicator of *Leptographium* resistance in 15 loblolly pine families. . The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA (*Poster*)

193. Eckhardt, L., Angle, C., and Steury, T. 2012. EcoDog: Detection dogs for ecological research. . The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA (*Poster*)
194. Eckhardt, L., Via, B., and Jiang, W. 2012. Wood chemistry and disease resistance. . The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA (*Poster*)
195. Zeng*, Y. and Eckhardt, L. 2012. Third row thinning effect on root-feeding beetle population dynamics and incidence of ophiostomatoid fungal species in decline-impacted loblolly pine stands. The Southern Forest Insect Work Conference and South-wide Forest Disease Workshop Joint Meeting, Charlottesville, VA (*Poster*)
196. Brunson*, B.A., Carter, E.A. and Eckhardt, L.G. 2012. Assessing the impacts of cogongrass (*Imperata cylindrica* (L.) Beauv) on root-feeding bark beetle populations associated with southern pine decline. Joint Meeting of the 14th Annual Southeast Exotic Pest Plant Council Conference and the 10th Annual Alabama Invasive Plant Council Conference, Auburn, AL (*Poster*)
197. Meyerpeter*, M. and Eckhardt, L. 2012. Mapping the extent of loblolly pine decline in the southeastern United States. Alabama Natural Resource Council Outreach Symposium. Auburn University, Auburn, AL (*Poster*)
198. Brunson*, B.A., Carter, E.A. and Eckhardt, L.G. 2012. Assessing the impacts of cogongrass (*Imperata cylindrica* (L.) Beauv) on root-feeding bark beetle populations associated with southern pine decline. Alabama Natural Resource Council Outreach Symposium. Auburn University, Auburn, AL (*Poster*)
199. Zeng*, Y. and Eckhardt, L. 2012. Third row thinning effect on root-feeding beetle population dynamics and incidence of ophiostomatoid fungal species in decline-impacted loblolly pine stands. Alabama Natural Resource Council Outreach Symposium. Auburn University, Auburn, AL (*Poster*)
200. Anderson, D., Oak, S., Enebak, S., and Eckhardt, L. 2012. Comparison of stream baiting protocols for recovering *Phytophthora ramorum* from streams and nursery discharge. Southeastern Society of American Foresters Annual Meeting, Jekyll Island, GA (*Poster*)
201. Eckhardt, L.G. 2012. The biology of pine decline in the southeastern US. Alabama Natural Resource Council Outreach Symposium, Auburn University, Auburn, AL (**Invited**)
202. Singh*, A. and Eckhardt, L. 2012. Variation in resistance of *Pinus taeda* and *Pinus elliotii* families against root infecting fungi. Alabama Natural Resource Council Outreach Symposium, Auburn University, Auburn, AL (*Poster*)

203. Brunson*, B.A., Carter, E.A. and Eckhardt, L.G. 2012. Assessing the impacts of cogongrass (*Imperata cylindrica* (L.) Beauv) on root-feeding bark beetle populations associated with southern pine decline. Southeastern Society of American Foresters Annual Meeting, Jekyll Island, GA (*Poster*)
204. Zeng*, Y. and Eckhardt, L. 2012. Thinning effects on the incidence of ophiostomatoid fungal species in decline-impacted *Pinus taeda* stands. Southeastern Society of American Foresters Annual Meeting, Jekyll Island, GA (*Poster*)
205. Meyerpeter*, M. and Eckhardt, L. 2012. Mapping the extent of loblolly pine decline in the southeastern United States. Southeastern Society of American Foresters Annual Meeting, Jekyll Island, GA (*Poster*)
206. Singh*, A. and Eckhardt, L. 2012. Variation in resistance of *Pinus taeda* and *Pinus elliotii* families against root infecting fungi. Southeastern Society of American Foresters Annual Meeting, Jekyll Island, GA (*Poster*)
207. Eckhardt, L.G. 2011. Pine decline: new developments and management. Tree Improvement Cooperative Annual Contact Meeting, Macon, GA (**Invited**)
208. Eckhardt, L.G., Matusick, G., and Zeng, Y. 2011. Pine decline: the involvement of bark beetles and ophiostomatoid fungi. Department of Biology, The University of Mississippi, Oxford, MS (**Invited**)
209. Meyerpeter*, M.B., and Eckhardt, L.G. 2011. Pine fungal disease and insect associates in Central America. York Endowment International Scholars Seminar, Auburn, AL (**Invited**)
210. Eckhardt, L.G. 2011. Pine decline in the southeast. Georgia Forestry Association Regional Forestry Meeting, Albany, GA (**Invited**)
211. Eckhardt, L.G. 2011. Pine decline – is it a nursery issue? Southern Forest Nursery Management Cooperative Contact Meeting. Augusta GA (**Invited**)
212. Eckhardt, L.G. 2011. Pine decline: new developments and management. Tree Productivity Cooperative Annual Contact Meeting, Waycross, GA (**Invited**)
213. Eckhardt, L.G. 2011. Insect and disease: issues in the southeastern United States. Brazilian Foresters Conference, Auburn University, Auburn, AL (**Invited**)
214. Steury, T.D., Eckhardt, L.G., Lowery, D., Hunter, S.A., Romagosa, C.M., Ditchkoff, S.S., Angle, C.T., and Tom, B.M. 2011. Success and failures of an ecological detection dog service. 65th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies, Nashville, TN

215. Singh*, A., Anderson, D.D., and Eckhardt, L.G. 2011. Resistance of *Pinus taeda* families against *Leptographium* root fungi and assessment of family morphological traits linked to *Leptographium* infections. Tree Improvement Cooperative Contact Meeting. Macon, GA
216. Brunson*, B.A. and Eckhardt, L.G. 2011. Cogongrass: Does it affect root-feeding beetle populations and pine decline susceptibility. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
217. Singh*, A., Anderson, D.D., and Eckhardt, L.G. 2011. Resistance of *Pinus taeda* families against *Leptographium* root fungi and assessment of family morphological traits linked to *Leptographium* infections. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
218. Carter, E.A. and Eckhardt, L.G. 2011. Select soil properties associated with loblolly pine decline in the southeastern United States. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
219. Zeng*, Y., Kidd, K.R., and Eckhardt, L.G. 2011. Bark beetle populations related to Silviculture disturbances. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
220. Walls*, J.G., Hepp, G.R. and Eckhardt, L.G. 2011. Effects of incubation delay on hatchability and microbial growth of wood duck eggs. American Ornithologists' Union (AOU) meeting, Jacksonville, FL
221. Zeng*, Y., Kidd, K.R., and Eckhardt, L.G. 2011. Association between bark beetle population dynamics and silviculture disturbances in decline-impacted loblolly pine stands. Graduate Scholars Forum, Auburn University, Auburn, AL
222. Zelko*, J., Menard, R.D., Matusick, G., and Eckhardt, L.G. 2011. Monoterpene and oleoresin effect on ophiostomatoid fungi isolated from Nicaragua. Graduate Scholars Forum, Auburn University, Auburn, AL
223. Thompson*, J.A., Menard, R.D., and Eckhardt, L.G. 2011. Population patterns of bark and ambrosia beetles over a two-year period. Graduate Scholars Forum, Auburn University, Auburn, AL
224. Meyerpeter*, M.B. and Eckhardt, L.G. 2011. Mapping the delineation of loblolly pine decline in the southeast. Graduate Scholars Forum, Auburn University, AL (*Poster*)
225. Brunson*, B.A. and Eckhardt, L.G. 2011. Impacts of cogongrass (*Imperata cylindrical* (L.) Beauv) on populations of root-feeding bark beetles associated with pine decline. Graduate Scholars Forum, Auburn University, AL (*Poster*)

226. Singh*, A. and Eckhardt, L.G. 2011. Resistance of *Pinus taeda* families against *Leptographium* root fungi and assessment of family morphological traits linked to *Leptographium* infection. Graduate Scholars Forum, Auburn University, AL (*Poster*)
227. Zeng*, Y., Booker, K.R., and Eckhardt, L.G. 2011. Association between bark beetle population dynamics and silviculture disturbances in decline-impacted loblolly pine stands. 16th Biennial Southern Silvicultural Research Conference, Savannah, GA (*Poster*)
228. Menard, R.D., Ward, J.D., Eckhardt, L.G., and Sediles, A. 2011. Evaluation of mortality in natural stands of *Pinus oocarpa* in Nicaragua. South-wide Forest Disease Workshop, Quincy, FL
229. Eckhardt, L.G., Singh, A., Fischer, T., Angle, C., Dewitt, J., and Gillette, R. 2011. Timber dogs and root disease. South-wide Forest Disease Workshop, Quincy, FL (*Poster*)
230. Eckhardt, L.G. 2010. Pine decline: new developments and management. Department of Plant Pathology and Physiology, Louisiana State University, Baton Rouge, LA (**Invited**)
231. Eckhardt, L.G. 2010. Thinning and fertilization: effects on bark beetle abundance in a loblolly pine plantation. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
232. Zeng*, Y., Booker, K.R., and Eckhardt, L.G. 2010. Bark beetle populations related to silviculture disturbances. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
233. Thompson*, J.A., Menard, R.D., and Eckhardt, L.G. 2010. Population patterns of bark and ambrosia beetles over a two-year period. Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
234. Brunson*, B.A. and Eckhardt, L.G. 2010. Cogongrass: does it affect root-feeding beetle populations and pine decline susceptibility? Forest Health Cooperative Annual Advisory Meeting. Auburn, AL
235. Menard, R.D., Meyerpeter, M.B., and Eckhardt, L.G. 2010. Possible invasive ophiostomatoid fungi from Nicaragua. Forest Health Cooperative Annual Advisory Meeting, Auburn, AL
236. Zelko*, J.C., Menard, R.D., and Eckhardt, L.G. 2010. Virulence of three ophiostomatoid fungi isolated from Nicaragua on slash, loblolly and longleaf pine seedlings. Forest Health Cooperative Annual Meeting, Auburn, AL

237. Thompson*, J.A., and Eckhardt, L.G. 2010. Bark beetle diversity. Annual Graduate Student Research Forum, Auburn University, Auburn, AL
238. Zelko*, J.C., Matusick, G., Menard, R.D., and Eckhardt, L.G. 2010. An analysis of pathogenicity between Nicaraguan ophiostomatoid fungi versus native ophiostomatoid fungi in southern pines. Annual Graduate Student Research Forum, Auburn University Hotel, Auburn University, AL (*Poster*)
239. Matusick*, G. and Eckhardt, L.G. 2010. Pathogenicity and virulence of *Leptographium* species to immature southern pines. Annual Graduate Student Research Forum, Auburn University Hotel, Auburn University, AL (*Poster*)
240. Thompson*, J.A., Menard, R.D., and Eckhardt, L.G. 2010. Root feeding insect populations in relation to multiple silvicultural practices. Annual Graduate Student Research Forum, Auburn University Hotel, Auburn University, AL (*Poster*)
241. Walker**, D., Matusick, G., Hossain, M., and Eckhardt, L. 2010. Host Response to several root pathogenic fungi. Annual Graduate Student Research Forum, Auburn University Hotel, Auburn University, AL (*Poster*)
242. Zeng*, Y., Booker, K.R., and Eckhardt, L.G. 2010. Association between bark beetle population dynamics and silviculture disturbances in decline-impacted loblolly pine stands. Annual Graduate Student Research Forum, Auburn University Hotel, Auburn University, AL (*Poster*)
243. Zanzot*, J.W. and Eckhardt, L.G. 2010. Ecology of root-feeding curculionids and fungi in longleaf pine forests at Fort Benning, Georgia. Annual Graduate Student Research Forum, Auburn University Hotel, Auburn University, AL (*Poster*)
244. Eckhardt, L.G. and Menard, R.D. 2010. Actively managing real & potential loblolly pine decline stands targeted for longleaf restoration within RCW habitat. Annual Graduate Student Research Forum, Auburn University Hotel, Auburn University, AL (*Poster*)
245. Booker, K.R., Zanzot, J.W., and Eckhardt, L.G. 2010. Thinning and fertilization: effects on bark beetle abundance in an industrial loblolly pine plantation. Annual Graduate Student Research Forum, Auburn University Hotel, Auburn University, AL (*Poster*)
246. Eckhardt, L.G., Menard, R.D., Matusick, G., and Zanzot, J.W. 2009. Pine decline: the involvement of bark beetles and ophiostomatoid fungi. Entomology Club, Entomology and Plant Pathology Department, Auburn University, Auburn, AL (**Invited**)

247. Menard, R.D., Ward, J.D., Eckhardt, L.G., and Sediles, A. 2009. Evaluation of mortality in natural stands of *Pinus oocarpa* and *Pinus caribaea* in Nicaragua. Southeastern Forest Insect Work Conference, Gulfport, MS (**Invited**)
248. Eckhardt, L.G. 2009. Pine forest decline in pine plantations. Alabama Treasure Forest Association, Tallapoosa County Landowners Meeting, Camp Hill, AL (**Invited**)
249. Eckhardt, L.G., Menard, R.D., Matusick, G., and Zanzot, J.W. 2009. Pine decline: what is it and what can you do about it? Annual Meeting of the Mississippi Society of American Foresters, Bay St. Louis, MS (**Invited**)
250. Eckhardt, L.G., Menard, R.D., Matusick, G., and Zanzot, J.W. 2009. Pine decline: what is it and what can you do about it? Alabama Forestry Producers, Alabama Farmers Federation, 2009 Commodity Organizational Meeting. Birmingham, AL (**Invited**)
251. Zanzot*, J.W. and Eckhardt, L.G. 2009. Thinning and fertilization: effects on bark beetle abundance in a loblolly pine plantation. Forest Health Cooperative Annual Meeting, Auburn, AL
252. Zeng*, Y., Booker, K.R., and Eckhardt, L.G. 2009. Bark beetle populations related to silviculture disturbances. Forest Health Cooperative Annual Meeting, Auburn, AL
253. Zelko*, J.C., Menard, R.D., and Eckhardt, L.G. 2009. Effects of blue-stain fungi isolated from *Pinus oocarpa* in Nicaragua on southern pines. Forest Health Cooperative Annual Meeting, Auburn, AL
254. Thompson*, J.A., Menard, R.D., and Eckhardt, L.G. 2009. Bark beetle activity related to biomass removal and standard silvicultural practices. Forest Health Cooperative Annual Meeting, Auburn, AL
255. Matusick*, G. and Eckhardt, L.G. 2009. Damage in southern pines following artificial inoculation with pathogenic root fungi, with emphasis on four *Leptographium* species. Forest Health Cooperative Annual Meeting, Auburn, AL
256. Walker**, D., Matusick, G., and Eckhardt, L.G. 2009. Host response to several root pathogenic fungi. Forest Health Cooperative Annual Meeting, Auburn, AL
257. Sword-Sayer, M.A. and Eckhardt, L.G. 2009. Pine decline from a physiology perspective. Forest Health Cooperative Annual Meeting, Auburn, AL
258. Eckhardt, L.G. 2009. Latest developments in pine decline disease development and management. South-wide Forest Disease Workshop, Greenville, SC (**Invited**)
259. Sword-Sayer, M.A., Eckhardt, L.G., Zanzot, J.W., and Carter, E.A. 2009. Longleaf pine nutrition, decline symptoms, and root disease at Fort Benning Military Reserve. South-wide Forest Disease Workshop, Greenville, SC

260. Walker**, D., Matusick, G., Hossain, M., and Eckhardt, L. 2009. Host response to several root pathogenic fungi. South-wide Forest Disease Workshops, Greenville, SC
261. Menard, R.D., Eckhardt, L.G., Matusick, G., and Hess, N.J. 2009. Monitoring loblolly pine decline in the western zone of the southern region. South-wide Forest Disease Workshop, Greenville, SC
262. Matusick*, G., Zanzot, J.W., and Eckhardt, L.G. 2009. The occurrence, virulence, and potential origin of *Grosmannia huntii* isolated from southern *Pinus* host tissue and bark beetle vectors. South-wide Forest Disease Workshop, Greenville, SC
263. Carter, E.A., Eckhardt, L.G., and Menard, R.D. 2009. Select soil physical properties associated with loblolly pine decline at Fort Benning Military Reserve, Georgia. South-wide Forest Disease Workshop, Greenville, SC (*Poster*)
264. Matusick*, G. and Eckhardt, L.G. 2009. Inoculation of loblolly and slash pine roots with four *Leptographium* species and *Heterobasidion annosum*. South-wide Forest Disease Workshop, Greenville, SC (*Poster*)
265. Thompson*, J.A., and Eckhardt, L.G., and Menard, R.D. 2009. Forest health evaluation of stand health in association with biomass removal and standard silvicultural practices. South-wide Forest Disease Workshop, Greenville, SC (*Poster*)
266. Zanzot*, J.W. and Eckhardt, L.G. 2009. Beetle-fungal associations in longleaf pine stands at Fort Benning, GA. South-wide Forest Disease Workshop, Greenville, SC (*Poster*)
267. Zelko*, J.C., Matusick, G., Menard, R.D., and Eckardt, L.G. 2009. An analysis of pathogenicity between Nicaraguan ophiostomatoid fungi versus native ophiostomatoid fungi in southern pines. South-wide Forest Disease Workshop, Greenville, SC (*Poster*)
268. Walker**, D., Matusick, G. Hossain, M., and Eckhardt, L.G. 2009. Host response to several root pathogenic fungi. Sixth Annual Undergraduate Scholars Research Forum, Auburn University, AL
269. Matusick*, G. and Eckhardt, L.G. 2009. Damage associated with inoculation of mature longleaf and loblolly pine roots with four blue-stain *Leptographium* species. Annual Symposium of the Southeastern Chapter of the Society for Ecological Restoration: Restoration in the Southeast with a Focus on Military Lands, Auburn, AL
270. Zanzot*, J.W. and Eckhardt, L.G. 2009. *Leptographium*, its vectors, and longleaf pine decline: Implications for longleaf restoration at Fort Benning, GA. Annual Symposium of the Southeastern Chapter of the Society for Ecological Restoration: Restoration in the Southeast with a Focus on Military Lands, Auburn, AL

271. Eckhardt, L.G., Menard, R.D., and Gray, E. 2009. Effects of oleoresins and terpenoids on the fungal growth associated with pine decline in the southeastern United States. Annual Symposium of the Southeastern Chapter of the Society for Ecological Restoration: Restoration in the Southeast with a Focus on Military Lands, Auburn, AL (*Poster*)
272. Matusick*, G. and Eckhardt, L.G. 2009. The pathogenicity and virulence of southeastern blue-stain *Leptographium* species to southern pine seedlings and immature longleaf pine trees. Annual Symposium of the Southeastern Chapter of the Society for Ecological Restoration: Restoration in the Southeast with a Focus on Military Lands, Auburn, AL (*Poster*)
273. Carter, E.A., Eckhardt, L.G., and Menard, R.D. 2009. Select soil physical properties associated with loblolly pine decline at Fort Benning Military Reserve, Georgia. Annual Symposium of the Southeastern Chapter of the Society for Ecological Restoration: Restoration in the Southeast with a Focus on Military Lands, Auburn, AL (*Poster*)
274. Sword-Sayer, M.A., Eckhardt, L.G., and Carter, E.A. 2009. Longleaf pine nutrition and decline symptoms at Fort Benning Military Reserve-their application in responding to pine decline in the Southeast. Annual Symposium of the Southeastern Chapter of the Society for Ecological Restoration: Restoration in the Southeast with a Focus on Military Lands, Auburn, AL (*Poster*)
275. Zanzot*, J.W., de Beer, Z.W., Wingfield, M.J., and Eckhardt, L.G. 2009. Ecological and molecular evidence suggests that *Leptographium serpens* is a recent introduction to southeastern forests. Annual Symposium of the Southeastern Chapter of the Society for Ecological Restoration: Restoration in the Southeast with a Focus on Military Lands, Auburn, AL (*Poster*)
276. Thompson*, J.A., Menard, R.D., and Eckhardt, L.G. 2009. Evaluation of stand health in association with biomass removal and standard silvicultural practices. Southeastern Entomological Society of America Annual Meeting, Montgomery, AL
277. Zanzot*, J.W. and Eckhardt, L.G. 2009. Ecology of root-feeding curculionids and fungi in longleaf pine forests at Fort Benning, Georgia. Southeastern Entomological Society of America Annual Meeting, Montgomery, AL
278. Zanzot*, J.W. and Eckhardt, L.G. 2009. Ecology of root-feeding curculionids and fungi in longleaf pine forests at Fort Benning, Georgia. Southeastern Entomological Society of America Annual Meeting, Montgomery, AL (*Poster*)

279. Matusick*, G., Eckhardt, L.G., and Menard, R.D. 2009. Premature pine mortality, root-inhabiting bark beetles and blue-stain fungi. Southeastern Entomological Society of America Annual Meeting, Montgomery, AL (*Poster*)
280. Matusick*, G. and Eckhardt, L.G. 2009. The pathogenicity of four *Leptographium* species to southern pine roots. 86th Annual Southern Division American Pathological Society Meeting, Atlanta, GA
281. Matusick*, G., Menard, R.D., and Eckhardt, L.G. 2009. Premature pine mortality, root-inhabiting bark beetles and their associated blue-stain fungi. Southeastern Forest Insect Work Conference, Gulfport, MS (*Poster*)
282. Booker, K.R., and Eckhardt, L.G. 2009. Bark beetle population responses to harvest and thin treatments in loblolly pine stands in decline-impacted central piedmont region. Southeastern Forest Insect Work Conference, Gulfport, MS (*Poster*)
283. Thompson*, J.A., Eckhardt, L.G., and Menard, R.D. 2009. Root-feeding bark beetle populations in association with stand health, biomass removal and standard silvicultural practices. Southeastern Forest Insect Work Conference, Gulfport, MS (*Poster*)
284. Zanzot*, J.W., Menard, R.D., and Eckhardt, L.G. 2009. *Hylastes* spp. and their fungal associates in longleaf pine stands at Fort Benning Georgia. Southeastern Forest Insect Work Conference, Gulfport, MS (*Poster*)
285. Menard, R.D. and Eckhardt, L.G. 2009. Root-feeding bark beetles: what constitutes an epizootic event? Southeastern Forest Insect Work Conference, Gulfport, MS (*Poster*)
286. Zelko*, J.C., Menard, R.D., Matusick, G., and Eckhardt, L.G. 2009. The assessment pathogenicity of Nicaraguan ophiostomatoid fungi on southern pines. Graduate Student Scholars Forum, Auburn, AL (*Poster*)
287. Eckhardt, L.G. 2008. *Leptographium* update in the southeast. Russell County Forest Landowners Forestry Banquet-Update of Current Forestry Practices, Phenix City, GA (**Invited**)
288. Eckhardt, L.G. 2008. *Leptographium* update in the southeast. Pine Straw Production, Stand Management, and Economics. Sandhill Research and Educational Center, North Crossing, SC (**Invited**)
289. Eckhardt, L.G., Menard, R.D., Matusick, G., and Zanzot, J.W. 2008. Pine decline in the southeastern United States and the involvement of bark beetles and ophiostomatoid fungi. Russell County Forest Landowners Forest Health Field Trip, Russell County, AL (**Invited**)

290. Eckhardt, L.G., Zanzot, J.W., and Pope, C.R. 2008. Hylastes population dynamics and forest health evaluation in association with thinning and fertilization. Annual Advisory Committee Meeting of the Forest Nutrition Cooperative, Roanoke, VA **(Invited)**
291. Eckhardt, L.G., Menard, R.D., Matusick, G., and Zanzot, J.W. 2008. Pine decline in the southeastern United States and the involvement of bark beetles and ophiostomatoid fungi. Weyerhaeuser Forest Health Field Trip, Camden, AL **(Invited)**
292. Eckhardt, L.G., Menard, R.D., Matusick, G., and Zanzot, J.W. 2008. The biology of pine decline in Alabama. Southeastern Society of American Foresters Meeting, Wood Basket Chapter, Selma, AL **(Invited)**
293. Eckhardt, L.G., Menard, R.D., and Matusick, G. 2008. The biology and ecology of loblolly pine decline in Alabama. Alabama Southeastern Society of American Foresters Division Annual Meeting, Birmingham Botanical Gardens, AL **(Invited)**
294. Menard, R.D., Eckhardt, L.G., and Matusick, G. 2008. The biology of loblolly pine decline in Alabama. Alabama Forestry Association Mid-Winter Meeting, Sandestin Beach, FL **(Invited)**
295. Zanzot*, J.W., de Beer, Z.W., Eckhardt, L.G., and Wingfield, M.J. 2008. *Leptographium serpens* and *Grosmannia huntii*: Recent introductions to southeastern forests? Forest Health Cooperative Annual Meeting, Auburn, AL
296. Thompson*, J.A., Menard, R.D., and Eckhardt, L.G. 2008. Evaluation of stand health in association with biomass removal and standard silvicultural practices. Forest Health Cooperative Annual Meeting, Auburn, AL
297. Matusick*, G. and Eckhardt, L.G. 2008. The virulence and pathogenicity of root-inhabiting blue-stain fungi. Forest Health Cooperative Annual Meeting, Auburn, AL
298. Zelko*, J.C., Menard, R.D., Matusick, G., and Eckhardt, L.G. 2008. The assessment pathogenicity of Nicaraguan ophiostomatoid fungi on southern pines. Forest Health Cooperative Annual Meeting, Auburn, AL.
299. Matusick*, G. and Eckhardt, L.G. 2008. The pathogenicity of four *Leptographium* species to southern pine roots. Graduate Student Scholars Forum, Auburn University, AL
300. Zanzot*, J.W., Matusick*, G., and Eckhardt, L.G. 2008. Ecological and molecular data suggest *Leptographium serpens* is a recent introduction into the southeastern United States. Graduate Student Scholars Forum, Auburn University, AL

301. Thompson*, J.A. and Eckhardt, L.G. 2008. Forest health evaluation of stand health in association with biomass removal and standard silvicultural practices. Graduate Student Scholars Forum, Auburn University, AL(*Poster*)
302. Matusick*, G., Eckhardt, L.G., and Enebak, S.A. 2008. The pathogenicity of *Leptographium serpens* to pine seedlings under varying moisture regimes. Graduate Student Scholars Forum, Auburn University, AL (*Poster*)
303. Menard, R.D., Eckhardt, L.G., Matusick*, G., and Hess, N.J. 2008. Monitoring loblolly pine decline in the western zone of the Southern region. South-wide Forest Disease Workshop, Savannah, GA
304. Eckhardt, L.G., Menard, R.D., and Gray, E. 2008. Effects of oleoresins and terpenoids on the fungal growth associated with pine decline in the southeastern United States. South-wide Forest Disease Workshop. Savannah, GA
305. Zanzot*, J.W., de Beer, Z.W., Eckhardt, L.G., and Wingfield, M.J. 2008. A PCR-RFLP based test to distinguish *Leptographium serpens* and *Leptographium huntii* from roots of declining pines in the southeastern US. South-wide Forest Disease Workshop. Savannah, GA
306. Matusick*, G. and Eckhardt, L.G. 2008. The pathogenicity of *Leptographium* species to southern pine roots. South-wide Forest Disease Workshop, Savannah, GA
307. Carter, E.A., Hess, N.J., Goddard, A.J., Eckhardt, L.G. and Jones, J.P. 2008. Soil characteristics of loblolly decline sites in Alabama. South-wide Forest Disease Workshop, Savannah, GA (*Poster*)
308. Sword-Sayer, M.A., Sung, S.J.S., and Eckhardt, L.G. 2008. Observations of longleaf pine fine root and branch health across sixteen locations at Fort Benning Military Reserve. South-wide Forest Disease Workshop, Savannah, GA (*Poster*)
309. Matusick*, G., Eckhardt, L.G., and Enebak, S.A. 2008. The pathogenicity of *Leptographium serpens* to longleaf pine seedlings under varying moisture regimes, South-wide Forest Disease Workshop, Savannah, GA (*Poster*)
310. Fogg**, T.D., Matusick, G., and Eckhardt, L.G. 2008. Effects of different pine tissues on effects of pathogenic fungi. South-wide Forest Disease Workshop, Savannah, GA (*Poster*)
311. Zanzot*, J.W., Eckhardt, L.G., and Menard, R.D. 2008. Seasonal variation in root-feeding insect capture and fungal infestation in longleaf pine at Fort Benning GA. South-wide Forest Disease Workshop, Savannah, GA (*Poster*)

312. Zanzot*, J.W., de Beer, Z.W., Eckhardt, L.G., and Wingfield, M.J. 2008. A new *Ophiostoma* species in the *O. pluriannulatum* complex from loblolly pine roots. South-wide Forest Disease Workshop, Savannah, GA (*Poster*)
313. Matusick*, G., Eckhardt, L.G., and Menard, R.D. 2008. Premature pine mortality, root-inhabiting bark beetles and blue-stain fungi. Southeastern Society of American Foresters Annual Meeting, Calloway Gardens, GA (*Poster*)
314. Menard, R.D. and Eckhardt, L.G. 2007. Pine decline in the southeastern United States and the involvement of bark beetles and Ophiostomatoid fungi. Western Gulf Forest Pest Management Cooperative Contact Meeting, Natchitoches, LA
315. Eckhardt, L.G. 2007. Complex insect-pathogen interactions associated with static and dynamic stressors involved in forest management. Department of Plant Pathology and Entomology, Mississippi State University, Starkville, MS (**Invited**)
316. Eckhardt, L.G. 2007. Identification and characterization of root infecting fungi and their vectors involved in root disease and decline of *Pinus* spp. in the southern United States. Auburn University, Auburn, AL (**Invited**)
317. Menard, R., Eckhardt, L., and Hess, N., 2007. Assessment of loblolly Pine on Fort Benning Military Reservation, Fort Benning, Georgia. Thirteenth Biennial Southern Silvicultural Research Conference, Athens, GA
318. Matusick*, G., and Eckhardt, L.G. 2007. Pathogenicity of *Leptographium* species to longleaf pine. Southern Appalachian Forest Entomologist/Pathologist Seminar. Crossnore, NC.
319. Eckhardt, L.G., Zanzot, J., and Matusick, G. 2007. Longleaf management, prescribed fire, and RCW habitat at Fort Benning GA. First Annual Site Management for RCW and Forest Health Impacts Conference, Pineville, LA (**Invited**)
320. Zanzot*, J.W., and Eckhardt, L.G. 2007. Seasonal variation in capture of root-feeding insects in longleaf pine stands at Fort Benning Georgia. Southeastern Society of American Foresters Annual Meeting, Destin, FL (*Poster*)
321. Matusick*, G., Eckhardt, L.G., and Menard, R.D. 2007. The pathogenicity of four *Leptographium* species to mature loblolly and longleaf pine roots. Southeastern Society of American Foresters Annual Meeting, Destin, FL (*Poster*)
322. Eckhardt, L.G. 2006. How to work with the US Forest Service and National Forest System: A collaborators point of view. Forest field tour for scientist and potential collaborators at the Oakmulgee Ranger District, Talladega National Forest, Tuscaloosa, AL at the request of the District Ranger. (**Invited**)

323. Eckhardt, L.G. 2006. *Leptographium* and pine decline: what to look for. Forestry Workshop, Bender Demonstration Forest, Juliette, GA (**Invited**)
324. Eckhardt, L.G. and Menard, R.D. 2006. Loblolly pine decline, root feeding bark beetle vectors and disturbances in loblolly and longleaf pine. Public meeting presentation at the Oakmulgee Ranger District, Talladega National Forest, Tuscaloosa, AL at the request of the District Ranger (**Invited**)
325. Eckhardt, L.G. 2006. Pine decline, management, and military training. SERO Forestry Workshop, Fort Bragg Army Base, Fayetteville, NC (**Invited**)
326. Hess, N.J., Menard, R.D. and Eckhardt, L.G. 2006. Assessment of loblolly pine decline and site conditions on Fort Benning Military Reservation, GA. Northeast and South-wide Forest Disease Workshop, Caanan Valley, WV
327. Carter, E.A., Hess, N.J., Goddard, A., Eckhardt, L.G. and Jones, J.P. 2006. Soil characteristics of loblolly decline sites in central Alabama. Northeast and South-wide Forest Disease Workshop, Caanan Valley, WV
328. Matusick*, G., Eckhardt, L.G., and Enebak, S.A. 2006. Pathogenicity of *Leptographium serpens* to longleaf pine. Sixth Longleaf Alliance Regional Conference, Tifton, GA (*Poster*)
329. Eckhardt, L.G. 2005. *Leptographium* species: Tree pathogens and agents of blue stain and their bark beetle associates. Special 8 hour symposium given for the Clemson Extension Service, Orangeburg, SC (**Invited**)
330. Eckhardt, L.G., Menard, R.D., Hess, N.J. and Carter, E.A. 2005. Loblolly pine decline on longleaf sites caused by root pathogens. 2nd Mountain Longleaf Pine Workshop, Mount Berry, GA (**Invited**)
331. Eckhardt, L.G. 2005. *Leptographium* species: tree pathogens and agents of blue-stain and their bark beetle associates. Alien Invaders in our Forests and Watersheds Symposium. Columbus State University, Columbus, GA (**Invited**)
332. Eckhardt, L.G. 2005. Complex pathogen-insect interactions associated with static and dynamic stressors involved in forest management. Department of Environmental Sciences and Forest Biology, State University of New York, Syracuse, NY (**Invited**)
333. Eckhardt, L.G. 2005. Complex insect-pathogen interactions associated with static and dynamic stressors involved in forest management. Yale School of Forestry, Yale University, New Haven, CT (**Invited**)

334. Eckhardt, L.G. 2005. Complex pathogen-insect interactions associated with static and dynamic stressors involved in forest management. Auburn School of Forestry, Auburn University, Auburn, AL (**Invited**)
335. Eckhardt, L.G., Menard, R.D., Hess, N.J., and Jones, J.P. 2005. *Leptographium* species and southern pine decline. South-wide Forest Disease Workshop, Baton Rouge, LA
336. Hess, N.J., Eckhardt, L.G., Menard, R.D., and Jones, J.P. 2005. Monitoring *Leptographium* species and pine decline in the western zone of the southern region. South-wide Forest Disease Workshop, Baton Rouge, LA
337. Menard, R.D., Eckhardt, L.G., and Jones, J.P. 2005. Assessment of loblolly pine decline risk mapping system on Fort Benning military installation Ft. Benning Georgia. South-wide Forest Disease Workshop, Baton Rouge, LA
338. Eckhardt, L.G. and Menard, R.D. 2005. Validating a methodology for evaluation southern pine beetle hazard applying southern pine decline hazard at the landscape level. South-wide Forest Disease Workshop, Baton Rouge, LA (*Poster*)
339. Eckhardt, L.G. and Menard, R.D. 2005. The use of GIS and topographical features to delineate southern pine decline in the southeastern United States. South-wide Forest Disease Workshop, Baton Rouge, LA (*Poster*)
340. Eckhardt, L.G. and Menard, R.D. 2005. Actively managing real & potential loblolly pine decline stands targeted for longleaf restoration within RCW habitat. South-wide Forest Disease Workshop, Baton Rouge, LA (*Poster*)
341. Walkinshaw, C.H., Eckhardt, L.G., Hess, N.J., and Otrosina, W.J. 2005. Necrosis of resin ducts in roots of loblolly pines in decline. South-wide Forest Disease Workshop, Baton Rouge, LA (*Poster*)
342. Carter, E.A., Hess, N.J., Goddard, A.J., Eckhardt, L.G., and Jones, J.P. 2005. Soil characteristics of loblolly decline sites in central Alabama. South-wide Forest Disease Workshop, Baton Rouge, LA (*Poster*)
343. Eckhardt, L.G. and Menard, R.D. 2005. Actively managing real & potential loblolly pine decline stands targeted for longleaf restoration within RCW habitat. Fifth Longleaf Alliance Regional Conference, Hattiesburg, MS (*Poster*)
344. Eckhardt, L.G. and Menard, R.D. 2005. The use of GIS and topographical features to delineate southern pine decline in the southeastern United States. Fifth Longleaf Alliance Regional Conference, Hattiesburg, MS (*Poster*)

345. Eckhardt, L.G., Menard, R.D., Jones, J.P., and Hess, N.J. 2005. *Leptographium* species and their vectors as components of loblolly pine decline: a growing concern in the southeastern United States. Fifth Longleaf Alliance Regional Conference, Hattiesburg, MS (*Poster*)
346. Eckhardt, L.G. and Menard, R.D. 2005. Actively managing real & potential loblolly pine decline stands targeted for longleaf restoration within RCW habitat. Thirteenth Biennial Southern Silvicultural Research Conference, Memphis, TN (*Poster*)
347. Eckhardt, L.G., Menard, R.D., Jones, J.P., and Hess, N.J. 2005. *Leptographium* species and their vectors as components of loblolly pine decline: a growing concern in the southeastern United States. Thirteenth Biennial Southern Silvicultural Research Conference, Memphis, TN (*Poster*)
348. Eckhardt, L.G. and Menard, R.D. 2004. Loblolly pine decline, its risk map, and how to apply it in forest management. Presentation given to the U.S. Fish & Wildlife Service, Carolina Sandhills National Wildlife Refuge, McBee, SC (**Invited**)
349. Eckhardt, L.G. and Menard, R.D. 2004. Loblolly pine decline, its risk map, and how to apply it in forest management. Presentation given to the Forestry and Wildlife Management Branches, Fort Jackson Military Reservation, Fort Jackson, SC (**Invited**)
350. Eckhardt, L.G. and Menard, R.D. 2004. Loblolly pine decline, its risk map, and how to apply it in forest and endangered species management. Presentation given to the Talladega Ranger District, Talladega National Forest, Talladega, AL at the request of the District Ranger. (**Invited**)
351. Eckhardt, L.G. and Menard, R.D. 2004. Loblolly pine decline, its risk map, and how to apply it in forest and endangered species management. Presentation given to the Fish and Wildlife Service, Daphne, AL at the request of the Oakmulgee District Ranger. (**Invited**)
352. Eckhardt, L.G. and Menard, R.D. 2004. Loblolly pine decline, its risk map, and how to apply it in forest management. Presentation given to the Forestry and Wildlife Management Branches, Fort Benning Military Reservation, Columbus, GA (**Invited**)
353. Eckhardt, L.G. and Menard, R.D. 2004. The use of GIS and topographical features to delineate southern pine decline in the southeastern United States. 4th Southern Forestry and Natural Resources GIS Conference, Athens, GA (*Poster*)
354. Eckhardt, L.G. and Menard, R.D. 2004. Actively managing real & potential loblolly pine decline stands targeted for longleaf restoration within RCW habitat. 4th Southern Forestry and Natural Resources GIS Conference, Athens, GA (*Poster*)

355. Eckhardt, L.G., Menard, R.D., Jones, J.P., and Hess, N.J. 2004. *Leptographium* species and their vectors as components of loblolly pine decline: a growing concern in the southeastern United States. Fourth Longleaf Alliance Regional Conference, Hattiesburg, MS (*Poster*)
356. Eckhardt, L.G. and Menard, R.D. 2004. The use of GIS and topographical features to delineate southern pine decline in the southeastern united states. Fourth Longleaf Alliance Regional Conference, Hattiesburg, MS (*Poster*)
357. Eckhardt, L.G. and Menard, R.D. 2004. Actively managing real & potential loblolly pine decline stands targeted for longleaf restoration within RCW habitat. Fourth Longleaf Alliance Regional Conference, Hattiesburg, MS (*Poster*)
358. Eckhardt, L.G. and Menard, R.D. 2003. Loblolly pine decline, its risk map, and how to apply it in forest management. Presentation given to the Oakmulgee Ranger District, Talladega National Forest, Tuscaloosa, AL at the request of the District Ranger. (**Invited**)
359. Eckhardt, L.G., Menard, R.D., Jones, J.P., and Klepzig, K.D. 2003. Insect vectors of *Leptographium* species associated with loblolly pine decline. Thirtieth Anniversary East Texas Forest Entomology Seminar. Nacogdoches, TX (**Invited**)
360. Eckhardt, L.G. 2003. *Leptographium* species and their vectors as components of loblolly pine decline. Department of Plant Pathology and Crop Physiology, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, Baton Rouge, LA (Invited)
361. Eckhardt, L.G., Menard, R.D., and Jones, J.P. 2003. Loblolly pine decline, *Leptographium* spp. and root -feeding insects. Southern Forest Insect Work Conference, New Orleans, LA
362. Eckhardt, L.G., Menard, R.D., and Jones, J.P. 2003. The use of GIS and topographical features to delineate loblolly pine decline in central Alabama. South-wide Forest Disease Workshop, Asheville, NC
363. Eckhardt, L.G. and Menard, R.D. 2003. The use of ecological factors and GIS in the delineation of Loblolly pine decline in central Alabama. Twelfth Biennial Southern Silvicultural Research Conference, Biloxi, MS (*Poster*)
364. Eckhardt, L.G., Jones, J.P., Hess, N.J., Menard, R.D., and Carter, E.A. 2003. Loblolly pine decline, *Leptographium* spp. and root-feeding insects. Twelfth Biennial Southern Silvicultural Research Conference, Biloxi, MS (*Poster*)

365. Smith, M.O., Hess, N.J., Gulick, S., Eckhardt, L.G., and Menard, R.D. 2003. The use of hyperspectral imaging for forest health monitoring. Twelfth Biennial Southern Silvicultural Research Conference, Biloxi, MS (*Poster*)
366. Carter, E.A., Hess, N.J., Goddard, A.J., Otrrosina, W.J., Jones, J.P., Eckhardt, L.G., and Weber, A.M. 2003. Soil characteristics of loblolly pine decline sites in central Alabama. Twelfth Biennial Southern Silvicultural Research Conference, Biloxi, MS (*Poster*)
367. Eckhardt, L.G., Jones, J.P., and Hess, N.J., 2002. *Leptographium* species and their vectors as components of loblolly pine decline. Southwide Forest Disease Workshop, Daytona Beach, FL.
368. Eckhardt, L.G. 2002. Loblolly Pine Decline, *Leptographium* spp. and Root -Feeding Insects. Department of Entomology, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, Baton Rouge, LA (**Invited**)
369. Eckhardt, L.G. and Hess, N.J. 2002. Loblolly pine decline and the advantages of risk mapping in Central Alabama. Public meeting presentation at the Oakmulgee Ranger District, Talladega National Forest, Tuscaloosa, AL at the request of the District Ranger. (**Invited**)
370. Eckhardt, L.G., Jones, J.P., and Hess, N.J. 2002. *Leptographium* species and their vectors as components of loblolly pine decline. Louisiana State University, Graduate Student Association Annual Intellectual Gumbo Poster Symposium, Baton Rouge, LA (*Poster*)
371. Eckhardt, L.G., Jones, J.P., and Hess, N.J. 2001. Ecological implications of insects, fungi and vegetation density in loblolly stands. Southern Forest Insect Work Conference, Jekyll Island, GA (**Invited**)
372. Bauman T.A., Eckhardt, L.G., Goyer, R.A., and Klepzig, K.D. 2000. Interactions of fire, insects and root pathogens in longleaf pine. Third Longleaf Alliance Regional Conference, Alexandria, LA (*Poster*)
373. Eckhardt, L.G. and Culver, J.N. 1999. Regions of the tobacco mosaic tobamovirus replicase gene that mediate resistance. Department of Plant Pathology and Crop Physiology, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, Baton Rouge, LA (**Invited**)
374. Eckhardt, L.G. and Culver, J.N. 1998. Regions of the tobacco mosaic tobamovirus replicase gene that mediate resistance. Center for Agricultural Biotechnology, College Park, MD (**Invited**)

375. Eckhardt, L.G. and Culver, J.N. 1997. Virus disassembly: importance of coat protein-RNA interactions. Howard Hughes Medical Institute Undergraduate Research Fellowship Poster Session, College Park, MD (*Poster*)