

Name: David Robert Coyle

Rank: Associate Professor

Appointment: 100% Extension

Department/School: Department of Forestry and Environmental Conservation, Clemson University

Date of Employment: 1 August 2018

Date of Promotions: 1 July 2024

Date Tenure Awarded: 1 July 2024

Earned Degrees:

Ph.D., University of Wisconsin-Madison, 2011, Entomology
M.S., Iowa State University, 2000, Entomology and Forestry
B.A., Luther College, Biology, 1997

Other Relevant Employment:

Adjunct Faculty, College of Charleston Biology Department, 2020-present
Adjunct Faculty, University of Georgia D.B. Warnell School of Forestry and Natural Resources, 2018-present
Affiliate Faculty, University of Florida School of Forest Resources and Conservation, 2018-present
Forest Health Extension Associate, Southern Regional Extension Forestry, 2015-2018
Postdoctoral Research Associate, University of Georgia D.B. Warnell School of Forestry and Natural Resources, 2011-2015
Research Associate and Independent Contractor, USDA Forest Service Northern Research Station, 2009-2012
Research Associate and Independent Contractor, Centers for Disease Control and Prevention, 2009-2010
Biological Research Technician, USDA Forest Service Southern Research Station, 2000-2004

Description of Current Duties: I am an Extension Specialist that provides forest and tree health and invasive species education and expertise to landowners and professionals in South Carolina and across the southeastern U.S. I communicate via in-person, electronic, and written methods, including traditional means (e.g., site visits, workshops, fact sheets) and novel methods (e.g., social media). I assist County Extension Agents with their duties and training and work with the media when necessary.

Distribution of Effort for Past Five (5) Years: no information available

Teaching Activities

Guest lectures

Future of Forest Health Seminar Series (University of Florida, Spring 2024)
Seminar in Forest Ecosystem Health and Stability in a Changing Environment (Yale University, Spring 2024)
Forest Health and Protection (NC State University, Fall 2023, Fall 2022, Fall 2021, Fall 2020, Fall 2019, Spring 2018)
Ecological and Integrated Pest Management (Washington State University, Fall 2023)
Forest Ecology (Furman University, Spring 2022, Fall 2023)
Forest Protection (Clemson University, Fall 2022 lab, 2 sections; Fall 2023)
Invasion Ecology (Auburn University, Spring 2022, Spring 2023)
Principles of Insect Ecology (Clemson University, Fall 2022, lecture and lab)
Phytobiome & Microbiome mini-symposium (University of Helsinki, Fall 2022)
Seminar in Forest Ecosystem Health and Stability in a Changing Environment (Yale University, Spring 2022)
Forest Pest Management (Mississippi State University, Fall 2021)
Forest Entomology (NC State University, Spring 2021)
Forest Pest Management (West Virginia University, Spring 2021)
Invasion Ecology (Clemson University, Spring 2020, 2 classes; Spring 2021)
Forest Ecosystem Health (University of Florida, Fall 2020)
Professional Development (Clemson University, Fall 2020)
Introduction to Forestry (Clemson University, Spring 2020, Spring 2019)
Forest Insects and Diseases (University of Tennessee, Fall 2019)
Integrated Forest Pest Management (Clemson University, Fall 2019 lab, 2 sections; Fall 2018 lab)
Clemson Experimental Forest Specialized Honors Seminar (Clemson University, Fall 2019, Fall 2018)
Ecology (Georgia College and State University, Spring 2019)
Endangered Species Ecology (Georgia College and State University, Spring 2019)
Forest Resource Economics (Clemson University, Fall 2018)
Forest Resource Economics (Clemson University, Fall 2018)
Science Communication (Purdue University, Fall 2018)
Integrated Forest Pest Management (Clemson University, Fall 2018)
Natural Resource Management for Teachers (UGA, Spring 2018, Spring 2016)
Forest Health (University of Florida, Spring 2017)
Urban Tree Management (UGA, Spring 2017)
Forest Pest Management (UGA, Spring 2015)
Advanced Forest Entomology (UGA, Fall 2014, Fall 2012)
Ecology of Natural Resources (UGA, Fall 2011)

Advising

Undergraduates

Will Schepfer, College of Charleston: Asian longhorned beetle research, 2024
Millar Elferdink, College of Charleston: Asian longhorned beetle outreach, 2022-2023
Brayden Williams, Clemson University: impact of fire on Callery pear thorn strength, 2019-2020

Courtney Brissey, B.S., University of Georgia: woodboring beetles in the Appalachian Mountains; named one of the 2013 UGA Student Employees of the Year, won 1st prize poster at 2012 Warnell Graduate Student Symposium
Seven additional high school or undergraduate mentees from 2002-2012 and 2020-present

Master graduates

Marina Lupu, M.S., Clemson University, “An Evaluation of Potential Biocontrol Agents for *Anoplophora glabripennis* (Coleoptera: Cerambycidae) in South Carolina, U.S.A.”, May 2024

Lena Schmitt, M.S., Clemson University, “Phenology of Asian longhorned beetle (*Anoplophora glabripennis*, Coleoptera: Cerambycidae) in South Carolina, U.S.A.”, August 2021 – December 2023

Meredith Bean, M.S., Clemson University, “If you give a beetle a maple: population dynamics of the Asian longhorned beetle on an island in South Carolina”, August 2020 – December 2022

Angelica Solano, M.S., Clemson University, “The danger within: implications of firewood transport in invasive forest insect and disease spread”, January 2020 – December 2021 (co-advisor with S. Rodriguez)

Doctoral graduates: no information available

Current graduate advising:

Lindsey Stone, M.S., Clemson University, August 2023 – ongoing

Samantha Kennett, Ph.D., Clemson University, August 2023 - ongoing

Steven Long, Ph.D., Clemson University, January 2021 – ongoing

Post-doctoral research advisees:

Dr. Angela Chuang, Clemson University, March 2024 – present (co-advised with J. Hartshorn)

Dr. Ethan Doherty, Clemson University, January 2024 – present (co-advised with K. Cook)

Dr. Renee Holland, Clemson University, January–March 2022 (co-advised with J. Hartshorn)

Dr. Molly Darr, Clemson University, October 2018 – July 2022

Graduate committees:

Courtney Johnson, PhD., NC State University, June 2023 – ongoing

Kristin Hillborn, PhD., NC State University, January 2022 – ongoing

Alina Pokhrel, M.S., University of Tennessee, September 2022 – ongoing

Prabina Sharma, M.S., Clemson University, “Study of morphological and physiological properties and pollinators of the invasive Callery pear”, August 2021 – August 2023

Sara Lalk, Ph.D., Clemson University, August 2020 – April 2023 (withdrew)

Crystal Strickland, M.S., Clemson University, “Assessing recreational user impacts, motivations, and knowledge on the spread of invasive plant species in a managed, multiple-use, forest ecosystem”, May 2019 – May 2023

Abby Ratcliff, M.S., NC State University, “Analysis of alternative control methods for the eradication of the Asian longhorned beetle (*Anoplophora glabripennis* Motschulsky) in infested bottomland sites of Charleston, South Carolina”, January 2021 – December 2022

Grace Nuttle, M.S., Clemson University, September 2020 – September 2022 (withdrew)

Shiwani Sapkota, M.S., University of Tennessee, “Understanding the genetic diversity of the invasive Callery pear, *Pyrus calleryana* Decne. in native and introduced ranges of the U.S. using microsatellite loci”, October 2019 – December 2021

Fabian Bonilla, M.S., Clemson University, “Distribution and genomic diversity of pollen-borne viruses and viroids at the interface of peach and wild *Prunus* spp. in the southeastern United States”, November 2020 – May 2022

Trisha Markus, M.F.R., Clemson University, “Seasonal light response curves of *Ligustrum sinense*: a test of extended leaf phenology”, 2021

Ryan Rastok, PhD., Kansas State University, January 2019 – December 2020 (withdrew)

Calvin Norman, M.S., Clemson University, “Long-term trial of various controls for Chinese tallow”, 2020

Ansley Silva, M.S., University of Georgia, “Impacts of soil pollutants on terrestrial insect decomposition communities”, 2016

Ashley Schulz, M.S., University of Georgia, “Insights into a novel white pine scale/pathogen complex”, 2015

Sander Denham, M.S., NC State University, “Impacts of bark beetle attack on pine defense responses”, 2014

Technicians:

Caleb Davis, B.A., April 2024 – ongoing

Jordan Bailey, M.S., January 2023 – ongoing

Katy Crout, M.S., August 2021 – ongoing

Crystal Bishop, M.S., November 2022 – December 2023

Robert Ritger, B.A., January 2021 – September 2022

Alex Helman, M.S., May 2021 – October 2021

Student clubs: no information available

Sponsored Research and Extension Projects

Funded Projects

USFS – International Programs. 2024-2025. \$165,000. Creation and execution of a global Asian longhorned beetle summit. PI: Coyle, D.R.

USDA NRCS South Carolina. 2024-2027. \$406,195. Developing management strategies for invasive bamboo in forest systems. PIs Coyle, D.R., J. Steele, and M. Marshall.

USFS Special Technology Development Program. 2024-2026. \$252,634. Incorporating fire as a management tool for the invasive Callery pear (*Pyrus calleryana*). PIs: Coyle, D. and E. Poole.

USDA APHIS. 2024-2025. \$56,380. Invasive species in the eastern U.S.: a video series. PIs: Coyle, D.R., K.L.F. Oten, and K.A. Perry.

USFS BIL Grant Program. 2024-2027. \$302,433. A regional forest health and invasive species education program for the Southeast. PI: Coyle, D.R.

USFS BIL Grant Program. 2024-2027. \$300,000. A decision matrix for state agency response to non-native insects and pathogens. PIs: Hartshorn, J.A. and D.R. Coyle.

South Carolina Forestry Commission. 2023-2024. \$15,000. Replacement trees for ALB affected residents. PI: Coyle, D.R.

USDA Forest Service – Southern Region. 2023-2028. \$53,998. Southern pine beetle portal project. PI: Coyle, D.R.

USDA APHIS. 2023-2024. \$65,957. Southeastern Regional Forest Health and Invasive Species Education Program. PI: Coyle, D.R.

USDA APHIS. 2023. \$201,182. Asian longhorned beetle research support in South Carolina. PI: Coyle, D.R.

- USDA APHIS. 2023. \$98,611. Prediction and management models for the Asian longhorned beetle. PIs: Cook, K.J. and D.R. Coyle.
- USDA NIFA Hatch Multistate Program. 2022-2027. \$400,752. Forest health and resilience. PI: Coyle, D.
- USDA Forest Service. 2022-2025. \$68,150. Implementing a regional scale southern pine beetle (SPB) model for the southeastern United States. PIs: Song, B. and D. Coyle.
- USDA RREA Program. 2022-2024. \$94,930. Updating the 2018-2022 RREA Strategic Plan. PIs: Londo, A., J. Rumble, E. Sagor, W. Hubbard, D. Coyle, P. Smallidge, C. Norman, and L. Boby.
- USFS Special Technology Development Program. 2022-2024. \$169,738. A truck bed toolkit for the detection of invasive plant species. PIs: Coyle, D.R., M.N. Nowicki, D. Hadziabdic, and W. Klingeman.
- USDA PPA 7721. 2022-2023. \$97,688. Southeastern Regional Forest Health and Invasive Species Education Program. PI: Coyle, D.R.
- Clemson Extension Innovation Award. 2022-2024. \$15,000. Hybrid education program for novice foresters. PIs: Darr, M.N., J. Steele, P. Hiesl, and D. Coyle.
- Clemson Extension Innovation Award. 2022-2024. \$2,500. Expansion of the Bradford Pear Bounty Program to Underserved Communities. PI: Coyle, D.R.
- Clemson Extension Innovation Award. 2022-2024. \$2,500. Joro or No? Production of a Joro spider educational video. PI: Coyle, D.R.
- SFI Community Grant Program. 2022-2023. \$10,000. A pilot test of the urban forest standard at Clemson University. PIs: Coyle, D., N. Timilsina, P. Khanal, P. Russell, R. Hardee, and P. Layton.
- USDA APHIS. 2022. \$142,204. Asian longhorned beetle research support in South Carolina. PI: Coyle, D.R.
- USDA APHIS. 2022. \$70,480. Asian longhorned beetle management project. PIs: Oten, K.F. and D.R. Coyle.
- USDA APHIS. 2021-2022. \$60,585. Asian longhorned beetle population dynamics. PI: Coyle, D.R.
- USDA Forest Service Emerging Pests Program. 2021-2023. \$94,308. Assessing Asian longhorned beetle's impact on managed and natural southern forest ecosystems. PIs: Jenkins, D., D. Coyle, F. Koch, D. Nowak, C. Oswalt, S. Pfister, and R. Trotter, III.
- USDA Forest Service Landscape Scale Restoration Grant. 2021-2024. \$378,400. Enhanced Pear-spectives: Proactive sky-scouting to detect areas at high-risk from spread of invasive Callery pear. PIs: Hartshorn, J.A., D. Coyle, M. Nowicki, W. Klingeman, D. Hadziabdic Guerry, N. Loewenstein, and C. Bargeron.
- USDA PPA 7721. 2021-2022. \$81,220. Asian longhorned beetle educational program for South Carolina. PI: Coyle, D.R.
- USDA PPA 7721. 2021-2022. \$81,015. Southeastern Regional Forest Health and Invasive Species Education Program. PI: Coyle, D.R.
- USDA APHIS. 2021. \$88,836. Support for the Asian longhorned beetle research program in South Carolina. PI: Coyle, D.R.
- Sustainable Forestry Initiative Community Engagement Grant. 2021. \$5,000. The SC WOW network: using forestry and the natural resources to educate and empower women. PI: Coyle, D.R.

- USDA APHIS. 2021. \$71,344. Developing alternate management methods for Asian longhorned beetle in natural areas. PIs: Oten, K.F. and D.R. Coyle.
- USDA Forest Service FS-PIAP. 2020-2021. \$14,230. Herbicide efficacy for invasive Callery pear. PIs: Vogt, J.T. and D.R. Coyle.
- USDA Forest Service. 2020-2021. \$51,658. Asian longhorned beetle population dynamics in South Carolina. PI: Coyle, D.R.
- USDA Forest Service FS-EM. 2020-2021. \$15,000. Distribution and spread of the invasive callery pear into forests of the eastern United States. PIs: Hartshorn, J.A. and D.R. Coyle.
- USDA PPA 7721. 2020-2021. \$55,233. Southeastern Regional Forest Health and Invasive Species Education Program. PI: Coyle, D.R.
- USDA Forest Service – Southern Region. 2019-2022. \$63,031. Development of a regional southern pine beetle website. PI: Coyle, D.R.
- USDA Forest Service – Southern Region. 2019-2022. \$122,200. Response of Ips bark beetles to prescribed fire. PIs: Hartshorn, J., D. Coyle, W.C. Heaton, and D. Aubrey.
- USDA PPA 7721. 2019-2020. \$13,860. Forest pest outreach and education for underserved landowners. PI: Coyle, D.R.
- Longleaf Alliance. 2019-2020. \$2,750. Education and outreach to increase longleaf pine ecosystem restoration in SC. PI: Coyle, D.R.
- South Carolina Forestry Commission Grant. 2019-2020. \$10,000. Development of hemlock woolly adelgid educational materials. PI: Coyle, D.R.
- Sustainable Forestry Initiative Community Engagement Grant. 2019-2020. \$5,000. Establishment of a Women’s Forest Landowner Community in South Carolina. PIs: Steele, J.W. and D.R. Coyle.
- USDA RREA Competitive Grant Program. 2018-2020. \$50,000. Integrating established and novel strategies for forest health and invasive species education and extension programming in the Eastern U.S. PIs: Evans, C.W., D.R. Coyle, and J. Hulcr.
- Sustainable Forestry Initiative. 2018-2019. \$5,000. Tangled title and timber: A continuing education webinar on heirs property in Georgia. PIs: Porter, D., C. Cook, and D. Coyle.
- USDA Forest Service, Southern Region LSR Competitive Grant Program. 2017-2019. \$369,000. Development of a regional forest health and invasive species training and education program. PI: Coyle, D.R.
- Extension Innovation Award, University of Georgia. 2017-2018. \$7,760. Georgia Landowner Academy: opportunities for Heir’s Property Landowners in Georgia. PIs: Li, Y., D.R. Coyle, and J.L. Morgan.
- USDA Forest Service, National Climate Center. 2017-2018. \$50,000. Don’t fear the fire: An education initiative for prescribed burning after drought. PIs: O’Brien, J., B. Hornsby, L. Bobby, W. Hubbard, and D. Coyle.
- USDA Forest Service, Southern Research Station. 2016-2017. \$50,000. Extension and technology transfer tools in support of the USDA Southeast Regional Climate Hub. PIs: Coyle, D.R. and W. G. Hubbard.
- USDA Forest Service – R8 FHP. 2015-2016. \$120,000. Developing a regional forest health and invasive species outreach program. PIs: Coyle, D.R. and W. G. Hubbard.
- USDA Forest Service-Savannah River. 2013-2015. \$23,838. Completion of data analysis and publication of manuscripts on optimal nutrition, nutrient efficiency, and production of short-rotation woody crops for bioenergy. PIs: Coyle, D.R. and K.J.K. Gandhi.

- USDA Forest Service, Southern Research Station. 2011-2013. \$158,266. Extent, severity, and types of threats to the health and resiliency of pine forests in the South. PI: Gandhi, K.J.K. *D.R. Coyle was a major contributor in project design, development, and writing, but was unable to be listed as a PI due to University regulations.
- USDA Forest Service, Forest Health and Protection. 2010-2012. \$179,000. Southern pine beetle: evaluation of current prevention and management practices, and population levels in southeastern forests. PI: Gandhi, K.J.K. *D.R. Coyle was a major contributor in project design, development, and writing, but was unable to be listed as a PI due to University regulations.
- Centers for Disease Control and Prevention. 2009-2010. \$112,860. Evaluating impacts of environmental precursors on the abundance and distribution of Lyme disease vectors. PIs: Coyle, D.R., M.W. Murphy, S.M. Paskewitz, and K.F. Raffa.
- British Ecological Society – Small Ecological Project Grant. 2009. \$3,856. Does mother know best? How does feeding legacy and leaf chemistry affect vine weevil feeding and oviposition choices. PI: Coyle, D.R.
- USDA Forest Service Northern Research Station, Climate Change Research Council. 2009-2010. \$60,000. Carbon Sequestration Potential of Poplar Energy Crops at Regional Scales. PI: Zalesny, R.S. Co-PIs: D.M. Donner, D.R. Coyle.
- Wisconsin Focus on Energy Environmental and Economic Research and Development Program. 2009-2012. \$169,020. Land-use, soil health, and water quality changes with woody energy crop production in Wisconsin and Minnesota. PIs: Zalesny, R.S. Jr., D.M. Donner, D.R. Coyle, B.R. Sturtevant, E.J. Gustafson, N.D. Nelson, and D.E. Riemenschneider.
- Wisconsin Focus on Energy Environmental and Economic Research and Development Program. 2009-2012. \$144,155. Impacts of harvesting woody biomass on nutrient cycling and biodiversity in northern hardwoods. PIs: Donner, D.M., M. St. Pierre, R.S. Zalesny Jr., C.A. Ribic, D.R. Coyle, and D. Eklund.
- EPA STAR Fellowship. 2006-2009. \$111,516. The effect of above and belowground herbivory by invasive weevils on forest dynamics: effects on individual tree and forest community survival, growth, biomass and nutrient partitioning, and productivity. PI: Coyle, D.R.
- Applied Ecological Services. 2006-2009. \$7,500. Above and belowground herbivory by invasive weevils on forest trees: effects on survival, productivity, nutrient allocation, and forest community composition. PI: Coyle, D.R.

Contracts awarded

- Longleaf Alliance. 2020-2021. \$2,750. Education and outreach to increase longleaf pine ecosystem restoration in SC. PI: Coyle, D.R.
- University of Florida, School of Forest and Resource Conservation. 2017. \$5,000. Development of an online Forest and Tree Health Diagnostic program for the Southeast. PI: Coyle, D.R.
- University of Florida, School of Forest and Resource Conservation. 2016. \$3,000. Development of an online Forest and Tree Health Diagnostic program for the Southeast. PI: Coyle, D.R.

Tennessee Department of Agriculture, Division of Forestry. 2016. \$9,999. Development and implementation of a survey to evaluate the efficacy of the Don't Move Firewood outreach campaign. PI: Coyle, D.R.

Projects not funded

USDA NIFA AFRI. 2024-2027. \$749,295. Predicting threats to coastal forest ecosystems from an emergent pest. PIs: Ward, S.F., J.C. Couture, and D.R. Coyle.

U.S. Department of Transportation RCN NOFO. \$50,000,000. RELEAF-10: Roadside Environmental Landscaping for Equity, Access, and our Future. Yeager, R., M.H.E.M. Browning, D. Coyle, et al.

USDA Forest Service Urban and Community Forestry – Inflation Reduction Act. 2024-2029. \$50,000,000. Nature1: Urban forestry for the 1% most vulnerable communities across the country. Yeager, R., M.H.E.M. Browning, D. Coyle, et al.

USFS Biocontrol of Invasive Forest Pests. 2023-2026. \$133,131. Biocontrol of Asian longhorned beetle using native parasitoids. PIs: Coyle, D.R. and K.F. Oten.

USDA NIFA Tactical Sciences for Agricultural Biosecurity program. 2023-2026. \$420,009. Utilizing multi-scale remote sensing and micro-infestations to increase understanding and efficiency of bark beetle dynamics and management. PIs: Kimsey, M.J., S. Cook, R. Brooks, J. Couture, A. Singh, and D. Coyle.

National Science Foundation – National Artificial Intelligence (AI) Research Institutes Accelerating. 2023-2028. \$20,000,000. AI for climate-smart agriculture and forestry. PIs: Luo, F., G. Wang, D. Coyle, M. Ashton, M. Bradford, S. McNulty, R. Kumar, J. Yang, N. Liu, C. Jiang, D. Terzopoulos, P. Dames, J. Liang, K. Rhinehardt, N. Pederson, and L. Zhao, T. O'Halloran, P. Hiesl, P. Khanal, V. Samadi, M. Motallebi, C. Oswalt, K. Riley, and C. Woodall.

USDA Forest Service Special Technology Development Program. 2023-2026. \$167,331. AcreSaver: a tool to calculate resource savings and improve early detection through responsible invasive plant management and prediction. PIs: Zhang, B., L. Zhai, and D.R. Coyle.

USDA Forest Service Special Technology Development Program. 2023-2025. \$39,976. Assessing Asian longhorned beetle impacts to improve survey efficiency. PIs: Oten, K.F., D.R. Coyle, and R.T. Trotter.

USFS Environmental Monitoring Program. 2022-2025. \$281,776. A range-wide evaluation on the growth and health of Chinese tallow (*Triadica sebifera*) and co-occurring native trees. PIs: Jenkins, D, G. Wang, L. Pile, D. Coyle, R. Olatinwo, and L. Gonzalez.

USFS Biocontrol of Invasive Forest Pests. 2022-2025. \$87,614. Biocontrol of Asian longhorned beetle using native parasitoids. PIs: Coyle, D.R., K.F. Oten, and S. Pfister.

USFS Special Technology Development Program. 2022-2025. \$246,336. Effects of traditional forest management on the growth and spread of the invasive Callery pear. PIs: Hartshorn, J., D. Coyle, and D. Clabo.

USDA NIFA. 2021-2024. \$1,499,948. Promoting climate-smart and resilient forestry in the southeastern United States. PIs: Khanal, P., D. Coyle, S. Van Bloem, R. Parajuli, A. Maggard, D. Dickens, D. Clabo, S. McNulty, and K. Naka.

USDA NIFA AFRI. 2022-2024. \$387,686. Seeing the forest for the bees: Effects of invasive trees on pollinator health. PIs: Hartshorn, J.A., D.R. Coyle, and R.E. Mallinger.

- USDA NIFA SCRI. DDDD: Defense against *Discula destructiva* in dogwoods. 2021-2024. \$573,087. PIs: Nowicki, M., R.N. Trigiano, M.E. Staton, D. Hadziabdic, K.D. Gwinn, W.E. Klingeman, D.R. Coyle, and T.J. Molnar.
- USDA NIFA SCRI. The Christmas tree genome project. 2021-2025. \$3,678,403. PIs: Whitehill, J.G., R.W. Whetten, G. Chastagner, J.L. Wegrzyn, C. Sims, B. Cregg, M. Sakalidis, D. Coyle, and P. Zerbe.
- USDA Forest Service Emerging Pests Program. 2021-2023. \$79,024. Potential impacts of spotted lanternfly on southern woody species. PIs: Jenkins, D., J. Hartshorn, M. Keena, and D. Coyle.
- USDA Forest Service FS-EM. 2022-2024. \$164,988. Potential impacts of Asian longhorned beetle host mortality on southern forest ecosystems. PIs: Coyle, D., F. Koch, D. Nowak, and C. Oswalt.
- USDA Forest Service FS-EM. 2022-2024. \$124,932. Spread dynamics of the invasive Callery pear into forests of the eastern United States. PIs: Hartshorn, J.A. and D.R. Coyle.
- USDA Forest Service Special Technology Development Program. 2022-2024. \$159,793. Developing an Asian longhorned beetle phenology model and map for the southern U.S. PIs: Coyle, D.R. and R.T. Trotter, III.
- TREE Fund. 2021-2022. \$36,596. Determining Asian longhorned beetle phenology in South Carolina and implications for the Southeast. PIs: Coyle, D.R. and R.T. Trotter, III.
- USDA Forest Service Special Technology Development Program. 2022-2024. \$244,257. AcreSaver: a tool to calculate resource savings through responsible invasive plant management. PIs: Zhang, B., L. Zhai, and D.R. Coyle.
- USDA NIFA. 2021-2025. \$999,537. Utilizing multi-scale remote sensing to increase understanding and efficiency of bark beetle dynamics and management. PIs: Couture, J.C., D.R. Coyle, A. Singh, M. Crawford, E. Barnes, and M.D. Ginzel.
- USDA NIFA. 2020-2023. \$496,042. Seeing the forest for the bees: Effects of invasive trees on pollinator health. PIs: Hartshorn, J.A., D.R. Coyle, R.E. Mallinger, and R.E. Irwin.
- USDA NIFA. 2020-2023. \$500,000. A quantitative framework to incorporate biophysics as an ecosystem service: field measurements and model development in forestry and bioenergy crops (resubmission). PIs: O'Halloran, T.L., R.Q. Thomas, B. Brinkman, R.M. Bright, D.R. Coyle, and L. Powell.
- USDA RREA. 2020-2022. \$100,000. Contemporary film and its assessment as a vehicle for forest health extension programming. PIs: Hulcr, J., S. Tobing, and D.R. Coyle.
- USDA RREA. 2020-2022. \$99,998. Advancing and improving forest health extension programming to increase engagement with new and underserved forest landowners in the Southeast. PIs: Coyle, D.R., M.K. Clarke, E.V. Crocker, and C.W. Evans.
- USDA PPA 7721. 2020-2021. \$130,061. NAISMA Online Invasive Species Management Program Expansion. PI: Coyle, D.R.
- USDA NIFA. 2019-2022. \$122,274. Evaluating impacts of climate change on control of Nantucket pine tip moth, an important pest of commercial pine seedlings. PIs: Hartshorn, J.A. and D.R. Coyle.
- USDA NIFA. 2019-2022. \$500,000. A Quantitative Framework to Incorporate Biophysics as an Ecosystem Service: Field Measurements and Model Development in Forestry and Bioenergy Crops (resubmission). PIs: O'Halloran, T.L., R.Q. Thomas, D. Coyle, and R. Bright.

- Southern IPM Center. 2020-2021. \$29,347. Reassessing Treatment Guidelines for the Nantucket Pine Tip Moth, an Important Forest Pest in the Southeast. PIs: Hartshorn, J.A. and D.R. Coyle.
- USDA PPA 7721. 2020-2021. \$18,959. South Carolina Women Owning Woodlands Program Expansion. PI: Coyle, D.R.
- Southern IPM Center. 2020-2022. \$29,733. Reassessing treatment guidelines for the Nantucket pine tip moth, an important forest pest in the Southeast. PIs: Hartshorn, J.A. and D.R. Coyle.
- USDA Forest Service, Southern Region LSR Competitive Grant Program. 2019-2021. \$434,109. Community engagement enhances municipal tree canopy coverage: Tools for southeastern communities. PIs: Rieske-Kinney, L., M. Arthur, and D.R. Coyle.
- Southern IPM Center. 2019-2021. \$29,733. Reassessing treatment guidelines for the Nantucket pine tip moth, an important forest pest in the Southeast. PIs: Hartshorn, J.A. and D.R. Coyle.
- Southern Region Small Fruit Consortium. 2019-2020. \$4,908. Development of spotted lanternfly education materials for the southeastern U.S. PI: Coyle, D.R.
- Southern IPM Center Enhancement Grant Program. 2017. \$29,930. Evaluation of Agriculture and Natural Resource Agent forest health knowledge limitations to facilitate effective forest health IPM Extension efforts in the Southern Region. PIs: Benton, E., D. Coyle, and M. Newberry.
- USDA NIFA Capacity Building Grants for Non-Land Grant Colleges of Agriculture (NLGCA). 2016. \$745,828. Kentucky forest health research and education initiative. PIs: Richter, S., L. Dodd, E. Crocker, T. Dreaden, D. Coyle, S. Workman, and W. Hubbard.
- USDA NIFA Managed Ecosystems. 2007. \$183,600. Root herbivory by invasive weevils: Effects on tree growth, health, and nutrient cycling. PIs: Raffa, K., W. Mattson, and A. Friend. *D. Coyle was a major contributor in project design, development, and writing, but was unable to be listed as a PI due to University regulations.

Proposals submitted

- USDA NRCS South Carolina. 2024-2027. \$406,195. Developing management strategies for invasive bamboo in forest systems. PIs Coyle, D.R., J. Steele, and M. Marshall.

Gifts

- Rainbow Treecare, Inc. 2021. \$6,000 for research support.
- Rainbow Treecare, Inc. 2020. \$4,000 for research support.
- Rainbow Treecare, Inc. 2019. \$4,000 for research support.

Scholarship Record

Publications

Refereed journal article citations (^G indicates Graduate student co-author, ^U denotes Undergraduate student co-author)

- Ulyshen, M., S. Horn, D. Aubrey, E.R. Hoebeke, and D.R. Coyle. 2024. Effects of Eucalyptus wood and leaf litter on saproxylic insects in the southeastern United States. *Sci. Rep.* 14, 10641, <https://doi.org/10.1038/s41598-024-61193-1>.
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<https://www.wltx.com/article/news/local/bradford-pear-tree-exchange-lexington-county/101-175b1770-1b6e-4167-a762-ba2aab143f9c>

Interview with Laura Bliss on Joro spiders, 28 and 30 October 2022.

Interview (email) with Good Housekeeping magazine on spotted lanternfly, 7 September

2022: <https://www.goodhousekeeping.com/home/a41137101/what-kills-lanternfly-bugs-how-to-remove/>

TV Interview with Zach Prelutsky, Fox Carolina, 7 September 2022:

<https://www.foxcarolina.com/2022/09/08/parachuting-spiders-found-upstate/> and <https://www.wrdw.com/2022/09/08/parachuting-spiders-found-upstate/>

TV: Joro spiders with Ranger Nick, 18 August 2022, Farm Monitor TV:

<https://www.youtube.com/watch?v=xScN3t2hY6c>

Interview with David Slade, Charleston Post & Courier, about Bradford/Callery pears, 15 August 2022: https://www.postandcourier.com/features/commonplace-bradford-pear-trees-now-seen-as-an-attractive-menace/article_bdf8b186-1378-11ed-981f-a73be6cbbb95.html

- TV Interview with Rachel Ripp, WLTX, about Joro spiders, 2 August 2022:
<https://www.wltx.com/article/news/local/joro-spider-research-happening-now-in-the-midlands-south-carolina/101-478ac78d-4c16-4e64-b485-7e9411de544e>
- Created 1-page flyer for SC State Parks about spotted lanternfly.
- Phone call with Jane Robelot, WYFF, about Joro spiders:
<https://www.wyff4.com/article/joro-spiders-south-carolina/40676999>
- Interview with Darcie Goodwin, College of Charleston, on the ALB collaboration between Clemson and C of C, 11 July 2022: <https://today.cofc.edu/2022/07/11/cofc-clemson-join-forces-to-eradicate-the-asian-longhorned-beetle/>
- Interview with Zharia Jeffries, The Post and Courier, about Asian longhorned ticks, 8 July 2022: https://www.postandcourier.com/health/invasive-tick-species-found-on-sc-farm-heres-what-you-need-to-know-about-them/article_d3405710-fed8-11ec-8caf-23011553a7d8.html
- Interview with Ashley Frasca (WSB Radio) for the Green and Growing Show, on Father's Day gift ideas for gardeners, 11 June 2022: <https://www.wsbradio.com/on-demand/green-growing-podcast/>
- TV Interview with Tresia Bowles, Fox Carolina, on Bradford & Callery pear, 10 May 2022: <https://www.foxcarolina.com/2022/05/10/state-bradford-pear-tree-ban-what-does-this-mean-you/>
- Interview with Mike McMillan, Greenville Journal, on invasive species; article published on 5 May 2022: <https://greenvillejournal.com/community/these-invasive-species-can-wreak-all-kinds-of-havoc-on-sc-homes-gardens/>
- Interview with David Weintraub, Center for Cultural Preservation, for a documentary on forests, 2 May 2022. Movie entitled "Nature's Wisdom Through Native Eyes":
<https://saveculture.org/project/natures-wisdom-thru-native-eyes/>
- Interview with Janet McConnaughey with Associated Press on Callery pears; article published on 25 April 2022: <https://apnews.com/article/callery-pears-gardening-invasive-species-deb7fbf62ad685b5f56b7732e70f11e7>
- Email interview with Homes & Gardens magazine on poison ivy, 30 March 2022:
<https://www.homesandgardens.com/advice/how-to-get-rid-of-poison-ivy>
- TV Interview with Griffin Hardy, WYFF, about tree budbreak and phenology, 16 March 2022: <https://www.wyff4.com/article/upstate-trees-running-late-for-leaf-popping-this-spring/39472948#>
- Interview with Damian Dominguez, Index-Journal, about Bradford pear trees, 15 March 2022, vol. 103 no. 163, p. 1A & 4A: https://www.indexjournal.com/eedition/page-a1/page_fd58d6b7-281a-51f3-afca-f2ba3a545a20.html
- Consulted with and video used by The Today Show about Joro spiders, 10 March 2022:
<https://www.today.com/video/giant-joro-spiders-expected-to-invade-the-east-coast-this-spring-135031877879>
- TV Interview with Sophia Radebaugh on Joro spiders, WSPA, 10 March 2022:
https://www.wspa.com/news/invasive-spiders-spreading-in-the-southeast/?utm_source=wspa_app&utm_medium=social&utm_content=share-link
- Interview with Mark Kaufman on Joro spiders, Mashable, 9 March 2022:
<https://mashable.com/article/spider-joro-spread-us-parachute>

- Interview with Joe Hiti on Joro spiders, WWJ New Radio, 9 March 2022:
<https://www.audacy.com/wwjnewsradio/news/national/is-the-joro-spider-moving-to-the-east-coast>
- TV Interview with Mary Mays about Joro spiders, WKRN, 8 March 2022:
<https://www.wkrn.com/news/local-news/giant-joro-could-invasive-spider-species-spread-into-middle-tennessee/>
- Quotes used in article about Joro spiders in Smithsonian Magazine, 8 March 2022:
<https://www.smithsonianmag.com/smart-news/large-parachuting-spiders-could-soon-invade-the-east-coast-study-finds-180979694/>
- Interview with Kaelyn Cassidy about Bradford pear trees, Greenville News, 8 March 2022:
<https://www.greenvilleonline.com/story/news/local/south-carolina/2022/03/08/bradford-pear-tree-invasive-plant-south-carolina-replacement-program/9362620002/>
- TV Interview with Jarvis Robertson about household pests, WYFF, 7 March 2022:
<https://www.foxcarolina.com/2022/03/08/warmer-will-bring-creepy-crawlers-get-ready/>
- Interview with Lauren Pierce about Joro spiders, The Seneca Journal, 7 March 2022.
- TV Interview with Kristin Merkel about Joro spiders, WYFF, 4 March 2022. Posted to their Facebook page (<https://www.facebook.com/watch/?v=465517238651593&ref=sharing>) and broadcast on air: <https://www.wistv.com/2022/03/07/these-are-not-spiders-that-are-out-hunting-babies-clemson-professor-talks-joro-spider-invasion/>
- TV Interview with Jennifer Blake for Bradford Pear Bounty program, WBTW, 5 March 2022: <https://www.wbtw.com/news/grand-strand/conway/bounty-program-aims-to-uproot-invasive-bradford-pear-trees-in-south-carolina/>
- TV Interview with Josh Davis for Bradford Pear Bounty program, WPDE, 4 March 2022:
<https://wpde.com/news/local/horry-co-residents-can-exchange-bradford-pear-trees-for-a-native-tree-at-conway-event>
- Interview with L.A. Jackson about Bradford pear trees, South Carolina Living, 1 March 2022: <https://scliving.coop/home--garden/beyond-bradfords/>
- Press release: worked with Steven Bradley (Clemson University) on press release about SC Women Owning Woodlands program, 28 February 2022:
<https://news.clemson.edu/clemson-helping-create-more-comfortable-environment-for-female-forest-owners/>
- TV Interview with Cory Smith, for Bradford Pear Bounty program, WLTX, 22 February 2022: <https://www.wltx.com/article/weather/the-fight-against-the-bradford-pear-in-south-carolina-bounty/101-a1bd1096-0bf1-4aff-b545-d2d6174ad9fe>
- TV Interview with Janie Bohlman, for Bradford Pear Bounty program, WSPA, 10 February 2022: <https://www.wspa.com/news/local-news/bradford-pear-bounty-program-allows-people-to-remove-trees-in-exchange-for-a-native-tree/>
- Radio: Green and Growing radio show with Ashley Frasca, 5 January 2022, 30 min. of recorded radio show (lebbeck mealybug): <https://www.wsbradio.com/greenandgrowing/>
- Radio: Green and Growing radio show with Ashley Frasca (Best of 2021 show), 1 January 2022, 30 min. of recorded radio show: <https://www.wsbradio.com/greenandgrowing/>
- Radio: Green and Growing radio show with Ashley Frasca, 18 December 2021, 30 min. of recorded radio show: <https://www.wsbradio.com/greenandgrowing/>
- Interview with Matt Markey, Outdoors Editor, The Blade, Toledo, OH, 7 December 2021:
<https://www.toledoblade.com/sports/outdoors/2021/12/11/matt-markey-outdoors-column-partridge-tree/stories/20211212040>

- Interview with Kareem Wilson, The Sumter Item, about Bradford Pear Bounty, 30 November 2021: <https://www.theitem.com/stories/clemson-extension-wants-bradford-pear-tree-exchange-program-in-manning,374202>
- Interview with Rick Rojas, The New York Times, about Bradford Pear, 26 November 2021: <https://www.nytimes.com/2021/11/26/us/bradford-pear-tree-south-carolina.html>
- Interview with Shamira McCray, Charleston Post and Courier, about Joro spiders, 8 November 2021: https://www.postandcourier.com/environment/large-asian-joro-spiders-are-starting-to-populate-across-sc-other-southeastern-states/article_1e06cdf4-40b8-11ec-ba76-ef0783436c4d.html
- Interview with Chris Brathwaite, WLTX, about Joro spiders, 4 November 2021: <https://www.wltx.com/article/news/regional/joro-spiders-from-asia-take-hold-in-southeast/101-1171ffc6-337f-4bc0-ac18-7f1f08d3a830>
- Interview with Walker Lawson, WLTX, about Bradford Pear Bounty, 23 October 2021: <https://www.wltx.com/article/entertainment/events/bradford-pear-bounty-south-carolina/101-a419ae15-14ce-40d0-9d19-fc241fb997dc>
- Interview with David Dickson, WCBD. “A Moment of Science”, 18 October 2021: <https://www.coun2.com/news/the-battle-against-the-asian-longhorned-beetle-nearly-one-year-later/>
- Press Release for Clemson University with Steven Bradley about Bradford pears, 14 October 2021: <https://news.clemson.edu/clemson-brings-battle-against-invasive-bradford-pear-trees-to-states-capital/>
- Phone interview with Rick Rojas, The New York Times, 13 October 2021
- Interview with Nina Tran, USA Today, about Bradford Pear, 9 September 2021 (article printed on 28 November 2021): <https://www.usatoday.com/story/news/nation/2021/11/29/bradford-pear-south-carolina-sets-2024-ban-bounties-tree/8793351002/>
- Society of American Foresters President’s Message: A Forest Health Moment with Dr. David Coyle, 2 September 2021: <https://www.youtube.com/watch?v=eg5clnXRxLU>
- Interview with Amanda McNulty, Making it Grow, about Bradford and Callery pears; S2021 Ep25, 10 August 2021: <https://fb.watch/7iU6yxJh1A/>
- Interview with Shamira McCray, Post & Courier newspaper, about Check Your Trees Month. 10 August 2021. https://www.postandcourier.com/news/usda-urges-people-to-check-trees-this-month-for-asian-beetles-as-they-reach-peak/article_4add9c46-fba2-11eb-ada4-0bc378833819.html
- Interview with Janet McConnaughey, Associated Press. Callery pear, 30 July 2021.
- Video: Herbicide How To Videos, an 8-part series from Clemson Extension: <https://www.clemson.edu/extension/forestry/media1/herbicide-how-to/index.html>
- The label is the law when dealing with herbicides (2:00)
 - Herbicide personal protective equipment (PPE) (3:53)
 - Three methods that you can use to calibrate your backpack sprayer (5:14)
 - When and how to use a foliar herbicide application (2:48)
 - When and how to do a basal bark herbicide treatment (4:10)
 - When and how to use a cut stump herbicide treatment (4:27)
 - How to use a hack and squirt herbicide treatment (3:38)
 - When and how to use mechanical control of undesirable species on your forest property (2:49)

- Radio: Green and Growing radio show with Ashley Frasca, 24 July 2021, 90 min. of live call-in show: <https://www.wsbradio.com/greenandgrowing/>
- Prepared 5 radio spots for Amanda McNulty, Making it Grow, about Bradford pear, 22 July 2021
- Interview with Steven Bradley about the banning of the sale of invasive species, article printed 14 July 2021: <https://news.clemson.edu/invasive-bradford-pear-3-other-species-to-be-banned-for-sale-in-sc/>
- Clemson University. 2021. Article on Asian longhorned beetle in Morning Ag Clips: <https://www.morningagclips.com/teamwork-turns-the-corner-on-an-insect-invasion/>
- Evans, M., S. Joseph, C. Lightfoot, R.D. Wallace, D. Coyle, L. Womack, and J.-H. Chong. 2021. Box tree moth (*Cydalima perspectalis*) powerpoint file. University of Georgia - Center for Invasive Species and Ecosystem Health, 8 slides. <https://presents.bugwood.org/browse/view.cfm?pn=00000385>
- Interview with Tom Hallman, Clemson PS&A Communications, about Asian longhorned beetle, article printed in Clemson News on 21 June 2021: <https://news.clemson.edu/teamwork-turns-the-corner-on-an-insect-invasion/>
- Interview with Shamira McCray, Post & Courier, about Asian longhorned beetle, article printed 14 June 2021: https://www.postandcourier.com/news/clemson-university-researchers-still-working-to-determine-extent-of-invader-beetle-issue/article_21c07150-c0b8-11eb-b6bb-07d845d4a22b.html
- Interview with Amanda McNulty about Asian longhorned beetle for SC DNR magazine article and possible Making it Grow segment, 11 June 2021.
- Interview with Terasa Lott, Making it Grow, about ambrosia beetles; S2021 Ep17, 8 June 2021: <https://www.facebook.com/makingitgrow/videos/900723870477686>
- Coyle, D.R. and R. Nelson. Privet: identification, impact, and control. Educational video (6:54): <https://www.youtube.com/watch?v=lc2HAr8nBiY>
- Interview with Amanda McNulty, Making it Grow, about invasive insects and trees; S2021 Ep9, 6 April 2021: <https://www.sctv.org/watch/making-it-grow>
- Interview with Shamira McCray, Post & Courier, about invasive species in SC; article printed 15 March 2021: https://www.postandcourier.com/news/wild-hogs-asian-longhorned-beetles-top-list-of-scs-most-invasive-species/article_1ed9d0ee-75ef-11eb-b219-53f0b527c5a1.html
- Interview with Davey Tree Company for article in The Davey Bulletin on Asian longhorned beetle, Mar/Apr 2021 issue, p. 8-9.
- Interview with Shamira McCray, Post & Courier, about Asian longhorned beetle; article printed 22 February 2021: https://www.postandcourier.com/news/stono-river-county-park-closes-as-crews-remove-trees-infested-by-asian-longhorn-beetles/article_e1c710d4-7519-11eb-8415-2f234e71cf0a.html
- Radio: Green and Growing radio show with Ashley Frasca, 20 February 2021, 30 min. of live call-in show: <https://www.wsbradio.com/greenandgrowing/>
- Interview with Shamira McCray, Post & Courier, about Chinese tallow biocontrol; article printed 19 February 2021: https://www.postandcourier.com/news/usda-considers-releasing-moths-beetles-to-control-invasive-chinese-tallow-tree/article_ce5149c2-72d3-11eb-8d44-ab642a954027.html
- 2021 Bradford Pear Bounty Program activities:

- Site visit and Interview with Tim Keown, John de la Howe School, 22 March 2021: <https://delahowe.sc.gov/sites/default/files/Documents/Monthly%20Newsletters/MAR%202021%20-%20JDLH%20Newsletter.pdf> (p. 10)
- Radio and print: 106.3 The Word, 9 March 2021: <https://www.radio.com/1063word/news/local/clemson-university-bradford-pear-bounty-event>
- Radio: Tiger Talk Tuesday, YouTube/Facebook Livestream on SALUDANow: <https://www.facebook.com/saludahighschoolsaludasc/videos>
- Video interview with Sumter Today (The Sumter Item): <https://www.theitem.com/stories/sumter-today-clemson-and-sumter-environmentalists-want-you-to-throw-away-your-bradford-pear-trees,359099?>
- Email interview with Daniel Bonds, WLTX News 19: <https://www.wltx.com/article/tech/science/environment/bradford-pear-bounty-update/101-a56a8b9b-1102-4a38-883a-eaba3f3c71d0>
- TV: Interview with Kayland Hagwood, WLTX News 19: <https://www.wltx.com/article/news/local/street-squad/sumter/new-trees-to-improve-city-and-environment-as-sumter-bradford-tree-bounty-nears/101-6288baf4-3a7d-4f4b-b0e7-1ef3085c503f>
- TV: Interview with Alex Calamia, WLTX News19, 8 February 2021: https://www.wltx.com/article/weather/reward-offered-for-bradford-pears/101-87bfb9c4-ecb5-42cd-a87b-36c6a14914b3?utm_campaign=snd-autopilot
- Good Morning Sumter radio interview with Derek Burress, WDXY Radio, 4 February 2021.
- Interview with Shelbie Goulding, reporter with The Sumter Item newspaper, 4 February 2021: <https://theitem.com/stories/clemson-extension-program-replaces-invasive-species-growing-in-sumter-with-free-native-trees,358669>
- Bradford Pear Bounty promotional video for Making it Grow, 3 February 2021: <https://www.facebook.com/makingitgrow/videos/266324344926348>
- Interview with Steven Bradley, Clemson CAFLS Communications team, for the Bradford Pear Bounty press release, 3 February 2021: <https://news.clemson.edu/clemsons-campaign-against-invasive-bradford-pear-adds-new-location-in-second-year/>
 - Appeared in SCNOW: https://scnow.com/agriculture/clemson-s-campaign-against-invasive-against-bradford-pear-adds-new-location-in-second-year/article_1552f30e-670b-11eb-9b18-9f7993b29af6.html
 - Appeared in Morning AgClips: <https://www.morningagclips.com/clemsons-campaign-against-invasive-bradford-pear-adds-new-location-in-second-year/>

Asian longhorned beetle tri-fold with Clemson DPI, 2020:

https://www.clemson.edu/public/regulatory/plant-industry/invasive/_pdf/alb_trifold_2020.pdf

Asian longhorned beetle update – November 2020. Video by Clemson FNR team:

<https://www.youtube.com/watch?v=6zavq4QjqA8&feature=youtu.be>

TV: Invasive beetle infests Lowcountry trees- killing them from the inside. A Moment of Science with David Dickson, WCBD TV, 28 September 2020:

<https://www.counton2.com/news/latest-news/invasive-beetle-threatens-sc-trees-a-moment-of-science/>

- Radio: Green and Growing radio show with Ashley Frasca, 26 September 2020, 60 min. of live call-in show: <https://www.wsbradio.com/greenandgrowing/>
- TV: Asian longhorned beetle on Making it Grow, SCETV, 18 August 2020: <https://video.scetv.org/video/august-18-2020-gh1qgq/>
- Asian longhorned beetle in South Carolina. Video by Clemson FNR team: <https://www.youtube.com/watch?v=u8xevT5syHE>
- Interview and consultation for Rob Nelson's book "Nature is NOT out to kill you", summer 2020.
- Asian longhorned beetle billboard in Charleston Co., SC, developed with The Nature Conservancy and USDA APHIS, July 2020.
- Bargeron, C., M. Evans, C. Lightfoot, C. Bates, R.D. Wallace, D. Coyle, L. Womack, E. McCarty, and R. Hoebeke. 2020. Asian longhorned beetle powerpoint file. University of Georgia - Center for Invasive Species and Ecosystem Health, 9 slides. <https://presents.bugwood.org/browse/view.cfm?pn=00000380>.
- Charleston Post and Courier newspaper interview with Chloe Johnson, 16 June 2020: First SC sighting of invasive beetle reported in Charleston County. https://www.postandcourier.com/news/first-sc-sighting-of-invasive-beetle-reported-in-charleston-county/article_b04c2070-af40-11ea-9622-eb6110ccf6e7.html
- Radio: Green and Growing radio show with Ashley Frasca, 16 May 2020, 90 min. of live call-in show: <https://www.wsbradio.com/greenandgrowing/>
- Interview with Amanda McNulty for Making it Grow Extra: Glyphosate, 7 May 2020, 41:20 of recorded interview. <https://www.southcarolinapublicradio.org/podcast/making-it-grow-extra/2020-05-07/making-it-grow-extra-glyphosate>
- Interview for Georgann Eubanks' book "The Wild South: Lost and Found", spring 2020.
- Callery pear video series, created with Clemson Extension: Winter (<https://www.facebook.com/ClemsonExt/videos/3276696659025505/?v=3276696659025505>), Spring (<https://www.facebook.com/ClemsonExt/videos/1242162362646834/>)
- TV: Springtime brings Invasive Species with Ranger Nick, 21 March 2020, Farm Monitor TV: <https://www.youtube.com/watch?v=2rEySXpm8qs>
- 2020 Bradford Pear Bounty Program activities:
- Pickens Sentinel, 18 March 2020: <https://www.sentinelprogress.com/news/13941/event-doles-out-free-trees-dirt-on-bradford-pears>
 - WHNS, FOX Carolina, Greenville (recorded), 25 February 2020: https://www.foxcarolina.com/news/free-trees-offered-to-replace-invasive-bradford-pear-trees-removed/article_a4ae2484-57cf-11ea-a442-8f93ded138a9.html
 - EarthChangers Radio Show, 23 Feb 2020: <https://earthfmwrth.com/content/all/earthchangers>
 - Newspaper interview, The Post and Courier (Charleston), 8 February 2020: https://www.postandcourier.com/features/invasive-bradford-pears-are-such-a-problem-sc-scientists-are/article_31210ca0-4110-11ea-ab73-ef1feb335ea9.html
 - WYFF, NBC Greenville, Carolinas Family at 4 (live), 6 February 2020: <https://www.youtube.com/watch?v=hSDfyqUCuyw>
 - Clemson Newsstand, Bradford Pear Bounty interview, 3 February 2020: <https://newsstand.clemson.edu/mediarelations/clemson-extension-working-to-root-out-invasive-bradford-pears/>

- Interview with Rick Rojas, The New York Times
- Radio interview about drought in South Carolina with Russ McKinney, SC Public Radio:
<https://www.southcarolinapublicradio.org/post/another-cycle-drought-continues-south-carolina>
- Clemson Newsstand, drought interview, 14 October 2019:
<https://newsstand.clemson.edu/mediarelations/drought-a-major-disruption-for-s-c-wildlife-and-natural-resources-clemson-experts-say/>
- Radio interview about spotted lanternfly with Mike Davis, Southern Farm Network:
<http://sfntoday.com/a-warning-beacon-for-an-invasive-pest/>
- Radio interview about invasive species in firewood with Mike Davis, Southern Farm Network:
<http://sfntoday.com/insects-can-hitch-a-ride-inside-on-firewood/>
- Radio interview about pests in Christmas trees with Mike Davis, Southern Farm Network:
<http://sfntoday.com/christmas-trees-holiday-plants-and-the-pests-that-love-them/>
- TV: Emerald ash borer with Ranger Nick:
<https://www.youtube.com/watch?v=W9W5nqXj3p4>

Webinars:

- Invasive species in forestry (Part II): the stuff that bugs us. Dr. David Coyle, Clemson University, CHPP – Forestry Webinar Series, 5 June 2024 (delivered) (20 live viewers)
- Invasive insect and spider pests in the southeastern US. Dr. David Coyle, Clemson University, NCDEQ Lunchtime Discovery Series, 31 January 2024 (delivered) (131 live viewers)
- Management and Teamwork. Dr. David Coyle, Clemson University, ESA PACT webinar series, 22 January 2024 (host) (29 live viewers)
- Invasive species in the Carolinas: What’s here and what’s next. Dr. David Coyle, Clemson University, York County Master Gardener’s Meeting, 13 October 2023 (delivered) (55 live viewers)
- You’re still here? An update on the Asian longhorned beetle in South Carolina. Dr. David Coyle, Clemson University, Emerald Ash Borer University Webinar Series, 26 September 2023 (delivered) (45 live viewers)
- Forest Health Webinar Series, Clemson FNR Extension, 21-25 August 2023: Pine pests (2 hrs, 20 live viewers), Hardwood pests (2 hrs, 21 live viewers), Invasive plants (2 hrs, 19 live viewers).
- Insect and fungal pests of southern forests. Dr. David Coyle, Clemson University, Natural Resource Webinar Series, Alabama Cooperative Extension Service, 16 August 2023 (delivered) (114 live viewers)
- Bradford and Callery pears: The worst trees ever? Dr. David Coyle, Clemson University, Long Island Invasive Species Management Area Partners Meeting and Workshop, 26 May 2023 (delivered) (56 live viewers)
- All about Callery pear. Dr. David Coyle, Clemson University, Blue Ridge PRISM Quarterly Meeting, 19 April 2023 (delivered) (176 live viewers)
- Woodborers in urban settings. Dr. David Coyle, Clemson University, Clemson Extension webinar, 21 March 2023 (delivered) (26 live viewers)
- Resilience and Leadership. Dr. David Coyle, Clemson University, ESA PACT webinar series, 13 March 2023 (host) (27 live viewers)

- Invasive species: how they affect urban and community forest health. Dr. David Coyle, Clemson University, SC Forestry Commission Urban & Community Forestry webinar series, 13 October 2022 (delivered) (67 live viewers)
- They're not boring! The ecology and management of common woodboring pests. Dr. David Coyle, Clemson University. Part of Rainbow Ecoscience's 2022 webinar series, 24 March 2022 (delivered) (130 live viewers)
- Tick talk 101. Dr. David Coyle, Clemson University. Part of Clemson Extension ½ and ½ webinar event, 16 March 2022 (delivered) (24 live viewers)
- The worst kind of snowbird: the Asian longhorned beetle in South Carolina. Dr. David Coyle, Clemson University, 3 March 2022. Emerald Ash Borer University (EABU) webinar series. (delivered) (40 live viewers)
- Entomological Society of America, Plant-Insect Ecosystems Wildly Important Goal: Invasive Species 2-part panel discussion webinar series (60 min. each, all organized, co-hosted with Dr. Ashley Schultz, Mississippi State University) (75 live viewers each)
- Panel 1: Regulation and Monitoring (Brian Kopper, Van Pichler, Christa Speekman, and Rebecca Stankiewicz Gabel, USDA APHIS), 2 March 2022.
 - Panel 2: Communication (Van Pichler, Ricardo Valdez, Yilmaz Balci, Christa Speekman, Phil Andreozzi, and Rebecca Stankiewicz Gabel, USDA APHIS), 9 March 2022.
- Continental Dialogue and Entomological Society of America, Invasive Forest Pest Webinar Series 4 part webinar series (each day consisted of four 30 min. webinars + Q&A; day 3 moderated), 14 December 2021
- Community science through shared EDDMapS platform (Chuck Barger, UGA)
 - Healthy Trees, Healthy Cities (Rachel Holmes, The Nature Conservancy)
 - Inland detection toolbox and information sharing (John Hastings, USDA APHIS)
 - Spotted lanternfly on the infestation's leading edge (Dr. Phil Lewis, USDA APHIS)
- Entomological Society of America, Plant-Insect Ecosystems Wildly Important Goal: Invasive Species 4-part webinar series (60 min. each, all organized, co-hosted with Dr. Ashley Schultz, Mississippi State University)
- PPQ authority and regulatory process – the cornerstones of safe trade (Ricardo Valdez and Rebecca Stankiewicz Gabel), 6 October 2021.
 - The PPQ Safeguarding Continuum: Part I (Drs. Brian Kopper, Yilmaz Balci, Nicole Russo, USDA APHIS), 10 November 2021.
 - The PPQ Safeguarding Continuum: Part II (John Crowe, Michelle Gray, and Dr. Jesse Hardin, USDA APHIS), 16 November 2021.
 - Communication: a critical tool for combating invasive pests (Greg Rosenthal and Dr. Ronald Weeks), 1 December 2021.
- Invasive pests: past, present, and future. Dr. David Coyle, Clemson University, 8 September 2021. National Association of County Agricultural Agents webinar series. (delivered) (34 live viewers)
- Forest health. Dr. David Coyle, Clemson University, 31 August 2021, part of the 2021 SFI Virtual Training. (delivered) (54 live viewers)
- Pine health issues in the southeastern U.S. Dr. David Coyle, Clemson University, 14 April 2021, part of the SREF Forest Health and Invasive Species Spring '21 Webinar Series. (delivered) (173 live viewers)

- The Asian longhorned beetle heads South: an update on the South Carolina infestation. Dr. David Coyle, Clemson University, 21 January 2021, part of the Alabama Cooperative Extension System's Raising Trees webinar series. (delivered) (171 live viewers)
- Hiding in plain sight: Invasive forest pests in North America, David Coyle, Clemson University, 20 January 2021, part of the NAISMA webinar series (delivered) (298 live viewers)
- Update on current and emerging forest pests, David Coyle, Clemson University, 28 October 2020, part of the SC Chapter – Association of Consulting Foresters Virtual Meeting. (delivered) (22 live viewers)
- Invasive (and native!) forest pests in urban landscapes, David Coyle, Clemson University, 28 October 2020, part of Clemson Extension's 7th Annual Fall Forum. (delivered) (97 live viewers)
- Invasive plant management. Dr. David Coyle, Clemson University, 22 October 2020, part of the Clemson Extension Integrated Pest Management Virtual Webinar. (delivered) (60 live viewers)
- What's bugging my trees? Dr. David Coyle, Clemson University, 14 October 2020, part of the SC Botanical Garden Lunch & Learn webinar series. (delivered) (12 live viewers)
- There's a fungus among us: Common disease issues in urban and landscape trees. Dr. David Coyle, Clemson University, 24 September 2020, part of the 10th Annual IPM Symposium, NC Arboretum. (delivered) (17 live viewers)
- Beetles, roots, and raking: Multiple factors impact tree health in pine straw production. Dr. David Coyle, Clemson University, 23 September 2020, part of the Clemson Extension Virtual Pine Straw Workshop. (delivered) (70 live viewers)
- Introduction to pine straw production. Ryan Bean and Dr. David Coyle, Clemson University, 16 September 2020, part of the Clemson Extension Virtual Pine Straw Workshop. (70 live viewers)
- Native trees and insects. Dr. David Coyle, Clemson University, 21 August 2020, part of the SC Wildlife Federation Free Zoom Class series. (delivered) (78 live viewers)
- Asian longhorned beetle: A new invasive tree pest in South Carolina. Dr. David Coyle, Clemson University, and Mr. Joe Boggs, Ohio State University, 12 August 2020, part of the SREF Forest Health webinar series. (delivered) (221 live viewers)
- Asian longhorned beetle and emerald ash borer. Dr. Joe Boggs and Dr. Dave Coyle, The Ohio State University and Clemson University, 22 July 2020, part of the First Detectors webinar series. (delivered) (64 live viewers)
- Urban trees and chewed up leaves: managing insect and fungal pests in the urban and managed landscapes. Dr. David Coyle, Clemson University, 13 July 2020, part of the Society of American Foresters ForestEd program. (delivered) (146 live viewers)
- Worse than murder hornets! Callery (Bradford) pear impacts and management in the Southeast. Dr. JT Vogt and Dr. David Coyle, USDA FS SRS and Clemson University, 26 June 2020, part of the USFS Southern Research Station Science in Practice webinar series. (delivered) (26 live viewers)
- What's eating my trees? Insect and fungal pest management in southeastern urban landscapes. Dr. David Coyle, Clemson University, 25 June 2020, delivered through Clemson Extension. (delivered) (64 live viewers)

- Invasive plant identification and management, module 2. Dr. David Coyle, Clemson University, 18 June 2020, part of the Clemson Extension Invasive Plant Management webinar series. (delivered) (43 total viewers)
- Invasive plant identification and management, module 1. Dr. David Coyle, Clemson University, 17 June 2020, part of the Clemson Extension Invasive Plant Management webinar series. (delivered) (42 total viewers)
- What's bugging your trees? Insect and fungal pests in southeastern urban landscapes. Dr. David Coyle, Clemson University, 14 May 2020, part of the Alabama Cooperative Extension System's Raising Trees webinar series. (delivered) (125 live viewers)
- Alien invasion: How a few degrees can change the landscape. Dr. David Coyle, Clemson University, 8 May 2020, part of the SC Wildlife Federation webinar series. (delivered) (100 live viewers)
- What's that smell? The curious case of the Callery pear. Dr. David Coyle, Clemson University, 8 April 2020, part of the NAISMA webinar series. (delivered) (602 live viewers)
- Pretty but pungent: The curious case of the callery pear. Dr. David Coyle, Clemson University, 5 February 2020, part of the SREF Forest Health webinar series. (delivered) (188 live viewers)
- Invasive species in North America. Dr. David Coyle, Clemson University, 16 October 2019; part of the NAISMA webinar series. (delivered) (101 live viewers)
- Insect and fungal pests in urban trees. Dr. David Coyle, Clemson University, 13 March 2019; part of the Getting the Best of Pests webinar series. (delivered)
- Invasive bamboo management in the southeastern U.S. Dr. Deah Lieurance, University of Florida, 24 April 2019. (hosted) (167 live viewers)
- Don't fear the fire. Dr. David Coyle, Clemson University, 19 December 2018. (delivered) (147 live viewers)
- Tangled title and timber. Ms. Teresa Moore & Ms. Alexandria Arnold, Georgia Heirs Property Law Center, and Dr. David Coyle, Clemson University, 14 December 2018. (hosted and delivered) (79 live viewers)
- Evaluating a social media extension tool. Dr. David Coyle, Clemson University, 6 November 2018 (delivered); part of the Seeding Success webinar series hosted by Southern Regional Extension Forestry. (delivered) (15 live viewers)
- What's bugging your trees? Insect and fungal pests in southeastern urban landscapes. Dr. David Coyle, Clemson University, 26 September 2018. (delivered)
- Balancing objectives and outcomes for wildlife habitat and forest management. Dr. Mark McConnell, University of Georgia, 25 April 2018. (hosted)
- Planning and timing are critical for saving your urban ash forest. Dr. Cliff Sadof, Purdue University, 28 March 2018. (hosted)
- It's Not a Disease (or is it?): Managing Tree and Forest Health in Palms, Pines, and More. Dr. Carrie Harmon, University of Florida, 21 February 2018. (hosted)
- Hardwood Forest Management for Health and Productivity. Dr. Wayne Clatterbuck, University of Tennessee, 1 November 2017. (hosted)
- Fall Cankerworm Biology, Ecology, and Management in Urban and Rural Landscapes. Ms. Laurie Reid Dukes, City of Charlotte, 4 October 2017. (hosted)
- Privet Biology and Management in the Southeastern U.S. Dr. Nancy Loewenstein, Auburn University, 31 August 2017. (hosted)

- Weather Variability and Its Impacts on Forest Health. Dr. David Coyle, Southern Regional Extension Forestry; Dr. Steve McNulty and Ms. Jennifer Moore Myers, USDA Forest Service, 15 May 2017. (hosted and delivered)
- Southern Pine Beetle Biology, Ecology, and Management. Dr. John Nowak, USDA Forest Service, 19 April 2017. (hosted)
- Hemlock Woolly Adelgid Biology and Management in the Southeastern U.S. Dr. Elizabeth Benton, University of Georgia, 29 March 2017. (hosted)
- Integrative Forest Management for Wildlife and Forest Health. Dr. Mark McConnell, University of Georgia, 15 February 2017. (hosted)
- The People Have Spoken: Using Forest and Firewood National Polling Data to Promote Forest Health. Ms. Leigh Greenwood, The Nature Conservancy, 25 January 2017. (hosted)
- Heterobasidion (aka Annosum or Fomes) Root Disease of Pines in the South. Ms. Michelle Cram, USDA Forest Service, 17 November 2016. (hosted)
- The Biology, Diagnosis, Epidemiology, and Management of Oak Wilt in the Southeastern U.S. Dr. David Appel, Texas A&M University, 26 October 2016. (hosted)
- Cogongrass Management - Past, Present and Future. Dr. Greg MacDonald, University of Florida, 21 September 2016. (hosted)
- Emerald Ash Borer Biology, Ecology, Management, and Implications for Natural and Urban Forest Areas in the Southeast. Dr. Dan Herms, The Ohio State University, 20 April 2016. (hosted)
- Gypsy Moth Biology, Ecology, Management, and Implications for the Southeastern U.S. Dr. Andrew Liebhold, USDA Forest Service, 23 March 2016. (hosted)
- Managing Chinese Tallow in Forests - An Integrated Approach. Dr. Lauren Pile, Clemson University, 24 February 2016. (hosted)
- Biology, Ecology, and Management of Laurel Wilt in the Southeastern U.S. Dr. Marc Hughes, University of Florida, 4 February 2016. (hosted)

Oral Presentations

Invited lectures/seminars:

- Coyle, D.R. Everybody's watching: building an Extension and research program with a federally-regulated invasive species. Oklahoma State University, Department of Natural Resource Ecology and Management, 25 August 2023 (50 min)
- Coyle, D.R. It's all relative: Celebrating invasive species success stories in North America. University of Florida - Indian River Research and Education Center Seminar Series, 11 August 2023 (50 min)
- Coyle, D.R. Igniting new life: how prescribed fire helps with forest restoration. Holland Lifelong Learning Lecture Series, South Carolina Aquarium, 16 February 2023, Charleston, SC (60 min)
- Coyle, D.R. It's an invasion! Impacts of non-native insects on natural resources in the eastern U.S. College of Charleston, Department of Biology Fall Seminar Series, 29 August 2022, Charleston, SC (50 min)
- Coyle, D.R. Teamwork makes the dream work: Multi-agency efforts to manage non-native forest pests in the Southeast. Clemson University, Plant and Environmental Sciences Department, 4 December 2020, Clemson, SC. (50 min)

- Coyle, D.R. But it's so pretty! Invasive species extension in the 21st century and the curious case of the callery pear. University of Tennessee, Department of Entomology and Plant Pathology, 5 November 2019, Knoxville, TN (50 min)
- Coyle, D.R. Navigating the challenges of Cooperative Extension in changing times: from the farm to the forest. Iowa State University, Department of Entomology, 23 September 2019, Ames, IA (50 min)
- Coyle, D.R. But it's so pretty! Invasive species extension and the curious case of the Callery pear. Georgia College and State University, Biological and Environmental Sciences Department, 17 April 2019, Milledgeville, GA (50 min)
- Coyle, D.R. The times, they are a-changin': southern forest health extension in the age of social media. Auburn University, School of Forestry and Wildlife Sciences, 27 March 2019, Auburn, AL. (50 min)
- Coyle, D.R. Tweet! Post! Like! Using social media as an invasive species teaching tool for multiple audiences. Clemson University, Plant and Environmental Sciences Department, 25 February 2019, Clemson, SC. (50 min)
- Coyle, D.R. We need each other: Research and Extension drives forest management. Coweeta Hydrologic Laboratory, USDA Forest Service - Southern Research Station, 11 October 2018, Otto, NC. (60 min)
- Coyle, D.R. Invasive species, drought, and management, oh my! Forest health and Extension strategies for the southeastern U.S. Purdue University, Department of Entomology, 13 September 2018, West Lafayette, IN (50 min.)
- Coyle, D.R. Bugs, bbq, and blurry pictures: forest health outreach in the Southeast. University of Florida, Department of Entomology and Nematology, 24 February 2017, Gainesville, FL. (50 min.)
- Coyle, D.R. Interactions between below- and above-ground processes in forest ecosystems: Implications to forest health and human values. Luther College, Department of Biology, 12 April 2012, Decorah, IA. (50 min.)
- Coyle, D.R. Interactions between below- and above-ground processes in forest ecosystems: Implications to forest health and human values. Southern Illinois University – Edwardsville, Department of Biology, 9 April 2012, Edwardsville, IL. (50 min.)
- Coyle, D.R. What lurks beneath: Invasive rhizophagous weevils in northern hardwood forests. University of Wisconsin Department of Entomology seminar series, 30 September 2011, Madison, WI. (50 min.)
- Coyle, D.R. Root herbivory, black-legged ticks, and Lyme disease: An ecological cascade in red pine forests. University of Georgia Department of Entomology seminar series, 4 April 2011, Athens, GA. (50 min.)

Invited presentations:

- Bailey, J.B., D. Whitesides, and D.R. Coyle. The worst urban tree? Environmental impacts of Bradford and Callery pears and outreach efforts to reduce their presence. Southern Forest Health Work Conference, 16-18 July 2024, Greenville, SC. 20 min.
- Coyle, D.R. The stuff that bugs us. Clemson Extension Growing Our Future Annual Forestry Meeting, 29 May 2024, Leesville, SC (60 min, 215 ppl).
- Coyle, D. Impacts of damage to roadside trees and what that means for tree health. Georgia Vegetation Management Association Annual Meeting, 25 April 2024, Savannah, GA (60 min).

- Steele, J., M. Darr, T. Evans, and D. Coyle. A thorny predicament: assessing *Elaeagnus pungens* management strategies in wooded areas. Congaree Research Symposium, 1-2 February 2024, Columbia, SC (25 min)
- Hartshorn, J. and D. Coyle. EDRR plan for non-regulated pests. Southern Group of State Foresters 2024 Forest Health Committee Meeting, 29 January – 1 February 2024, Fort Worth, TX (virtual) (30 min)
- Coyle, D.R. Keeping forests healthy: fighting the bugs, fungi, and weeds. Appalachian Society of American Foresters Winter Meeting, 23-25 January 2024, Roanoke, VA (45 min)
- Coyle, D.R. Asian longhorned beetle in South Carolina: research successes and questions. USDA Interagency Research Forum on Invasive Species, 9-12 January 2024, Annapolis, MD (20 min)
- Johnson, C, D. Coyle, and K. Oten. Drop-and-leave: implementing alternative management strategies for Asian longhorned beetle eradication. USDA Interagency Research Forum on Invasive Species, 9-12 January 2024, Annapolis, MD (20 min)
- Coyle, D.R. Social media strategies and multimedia to raise awareness and support. Invasive Species Ambassador Training, 6 December 2023, Coeur d'Alene, ID (30 min).
- Coyle, D.R. Update on ALB SC projects. USDA APHIS Forest Pest Management Laboratory Annual Review, 6 December 2023, (virtual) (60 min).
- Coyle, D.R. Why won't you listen? Invasive species outreach strategies for regulated and non-regulated pests. Entomological Society of America Annual Meeting, 5-8 November 2023, National Harbor, MD. (25 min).
- Ray, A., D.R. Coyle, D. Crook, and J. Francese. How not to capture Asian longhorned beetles: An overview of many good ideas that haven't worked. Entomological Society of America Annual Meeting, 5-8 November 2023, National Harbor, MD. (15 min).
- Coyle, D.R. Research updates from South Carolina. ALB Cooperators Meeting, 18-19 October 2023, Worcester, MA. (60 min)
- Coyle, D. Common and emerging woody invasives in Georgia, with (effective and ineffective) management strategies. Georgia Vegetation Management Association Annual Meeting, 27 April 2023, Savannah, GA (60 min).
- Coyle, D.R. The state of invasive pests in the southern region. USFS Forest Health Monitoring 2023 National Workshop, 30 March 2023, (Virtual) 15 min, 225 ppl.
- Coyle, D.R. Invasive tree pests in the southern region: is there any good news? ISA Southern Annual Conference and Trade Show, 26-28 March 2023, Chattanooga, TN. (30 min).
- Sitvarin, M.I., A. Chuang, J. Deitsch, D. Nelsen, and D. Coyle. The introduction, spread, and potential impacts of a non-native spider to Georgia. Georgia Archives Symposium, 25 March 2023, Clayton State University, Morrow, GA. (45 min).
- Lieurance, D., N. Loewenstein, C. Barger, and D. Coyle. The Regional Invasive Plant Status Assessment (RIPSA): a decision support tool to standardize plant listing across the Southeastern US. Florida Invasive Species Council Symposium, 22-24 March 2023, Daytona Beach Shores, FL. (25 min).
- Coyle, D.R. ALB research program at Clemson University. USDA APHIS, SC ALB group monthly update meeting. Charleston, SC. 45 min. 25 ppl.
- Coyle, D.R. Beetles and moths and pear trees oh my! An update on the Asian longhorned beetle, boxtree moth, and Callery pear situation. Virginia Association of Forest Health Professionals Annual Meeting, 13 February 2023, Blacksburg, VA. 30 min. 220 ppl.

- Hartshorn, J., G. Nuttle, J.F. Palmer, D.R. Coyle, and J. Nowak. Response of *Ips* communities to prescribed fire in South Carolina. Southern Forest Insect Work Conference, 21-23 June 2022, Lexington, KY. (15 min).
- Coyle, D. and J. Nowak. Updates on SPB all-in-one website. Southern Forest Insect Work Conference, 21-23 June 2022, Lexington, KY. (10 min).
- Gott, R. and D. Coyle. Training for stakeholders, from IPM educators to agricultural workers, is critical to the success of IPM programs. 10th International IPM Symposium, 28 Feb. – 3 Mar. 2022, Denver, CO. (12 min virtual presentation)
- Hartshorn, J., J.F. Palmer, and D. Coyle. Prickly pernicious pears: effects of Callery pear on arthropod guilds. University of Georgia, Department of Entomology Seminar Series, 21 February 2022 (60 min).
- Bean, M., A. Ratcliff, K. Oten, and D. Coyle. The Asian longhorned beetle in South Carolina: a status update. Virginia Association of Forest Health Professionals Annual Meeting, Staunton, VA, 14-15 February 2022 (30 min).
- Darr, M., D. Coyle, T. Evans, and J. Watt-Steele. *Elaeagnus pungens*: a thorny issue in southeastern forest management. Virginia Association of Forest Health Professionals Annual Meeting, Staunton, VA, 14-15 February 2022 (30 min).
- Hartshorn, J., J.F. Palmer, D. Coyle, and J. Nowak. The unholy trinity: bark beetles, climate change, and fire. University of Florida Climate Change Seminar Series, 21 January 2022 (virtual, 30 min).
- Coyle, D.R. Climate, invasives, and trees, oh my! Forest management in the “new normal”. South Carolina Native Plant Society Annual Meeting, 6 November 2021 (live, virtual, 60 min, 45 ppl)
- Coyle, D.R. Alien invasion: how a few degrees can make a difference. Entomological Society of America Annual Meeting, 31 October – 3 November 2021 (on-demand, virtual, 20 min + 45 min. panel discussion).
- Coyle, D.R. More northern aggression: invasive species threats to Florida forests from higher latitudes. Florida Invasive Species Council, 2 September 2021. (virtual, 25 min, 120 ppl)
- Coyle, D.R. After the cuts: Insect and disease pests of stressed trees. South Carolina Vegetation Management Association Annual Conference, 21 July 2021. (45 min, 175 ppl)
- Coyle, D.R. *Anoplophora glabripennis* in South Carolina: current status, potential impacts, and future directions. 1st International Electronic Conference on Entomology, 8 July 2021. (virtual, 25 min., 70 ppl)
- Coyle, D.R. The Asian longhorned beetle situation in South Carolina, with management implications for the southeastern U.S. Alabama Invasive Plant Council 18th Annual Conference, 20 May 2021. (30 min, 72 ppl)
- Coyle, D.R. Callery pear management strategies: From herbicides to changing minds. Alabama Invasive Plant Council 18th Annual Conference, 20 May 2021. (30 min, 72 ppl)
- Coyle, D.R. Snakes, swamps, and the Asian longhorned beetle in South Carolina. Entomological Society of America Eastern Branch Virtual meeting, 23 March 2021. (20 min., 40 ppl)
- Coyle, D.R. The Asian longhorned beetle is now in South Carolina. Virginia Association of Forest Health Professionals Virtual Annual Meeting, 9 February 2021. (30 min., 240 ppl)
- Coyle, D.R. Social media communication strategies for the general public. Entomological Society of America Virtual Annual Meeting, 19 November 2020. (20 min)

- Darr, M.N. and D.R. Coyle. Are you threatening me? Impacts of native and non-native insect threats on forest management strategies. Entomological Society of America Virtual Annual Meeting, 16 November 2020. (20 min)
- Coyle, D.R. Tweet! Post! Like! Social media to promote forest health and invasive species awareness. Upper Midwest Invasive Species Conference (UMISC) (virtual), 6 November 2020. (20 min + 20 min panel, 281 ppl)
- Coyle, D.R. Asian longhorned beetle: it's here. Georgia Tree Conference (virtual), 4-5 November 2020. (20 min, 81 ppl)
- Coyle, D.R. They're heere...managing a new invasive species upon arrival. North American Invasive Species Management Association 2020 Virtual Conference, 6-8 October 2020. (30 min., 31 ppl)
- Coyle, D.R. You talkin' to me? Extension and outreach strategies for different target audiences. Joint meeting of the Eastern and Southeastern Branches of the Entomological Society of America, 30 Mar. – 1 Apr. 2020, Atlanta, GA. *Cancelled due to COVID-19*
- Coyle, D.R. Your ash is in trouble: A southern perspective of the emerald ash borer invasion. Joint meeting of the Eastern and Southeastern Branches of the Entomological Society of America, 30 Mar. – 1 Apr. 2020, Atlanta, GA. *Cancelled due to COVID-19*
- Coyle, D.R. Pretty but smelly, the curious case of the callery pear. Virginia Association of Forest Health Professionals Annual Meeting, 28 January 2020, Glen Allen, VA. (30 min., 185 ppl)
- Coyle, D.R. Click, Post, Like: Using social media as a forest health education tool. Virginia Association of Forest Health Professionals Annual Meeting, 27 January 2020, Glen Allen, VA. (30 min., 185 ppl)
- Coyle, D.R. What have we done? The curious case of the callery pear. Innovations in Invasive Species Management Conference, 10 Dec. 2019, Coeur d'Alene, ID (30 min, 55 ppl)
- Coyle, D.R. and M.N. Darr. Click! Post! Like! Using social media to promote forest entomology. Entomological Society of America Annual Meeting, 17 Nov. 2019, St. Louis, MO (15 min, 30 ppl)
- Coyle, D.R. Ch-ch-ch-ch-changes: turn and face the strange new climate impacts on urban pests. TreesSC Annual Conference, 25 October 2019, Folly Beach, SC (45 min, 150 ppl)
- Coyle, D.R. Alien invasion: how a few degrees can change the landscape. Holy City Brewing, 24 October 2019, Charleston, SC; sponsored by the SC Native Plant Society and SC Wildlife Federation. (30 min, 30 ppl)
- Coyle, D.R. Plants, bugs, and fungus: invasive forest pest issues in southern forests. NAISMA Annual Meeting, 30 Sept. – 3 Oct. 2019, Saratoga Springs, NY. (20 min, 70 ppl)
- Coyle, D.R. Changing with the times: communication strategies to reach today's forest landowner. Ecological Society of America Annual Meeting, 14 August 2019, Louisville, KY. (20 min, 60 ppl)
- Coyle, D.R. Forest health in South Carolina: an update. SCPMA Annual Meeting, 8 August 2019, Walterboro, SC. (60 min, 175 ppl)
- Aubrey, D., D. Coyle, J. O'Brien, B. Hornsby, D. Moorhead, and J. Nowak. Fire and the physiology of southern pines. SFIWC Annual Meeting, 25 July 2019, Savannah, GA. (20 min, 40 ppl)

- Coyle, D.R. Current status of invasive species in South Carolina. Clemson Extension Growing Our Future Annual Forestry Meeting, 8 May 2019, Leesville, SC (60 min, 225 ppl).
- Coyle, D.R. Bradford pear and callery pear: evolving plant pests. Joint NC-IPC and SC-EPPC Symposium, 27-29 March 2019, Gastonia, NC. (30 min., 100 ppl)
- Coyle, D.R. Developing an extension program? You're gonna need a bigger toolbox. Entomological Society of America – Southeastern Branch Meeting, 3-6 March 2019, Mobile, AL. (15 min., 45 ppl)
- Knight, K.S. and D.R. Coyle. What you need to know about emerald ash borer: Impacts and management in forests. Virginia Association of Forest Health Professionals Annual Meeting, 28-29 January 2019, Blacksburg, VA. (45 min., 150 ppl)
- Coyle, D.R., L. Chamberlin, and K. Mooneyham. Southern pine beetle updates. Virginia Association of Forest Health Professionals Annual Meeting, 28-29 January 2019, Blacksburg, VA. (30 min., 150 ppl)
- Coyle, D.R. Coming to America: How can we look out for the next “big bad” forest pest? Virginia Association of Forest Health Professionals Annual Meeting, 28-29 January 2019, Blacksburg, VA. (45 min., 150 ppl)
- Coyle, D.R. Playing nice in the sandbox: Navigating the challenges of a regional, interagency extension program. Entomological Society of America, Entomological Society of Canada, and Entomological Society of British Columbia Joint Annual Meeting, 14 November 2018, Vancouver, BC, Canada. (20 min, 20 ppl)
- Coyle, D.R. It's hashtag, not pound sign: Strategies for effective online communication. Entomological Society of America, Entomological Society of Canada, and Entomological Society of British Columbia Joint Annual Meeting, 12 November 2018, Vancouver, BC, Canada. (15 min, 75 ppl)
- Coyle, D.R. We've got issues: Invasive forest pests in the southeastern U.S. Upper Midwest Invasive Species Conference/North American Invasive Species Management Association Joint Conference, 15 October 2018, Rochester, MN. (20 min, 175 ppl)
- Coyle, D.R. Enemy at the gate: The biological factors threatening productivity and profitability of private forests. National Association of Private Forest Landowners Annual Meeting, 26 June 2018, Greensboro, GA. (90 min. panel session)
- Coyle, D.R. From the ground up: building a regional forest health extension program. Association of Natural Resource Extension Professionals Annual Meeting, 29 April – 3 May 2018, Biloxi, MS. (20 min.)
- Schulz, A.N., A.M. Mech, C. Asaro, D.R. Coyle, M.M. Cram, R.D. Lucardi, and K.J.K. Gandhi. What's been “bugging” the white pine? A quest to inspect the abiotic and biotic factors associated with *Pinus strobus* dieback in the Southern Appalachian Mountains. USDA-AFRI White Pine Health in Eastern Timberlands Workshop. 6-9 February 2018, Athens, GA.
- Coyle, D.R. Invasive insects (and fungi!) impacting trees in the Southeast. Georgia Exotic Plant Pest Council Annual Meeting at the Georgia Green Industry Conference, 24-26 January 2018, Duluth, GA. (20 min.)
- Coyle, D.R. You're expected to know it all: challenges of a regional forest health extension program. Entomological Society of America Annual Meeting, 5-8 November 2017, Denver, CO. (20 min.)

- Coyle, D.R. A three-pronged approach to training forestry professionals in the southeastern U.S. North American Invasive Species Management Association – Nevada Weed Management Association Joint Annual Meeting, 23-26 October 2017, Reno, NV. (20 min.)
- Coyle, D.R. A three-pronged approach to training forestry professionals in the southeastern U.S. Forest Insects and Pathogens in a Changing Environment: Ecology, Monitoring, & Genetics, a Joint Meeting of the International Union of Forest Research Organizations (IUFRO) Working Parties 7.03.05 & 7.03.10, 2017; 10-14 September 2017, Thessaloniki, Greece. (30 min.)
- Coyle, D.R. Tri-trophic Interactions: Government, University, and Private Landowner Interactions. Southern Forest Insect Work Conference, 25-28 July 2017, Melbourne, FL. (90 min. panel session)
- Coyle, D.R. Not your grandfather's timber: What the future may hold for the next generation of forest landowners. National Association of Private Forest Landowners Annual Meeting, 2 June 2017, Asheville, NC. (90 min. panel session)
- Coyle, D.R. Invasive plant management in forests and natural areas. Georgia Exotic Plant Pest Council Annual Meeting at the Georgia Green Industry Conference, 25-27 January 2017, Duluth, GA. (20 min.)

Submitted presentations:

- Stone, L., R.T. Trotter, M. Keena, L. Schmitt, and D. Coyle. Larval growth biology of the invasive Asian longhorned beetle (*Anoplophora glabripennis*) in the United States. Southern Forest Health Work Conference, 16-18 July 2024, Greenville, SC. 12 min.
- Moretti, K.C., M. Darr, and D. Coyle. Nine years and counting: the impacts of a regional forest health education program. Southern Forest Health Work Conference, 16-18 July 2024, Greenville, SC. 20 min.
- Johnson, C.L., D. Coyle, and K. Oten. Drop-and-leave: implementing alternative management strategies for Asian longhorned beetle eradication. Entomological Society of America – Southeastern Branch Annual Meeting, 17-20 March 2024, Augusta, GA. 12 min.
- Johnson, C.L., D. Coyle, and K. Oten. Drop-and-leave: implementing alternative management strategies for Asian longhorned beetle eradication. Southern Appalachian Forest Entomology and Pathology Seminar, 8-9 March 2024, Crossnore, NC. 10 min.
- Schmitt, L.R., C. Bishop, K. Crout, R. Ritger, D.R. Coyle, and R.T. Trotter, III. Phenology of *Anoplophora glabripennis* in South Carolina. Entomological Society of America Annual Meeting, 5-8 November 2023, National Harbor, MD. (12 min).
- Markus, T., L. Pile Knapp, D. Coyle and G.G. Wang. Seasonal light response curves of *Ligustrum sinense* (Chinese privet): a test of extended leaf phenology. Biennial Southern Silvicultural Research Conference, 20-22 March 2023, Nacogdoches, TX (15 min).
- Sitvarin, M., A. Chuang, J. Deitsch, D. Nelsen, and D. Coyle. Introduction of the Jorō spider (*Trichonephila clavata*) to the southeastern U.S.: past, present, and future. Association of Southeastern Biologists Annual Meeting, 23-26 March 2023, Winston-Salem, NC (15 min).
- Deitsch, J., A. Chuang, D. Coyle, D. Nelsen, and M. Sitvarin. What iNaturalist can tell us about Joro spiders and what Joro spiders can tell us about iNaturalist. Association of

- Southeastern Biologists Annual Meeting, 23-26 March 2023, Winston-Salem, NC (15 min).
- Nelsen, D.R., A. Corbit, A. Chuang, J.F. Deitsch, M.I. Sitvarin, H. Salinas, E. Hamstra, L. Batmen, M. Rivas, and D.R. Coyle. Range expansion and the ecological impact of the invasive Joro spider, *Trichonephila clavata*. Association of Southeastern Biologists Annual Meeting, 23-26 March 2023, Winston-Salem, NC (15 min).
- Ratcliff, A., K. Oten, and D.R. Coyle. Adventures in beetle busting: alternative methods for the eradication of Asian longhorned beetle in South Carolina. Association of Southeastern Biologists Annual Meeting, 23-26 March 2023, Winston-Salem, NC (15 min).
- Palmer, F., J. Hartshorn, D. Coyle, and C. Heaton. Burning ring of beetles: the effects of prescribed fire on bark beetle activity. Southern Appalachian Forest Entomology and Pathology Symposium, 2-3 March 2023, Crossnore, NC. (10 min).
- Crout, K. and D. Coyle. ALB update in South Carolina. Southern Appalachian Forest Entomology and Pathology Symposium, 2-3 March 2023, Crossnore, NC. (10 min).
- Sharma, P., J. Hartshorn, D.R. Coyle, and J.F. Palmer. Estimation of the aboveground biomass of an invasive tree: Callery pear. Appalachian Society of American Foresters Winter Meeting, 25-27 January 2023, Columbia, SC. (14 min).
- Coyle, D.R. The Palmetto State predicament: an update on the Asian longhorned beetle in South Carolina. USDA Interagency Research Forum on Invasive Species, 10-13 January 2023, Annapolis, MD (20 min)
- Hartshorn, J., D.R. Coyle, J.F. Palmer, D. Clabo, and J.T. Vogt. Effects of cutting and fire on Callery pear (*Pyrus calleryana*) growth. North American Invasive Species Management Association (NAISMA) Annual Conference, 7-10 November 2022, Kissimmee, FL (20 min).
- Ratcliff, A., K. Oten, and D.R. Coyle. Adventures in beetle busting: alternative methods for the eradication of Asian longhorned beetle in South Carolina. Joint Annual Meeting of the Entomological Society of America and the Entomological Society of Canada, 13-16 November 2022, Vancouver, BC, Canada. (12 min).
- Schmitt, L., R.T. Trotter, S.E. Pfister, and D.R. Coyle. Phenology of *Anoplophora glabripennis* in South Carolina. Southern Forest Insect Work Conference, 21-23 June 2022, Lexington, KY. (12 min).
- Ratcliff, A., K. Oten, and D.R. Coyle. Adventures in beetle busting: alternative methods for the eradication of Asian longhorned beetle in South Carolina. Southern Forest Insect Work Conference, 21-23 June 2022, Lexington, KY. (12 min).
- Coyle, D.R. Free trees! Invasive species education through the Bradford Pear Bounty Program. IUFRO Extension & Knowledge Exchange Virtual Conference, 10 May 2022. (20 min).
- Crout, K., R. Ritger, and D. Coyle. Developing an Asian longhorned beetle outreach program in South Carolina. IUFRO Extension & Knowledge Exchange Virtual Conference, 10 May 2022. (5 min).
- Schmitt, L, R.T. Trotter, S. Pfister, and D. Coyle. Phenology of *Anoplophora glabripennis* in South Carolina. ESA-SEB Annual Meeting, 26-30 March 2022, San Juan, PR. (12 min).
- Coyle, D.R., M. Bean, K. Crout, R. Ritger, R.T. Trotter, and S. Pfister. The good, the bad, and the ugly: An update on the *Anoplophora glabripennis* infestation in South Carolina. ESA-SEB Annual Meeting, 26-30 March 2022, San Juan, PR. (12 min).

- Crout, K., M. Bean, A. Ratcliff, R. Ritger, L. Schmitt, D. Coyle, and K. Oten. The Asian longhorned beetle in SC: Where are we now? Southern Appalachian Forest Entomology and Pathology Symposium, 3-4 March 2022, virtual (20 min).
- Bean, M.S., D. Coyle, L. Schmitt, R.T. Trotter, and S. Pfister. The Asian longhorned beetle in SC: a status update and ongoing research summary. Appalachian Society of American Foresters Annual Meeting, 26-28 January 2022, Asheville, NC. (10 min.).
- Markus, T., G.G. Wang, L.P. Knapp, and D. Coyle. Seasonal light response curves of *Ligustrum sinense*: a test of extended leaf phenology. Appalachian Society of American Foresters Annual Meeting, 26-28 January 2022, Asheville, NC. (10 min.).
- Sharma, P., J. Hartshorn, D. Coyle, J.F. Palmer, and A. Helman. Estimation of the above-ground biomass of invasive Callery pear trees. Appalachian Society of American Foresters Annual Meeting, 26-28 January 2022, Asheville, NC. (10 min.).
- Gandhi, K.J.K., K.D. Klepzig, J.D. Dean, E. Hunter, A. Liebhold, W. Owen, T. Trembath, D. Adams, C. Asaro, C. Barton, R. Cook, D. Coyle, J. Eickwort, S. Harrington, F. Koch, D. Nelson, R. Olatinwo, J. Pait, J. Rakestraw, E. Schilling, R. Sniezko, and R. Venette. 2022. P4: a proactive approach to protect pine forests from invasive pests and pathogens. Annual Meeting of the Southern Group of State Foresters, 25-27 January 2022, Lexington, KY.
- Bean, M.S., L. Schmitt, A. Ratcliff, K. Oten, R.T. Trotter III, S. Pfister, and D.R. Coyle. The Asian longhorned beetle in South Carolina: a status update and summary of ongoing research. Entomological Society of America Annual Meeting, 31 October – 3 November 2021 (live, 12 min).
- Greenwood, L., D. Coyle, C. MacQuarrie, and M. Noseworthy. 2021. What and where are the weak links? Exploring pest mitigation research and education associated with the solid wood packaging supply chain in North America. International Forestry Quarantine Research Group (IFQRG) – 18 Virtual Symposium. 7 October 2021. (virtual, 20 min.)
- Coyle, D.R. 2021. Well that's just great: An Asian longhorned beetle infestation in South Carolina. North American Invasive Species Management Association Annual Conference, 29 September 2021, virtual. (recorded presentation, 15 min.)
- Zhai, L., D. Coyle, and D. Li. High diversity of stem structure reduced tree survival during drought. Ecological Society of America Annual Meeting, 2-6 August 2021, virtual (oral presentation, 15 min.)
- Evans, C.W. and D.R. Coyle. Integrating established and novel strategies for forest health and invasive species education. Association of Natural Resource Extension Professionals Annual Conference (virtual), 24-27 May 2021. (oral presentation, 20 min. recorded + 7 min. live Q&A)
- Sapkota, S., S.L. Boggess, R.N. Trigiano, W.E. Klingeman, D. Hadziabdic, D.R. Coyle, B.A. Olukolu, R.D. Kuster, and M. Nowicki. Genetic diversity of Asian Callery pear, *Pyrus calleryana*, using microsatellite loci. ASHS Annual Conference, 5-9 August 2021, Denver, CO. (oral presentation, 15 min.)
- Zhai, L. and D. Coyle. High diversity of stem structure reduced tree survival during drought. 21st Biennial Southern Silviculture Research Conference, 16-18 March 2021. (virtual presentation, 15 min.).
- Solano, A., S.L. Rodriguez, D.R. Coyle, and P. Rosopa. The danger within: implications of invasive forest insect and disease spread. 30th Southern Appalachian Forest Entomology and Pathology Seminar (SAFEPS), 4-5 March 2021. (virtual presentation, 20 min).

- Darr, M., D. Coyle, and T. Evans. *Elaeagnus pungens*: A thorny issue in southeastern forest management. 30th Southern Appalachian Forest Entomology and Pathology Seminar (SAFEPS), 4-5 March 2021. (virtual presentation, 20 min).
- Nuttle, G., F. Palmer, J. Hartshorn, D. Coyle, and C. Heaton. Bark beetle responses to prescribed fire under different drought conditions. 30th Southern Appalachian Forest Entomology and Pathology Seminar (SAFEPS), 4-5 March 2021. (virtual presentation, 15 min).
- Bean, M., D. Coyle, and T. Trotter. Infestation dynamics of an isolated Asian longhorned beetle population in South Carolina. 30th Southern Appalachian Forest Entomology and Pathology Seminar (SAFEPS), 4-5 March 2021. (virtual presentation, 15 min).
- Hartshorn, J., F. Palmer, D. Coyle, E. Crocker, and M. Skvarla. Effects of Callery pear on leaf litter arthropods. 30th Southern Appalachian Forest Entomology and Pathology Seminar (SAFEPS), 4-5 March 2021. (virtual presentation, 15 min).
- Hartshorn, J.A. and D.R. Coyle. Evidence for the enemy release hypothesis in Callery pear invasion. Entomological Society of America Virtual Annual Meeting, 11-25 November 2020. (on-demand presentation, 10 min)
- Pile, L. D. Coyle, D. Dey, T. Hutchinson, M. Jenkins, C. Kern, B. Knapp, C. Pinchot, J. Rebbeck, G. Wheeler, and G.G. Wang. 2020. Nonnative invasive plant management in Eastern North American forests: A systematic review and meta-analysis. Society of American Foresters National Convention, 29-31 October 2020, Virtual.
- Greenwood, L., M. Noseworthy, C. MacQuarrie, and D. Coyle. 2020. Exploring pest mitigation research and education associated with the solid wood packaging supply chain in North America. International Forestry Quarantine Research Group (IFQRG) – 17 Virtual Symposium. 30 September 2020.
- Palmer, F., J. Hartshorn, D. Coyle, and W. Heaton. Ips implications: effects of drought on bark beetle response to prescribed fire. Southern Appalachian Forest Entomology and Pathology Seminar, 5-6 March 2020, Newland, NC.
- Aubrey, D.P., D. Markewitz, M. Coleman, and D. Coyle. Soil carbon and nutrient dynamics in response to a complete woody bioenergy harvest rotation. American Geophysical Union Fall Meeting, 9-13 December 2019, San Francisco, CA.
- Hartshorn, J., F. Palmer, and D. Coyle. Aversion to the invasive species callery pear by a native generalist herbivore, the fall webworm. South Carolina Entomology Society Annual Meeting, 3-4 October 2019, Columbia, SC.
- Franić, I, S Prospero, K Adamson, E Allan, F Attorre, M-A Auger-Rozenberg, S Augustin, D Avtzis, W Baert, M Barta, K Bauters, A Bellahirech, P Boroń, H Bragança, T Brestovanská MB Brurberg, T Burgess, D Burokienė, M Cleary, J Corley, DR Coyle, G Csóka, K Černý, K Davydenko, M de Groot, JJ Diez, HT Doğmuş Lehtijärvi, R Drenkhan, M Elsafy, CB Eötvös, J Fan, Á Fürjes-Mikó, B Grad, M Hartmann L Havrdova, M Hrabetova, MJ Justesen, M Kacprzyk, M Kenis, N Kirichenko, V Kramarets, N Lacković, J Lazarević, M Leskiv, H Li, CL Madsen, C Malumphy, M Matek, D Matošević, I Matsiakh, J Meffert, D Migliorini, C Nikolov, R O Hanlon, F Oskay, T Paap, T Parpan, B Piškur, HP Ravn, J. Richard, A Ronse, A Roques, K Sivickis, V Talgø, MA Tomoshevich, A Uimari, M Ulyshen, AM Vettraino, C Villari, Y Wang, J Witzell, M Zlatkovi, R Eschen. Worldwide and host-dependent variation in fungal endophyte diversity in twigs of eleven tree genera. 49th Annual Meeting of the

- Ecological Society of Germany, Austria, and Switzerland, 9-13 September 2019, Münster, Germany. (20 min.).
- Loewenstein, N.J., D. Lieurance, D. Coyle, and R. Bean. Bamboo as a crop in the Southeast? Current status, questions and concerns. Innovations in Invasive Species Management Training and Workshop, 12-14 December 2018, Nashville, TN. (30 min.)
- Coyle, D.R. The needs of many: a regional perspective on forest and tree health for multiple audiences. Southern Forest Insect Work Conference, 25-28 July 2017, Melbourne, FL. (20 min.).
- Coyle, D.R., B.F. Barnes, G.T. Green, K.D. Klepzig, J.T. Nowak, and K.J.K. Gandhi. Regional relevance of southern pine decline and its impact on landowner knowledge and attitudes. Southern Forest Insect Work Conference, 21-24 July 2015, Fayetteville, AR. (20 min.).
- Whitney, T.D., A.N. Schultz, C. Asaro, D.R. Coyle, M.M. Cram, A. Mech, R.D. Lucardi, and K.J.K. Gandhi. Link between a scale insect and eastern white pine dieback: overview and future directions. Southern Forest Insect Work Conference, 21-24 July 2015, Fayetteville, AR. (12 min.).
- Schulz, A.N., A. Mech, D. Coyle, M. Cram, R. Lucardi, C. Asaro, K. Gandhi. Determining the distribution of *Matsucoccus macrocicatrices* in white pine forests of the Southern Appalachian Mountains. UGA Warnell Graduate Student Symposium, 18-20 February 2015, Athens, GA. (12 min.).
- Schulz, A.N., C. Asaro, D.R. Coyle, M.M. Cram, R.D. Lucardi, A.M. Mech, and K.J.K. Gandhi. An update on the range of *Matsucoccus macrocicatrices* and dieback of the woody “weed” of the east. Southern Appalachian Forest Entomology/Pathology Seminar. March 2015, Crossnore, NC.
- Schulz, A., C. Asaro, D.R. Coyle, M. Cram, R. Lucardi, A.M. Mech, K.J.K. Gandhi. Mapping the distribution of a potentially new tiny terror in southern white pine forests. Entomological Society of America National Meeting, 16-19 November 2014, Portland, OR. (12 min.).
- Coyle, D., B. Barnes, C. Helbig, K. Klepzig, F. Koch, L. Morris, J. Nowak, W. Otrrosina, W. Smith, and K. Gandhi. Abiotic and biotic factors influencing pine health in Georgia and Alabama. IUFRO XXIV World Congress, 5-11 October 2014, Salt Lake City, UT. (20 min).
- Coyle, D., B. Barnes, C. Helbig, K. Klepzig, F. Koch, L. Morris, J. Nowak, W. Otrrosina, W. Smith, and K. Gandhi. Abiotic and biotic factors influencing southern pine health in Georgia and Alabama: A holistic perspective. Southern Forest Insect Work Conference, 22-25 July 2014, Charleston, SC. (22 min.).
- Schulz, A.N., C. Asaro, D.R. Coyle, M.M. Cram, R.D. Lucardi, A.M. Mech, and K.J.K. Gandhi. Severity and extent of white pine dieback in the Chattahoochee National Forest in Georgia. Southern Forest Insect Work Conference, 22-25 July 2014, Charleston, SC. (12 min.).
- Helbig, C.E., D.R. Coyle, K.D. Klepzig, J.T. Nowak, and K.J.K. Gandhi. Rhizophagous weevils - primary or secondary pests on loblolly pines? Southern Forest Insect Work Conference, 22-25 July 2014, Charleston, SC. (12 min.).
- Helbig C., D. Coyle and K. Gandhi. Do root-feeding weevils attack healthy loblolly pine? Southern Appalachian Forest Entomologist and Pathologist Seminar, 6-7 March 2014, Crossnore, NC. (10 min.).

- Schulz, A.N., A.M. Mech, D.R. Coyle, C. Asaro, M.M. Cram, R.D. Lucardi, and K.J.K. Gandhi. Patterns and causes of white pine dieback in the Southern Appalachian Mountains. Southern Appalachian Forest Entomology/Pathology Seminar. March 2014, Crossnore, NC.
- Schulz, A.N., A.M. Mech, D.R. Coyle, C. Asaro, M.M. Cram, R. Lucardi, and K.J.K. Gandhi. Monitoring eastern white pine (*Pinus strobus*) dieback in the Southern Appalachian Mountains. Warnell Graduate Student Symposium. February 2014, Athens, GA.
- Novick, K.A., D. Coyle, S.O. Denham, H.M. Ritger, C. Williams, R. Oren, H. McCarthy, G. Katul. The biophysical controls on tree defense against attacking bark beetles in managed pine forests of the Southeastern US. American Geophysical Union Fall Meeting, 9-13 December 2013, San Francisco, CA. (15 min.).
- Mech, A.M., D.R. Coyle, M. Cram, C. Asaro, P.J. Gullan, L.G. Cook, and K.J.K. Gandhi. *Matsucoccus macrocicatrices*: a new distribution and potential threat to eastern white pine in the Southeast. Southern Forest Insect Work Conference, 23-26 July 2013, New Orleans, LA. (12 min.).
- Nowak, J.T., J.R. Meeker, D.R. Coyle, C.A. Brownie, and C. Steiner. Evaluation of the efficacy of the SPB prevention program. Southern Forest Insect Work Conference, 23-26 July 2013, New Orleans, LA. (15 min.).
- Coyle, D.R., J. Dean, L. Morris, K. Gandhi, J. Nowak, F. Koch, K. Klepzig, W. Orosina, and W. Smith. Dieback of southern pines: etiology and management. Southern Forest Insect Work Conference, 23-26 July 2013, New Orleans, LA. (20 min.).
- Callahan, Jr., M.A. and D.R. Coyle. Whence comes the Millennial soil ecology student, and what to do about the taxonomy thing? 2013 Biennial Meeting of the Soil Ecology Society, 11-14 June 2013, Camden, NJ. (20 min.).
- Zalesny, R.S., D. Donner, D.R. Coyle. An approach for siting poplar energy production systems to increase productivity in Minnesota and Wisconsin. Short Rotation Woody Crops Operations Working Group Conference, 5-8 November 2012, Oak Ridge, TN. (20 min.).
- Kaczmarek, D.J., B.C. Wachelka, J. Wright, V.C. Steel, D.P. Aubrey, D.R. Coyle, and M.D. Coleman. Development of high-yielding sweetgum plantation systems for bioenergy production in the southeastern United States. Short Rotation Woody Crops Operations Working Group Conference, 5-8 November 2012, Oak Ridge, TN. (20 min.).
- Asaro, C., D. Coyle, A. Mech, K. Gandhi, and M. Cram. Monitoring the impacts of a potential scale/pathogen complex on symptomatic eastern white pine trees in the Southern Appalachians. Southern Forest Insect Work Conference, 24-27 July 2012, Charlottesville, VA. (15 min.).
- Cram, M., A. Mech, C. Asaro, D. Coyle, P. Gullan and K. Gandhi. *Caliciopsis pinea* and other fungal pathogens associated with *Matsucoccus* damage to *Pinus strobus* in Virginia and Georgia. Southern Forest Insect Work Conference, 24-27 July 2012, Charlottesville, VA. (15 min.).
- Coyle, D.R., J.A. Zalesny, and R.S. Zalesny, Jr. A comprehensive database of poplar research in North America from 1980 – 2010. Fifth International Poplar Symposium, 20-25 September 2010, Orvieto, Italy. (20 min).
- Zalesny, R.S. Jr., D.M. Donner, D.R. Coyle, W.L. Headlee, and R.B. Hall. An approach for siting poplar energy production systems to increase productivity and associated

- ecosystem services. Fifth International Poplar Symposium, 20-25 September 2010, Orvieto, Italy (20 min).
- Staeben, J., Nowak, J., Johnson, J., Clark, S., Coyle, D., and Gandhi, K.J.K. 2010. Southern pine beetle: evaluation of current population prediction models, and effects of their forest management activities on litter-dwelling beetles. The Daniel B. Warnell Graduate Student Symposium, 4-5 March 2010, University of Georgia, Athens, GA. (15 min.).
- Donner, D.M., M. St. Pierre, R.S. Zalesny Jr., D.R. Coyle, C.A. Ribic and D. Eklund. Impacts of harvesting forest residues for bioenergy on nutrient cycling and community assemblages in northern hardwood forests. IEA Bioenergy Conference Task 43: Biomass Feedstocks for Energy Markets, 1-4 June 2009, Kamloops, BC, Canada. (20 min).
- Coyle, D.R., K.E. Clark, K.F. Raffa, and S.N. Johnson. Effect of host legacy on adult black vine weevil performance. Entomological Society of America North Central Branch Meeting, 15-18 March 2009, St. Louis, MO. (12 min).
- Zalesny, J.A., R.S. Zalesny, Jr., D.R. Coyle, R.B. Hall, and E.O. Bauer. *Populus* root system morphology during phytoremediation of landfill leachate. Proceedings of the Short Rotation Crops International Conference, 18-22 August 2008, Bloomington, MN. (20 min.)
- Hillstrom, M., L. Vigue, D. Coyle, R. Lindroth, and K. Raffa. Preference, fecundity and mortality of the weevil *Polydrusus sericeus* feeding on trees fumigated with elevated carbon dioxide and ozone. Entomological Society of America National Meeting, 9-12 December 2007, San Diego, CA. (12 min.)
- Coleman, M., D. Aubrey, D. Coyle, L. Samuelson, and R. Will. Contrasting activity and surface area for leaves and roots of intensively managed south-eastern US forest species. 2006 IUFRO 4.04.02 Forest Plantations Meeting, 10-13 October 2006, Charleston, SC. (15 min.)
- Coleman, M., D. Aubrey, D.R. Coyle, and R.F. Daniels. Fertilizer response curves for commercial southern forest species defined with an un-replicated experimental design. Soil Science Society of America Annual Meeting, 6-10 November 2005, Salt Lake City, UT. (15 min.)
- Coyle, D.R. and M.D. Coleman. Effects of irrigation and fertilization on growth and productivity of sweetgum and loblolly pine. Biennial Meeting of the Short Rotation Woody Crops Operations Working Group, 7-10 November 2004, Charleston, SC (45 min.)
- Will, R.E., C.B. Allen, D. Daniels, R. McGarvey, M.D. Coleman, and D.R. Coyle. The effect of water and nutrient availability on radiation use efficiency and photosynthetic capacity of short rotation woody crops. Short-Rotation Woody Crops Cooperative Research Program Annual Meeting, 21-23 January 2004, Aiken, SC. (20 min.)
- Cram, M., P. Spaine, S. Lumpkin, D. Coyle, K. Britton, and M. Coleman. Effects of irrigation and fertilization on the susceptibility of sweetgum to *Botryosphaeria* infection. Short-Rotation Woody Crops Cooperative Research Program Annual Meeting, 21-23 January 2004, Aiken, SC. (20 min.)
- Coyle, D.R. and M.D. Coleman. SRWCCRP: growth and productivity. Short-Rotation Woody Crops Cooperative Research Program Annual Meeting, 21-23 January 2004, Aiken, SC. (20 min.)

- Allen, C.B., R.E. Will, D.R. Coyle, and M.D. Coleman. The effect of resource availability on canopy dynamics and biomass accumulation in fertigated hardwood stands. Ecological Society of America National Meeting, 3-8 August 2003, Savannah, GA. (15 min.)
- Coyle, D.R. Experiment A pests: what, when, and why. Short-Rotation Woody Crops Cooperative Research Program Annual Meeting, 17-18 October 2002, Aiken, SC. (45 min.)
- Will, R., C. Allen, D. Daniels, R. McGarvey, M. Coleman, and D. Coyle. The effects of water and nutrient availability on the radiation use efficiency and photosynthetic capability of short rotation woody crops. Short-Rotation Woody Crops Cooperative Research Program Annual Meeting, 17-18 October 2002, Aiken, SC. (45 min.)
- Coyle, D.R. and M.D. Coleman. Irrigation and fertilization effects on above and belowground growth and productivity of four tree species in an intensively managed plantation. Biennial Meeting of the Short-Rotation Woody Crops Operations Working Group, 14-17 September 2002, Alexandria, MN. (30 min.)
- Coyle, D.R. and M.D. Coleman. Experiment A: 2001 Productivity Responses. Short-Rotation Woody Crops Cooperative Research Program Annual Meeting, 18-19 October 2001, Aiken, SC. (30 min.)
- Coyle, D.R., M.D. Coleman, and L.A. Newman. *Populus* clonal trials at the Savannah River Site. Short-Rotation Woody Crops Cooperative Research Program Annual Meeting, 18-19 October 2001, Aiken, SC. (45 min.)
- Coyle, D.R., J.D. McMillin, R.B. Hall, and E.R. Hart. Effect of cottonwood leaf beetle defoliation on *Populus* above-ground growth and volume. Entomological Society of America National Meeting, 3-7 December 2000, Montreal, Quebec, Canada. (12 min.)
- Coyle, D.R. Cottonwood leaf beetle management in plantation *Populus*. Short-Rotation Woody Crops Cooperative Research Program Annual Meeting, 24-25 October 2000, Aiken, SC. (20 min.)
- Coyle, D.R. and M.D. Coleman. Experiment A: fundamental controls of growth and productivity in short-rotation woody crops – first year results. Short-Rotation Woody Crops Cooperative Research Program Annual Meeting, 24-25 October 2000, Aiken, SC. (45 min.)
- Coyle, D.R. and M.D. Coleman. Experiment A: fundamental controls of growth and productivity in short-rotation woody crops – first year results. Biennial meeting of the Short-Rotation Woody Crops Operations Working Group, 10-13 October 2000, Syracuse, NY. (15 min.)
- Coyle, D.R., J.D. McMillin, R.B. Hall, and E.R. Hart. Cottonwood leaf beetle defoliation impact on *Populus* growth. 21st Session of the International Poplar Commission, 24-28 September 2000, Vancouver, WA. (15 min.)
- McMillin, J.D., D.R. Coyle, R.B. Hall, and E.R. Hart. Deployment of tree resistance to insects in short-rotation biomass plantations. XXI International Congress of Entomology, 20-26 August 2000, Iguassu Falls, Brazil. (20 min.)
- Coyle, D.R., J.D. McMillin, R.B. Hall, and E.R. Hart. Cottonwood leaf beetle larval performance on eight *Populus* spp. hybrids. Entomological Society of America National Meeting, 12-16 December 1999, Atlanta, GA. (10 min.)
- Coyle, D.R., J.D. McMillin, S.C. Krause, and E.R. Hart. Field evaluations of two commercial Bt formulations for cottonwood leaf beetle management. Poplar Council of the United States Biennial Meeting, 18-19 August 1999, Alexandria, MN. (25 min.)

- Coyle, D.R., J.D. McMillin, S.C. Krause, and E.R. Hart. Laboratory and field evaluations of Novodor and Raven for control of cottonwood leaf beetle. Rocky Mountain Conference of Entomologists, 1-5 August 1999, Woodland Park, CO. (20 min.)
- Coyle, D.R., J.D. McMillin, E.R. Hart, and S.C. Krause. Field and laboratory evaluations of Novodor® (*Bacillus thuringiensis* subsp. *tenebrionis*) for control of the cottonwood leaf beetle. Entomological Society of America North Central Branch Meeting, 28-31 March 1999, Des Moines, IA. (12 min.)
- Hart, E.R., D.R. Coyle, J.D. McMillin, and T.E. Nebeker. Integrated pest management of the cottonwood leaf beetle: A program in progress. North Central Forest Pest Workshop, 14-17 September 1998, Dubuque, IA. (20 min.)

Technical society presentations: no information available

Extension training programs, short courses, workshops, presentations:

- Tree pest update for the Urban Tree Health Workshop, 13 June 2024, Greenville, SC (65 ppl, 1 hr classroom instruction)
- Invasive species in-service training workshop for Clemson Extension and Regulatory, 11 June 2024, Columbia, SC (65 ppl, co-organized 3.5 hrs classroom instruction, delivered 30 min classroom instruction)
- Southeast Oklahoma Forest Health Workshop, 10 May 2024, Idabel, OK (35 ppl, 3 hrs classroom instruction + 2 hrs field instruction)
- Urban Tree Health Workshop, 9 May 2024, Stillwater, OK (50 ppl, 3 hrs classroom instruction)
- Forest health, invasive species, and silviculture training for Texas A&M Forest Service, 7 May 2024, Nacogdoches, TX (75 ppl, 4 hrs classroom instruction + 2 hrs field instruction)
- Invasive Plant Management Workshop, 24 April 2024, Edisto REC, Blackville, SC (20 ppl, 1.25 hrs classroom instruction, 2 hrs field instruction)
- Tree pathogens. South Carolina Arborist Workshop, 21 March 2024, Irmo, SC (80 ppl, 50 min. live presentation)
- Urban Tree Health Workshop, 1 March 2024, Hilton Head, SC (20 ppl, 1 hr live presentation) (co-organized workshop)
- Entomology presentation for Rocky Branch Elementary School 2nd graders, 29 September 2023 (80 ppl, 2 hrs live presentation)
- Urban Tree Health Workshop, 28 September 2023, North Augusta, SC (44 ppl, 1 hr live presentation) (co-organized workshop)
- Insects for Rocky Branch Elementary School STEAM Night, 21 September 2023 (150 ppl, 2 hrs live presentation)
- Things that flutter and gorgeous caterpillars workshop, 6 September 2023, Pinewood Lake Park, Columbia SC. Delivered with Jay Keck, SCWF (15 ppl, 3 hrs field instruction)
- Things that flutter and gorgeous caterpillars workshop, 31 August 2023, SC Botanical Garden, Clemson SC. Delivered with Jay Keck, SCWF (10 ppl, 3 hrs field instruction)
- Invasive species management. USDA Forest Service National Advanced Silviculture Program, 7 August 2023, Asheville, NC (35 ppl, 75 min classroom instruction)
- Invasive species. Forestry Association of South Carolina Young Professionals Summit, 18 May 2023, Greenville, SC (65 ppl, 30 min classroom instruction)

- Tree health, invasive species, and silviculture training for Oklahoma Forestry Services and Oklahoma Cooperative Extension Service, 9-10 May 2023, Tulsa, OK. (33 ppl, 5 hrs classroom instruction + 2 hrs field instruction)
- Pine straw workshop, 24 April 2023, Chesterfield, SC; co-organized and delivered with Ryan Bean and TJ Savereno (Clemson Extension) (35 ppl, 2 hrs classroom instruction + 2 hrs field instruction)
- Invasive plants workshop, 14 April 2023, Clemson Sandhill REC; co-organized & delivered with Janet Steele (Clemson Extension) (37 ppl., 1.5 hrs classroom instruction + 2 hrs field instruction)
- Bugging out: forest pest issues after severe storms. Florida Parishes Forestry Forum, 17 March 2023, Hammond, LA. (75 ppl, 45 min classroom instruction)
- Forest health and invasive species training for Louisiana Department of Agriculture and Forestry personnel, 15-16 March 2023, Husser, LA. (25 ppl, 6 hrs classroom instruction + 2 hrs field instruction)
- Pine straw workshop. 25 January 2023, Appalachian Society of American Foresters Winter Meeting, 25-27 January 2023, Columbia, SC. Co-delivered with Ryan Bean and T.J Savereno, 3 hrs classroom instruction, 15 ppl.
- What's bugging my trees? 28 October 2022, TreesSC Annual Conference, 27-28 October 2022, Greenville, SC
- A picture's worth a thousand words: using social media to diagnose forest health issues. 27 October 2022, Upper Midwest Invasive Species Conference, 25-27 October 2022, Green Bay, WI (virtual presentation)
- Invasive species in South Carolina: are we doomed? 20 October 2022, 2022 South Carolina Master Gardener Conference, Columbia, SC
- ALB research program at Clemson University, 18 October 2022, 2022 Asian Longhorned Beetle Cooperators meeting, 18-19 October 2022, Charleston, SC
- Things that flutter and gorgeous caterpillars workshop, 16 September 2022, Riverbanks Zoo, Columbia SC. Delivered with Jay Keck, SCWF (22 ppl, 3 hrs field instruction)
- Tree Health and Urban Pest Management Workshop, 13 September 2022, Washington, DC (50 ppl, 3 hrs classroom and field instruction)
- Virtual Forest Health Workshop, 8 and 15 September 2022; co delivered with Dr. Kelly Oten (NC State), (8 ppl, 4 total hrs online instruction)
- Asian longhorned beetle workshop, 9-10 August 2022, Hollywood, SC (32 ppl, 4 hrs classroom instruction, 4 hrs field instruction; DRC organized, facilitated, and coordinated entire program):
- Coyle, D.R. ALB in North America. Asian longhorned beetle workshop, 9 August 2022, Hollywood, SC (30 min).
- Coyle, D., K. Oten, A. Ratcliff, H. Ritger, and K. Dean. ALB field training. Asian longhorned beetle workshop, 9 August 2022, Hollywood, SC (120 min).
- Coyle, D. Overview of ALB research in SC. Asian longhorned beetle workshop, 10 August 2022, Hollywood, SC (20 min).
- Lupu, M. and D. Coyle. The potential for Asian longhorned beetle biocontrol in South Carolina. Asian longhorned beetle workshop, 10 August 2022, Hollywood, SC (20 min).

- Crout, K., H. Ritger, R. Ritger, and D. Coyle. ALB in SC: developing an outreach program. Asian longhorned beetle workshop, 10 August 2022, Hollywood, SC (20 min).
- Bean, M., T. Trotter, and D. Coyle. Modelling density of Asian longhorned beetle activity by canopy height. Asian longhorned beetle workshop, 10 August 2022, Hollywood, SC (20 min).
- Schmitt, L, R.T. Trotter, S.E. Pfister, and D.R. Coyle. Phenology of Asian longhorned beetle (*Anoplophora glabripennis*). Asian longhorned beetle workshop, 10 August 2022, Hollywood, SC (20 min).
- Ratcliff, A., K. Oten, D. Coyle. Adventures in beetle busting: alternative methods for the eradication of Asian longhorned beetle in South Carolina. Asian longhorned beetle workshop, 10 August 2022, Hollywood, SC (20 min).
- Coyle, D., M. Bean, and A. Ronan. Field tour of Stono River County Park ALB collaboration. Asian longhorned beetle workshop, 10 August 2022, Hollywood, SC (90 min).
- Forest Health, Invasive Species, and Silviculture Training for Virginia Department of Forestry Personnel, 9 June 2022, Galax, VA (31 ppl, 3 hrs classroom instruction)
- Forest Health, Invasive Species, and Silviculture Training for Virginia Department of Forestry Personnel, 8 June 2022, Charlottesville, VA (51 ppl, 3 hrs classroom instruction)
- Invasive Species Workshop, 7 June 2022, Clemson Outdoor Lab; co-organized & delivered with Janet Steele and Carolyn Dawson (Clemson Extension) (41 ppl., 3 hrs classroom instruction + 2 hrs field instruction)
- Fire and Invasives. Southern Blue Ridge Fire Learning Network meeting, 27 May 2022, Dillard, GA (50 ppl, 1 hr classroom instruction)
- ALB Biology and Research in SC. National Plant Board – Safeguarding American Plant Resources Meeting, 24 May 2022, Charleston, SC (40 ppl, 90 min field discussion)
- The South Carolina Bradford Pear Bounty Program. SC Arborists Workshop, 19 May 2022, Irmo, SC. (60 ppl, 45 min classroom instruction)
- Hardwood Health Virtual Workshop. Clemson Extension, 12 May 2022. (28 ppl, 2 hrs virtual instruction)
- Invasive Species Workshop, 4 May 2022, Clemson Pee Dee Rec; co-organized & delivered with Janet Steele and TJ Savereno (Clemson Extension) (23 ppl., 3 hrs classroom instruction + 2 hrs field instruction)
- Forest Health Training for NC/SC Professionals, 3 May 2022, Smithfield, NC; co-organized & delivered with Dr. Kelly Oten (NCSU Extension) (45 ppl., 2 hrs classroom instruction)
- Forest Health Training for NC/SC Professionals, 26 April 2022, Morganton, NC; co-organized & delivered with Dr. Kelly Oten (NCSU Extension) (32 ppl., 2 hrs classroom instruction)
- Wildland Fire Training Virtual Panel Discussion, 21 April 2022. (25 live viewers, 1 hr online Q&A).
- Pine Health Virtual Workshop. Clemson Extension, 21 April 2022. (50 ppl, 2 hrs virtual instruction)
- Insect management in pines and hardwoods. UGA Extension – Effingham County Forestry Field Day, 24 March 2022. (35 ppl, 30 min recorded instruction)
- Forest health and invasive species Open House, University of South Carolina – W. Gordon Belser Arboretum, 20 March 2022. (25 ppl, 2 hrs live instruction/field tour)

- Forest health and invasive species workshop, Clemson Extension, Sandhill REC, 10 March 2022. (32 ppl, 2.5 hr instruction + 2hr field tour)
- Invasive plant management. Nebraska Weed Control Association 75th Annual Conference and Trade Show, 8 February 2022, Norfolk, NE. (72 ppl., 120 min classroom instruction)
- Invasive plant ID and management. Forest Pest Workshop, ApSAF Annual Conference, 26 January 2022, Asheville, NC. (31 ppl., 30 min. classroom instruction)
- Bradford Pear Bounty. Clemson Extension Upstate Regional Meeting, 7 December 2021. (36 ppl, 15 min virtual presentation)
- Invasive species in Georgia. Georgia Master Naturalists, UGA Extension Gwinnett County, 12 October 2021. (12 ppl, 1.5 hr online instruction)
- Insects for Rocky Branch Elementary School STEAM Night, 23 September 2021. (150 ppl, 2 hrs live presentation)
- Birds and Butterflies Outreach Program, 16 September 2021. Co-presented with Jay Keck, SCWF, at the SC Botanical Garden. (14 ppl, 3 hr classroom and field instruction)
- Cliffs at Glassy (Landrum, SC) Homeowner Association Monthly Meeting, 30 August 2021. (14 live viewers, in-person presentation on invasive species management)
- Asian longhorned beetle field training for Virginia Cooperative Extension and Society of American Foresters personnel, 27 August 2021. (2 ppl, 1 hr field instruction).
- South Carolina Association of County Agricultural Agents, 16 August 2021. (23 live viewers, 1 hr virtual presentation)
- Longleaf Alliance: Longleaf 201 Virtual Short Course Panel Discussion, 23 July 2021. (39 live viewers, 1 hr online Q&A).
- Invasive plant identification and management: Longleaf Alliance Virtual Herbicides & Longleaf 201 Academy, 6-30 July 2021. (76 ppl, 2 hr online instruction).
- Invasive plant identification and management: USDA NRCS-SC Virtual Conference, July 2021. (36 ppl, 2 hr online instruction).
- Forest health and invasive species virtual workshop for Arkansas forestry educators, 14 July 2021. (9 ppl, 2 hr online instruction).
- Forest health and invasive species virtual workshop for Arkansas forestry professionals, 13 July 2021. (35 ppl, 2 hr online instruction).
- Pine straw management virtual workshop, 15-16 June 2021. (81 registered, 4 hrs online instruction). Co-given with Ryan Bean and TJ Savereno, Clemson Extension.
- Invasive plant identification and management, 9 June 2021, Invasive Plants and Pesticides Workshop for SC WOW and Heirs Property, Clemson CREC. (25 ppl, 1 hr classroom instruction + 2 hr field instruction)
- Invasive plant identification and management, 8 June 2021, Invasive Plants and Pesticides Workshop, Clemson Edisto REC. (50 ppl, 1 hr classroom instruction)
- Hardwood pests, part II. 2 June 2021, Mississippi Forestry Commission in-service training workshop. (30 ppl, 50 min. online instruction).
- Hardwood pests, part I. 2 June 2021, Mississippi Forestry Commission in-service training workshop. (30 ppl, 50 min. online instruction).
- Pine pests, part II. 1 June 2021, Mississippi Forestry Commission in-service training workshop. (30 ppl, 50 min. online instruction).
- Pine pests, part I. 1 June 2021, Mississippi Forestry Commission in-service training workshop. (30 ppl, 50 min. online instruction).

- Invasive species in South Carolina. 25 May 2021, South Carolina Forestry Commission in-service training workshop. (37 ppl., 45 min. online instruction).
- On the lookout: Asian longhorned beetle. 28 April 2021, Florida Cooperative Invasive Species Management monthly webinar series. (32 ppl., 1 hr online instruction).
- Asian longhorned beetle field training for GA DNR and UGA personnel, 28 April 2021. (3 ppl, 2.5 hr field instruction).
- Tri-County Forest Landowner Meeting: An update on the Asian longhorned beetle. 20 April 2021. (30 live viewers, 15 min. online)
- SC Arborists Workshop: They're here: New (and old) invasive pests of trees in South Carolina. 15 April 2021. (52 live viewers, 1 hr online)
- Longleaf Alliance: Longleaf 101 Virtual Short Course Panel Discussion, 1 April 2021. (36 live viewers, 1 hr online Q&A).
- Asian longhorned beetle field training for Clemson FEC, USDA Forest Service, and GA Dept. of Ag personnel, 30 March 2021. (6 ppl, 2 hr field instruction).
- Forest health updates: invasive species, native pests, and new technologies. USDA RREA Virtual workshop, 29 March 2021. (168 live viewers, 2 hrs virtual instruction). Available at <https://www.youtube.com/playlist?list=PLyMFgPGbelc89bOMbB3KI3lOOEP4d9vXE>
- Forest and tree health workshop. Clemson Extension Virtual Series, 24-26 March 2021. (69 live viewers, 6 hr online instruction).
- Invasive plant identification and management. SC Women Owning Woodlands Spring Webinar Series, 2 March 2021. (39 live viewers, 1 hr online instruction).
- Identification and management of invasive insects and plants. SC Green Conference & Trade Show, 29 January 2021. (132 live viewers, 1 hr online instruction).
- Identification and management of invasive insects and plants. SC Green Conference & Trade Show, 28 January 2021. (103 live viewers, 1 hr online instruction).
- An update on the Asian longhorned beetle in South Carolina. Northeast-Midwest State Foresters Alliance, Forest Health Group quarterly meeting. 15 December 2020. (40 live viewers, 20 min online instruction).
- Asian longhorned beetle update. Lowcountry Landowners Association, 19 November 2020. (35 live viewers, 15 min online instruction).
- Invasive species, Part 4-H Forest Explorers Facebook Live presentation to elementary school children, 17 November 2020. (20 live viewers, 1 hr online instruction).
- Using social media to improve your reach, 13 November 2020, Part of the 2020 Entomological Society of America Virtual Annual Meeting Share Fair. (20 live viewers, 1 hr online instruction).
- Current and emerging forest pests in southern forests, 4 November 2020, Part of the 2021 USFS Southern Region Silviculture Recertification Workshop. (35 live viewers, 1 hr online instruction).
- Pine straw management virtual workshop, 16, 23, 30 September and 7 October. (70 registered, 4 hrs online instruction). Co-given with Ryan Bean and TJ Savereno, Clemson Extension.
- Ornamental plants: Addressing concerns about exotic species movement and invasions. Florida Ornamental IPM Virtual Workshop, 19 August 2020. (56 ppl, 1 hr online instruction).
- Asian longhorned beetle field training for SCFC and Clemson University personnel, 13 August 2020. (2 ppl, 2 hr field instruction).

- Asian longhorned beetle online training for Charleston County Parks Division personnel, 7 August 2020. (14 ppl, 1 hr online instruction).
- Asian longhorned beetle field training for Bartlett Tree Corp. personnel, 31 July 2020. (7 ppl, 1.5 hr field instruction).
- Asian longhorned beetle field training for Clemson Extension personnel, 1 July 2020. (6 ppl, 1.5 hr field instruction).
- Asian longhorned beetle field training for Clemson Extension personnel, 31 June 2020. (5 ppl, 1.5 hr field instruction).
- Asian longhorned beetle field training for Clemson Extension, Georgia Forestry Commission, and South Carolina Forestry Commission personnel, 24 June 2020. (9 ppl, 1.5 hr field instruction).
- Invasive plant management webinar series. Clemson Extension, 15-19 June 2020. (43 ppl, 2 hr online instruction).
- Invasive plant management. Clemson Extension Advanced Master Gardener training, 23 April 2020. (86 ppl, 1 hr online instruction).
- Extension Communications workshop. In-person training for Clemson Extension personnel. 27 February 2020, Columbia, SC. (38 ppl, 2 hrs classroom instruction).
- Forest health updates. In-person training for professionals. 26 February 2020, Milton, FL (35 ppl, 1 hr classroom instruction).
- What's bugging my oak trees? Oak pest training for the Rainbow Treecare Plant Health Seminar, 4 February 2020, Milwaukee, WI (65 ppl, 1 hr classroom discussion).
- Invasive plants training for the Longleaf Alliance (Longleaf 101 workshop). 16 January 2020, Ridgeland, SC (34 ppl. 1 hr classroom instruction).
- Forest pests training for the Longleaf Alliance (Longleaf 101 workshop). 16 January 2020, Ridgeland, SC (34 ppl. 1 hr classroom instruction).
- Common forest pest identification and management, in-service training for NC Forest Service personnel, 4 December 2019, Morganton, NC (70 ppl, 1 hr classroom instruction)
- Pine Straw Workshop, 14 November 2019, Columbia, SC (45 ppl, 4 hrs classroom and field instruction)
- Professional tree care and health workshop, 17 October 2019, North Augusta, SC (40 ppl, 1.5 hrs classroom instruction); part of field day organized by DRC.
- Forest pest identification workshop (with Ms. Jess Cancelliere and Ms. Caroline Marschner), 1 October 2019, Saratoga Springs, NY (32 ppl, 1.5 hrs classroom instruction); part of the NAISMA Annual Conference.
- Pine Straw Workshop, 10 September 2019, Columbia, SC (39 ppl, 4 hrs classroom and field instruction)
- Forest health, invasive species, and social media training for professionals, 4 September 2019, Cadiz, KY (44 ppl, 3 hrs classroom instruction)
- Forest health training for the Louisiana Department of Agriculture and Forestry, 13 August 2019, Baton Rouge, LA (25 ppl, 6 hrs classroom instruction)
- South Carolina Master Naturalists training, 10 July 2019, Columbia, SC. (21 ppl. total, 6 hrs classroom instruction)
- Forest health and silviculture training for the South Carolina Forestry Commission, 8-9 July 2019, Columbia, SC (45 ppl, 9 hrs classroom and field instruction)
- Arkansas forest health workshop, Searcy, AR, 22 May 2019 (70 ppl., 1 hr classroom instruction, 2 hrs field instruction)

- Arkansas forest health workshop, Monticello, AR, 21 May 2019 (30 ppl., 1 hr classroom instruction, 2 hrs field instruction)
- Auburn/Clemson Forestry & Wildlife Team In-Service Training, Auburn, AL, 1-3 May 2019 (30 ppl., 1 hr classroom instruction, 1.5 hrs laboratory instruction; helped organize wksp)
- Forest health & invasive species workshop, Greenville, SC, 18 April 2019 (22 ppl., 4.5 hrs classroom instruction; helped organize wksp)
- Invasive species training for the Clemson Forestry & Natural Resources and Horticulture teams, 7 February 2019, Columbia, SC (32 ppl., 4.5 hrs classroom instruction).
- Invasive species in Georgia, presented for the Georgia Master Gardeners program, 5 February 2019, Athens, GA (20 ppl., 2.5 hrs classroom instruction).
- Skype A Scientist (<https://www.skypeascientist.com/>) forestry discussion with Mrs. Alissa Kloster's 3rd grade at Jones Elementary School, Joliet, IL (25 ppl. 1 hr online session).
- Invasive plants training for the Longleaf Alliance (Longleaf 101 workshop). 6 December 2018, Georgetown, SC (28 ppl. 1 hr classroom instruction).
- Forest pests training for the Longleaf Alliance (Longleaf 101 workshop). 6 December 2018, Georgetown, SC (28 ppl. 1 hr classroom instruction).
- Forest health, invasive species, and silviculture training, presented for the NC Forest Service and NC State Extension, 5 December 2018, Smithfield, NC (65 ppl, 4 hrs classroom instruction)
- Forest health, invasive species, and silviculture training, presented for the NC Forest Service and NC State Extension, 4 December 2018, Morganton, NC (70 ppl, 4 hrs classroom instruction)
- Forest management, presented at the Georgia Landowner Academy, 5 November 2018, Tifton, GA (25 ppl, 2 hrs classroom instruction)
- An update on forest health in the Southeast, presented at Forestry for Non-Foresters Workshop, 25 October 2018, Athens, GA (35 ppl, 1.5 hrs classroom instruction)
- Know the problem: Tips to identifying invasive forest and range pests (with Dr. Angela Gupta and Ms. Angie Ambourn), 16 October 2018, Rochester, MN (22 ppl, 1.5 hrs classroom instruction); part of the Joint UMISC/NAISMA Conference.
- Managing forests for health, wildlife, and productivity (with Drs. Elizabeth Benton and Mark McConnell, UGA-Warnell), 9-10 October 2018, Athens, GA (23 ppl, 12 hrs classroom and field instruction).
- Forest health and invasive species training for Tennessee Department of Agriculture – Forestry Division, 25 July 2018, Bell Buckle, TN (45 ppl, 8 hrs classroom and field instruction).
- South Carolina Master Naturalists training. 11 July 2018, Columbia, SC. (20 ppl. total, 6 hrs classroom instruction).
- Forest health and invasive species training for Oklahoma Forestry Service and Oklahoma Cooperative Extension Service, 16-17 May 2018, Broken Bow, OK (30 ppl, 10 hrs classroom and field instruction).
- Texas ISA Emerald Ash Borer Training Workshop. 29 March 2018, Tyler, TX (50 ppl, 1 hr classroom instruction).
- Forest Pest Training for UGA Extension Agents. 25 January 2018, Rock Eagle Center near Eatonton, GA (42 ppl total, 1 hr classroom instruction).
- Longleaf Alliance Forest Health training. 23 January 2018, Aiken, SC (40 ppl. total 1.5 hrs classroom instruction).

- South Carolina Master Naturalists training. 9 August 2017, Columbia, SC. (30 ppl. total, 6 hrs classroom instruction).
- Forest health and invasive species training. Training for Alabama Forestry Commission and Alabama USDA NRCS agents, 27-28 June 2017, Huntsville, AL; 18-19 July 2017, Andalusia, AL. (75 ppl. total, 10 hrs classroom and field instruction each day).
- Forest health, invasive species, and silviculture training. Training for Virginia Department of Forestry and Virginia Cooperative Extension agents, 23 and 25 May 2017, Chesterfield and Amherst, VA. (70 ppl. total, 7 hrs classroom and field instruction each day).
- Forest & Tree Health, Invasive Species, and Silviculture & Tree Care Training. Training for Clemson University Horticulture and Natural Resource Extension Agents. 9-10 May 2017, Clemson, SC. (25 ppl., 14 hrs classroom and field instruction).
- Identification and management of invasive and native pests in Georgia's forests (with Dr. Elizabeth Benton, UGA-Warnell), 9-10 March 2017, Perry, GA. (35 ppl, 1.5 hrs classroom instruction).
- Pine straw production – stand management and economics (with Drs. David Dickens and Dave Moorhead, UGA-Warnell), 11-12 October 2016, Statesboro, GA (30 ppl, 12 hrs classroom and field instruction; DRC lecture for 1 hr).
- Managing forests for health, wildlife, and productivity (with Drs. Elizabeth Benton and Mark McConnell, UGA-Warnell), 4-5 October 2016, Athens, GA (35 ppl, 12 hrs classroom instruction).
- Forest health, invasive species, and silviculture training. Training for South Carolina Forestry Commission field agents, 16-17 August 2016, Columbia, SC. (45 ppl, 9 hrs classroom and field instruction).
- Forest health, invasive species, and silviculture training. Training for Texas A&M Forest Service agents, 13-14 July 2016, Lufkin, TX (35 ppl, 5 hrs classroom instruction, 5 hrs field instruction).
- Forest health, invasive species, and silviculture (with Bobby Solomon, Fort Valley State University Extension), 30 June 2016, Talbotton, GA. (20 ppl, 5 hrs classroom instruction).
- Forest health and invasive species training. Training for Fort Valley State University Extension personnel, 29 February 2016, Ft. Valley, GA. (20 ppl, ½ hr classroom instruction).

Poster presentations

Invited: no information available

Submitted

- Johnson, C., D. Coyle, A. Ratcliff, and K. Oten. Drop-and-leave: Implementing alternative management strategies for the Asian longhorned beetle in South Carolina. Southern Forest Health Work Conference, 16-18 July 2024, Greenville, SC.
- Chuang, A, D. Coyle, and J. Hartshorn. Development of an EDRR strategy for states' responses to non-regulated forest pests. Southern Forest Health Work Conference, 16-18 July 2024, Greenville, SC.
- Kennett, S.M., R. De La Torre, J.A. Hartshorn, R.S. Cameron, and C.W. Berisford. Impacts of Nantucket pine tip moth, *Rhyacionia frustrana* (Lepidoptera: Tortricidae) management on rotation-length economic returns of loblolly pine in North Carolina. Southern Forest Health Work Conference, 16-18 July 2024, Greenville, SC.

- Franic, I., E. Allan, S. Prospero, D. Coyle, et al. Climate, host and geography are of similar importance in shaping insect and fungal communities of trees on a global scale. XXVI IUFRO World Congress, 23-29 June 2024, Stockholm, Sweden.
- Coyle, D., A. Chuang, J. Deitsch, D. Nelsen, and M. Sitvarin. Joro spiders: Biology, ecology, and impacts in the Eastern U.S. Entomological Society of America – Southeastern Branch Annual Meeting, 17-20 March 2024, Augusta, GA.
- Kennett, S., R. De La Torre, J. Hartshorn, R. Scott Cameron, C. Wayne Berisford, and D. Coyle. Impacts of Nantucket pine tip moth, *Rhyacionia frustrana* (Lepidoptera: Tortricidae), management on rotation-length economic returns of loblolly pine. Entomological Society of America – Southeastern Branch Annual Meeting, 17-20 March 2024, Augusta, GA.
- Stone, L., R. Talbot Trotter, M. Keena, L. Schmitt, and D. Coyle. Evaluating Asian longhorned beetle (*Anoplophora glabripennis*) phenology using larval size in South Carolina. Entomological Society of America – Southeastern Branch Annual Meeting, 17-20 March 2024, Augusta, GA.
- Lupu, M., D. Coyle, J. Duan, E. Aparicio, C. Crook, C. Bishop, and K. Crout. Potential for biological control of *Anoplophora glabripennis* in South Carolina. Entomological Society of America Annual Meeting, 5-8 November 2023, National Harbor, MD.
- Pokhrel, A., W.E. Klingeman, D. Hadziabdic, D.R. Coyle, and M. Nowicki. Detection of *Pyrus calleryana* (Callery Pear) using loop-mediated isothermal amplification. American Phytopathological Society Annual Meeting, 12-16 August 2023, Denver, CO.
- Bishop, C., K. Crout, M. Bean, M. Lupu, A. Ratcliff, L. Schmitt, K. Oten, and D. Coyle. The beetle racer wrecking the *Acer*: the race against ALB in SC. Southern Forest Insect Work Conference, 25-27 July 2023, Raleigh, NC.
- Crout, K., M. Darr, and D. Coyle. Eight years and counting: the impacts of a regional forest health education program. Southern Forest Insect Work Conference, 25-27 July 2023, Raleigh, NC.
- Bailey, J.B., J.F. Palmer, D.R. Coyle, J. Hartshorn, and M.L. Ferro. 2023. Implications of insects & arthropods in invasive Callery pear (*Pyrus calleryana* Decne.). Southern Forest Insect Work Conference, 25-27 July 2023, Raleigh, NC.
- Hillborn, K., K. Oten, and D. Coyle. *Anoplophora glabripennis* WATCH: preliminary results of potential ecological impacts in North Carolina. Southern Forest Insect Work Conference, 25-27 July 2023, Raleigh, NC.
- Sapkota S., S.L. Boggess, R.N. Trigiano, W.E. Klingeman, D. Hadziabdic, D.R. Coyle, S.A. Conrad, A. Pokhrel, and M. Nowicki. 2023. Forest invasions: The brutal paradigm of the Bradford pear. 37th Southern Forest Tree Improvement Conference, 20-23 June 2023, Knoxville TN.
- Elferdink, M., K. Crout, M. Bean, M. Lupu, L. Schmitt, A. Ratcliff, K. Oten, T. Trotter, S. Pfister, R. Ritger, and D. Coyle. 2022. The Asian longhorned beetle (*Anoplophora glabripennis*) in South Carolina: eradication methods. College of Charleston Expo, 13 April 2023, Charleston, SC.
- Sharma, P., J. Hartshorn, D.R. Coyle, J.F. Palmer, and J. Campbell. Pollinator community composition and diversity of Callery pear. Appalachian Society of American Foresters Winter Meeting, 25-27 January 2023, Columbia, SC.
- Lenser, D., D. Coyle, D. Hadziabdic, M. Nowicki, W. Klingeman, B. Pearson, and J. Hartshorn. Remote sensing and predictive modeling of the invasive Callery pear tree.

- USDA Interagency Research Forum on Invasive Species, 10-13 January 2023, Annapolis, MD.
- Ratcliff, A, K. Oten, and D. Coyle. Adventures in beetle busting: alternative methods for the eradication of Asian longhorned beetle in South Carolina. USDA Interagency Research Forum on Invasive Species, 10-13 January 2023, Annapolis, MD.
- Greenwood, L.F., M.A. Avila, D.R. Coyle, M.E. Guerrero, G. Hernández, C.J.K. MacQuarrie, O. Trejo, and M.K. Noseworthy. 2022. Exploring pest mitigation research and management associated with the North American wood packaging supply chain: what and where are the weak links? Joint Annual Meeting of the Entomological Society of America and the Entomological Society of Canada, 13-16 November 2022, Vancouver, B.C., Canada.
- Elferdink, M., K. Crout, M. Bean, M. Lupu, L. Schmitt, A. Ratcliff, K. Oten, T. Trotter, S. Pfister, R. Ritger, and D. Coyle. 2022. The Asian longhorned beetle (*Anoplophora glabripennis*) in South Carolina: is eradication possible? South Carolina Entomological Society Annual Meeting, 5-6 October 2022, Georgetown, SC.
- Bean, M.S., R.T. Trotter, S. Pfister, and D.R. Coyle. Modeling density of Asian longhorned beetle activity by canopy height and branch diameter. Southern Forest Insect Work Conference, 21-23 June 2022, Lexington, KY.
- Lupu, M. and D.R. Coyle. Efficacy of biological control of *Anoplophora glabripennis* using native parasitoids in Hollywood, South Carolina. Southern Forest Insect Work Conference, 21-23 June 2022, Lexington, KY.
- Crout, K., H. Ritger, R. Ritger, and D.R. Coyle. Creating an Asian longhorned beetle outreach program in South Carolina. Southern Forest Insect Work Conference, 21-23 June 2022, Lexington, KY.
- Steele, J., M. Darr, and D. Coyle. Virtual forestry education programs expand audience reach and can increase participant diversity. Association for Natural Resource Extension Professionals (ANREP) Annual Conference, 31 May – 3 June 2022, Kalamazoo, MI.
- Ratcliff, A., K.F. Oten, and D. Coyle. Adventures in beetle busting: Alternative methods for the eradication of Asian longhorned beetle in South Carolina. ESA-SEB Annual Meeting, 26-30 March 2022, San Juan, PR.
- Nuttle, G., F. Palmer, D. Coyle, and J. Hartshorn. Bark beetle response to prescribed fire. Appalachian Society of American Foresters Annual Meeting, 26-28 January 2022, Asheville, NC.
- Ratcliff, A., K. Oten, and D. Coyle. Adventures in beetle busting: Alternative methods for the eradication of Asian longhorned beetle in South Carolina. Appalachian Society of American Foresters Annual Meeting, 26-28 January 2022, Asheville, NC.
- Sapkota, S., S.L. Boggess, R.N. Trigiano, W.E. Klingeman, D. Hadziabdic, D.R. Coyle, and M. Nowicki. 2021. Understanding the genetic diversity of the invasive Callery pear, *Pyrus calleryana*, in the southeastern U.S. ASHS Annual Conference, 5-9 August 2021, Denver, CO.
- Evans, C.W. and D.R. Coyle. 2020. Integrating established and novel strategies for forest health and invasive species education and extension programming in the Eastern U.S. Association of Natural Resource Extension Professionals Virtual Conference, 23-26 May 2021.
- Sapkota, S., S.L. Boggess, D.R. Coyle, W.E. Klingeman, D. Hadziabdic Guerry, B. Olukolu, R. Kuster, R.N. Trigiano, and M. Nowicki. 2020. Evaluation of genetic diversity of Asian

- callery pear, *Pyrus calleryana*. 30th USDA Interagency Forum on Invasive Species, 14-17 January 2020, Annapolis, MD.
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- Coyle, D.R. and W.H. Hubbard. Development of a Regional Forest Health and Invasive Species Education Program. NACDEP/ANREP Annual Conference, 26-29 June 2016, Burlington, VT.
- Schulz, A., C. Asaro, D. Coyle, M. Cram, R. Lucardi, A. Mech, and K. Gandhi. What's been "bugging" the white pine? Updates on the relationships within the eastern white pine – *M. macrocartrices* – canker complex. Southern Forest Insect Work Conference, 21-24 July 2015, Fayetteville, AR.
- Silva, A., D. Coyle, E. Abernethy, K. Turner, G. Rhodes, J. Beasley, and K. Gandhi. Effects of anthropogenic contamination on coleopteran carrion assemblages. UGA Warnell Graduate Student Symposium, 18-20 February 2015, Athens, GA.
- Schulz, A.N., C. Asaro, D. Coyle, M. Cram, R. Lucardi, A. Mech, and K. Gandhi. What's bugging the white pine? An assessment of the white pine – scale insect – canker complex in the Southern Appalachian Mountains. UGA Warnell Graduate Student Symposium, 18-20 February 2015, Athens, GA.
- Gandhi, K.J.K.; D.R. Coyle, K. Klepzig, F. Koch, L. Morris, J.T. Nowak, B. Otrosina, B. Smith. Evaluating the role of rhizophagous insects and associated fungi in pine health

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- Schulz, A., C. Asaro, D.R. Coyle, M. Cram, R. Lucardi, A.M. Mech, K.J.K. Gandhi. Cryptic killer or indulgent insect? *Matsucoccus macrocicatrices* and its relationship with *Pinus strobus* in the southern Appalachian mountains. Entomological Society of America National Meeting, 16-19 November 2014, Portland, OR.
- Dahlen, J., R. Daniels, and D. Coyle. Effect of irrigation and fertilization on green weight and wood specific gravity of loblolly pine. IUFRO XXIV World Congress, 5-11 October 2014, Salt Lake City, UT.
- Gandhi, K., A. Schultz, C. Asaro, D. Coyle, M. Cram, and A. Mech. Interactions between *Matsucoccus macrocicatrices*, fungal pathogens, and eastern white pine dieback in the Southern Appalachians. IUFRO XXIV World Congress, 5-11 October 2014, Salt Lake City, UT.
- Schulz, A.N., C. Asaro, D.R. Coyle, M.M. Cram, R. Lucardi, A.M. Mech, and K.J.K. Gandhi. The BFG Complex: assessing correlations between *Matsucoccus macrocicatrices*, *Caliciopsis pinea*, and *Pinus strobus* dieback in North Georgia. Southern Forest Insect Work Conference, 22-25 July 2014, Charleston, SC.
- Silva, A., D.R. Coyle, E. Abernethy, K. Turner, J. Beasley, and K.J.K. Gandhi. Effects of chemical contamination on invertebrate scavenging communities. Southern Forest Insect Work Conference, 22-25 July 2014, Charleston, SC.
- Gandhi, K.J.K., D.R. Coyle, K.D. Klepzig, F.H. Koch, L.A. Morris, J.T. Nowak, W.J. Otrosina, and W.D. Smith. Evaluating the extent and nature of pine health issues in the Southeastern U.S. Forest Health Monitoring Workgroup Meeting, 24-27 March 2014, Jacksonville, FL.
- Gandhi, K.J.K., A.N. Schultz, C. Asaro, D.R. Coyle, M. Cram, and A.M. Mech. White pine dieback and scale insect in the Southern Appalachians. Forest Health Monitoring Workgroup Meeting, 24-27 March 2014, Jacksonville, FL.
- Gandhi, K.J.K., D.R. Coyle, K.D. Klepzig, F.H. Koch, L.A. Morris, J.T. Nowak, W.J. Otrosina, and W.D. Smith. Evaluating the extent and nature of pine health issues in the Southeastern U.S. Society of American Foresters Annual National Convention, 23-27 October 2013, North Charleston, SC.
- Gandhi, K.J.K., A.M. Mech, C. Asaro, D.R. Coyle, M.M. Cram, and A. Schultz. Interactions between the *Matsucoccus* scale insect/pathogen complex and eastern white pine health. Ecological Society of America Annual Meeting, 4-9 August 2013, Minneapolis, MN.
- Coyle, D.R., K.D. Klepzig, J.T. Nowak, and K.J.K. Gandhi. Elucidating the role of rhizophagous weevils in southern pine dieback. Southern Forest Insect Work Conference, 23-26 July 2013, New Orleans, LA.
- Coyle, D.R., K.A. Dyer, J. Pickering, and K.J.K. Gandhi. Multi-species outbreak of oak defoliating caterpillars (Lepidoptera: Noctuidae) in the southeastern U.S. Entomological Society of America Annual Meeting, 11-14 November 2012, Knoxville, TN.
- Mech, A.M., D.R. Coyle, C. Asaro, M. Cram, and K.J.K. Gandhi. Scale insect and pathogen complex affecting eastern white pine health. Entomological Society of America Annual Meeting, 11-14 November 2012, Knoxville, TN.
- Zalesny, R.S. and D.R. Coyle. Short rotation *Populus*: A bibliography and database of North American literature, 1989-2011. Short Rotation Woody Crops Operations Working Group Conference, 5-8 November 2012, Oak Ridge, TN.

- Denham, S.O., K.A. Novick, and D.R. Coyle. Loblolly pine tree resin flow defense and mortality during an induced *Ips* beetle infestation. MEAS/FER Graduate Student Symposium, North Carolina State University, 16 August 2012, Raleigh, NC.
- Brissey, C.L., A.M. Mech, D.R. Coyle, and K.J.K. Gandhi. Characterizing the Communities of Bark and Woodboring Beetles in Hemlock-dominated Forests. Southern Forest Insect Work Conference, 24-27 July 2012, Charlottesville, VA.
- Bordeaux, J.M., J.F.D. Dean, D.R. Coyle, and K.J.K. Gandhi. Assessing southern pine gene expression response to the venom of *Sirex noctilio* using biomarkers. Southern Forest Insect Work Conference, 24-27 July 2012, Charlottesville, VA.
- Brissey, C. L., A. M. Mech, D. R. Coyle, and K. J. K. Gandhi. Optimal sampling of woodboring insects in hemlock forests of Georgia. UGA Warnell Graduate Student Symposium, 15-17 February 2012, Athens, GA.
- Coyle, D.R., J.T. Nowak, and K.J.K. Gandhi. Effects of silvicultural treatments on forest stand susceptibility to southern pine beetle (*Dendroctonus frontalis*) outbreaks. Entomological Society of America Annual Meeting, 13-16 November 2011, Reno, NV.
- Lee, N., D.R. Coyle, J. Burke, J. Staeben, and K.J.K. Gandhi. 2011. Cerambycidae and Buprestidae species in pine, mixed, and hardwood forest-types. Young Scholar Program Poster Conference, 6 July 2011, University of Georgia, Athens.
- Zalesny, R.S. Jr., W.L. Headlee, D.R. Coyle, and R.B. Hall. Carbon sequestration potential of poplar energy crops in the Midwest, USA. Fifth International Poplar Symposium, 20-25 September 2010, Orvieto, Italy.
- Zalesny, R.S. Jr., W.L. Headlee, R.B. Hall, D.M. Donner, D.R. Coyle. Carbon in energy plantations and hardwood forests in the Midwest, USA. IEA Bioenergy Conference Task 43: Biomass Feedstocks for Energy Markets, 1-4 June 2004, Kamloops, BC, Canada.
- St. Pierre, M., D. Eklund, D.M. Donner, R.S. Zalesny Jr., D.R. Coyle. Impacts of harvesting forest residues for bioenergy on biodiversity in northern hardwood forests. 75th North American Wildlife and Natural Resources Conference. 22-27 March 2010, Milwaukee, WI.
- Zalesny, J.A., D.R. Coyle, R.S. Zalesny Jr., and A.H. Wiese. Effects of irrigating poplar energy crops with landfill leachate on soil meso- and micro-fauna. 6th International Conference of the International Phytotechnology Society. 1-4 December 2009, St. Louis, MO.
- Zalesny, R.S. Jr., D.M. Donner, D.R. Coyle, and M. St. Pierre. Impacts of harvesting forest residues for bioenergy on soil carbon in northern hardwood forests. Carbon in Northern Forests - Integration of Research and Management. 10-11 June 2009, Traverse City, MI.
- Coyle, D.R., W.J. Mattson, A.L. Friend, and K.F. Raffa. Feedback between invasive belowground herbivores and habitat composition in northern hardwood ecosystems. Ecological Society of America Annual Meeting, 3-8 August 2008, Milwaukee, WI.
- Zalesny, J.A., R.S. Zalesny, Jr., D.R. Coyle, and R.B. Hall. Leaf, woody, and root biomass of *Populus* irrigated with landfill leachate. Annual Meeting of the Poplar Council of Canada: Poplar culture: a collaborative effort from clone to mill, 16-21 September 2007, Quebec City, Quebec, Canada.
- Coyle, D.R., K.F. Raffa, A.L. Friend, and W.J. Mattson. Ecology of invasive weevils in a northern hardwood forest. Western Forest Insect Work Conference, 5-9 March 2007, Boise, ID.

- Coyle, D.R., K.F. Raffa, A.L. Friend, and W.J. Mattson. Ecology of invasive weevils in a northern hardwood forest. Gordon Research Conference, Plant-Herbivore Interactions, 18-23 February 2007, Ventura, CA.
- Coyle, D.R., K.F. Raffa, A.L. Friend, and W.J. Mattson. Ecology of invasive weevils in a northern hardwood forest. Entomological Society of America National Meeting, 10-13 December 2006, Indianapolis, IN.
- Aubrey, D.P., M.D. Coleman, and D.R. Coyle. Fertilization increases the risk of loblolly pine to ice storm damage. 90th Annual Ecological Society of America Meeting, 7-12 August 2005, Montreal, Quebec, Canada.
- Spaine, P., M. Cram, S. Lumpkin, D. Coyle, K. Britton, and M. Coleman. Effects of irrigation and fertilization on the susceptibility of sweetgum to *Botryosphaeria* infection. American Phytopathological Society Annual Meeting, 27 July - 3 August 2005, Austin, TX.
- Coyle, D.R., M.D. Coleman, J.A. Durant, and L.A. Newman. Survival, growth, and pest susceptibility of 31 *Populus* clones in South Carolina. 6th Biennial Meeting of the Short Rotation Woody Crops Operations Working Group, 7-10 November 2004, Charleston, SC.
- Coyle, D.R. and D.C. Booth. Exotic ambrosia beetle (Coleoptera: Scolytidae) species captured from an intensively-managed tree plantation. 78th Annual Meeting of the Southeastern Branch of the Entomological Society of America, 15-18 February 2004, Charleston, SC.
- Coyle, D.R., M.D. Coleman, J.T. Nowak, C.J. Fettig, and D.C. Booth. Testing the plant vigor hypothesis in an intensively managed forest. Ecological Society of America National Meeting, 3-8 August 2003, Savannah, GA.
- Benson, S., D.R. Coyle, and L.A. Newman. Assessing contamination to the food chain during phytoremediation. 18th Annual International Conference on Contaminated Soils, Sediments, and Water, 21-24 October 2002, Amherst, MA.
- Coyle, D.R. Cottonwood leafcurl mite, *Aculops lobuliferus* (Acari: Eriophyidae) damage and control in plantation *Populus*. Entomological Society of America National Meeting, 9-12 December 2001, San Diego, CA.
- Coyle, D.R., E.R. Hart, J.D. McMillin, and T.E. Nebeker. Cottonwood leaf beetle in plantation *Populus*: Toward integrated pest management. Joint Meeting of the Entomological Society of America and the American Phytopathological Society, 8-12 November 1998, Las Vegas, NV.
- Coyle, D.R., E.R. Hart, J.D. McMillin, and T.E. Nebeker. Cottonwood leaf beetle in plantation *Populus*: Toward integrated pest management. North Central Forest Pest Workshop, 14-17 September 1998, Dubuque, IA.
- Coyle, D.R. and K.J. Larsen. Comparison of baits for carrion beetle surveys. Entomological Society of America National Meeting, 8-12 December 1996, Louisville, KY.

World Wide Web Site Development and Use

- Southern Pine Beetle Information Center. 2022. In collaboration with USDA Forest Service – Southern Region: <https://southernpinebeetle.org/>
- HealthyWoods. 2020. In collaboration with colleagues from several universities and an RREA Grant: <https://healthywoodsapp.org/>.

- Bradford Pear Bounty Program. 2020. In collaboration with the City of Clemson and SC Forestry Commission: <https://www.clemson.edu/extension/bradford-pear/>.
- Developed (with Southern Regional Extension Forestry group) a website to deliver forest health and invasive species education for the southeastern U.S. Available at <http://southernforesthealth.net/>.
- Developed (with Dr. Kamal Gandhi and Ms. Brittany Barnes, UGA; Drs. Kier Klepzig and John Nowak, USDA Forest Service) a website highlighting issues in southern pine health, especially pertaining to insect and fungal factors in the southeastern US. Available at www.sph.uga.edu.
- Developed (with Dr. Ron Zalesny, USFS Institute for Applied Ecosystem Studies) an online database for short rotation woody crop / intensive forestry poplar literature entitled “Short Rotation *Populus*: A Database of North American Literature, 1989 – 2011”. Available at www.poplardatabase.com.

Committees

South Carolina Invasive Species Advisory Committee, permanent member

Professional Development

Society memberships

- Association of Natural Resource Extension Professionals
- Entomological Society of America
- North America Invasive Species Management Association
- Society of American Foresters
- South Carolina Exotic Plant Pest Council

Honors and awards

- South Carolina Association of County Agricultural Agents Outstanding Specialist Award, 2024
- Clemson CAFLS Outstanding Junior Faculty in Extension, 2023-2024
- W.D. Hagenstein Communicator Award, Society of American Foresters, 2022
- Extension Forester of the Year, Forest Landowner Association, 2021
- Faculty Award for Excellence in Extension (Assistant Professor/Post-Doc), Clemson CAFLS, 2021
- Excellence in Early Career Award, Entomological Society of America - Southeastern Branch, 2020
- Future Leaders Award from the Southern IPM Center, 2019
- Southern Regional Extension Forestry Extension Awards Program – High Distinction in Computer Software and/or Website Category for the “Southern Forest and Tree Health Diagnostics Facebook Page”, 2018-2019
- Association for Natural Resource Extension Professionals, Gold Award for Websites – Social Media – Online Courses, 2018
- Award of Excellence in Public Education & Technology Transfer, Southeastern Society of American Foresters, 2017
- Gold Award, SREF Award for Excellence, Regional Program: Forest Health and Invasive Species Outreach and Education Program, 2017
- Gold Award, SREF Award for Excellence, Website: Southern Forest Health Website, 2017

Silver Award, SREF Award for Excellence, Extension Publication: Ips bark beetles in the southeastern U.S., 2017
National Science Foundation (NSF) Faculty Institutes for Reforming Teaching (FIRST IV) Postdoctoral Scholar, 2011-2012
North Central Region Student Representative to the North American Forest Insect Work Conference Student Plenary Session, 2011
J. H. Comstock Award, Entomological Society of America North Central Branch, 2009
Entomological Society of America Young Professional Award, 2008
Entomological Society of America Student Activities Award, 2008
Entomological Society of America Young Professional Award, 2007
Vilas Travel Award, University of Wisconsin-Madison, 2007, 2008, 2010
Ecological Society of America SDERP Travel Award, 2007
EGSA Kinney Merit Award, UW Department of Entomology, 2005, 2006, 2007
Wisconsin Arborists Association Outstanding Graduate Student Award, 2005
Herbert H. Osborn Outstanding Graduate Student Award, M. S. recipient, ISU Department of Entomology, 1999
Sponsored by the Rocky Mountain Conference of Entomologists to attend the RMCE Meeting; Co-Champion of RMCE Horseshoe Tournament, 1999
2nd place, M.S. Oral Presentation, North Central Branch of the Entomological Society of America (NCB-ESA) Meeting, Des Moines, IA, 1999
Gamma Delta Sigma Agriculture Honor Society Member

Participation in international, national, regional, state meetings

Past 10 years

Southern Forest Health Work Conference, 16-18 July 2024, Greenville, SC
South Carolina Association of County Agricultural Agents Annual Meeting, 15-17 May 2024, Beaufort, SC
Entomological Society of America – Southeastern Branch Meeting, 17-20 March 2024, Augusta, GA
Appalachian Society of American Foresters Winter Meeting, 23-25 January 2024, Roanoke, VA
USDA Interagency Research Forum on Invasive Species, 9-12 January 2024, Annapolis, MD
Invasive Species Ambassador Training, 5-7 December 2023, Coeur d'Alene, ID
Entomological Society of America Annual Meeting, 5-8 November 2023, National Harbor, MD
2023 Asian Longhorned Beetle Cooperators meeting, 17-18 October 2023, Wooster, MA
Southern Forest Insect Work Conference, 25-27 July 2023, Raleigh, NC
ISA Southern Annual Conference and Trade Show, 26-28 March 2023, Chattanooga, TN
Virginia Association of Forest Health Professionals Annual Conference, 13-14 February 2023, Blacksburg, VA
Appalachian Society of American Foresters Winter Meeting, 25-27 January 2023, Columbia, SC
USDA Interagency Research Forum on Invasive Species, 10-13 January 2023, Annapolis, MD

Joint Annual Meeting of the Entomological Society of America and the Entomological Society of Canada, 13-16 November 2022, Vancouver, BC, Canada
TreesSC Annual Conference, 27-28 October 2022, Greenville, SC
2022 Asian Longhorned Beetle Cooperators meeting, 18-19 October 2022, Charleston, SC
Society of American Foresters Annual Convention, 20-24 September 2022, Baltimore, MD
Continental Dialogue on Non-Native Forest Insects and Diseases, 20 September 2022, Baltimore, MD
National Plant Board – Safeguarding American Plant Resources Meeting, 23-25 May 2022, Charleston, SC
Entomological Society of America – Southeastern Branch Meeting, 26-30 March 2022, San Juan, Puerto Rico.
South Carolina Vegetation Management Association Annual Conference, 21-22 July 2021, Greenville, SC.
1st International Electronic Conference on Entomology, 1-15 July 2021.
Entomological Society of America Eastern Branch Virtual meeting, 22-24 March 2021.
IUFRO Spring Extension & Knowledge Exchange Meeting (Virtual), 17 March 2021.
Virginia Association of Forest Health Professionals Virtual Annual Meeting, 9 February 2021.
Entomological Society of America 2020 Virtual Annual Meeting
North American Invasive Species Management Association 2020 Virtual Conference, 6-8 October 2020.
Appalachian SAF Winter Meeting, 29-31 January 2020, Norfolk, VA.
Virginia Association of Forest Health Professionals Annual Conference, 27-28 January 2020, Glen Allen, VA
Innovations in Invasive Species Management, 10-12 December 2019, Coeur d'Alene, ID
South Carolina Invasive Species Advisory Committee Annual Meeting, 1 November 2019, Columbia, SC
TreesSC Annual Conference, 24-25 October 2019, Folly Beach, SC
North American Invasive Species Management Association Annual Conference, 30 Sept. – 3 Oct. 2019, Saratoga Springs, NY.
Ecological Society of America Annual Meeting, 11-16 August 2019, Louisville, KY.
South Carolina Plantation Managers Association Annual Meeting, 8 August 2019, Walterboro, SC.
Southern Forest Insect Work Conference, 23-26 July 2019, Savannah, GA.
Joint NC-IPC and SC-EPPC Symposium, 27-29 March 2019, Gastonia, NC.
Entomological Society of America – Southeastern Branch Meeting, 3-6 March 2019, Mobile, AL.
Spotted lanternfly update. Bartlett Tree Research Laboratories, Charlotte, NC, 27-28 February 2019.
Virginia Association of Forest Health Professionals Annual Meeting, 28-29 January 2019, Blacksburg, VA.
Appalachian Society of American Foresters Meeting, 23-25 January 2019, Wilmington, NC.
Southern Group of State Foresters Forest Health Committee-GIS Committee Joint Meeting, 7-10 January 2019, Savannah, GA.

Entomological Society of America, Entomological Society of Canada, and Entomological Society of British Columbia Joint Annual Meeting, 11-14 November 2018, Vancouver, BC, Canada.

Upper Midwest Invasive Species Conference/North American Invasive Species Management Association Joint Conference, 15 October 2018, Rochester, MN

Entomological Society of America Invasive Species and Policy Tour, 20-22 August 2018, Philadelphia, PA

Southern Forest Insect Work Conference, 17-20 July 2018, San Antonio, TX.

National Conference of Private Forest Landowners, 26-29 June 2018, Greensboro, GA

Southeastern Society of American Foresters Annual Meeting, 28-30 January 2018, Pine Mountain, GA

Southern Group of State Foresters - Forest Health Committee annual meeting, 23-25 January 2018, Greenville, SC

Annual Gypsy Moth Review and Continental Dialogue on Non-native Forest Insects and Diseases Joint Meeting, 7-10 November 2017, Savannah, GA

Entomological Society of America National Meeting, 5-8 November 2017, Denver, CO

North American Invasive Species Management Association Annual Meeting, 23-26 October 2017, Sparks, NV

Forest Insects and Pathogens in a Changing Environment: Ecology, Monitoring, & Genetics, a Joint Meeting of the International Union of Forest Research Organizations (IUFRO) Working Parties 7.03.05 & 7.03.10, 2017; 10-14 September 2017, Thessaloniki, Greece

Southern Forest Insect Work Conference, 25-28 July 2017, Melbourne, FL

National Association of Private Forest Landowners Annual Conference, 30 May – 2 June 2017, Asheville, NC

Western Gulf Forest Health Conference, 18-19 May 2017, Shreveport, LA

Southern Group of State Foresters - Forest Health Committee annual meeting, 7-9 February 2017, Biloxi, MS

Virginia Association of Forest Health Professionals Annual Conference, 30-31 January 2017, Glen Allen, VA

USDA Forest Service Drought Mitigation Meeting, 18-19 January 2017, Atlanta, GA

Continental Dialogue on Non-native Forest Insects and Diseases, 14-15 November 2016, Indianapolis, IN

North American Invasive Species Management Association Annual Meeting, 26-29 September 2016, Salt Lake City, UT

Southern Group of State Foresters Annual Conference, 13-16 June 2016, Mobile, AL

North American Forest Insect Work Conference, 31 May – 2 June 2016, Washington, D.C.

Southern Group of State Foresters - Forest Health Committee annual meeting, 11-14 January 2016, Nashville, TN

Virginia Association of Forest Health Professionals Annual Conference, 29-30 January 2016, Blacksburg, VA

Southern Forest Insect Work Conference, 21-24 July 2015, Fayetteville, AR

Western Forest Insect Work Conference, 30 March – 2 April 2015, Santa Fe, NM

International Union of Forest Research Organizations (IUFRO) XXIV World Congress, 5-11 October 2014, Salt Lake City, UT

Southern Forest Insect Work Conference, 22-25 July 2014, Charleston, SC

>10 years ago

Southern Forest Insect Work Conference, 23-26 July 2013, New Orleans, LA
Entomological Society of America Southeastern Branch Mtg., 3-6 March 2013, Baton Rouge, LA
Entomological Society of America Annual Meeting, 11-14 November 2012, Knoxville, TN
Southern Forest Insect Work Conference, 24-27 July 2012, Charlottesville, VA
USDA Interagency Research Forum on Invasive Species, 10-13 January 2012, Annapolis, MD
Entomological Society of America Annual Meeting, 13-16 November 2011, Reno, NV
North American Forest Insect Work Conference, 9-12 May 2011, Portland, OR
Entomological Society of America Annual Meeting, 12-15 December 2010, San Diego, CA
North Central Forest Pest Workshop, 4-7 October 2010, Elkhart Lake, WI
Entomological Society of America Annual Meeting, 13-16 December 2009, Indianapolis, IN
Entomological Society of America North Central Branch Mtg., 15-18 March 2009, St. Louis, MO
Entomological Society of America Annual Meeting, 16-19 November 2008, Reno, NV
British Ecological Society National Meeting, 3-5 September 2008, London, England
Ecological Society of America Annual Meeting, 3-8 August 2008, Milwaukee, WI
Entomological Society of America Annual Meeting, 9-12 December 2007, San Diego, CA
Ecological Society of America Annual Meeting, 3-10 August 2007, San Jose, CA
Gordon Research Conference, Plant-Herbivore Interactions, 18-23 February 2007, Ventura, CA
Entomological Society of America Annual Meeting, 10-13 December 2006, Indianapolis, IN
EPA Graduate Fellowship Conference, 24-26 September 2006, Washington, D.C.
Wisconsin Arborist's Association Annual Meeting, 5-7 February 2006, Green Bay, WI
Entomological Society of America Annual Meeting, 15-18 December 2005, Ft. Lauderdale, FL
Entomological Society of America Annual Meeting, 14-17 November 2004, Salt Lake City, UT
6th Biennial Meeting of the Short Rotation Woody Crops Operations Working Group, 7-10 November 2004, Charleston, SC
Southern Forest Insect Work Conference, 2-5 August 2004, Tampa, FL
Entomological Society of America Southeastern Branch Annual Meeting, 15-18 February 2004, Charleston, SC
Short-Rotation Woody Crops Cooperative Research Program Technical Meeting, 21-23 January 2004, Aiken, SC
Entomological Society of America Annual Meeting, 26-29 October 2003, Cincinnati, OH
Ecological Society of America Annual Meeting, 3-8 August 2003, Savannah, GA
Entomological Society of America Annual Meeting, 17-20 November 2002, Ft. Lauderdale, FL
Short-Rotation Woody Crops Cooperative Research Program Technical Meeting, 17-18 October 2002, Aiken, SC
Fourth Biennial Meeting of the Short Rotation Woody Crops Operations Working Group, 14-17 September 2002, Alexandria, MN
Entomological Society of America National Meeting, 9-12 December 2001, San Diego, CA

Short-Rotation Woody Crops Cooperative Research Program Technical Meeting, 18-19 October 2001, Aiken, SC
North American Forest Insect Work Conference, 14-18 May 2001, Edmonton, Alberta, Canada
Entomological Society of America National Meeting, 3-7 December 2000, Montreal, Quebec, Canada
Short Rotation Woody Crops Cooperative Research Program Technical Meeting, 24-25 October 2000, Aiken, SC
Third Biennial Meeting of the Short-Rotation Woody Crops Operations Working Group, 10-13 October 2000, Syracuse, NY
21st Session of the International Poplar Commission, 24-28 September 2000, Vancouver, WA
Entomological Society of America National Meeting, 12-16 December 1999, Atlanta, GA
Short Rotation Woody Crops Cooperative Research Program Technical Meeting, 19-20 October 1999, Aiken, SC
Poplar Council of the United States Biennial Meeting, 18-19 August 1999, Alexandria, MN
Rocky Mountain Conference of Entomologists, 1-5 August 1999, Woodland Park, CO
Entomological Society of America North Central Branch Mtg., 28-31 March 1999, Des Moines, IA
43rd Annual Shade Tree Short Course, 9-10 March 1999, Ames, IA
50th Annual Iowa Pest Control Workshop, 22 February 1999, Ames, IA
Joint Meeting of the Entomological Society of America and the American Phytopathological Society, 8-12 November 1998, Las Vegas, NV
North Central Forest Pest Workshop, 14-17 September 1998, Dubuque, IA
Entomological Society of America National Meeting, 14-18 December 1997, Nashville, TN
Poplar Council of the United States Biennial Meeting, 19-21 August 1997, Paducah, KY
Entomological Society of America National Meeting, 8-12 December 1996, Louisville, KY

Leadership roles at meetings

Co-Moderator and Co-Organizer with Kelly Oten, State Cooperators Session. Southern Forest Health Work Conference, 16-18 July 2024, Greenville, SC.
Co-Moderator and Co-Organizer with Kelly Oten, State Cooperators Session. Southern Forest Insect Work Conference, 25-27 July 2023, Raleigh, NC.
Moderator and Organizer, Invasive Insects Around the World: Global Challenges & Strategies for Addressing Invasive Herbivores, Joint Annual Meeting of the Entomological Society of America and the Entomological Society of Canada, 13-16 November 2022, Vancouver, BC, Canada.
Organizer, State Cooperators Session, Southern Forest Insect Work Conference, 23 June 2022, Lexington, KY.
Moderator and Organizer, Forest and Urban Entomology Session, 1st International Electronic Conference on Entomology, 8 July 2021.
Moderator, Appalachian SAF Meeting: Social media: “Competing for eyes and ears with the next generation”. Appalachian SAF Winter Meeting, 29-31 January 2020, Norfolk, VA.
Organizer/Moderator, NAISMA Annual Conference: Invasive forest issues across the continent. North American Invasive Species Management Association Annual Conference, 30 Sept. – 3 Oct. 2019, Saratoga Springs, NY.

- Organizer/Moderator, SFIWC 2019 meeting: State Cooperators: making things happen. Southern Forest Insect Work Conference, 23-26 July 2019, Savannah, GA.
- Organizer, P-IE Section Symposium: From Researcher to Stakeholder: Using Extension to Cross Borders in a Changing World. Entomological Society of America, Entomological Society of Canada, and Entomological Society of British Columbia Joint Annual Meeting, 12 November 2018, Vancouver, BC, Canada.
- Moderator, Joint UMISC/NAISMA Conference, 15 October 2018, Rochester, MN
- Co-Organizer/Moderator, ESA/ESC/ESBC 2018 Symposium: From Researcher to Stakeholder: Using Extension to Cross Borders in a Changing World. Entomological Society of America/Entomological Society of Canada/Entomological Society of British Columbia Joint Meeting, 14-18 November 2018, Vancouver, BC, Canada.
- Moderator, UMISC/NAISMA 2018 Symposium: Gypsy Moth and Hemlock Woolly Adelgid. Joint Upper Midwest Invasive Species Conference & North American Invasive Species Management Association Annual Meeting, 15-18 October 2018 Rochester, MN.
- Co-Organizer/Moderator (with C. Barton), SFIWC 2018 Symposium: The State Cooperators Perspective on Forest Health – Facilitators to Private Landowners. Southern Forest Insect Work Conference, 17-20 July 2018, San Antonio, TX.
- Co-Organizer/Moderator (with J. Hartshorn), ESA 2017 Symposium: Communication at the Intersection of Urban and Forest Communities. Entomological Society of America Annual Meeting, 5-8 November 2017, Denver, CO.
- Moderator, NAISMA 2017 Symposium: Education and Outreach Tools. North American Invasive Species Management Association Annual Meeting, 23-26 October 2017, Sparks, NV
- Co-Organizer/moderator (with J. Hulcr), SFIWC 2017 Symposium: Timber Industry and University Extension: How Can We Work Together? Southern Forest Insect Work Conference, 25-28 July 2017, Melbourne, FL.
- Organizer/moderator, NAFIWC 2016 Symposium: Forest health extension in North America: challenges and opportunities. North American Forest Insect Work Conference, 31 May – 2 June 2016, Washington, D.C.
- Organizer/Moderator, SFIWC 2015 Symposium: Our changing world: current and potential exotic species as threats to southeastern forests. Southern Forest Insect Work Conference, 21-24 July 2015, Fayetteville, AR.
- Organizer/Moderator, SFIWC 2014 Symposium: Exotic Insects: New and Old Pests. Southern Forest Insect Work Conference, 22-25 July 2014, Charleston, SC.
- Moderator, SFIWC 2014 Symposium: Open Session. Southern Forest Insect Work Conference, 22-25 July 2014, Charleston, SC.
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2011 Symposium: Forest Entomology: Reflection on a Decade of Change. Entomological Society of America Annual Meeting, 13-16 November 2011, Reno, NV.
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2010 Symposium: Forest Entomology: Current Issues and Emerging Trends Across North America. Entomological Society of America Annual Meeting, 12-15 December 2010, San Diego, CA.
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2009 Symposium: What's New in Forest Entomology? Entomological Society of America Annual Meeting, 13-16 December 2009, Indianapolis, IN.

- Co-Organizer/Moderator (with A.M. Ray and L.N. Meihls), ESA NCB 2009 Symposium: Invasive Insect Management: Are We Making Any Progress? Entomological Society of America North Central Branch Meeting, 15-19 March 2009, St. Louis, MO.
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2008 Symposium: Forest Entomology: Changes Impacting Our Discipline. Entomological Society of America Annual Meeting, 16-19 November 2008, Reno, NV
- Co-Organizer/Moderator (with L. Campbell, T. Galvan, A. Jacobson, G. Mynhardt, A. Ray, and N. Spoomer), ESA NCB Student Symposium: Walking the Entomological Line: Making the Transition from Student to Professional. North Central Branch of the Entomological Society of America Annual Meeting, 24-27 March 2008, Columbus, OH.
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2007 Symposium: Exotic Forest Pests: Are We Making Any Progress? Entomological Society of America Annual Meeting, 9-12 December 2007, San Diego, CA
- Co-Organizer/Moderator (with G.N. Stevens), EcSA 2007 Symposium: Root herbivores as agents of change: Micro- and macro-herbivores across natural and managed systems. Ecological Society of America National Meeting, 5-10 August 2007, San Jose, CA
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2006 Symposium: Tribute to Wayne Berisford: Forest Entomologist. Entomological Society of America Annual Meeting, 10-13 December 2006, Indianapolis, IN
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2005 Symposium: Forest Entomology: Tree-Insect Interactions. Entomological Society of America Annual Meeting, 15-18 December 2005, Ft. Lauderdale, FL
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2004 Symposium: Forest Entomology: Current Issues Facing our Discipline. Entomological Society of America Annual Meeting, 14-17 November 2004, Salt Lake City, UT
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2003 Symposium: Forest Pest Management: Tree-Insect Interactions. Entomological Society of America Annual Meeting, 26-29 October 2003, Cincinnati, OH
- Co-Organizer/Moderator (with C.J. Fettig and J.T. Nowak), ESA 2002 Informal Conference: Forest Pest Management: Developing Tools to Solve the Challenges of Tomorrow. 50th Annual Entomological Society of America Meeting, 17-20 November 2002, Ft. Lauderdale, FL

Leadership roles in societies

Past 10 years

- Program Committee, Appalachian Society of American Foresters 2024 Winter Meeting
- Co-leader, Invasive Species Wildly Important Goal (WIG) for the Entomological Society of America – Plant-Insect Ecosystems Section, 2020-2023.
- Co-leader for ESA-PIE Invasive Species Tour, 12-14 September 2023, Orlando, FL.
- Program Chair, Appalachian Society of American Foresters 2023 Winter Meeting
- Science and Technology Chair, Appalachian Society of American Foresters, 2020-2023
- Steering committee, Entomological Society of America 2020 Grand Challenges summit, Orlando, FL: 14-15 November 2020: Pre-border Prevention: A New Conversation on Invasive Pest Pathways Through Trade.
- Program Committee, Southeastern Branch of the Entomological Society of America, 2019-2020

President, North American Invasive Species Management Association, 2019-2020
Membership, Marketing, & Communications Committee, North American Invasive Species Management Association, 2019 – 2020
Program Committee, North American Invasive Species Management Association, 2018 – 2019, 2019-2020
Chair, Professional Development Committee, North American Invasive Species Management Association, 2018 – 2021
Program Co-Chair, Southern Forest Insect Work Conference, 2019
Communications Chair, SC Division of the Appalachian Society of American Foresters, 2018 - present
Appointed Permanent Member, South Carolina Invasive Species Advisory Committee, 2018 - present
President-Elect, North American Invasive Species Management Association, 2018-2019
Co-Director, Proactive Forest Health and Resistance (ProForest), 2018 – 2020
Scientific Committee, "Forest Insects and Pathogens in a Changing Environment: Ecology, Monitoring, & Genetics" conference, a Joint Meeting of the International Union of Forest Research Organizations (IUFRO) Working Parties 7.03.05 & 7.03.10, 2017
Advisory Board, Proactive Forest Health and Resistance (ProForest), 2017 – present
Board Member, Georgia Exotic Plant Pest Council, 2016-2018
Board Member, North American Invasive Species Management Association, 2016 – 2021
Advisory Committee, Southern IPM Center, 2016 – 2019

Manuscript and grant panel reviewer

Reviewer for Bartlett Tree Research Laboratories Tree Injection Best Management Practices Guide
Reviewer for Clemson Hatch Proposal, 2020
Associate Editor for the Journal of Integrated Pest Management, 2019-present, 8 manuscripts handled
Associate Editor for the journal Forest Science, 2011-2019, 25 manuscripts handled
Conducted 95 peer reviews for various publications, including: Agricultural and Forest Entomology, Alabama Cooperative Extension Service, Annals of the Entomological Soc. of America, Biomass and Bioenergy, Bulletin of Entomological Research, Canadian Journal of Forest Research, Clemson University Land Grant Press, Coleopterists Bulletin, Crop Protection, Ecological Entomology, Ecology Letters, Elsevier Publishing (2 book proposals), Entomologia Experimentalis et Applicata, Environmental Entomology, Forest Ecology and Management, Forest Science, Graduate Women in Science (GWIS) National Fellowship Program, International Journal of Phytoremediation, IUCN Red List (3 species reviews), Journal of Applied Entomology, Journal of Economic Entomology, Journal of Extension, Journal of Forestry, Journal of Insect Science, Journal of the Kansas Entomological Society, Minnesota Invasive Terrestrial Plants and Pests Center, New Forests, North Carolina State Extension, Oecologia, Plant Pathology, Psyche, Small-Scale Forestry, Southeastern Naturalist, The Great Lakes Entomologist, Torrey Botanical Society, University of Florida Extension (EDIS, 6 Extension publications), Washington State University Extension (4 extension publications), Waste Management

Specialized training:

Clemson University online portable fire extinguisher training (2018-2021), conflict of interest training (2018-2020), information security awareness (2018-2021), welcome to KRONOS timekeeping (2019), Bridges: Building a Supportive Community (2018), policies and procedures for equitable treatment (2018, 2021)

Development of New Programs, Processes and Patents:

Bradford pear bounty program (<https://www.clemson.edu/extension/bradford-pear/>): This program gives up to five free native trees to residents in exchange for the removal of their Bradford pear tree. Events feature displays/booths promoting native plants and discussing the impacts of invasive species (the invasive species Callery pear comes from Bradford pear trees in landscaped areas). This program is a partnership between Clemson Extension, the City of Clemson, and the South Carolina Forestry Commission. Specific events include:

- Clemson (29 February 2020)
- Sumter (27 February 2021)
- Clemson (13 March 2021)
- Columbia (23 October 2021)
- Sumter (26 February 2022)
- Conway (5 March 2022)
- Clemson (19 March 2022)
- Goose Creek (5 November 2022)
- Lexington (10 December 2022)
- Aiken (25 February 2023)
- Spartanburg (25 March 2023)
- Manning (9 December 2023)
- Hampton (2 March 2024)
- Marion (16 March 2024)
- Van Wyck (23 March 2024)
- Clinton (31 March 2024)

SC Women Owning Woodlands program: This program develops and delivers forestry education courses to women, and encompasses all forestry topics including basic forestry, forest health, pesticides, etc. I initially worked with Ms. Janet Steele to create the program, and currently I help develop content and secure funding and Ms. Steele and Dr. Molly Darr (both with Clemson Extension) deliver the majority of the material to attendees.

SC Underserved Landowners program: We held two workshop series (each six classes) in Walterboro and Orangeburg in 2020. Workshops were intended for underserved communities and covered topics including basic agricultural and natural areas land management, taxation, record keeping, and available assistance programs. This program began in-person but switched to online due to COVID-19, and is a partnership between Clemson Extension and the Center for Heirs Property Preservation. We had a total of nearly 50 participants in the program.

University and Public Service:

Hunnicut Creek Restoration Advisory Group (spring 2023)
Clemson Extension, Making the Best Better Invited Focus Group (spring 2023)
Clemson University Athletic Council, CAFLS Representative (2022-present)
FEC Faculty Mentoring Program: mentoring committee (with Dr. Sarah White) for Dr. Amy Scaroni.
FEC Faculty Mentoring Program: mentoring committee (with Dr. Don Hagan) for Dr. Stephen Peairs.
Reviewed and revised State Forest Management Plan for Clemson DPI, spring 2020.
Member, Search committee for Forest Biometrician faculty position in the Dept. of FEC, 2020-2021.
Member, Search committee for Dr. Lydia O-Halloran faculty position in the Dept. of FEC, 2020-2021.
Reviewed and revised Clemson Sandhill REC forest management plan, fall 2019.
Assisted with revisions of the Clemson Department of Forestry and Environmental Conservation Tenure & Promotion Guidelines, fall 2019.

Consulting and Counseling:

Served as a consultant on Asian longhorned beetle biology and management for forest health specialists (Drs. Etsuko Shoda-Kagaya, Eiriki Sunamura, Shigeaki Tamura, and Hisatomo Taki) from the Forestry and Forest Products Research Institute, Tsukuba, Japan. 1 November 2022, 1 hr zoom meeting + presentation.