

STATE OF OHIO

2020 AUG 18 AM 11:34

Executive Department

OFFICE OF THE GOVERNOR

Columbus

I, Mike DeWine, Governor of the State of Ohio, do hereby appoint Constance E. Hausman, Ph.D., Democrat, from Medina, Medina County, Ohio, as a Member of the Forestry Advisory Council for a term beginning August 12, 2020 and ending at the close of business February 27, 2024, replacing Melvin J. Yoder, whose term expired.



IN WITNESS WHEREOF, I have hereunto subscribed my name and caused the Great Seal of the State of Ohio to be affixed, at Columbus, this 12th day of August in the year of our Lord, Two Thousand and Twenty.

Mike DeWine
Governor

Constance E. Hausman, Ph.D.

431 Strawberry Lane, Medina, Ohio ♦ (330) 590-0110 ♦ cehausman@gmail.com

CORE COMPETENCIES

Applied Research: Proficient at developing Citizen Science, collaborative collegiate research, and internal monitoring programs to produce results that guide applied management practices.

Research Dissemination: Accomplished communication and outreach through publications (peer-reviewed journals, technical reports, resource guides and book chapters), oral presentations (professional meetings, webinars and public programming), and media outlets (radio-NPR and print-The Washington Post, Cleveland.com)

Grant Administration: Proven successful grant administration with support from various private, state and federal sponsored programs including Great Lake Restoration Initiative and Emerging Forest Pest and Pathogens

EDUCATION

Kent State University *Doctor of Philosophy in Plant Ecology* Kent, Ohio 2010
Dissertation: The ecological impacts of the emerald ash borer (*Agrilus planipennis*):
Identification of conservation and forest management strategies.

Bowling Green State University. *Masters of Science in Ecology* Bowling Green, Ohio 2001
Thesis: The effects of a light gradient on the establishment of an Oak Savanna
plant community.

Bowling Green State University *Bachelor of Science in Biology* Bowling Green, Ohio 1998
Undergraduate Research: Effect of flowering phenology on reproduction in the
potentially-threatened perennial herb *Lupinus perennis*.

CURRENT POSTION

Plant and Restoration Ecologist 2012-present
Cleveland Metroparks, Cleveland, Ohio.

Develop and implement ecosystem assessment, natural recovery, and habitat
restoration projects related to plant communities.

- Administrative responsibilities: personnel (full-time and part-time staff) and budget management (operating and grant funds).
- Manage projects related to long-term vegetation monitoring, forest health, terrestrial restoration, climate change and habitat rehabilitation.
- Collaborate with local, state, and federal agencies, as well as academic partners and Citizen Science volunteers on various research projects.

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PREVIOUS EXPERIENCE

Vegetation Research Coordinator

2010-2012

Cleveland Metroparks, Cleveland, Ohio.

Coordinated Plant Community Assessment Program (PCAP) - a long-term research program that identifies various habitat types and evaluates conditions throughout the >23,000 acre park district.

- Developed PCAP assessment based on the Carolina Vegetation Survey (CVS) sampling design for herbaceous, shrub, and tree layers. Additional site metrics collected include soil profile analysis, light measurements, coarse woody debris, landscape features, and tree health and condition (i-Tree).
- Hired and trained 8-11 seasonal staff annually. Sampled 100 permanent vegetation research plots from various habitats including wetlands, forests, meadows, and disturbed successional communities.

Adjunct Faculty (Periodic)

Aug. 2001–May 2011

Baldwin-Wallace University, Department of Biology and Geology. Berea, Ohio.

- Provided lectures, laboratory, and field trips for 3 different courses including Evolution, Ecology and Biological Principles.

Ph.D. Candidate

2004–2010

Kent State University, Department of Biological Sciences. Kent, Ohio.

- Teaching assistant: laboratory and lecture preparation; Systematic Botany, Morphology of Lower Plants, Forestry, Biological Diversity.

Various Previous Field Positions.

1997–2002

- Cleveland Metroparks (Ohio) Conducted deer browse impact vegetation sampling. Provided background research and grant application materials for the development of an invasive plant management program.
- Wood County Park District (Ohio) Performed maintenance of a restored prairie at W.W. Knight Preserve including mechanical and chemical control of invasive species.
- Historic Bok Sanctuary Endangered Plant Program (Florida) Conducted breeding system compatibility research for the federally endangered plant *Ziziphus celata* using common garden and field trials.

PROFESSIONAL AFFILIATIONS AND SERVICES

Ohio Biological Survey Executive Director (2017- present)

- Produce objective scientific and technical information concerning the flora and fauna of Ohio disseminated through peer-review publication (OBS BioNotes), BioOhio Newsletter, books, posters, and other resource guides.
- Organize annual Ohio Natural History Conference.
- Administer Small Grant Program to support survey work across Ohio.
- Board of Trustee member (2013-2017).

Society for Ecological Restoration

- Certified Ecological Restoration Practitioner #0100 (2017- present).
- Member (2012- present).

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- Ohio Bird Conservation Initiative
- Steering Committee Member (2017-present).
- Lake Erie Allegheny Partnership
- Native Plant Promotion Committee(2010-present).
 - LEAP Fund Committee (2012-2017).
- Cleveland Tree Coalition & Forest City Working Group
- Committee Member (2016-present).
- Case Western Reserve University
- Graduate Student Committee Member (2016-present).
- Currently serving on 2 doctoral committees.
- Ohio Division of Natural Resources – Division of Forestry
- Hemlock Woolly Adelgid Task Force (2015-present).
- Ecological Society of America
- Member (2004-present).
- 27th Annual Midwest Ecology and Evolution Conference
- Co-Chairman, Kent State University March 9-11th 2007.
- Department of Biological Sciences Graduate Student Council
- Vice President (2005-2007).

GRANTS

- | | | |
|------|---------------------------|--|
| 2019 | (\$46,000.00) | U.S. Forest Service Emerging Pests and Pathogens Grant. Expanded Range and survey extent of Beech Leaf Disease. PI: C.E. Hausman |
| 2018 | (\$100,000.00) | U.S. Forest Service Great Lakes Restoration Initiative. Emerald Ash Borer Mitigation in Tinker's Creek Watershed Phase II. PI: C.E. Hausman . |
| 2018 | (\$85,176.00, CM portion) | U.S. Forest Service Emerging Pests and Pathogens Grant. Range Extent, Symptom Progression and Identification of the Causal Agent of Undiagnosed Beech Leaf Disease (BLD). PI: C.E. Hausman , D. Burke (Holden Forest and Garden), State Cooperators (Ohio and Indiana). |
| 2017 | (\$100,000.00) | U.S. Forest Service Great Lakes Restoration Initiative. Emerald Ash Borer Mitigation in Tinker's Creek Watershed. PI: C.E. Hausman . |
| 2017 | (\$30,000.00, CM portion) | Wildlife Conservation Society Climate Adaptation Grant funded through Doris Duke Foundation. Applicant: Beatty, A. Chagrin River Watershed Partners; partner agency - Cleveland Metroparks: Hausman , C.E. , and Robison, T.L. |
| 2017 | (\$50,000.00) | National Fish and Wildlife Foundation - Sustain Our Great Lakes Stopping Sediment to Save Mirror Valley's Brook Trout. Applicant: Bartley, J. Cuyahoga Soil & Water; partner agency - Cleveland Metroparks: Grieser, J.M., Durkalec, M., Robison, T.L., and Hausman , C.E. |
| 2016 | (\$2,958.00) | Cleveland Metroparks ECO Grant: Bedford Native Plant Seed Nursery. PI: C.E. Hausman . |
| 2016 | (\$100,000.00) | U.S. Forest Service Great Lakes Restoration Initiative. Emerald Ash Borer Mitigation in Cuyahoga River Area of Concern. PI: C.E. Hausman . |

2016	(\$5,013.00)	Cleveland Metroparks ECO Grant: Hoop House Construction for Native Plant Propagation. PI: C.E. Hausman.
2014	(\$100,000.00)	U.S. Forest Service Great Lakes Restoration Initiative. Emerald Ash Borer Mitigation in Rocky River. PI: C.E. Hausman.
2014	(\$15,000.00)	Charles L. Pack Trust. Acacia Reservation Reforestation and Research Project. PI: C.E. Hausman.
2013	(\$9,400.00)	U.S. Fish and Wildlife Service Partners Habitat Development Agreement. Mirror Valley Headwater Restoration. PI: C.E. Hausman.
2012	(\$8,282.20)	Cuyahoga River Community Planning - Project Clean Lake. Little Cedar Point Tree Planting Project. PI: Robison, T.L. and C.E. Hausman.
2011	(\$197,859.00)	U.S. Environmental Protection Agency Wetland Development Program. A Regional Ecosystem Monitoring and Assessment Program for the Lake Erie Allegheny Plateau Region. PI: Mack, J.J. and C.E. Hausman.
2008	(\$1,400.00)	Art and Margaret Herrick Aquatic Ecology Research Grant. PI: C.E. Hausman.
2005-08	(\$11,000.00)	Metroparks Toledo Research Grant. EAB eradication protocol: environmental impacts and native plant community responses. PI: C.E. Hausman.
2006 & 2008	(\$1,000.00)	Ohio Biological Survey Grant: Biological cost of eradication: consequences for the native plant community. PI: C.E. Hausman.

HONORS AND AWARDS

SPARK: 2017 Invited table moderator

- Special event for over 250 young women interested in STEM disciplines.

Ohio Parks and Recreation Natural Resources & Conservation Award: 2016

- Third Place – Hinckley Mirror Valley Resource Protection.

Kent State University Fellowship: 2009

- Department of Biological Sciences - Top doctoral student.

Clinton H. Hobbs Fellowship: 2007

- Awarded for excellence in the study of botany by a female student.

Kent State University Center for Student Involvement Organizational Excellence Award: 2006

- Department of Biological Sciences Graduate Student Council. (Vice President)

Graduate Student Teaching Assistant Award: 2000-2001

- Sponsored by the Graduate College and the Graduate Student Enhancement Program at Bowling Green State University.

Louis W. Campbell Graduate Student Research Award: 2000

- Maumee Valley Audubon Society.

Undergraduate Research Award: 1998

- Department of Biological Sciences, Bowling Green State University.

PUBLICATIONS (peer reviewed)

1. Lance, A.C., Burke, D.J., **Hausman, C.E.**, and Burns, J.H. Metagenomic insights into manipulated soil fungal community structure and diversity during temperate forest restoration. (In review - *Restoration Ecology*)
2. Abella, S.R., **Hausman, C.E.**, Jaeger, J.F., Menard, K.S., and Schetter, T.A. Fourteen years of swamp forest change from the onset, during and after invasion of emerald ash borer. *Biological Invasions*. (Accepted)
3. Lance, A.C., Burke, D.J., **Hausman, C.E.**, and Burns, J.H. (2019) Microbial inoculation and plant provenance influence microbial community structure and nutrient dynamics in temperate tree restoration. *Restoration Ecology*. 1-10. DOI:10.1111/rec.12962.
4. Ewing, C.J., **Hausman, C.E.**, Pogacnik, J., Slot, J., and Bonello, P. (2018) Beech leaf disease: An emerging forest epidemic. *Forest Pathology*. DOI:10.1111/efp.12488
5. Flinn, K.M., Mahany, T.P., and **Hausman, C.E.** (2018) From forest to city: Plant community change in northeast Ohio from 1800 to 2014. *Journal of Vegetation Science*. 00:1-10. DOI: 10.1111/jvs.12621
6. **Hausman, C.E.**, Bertke M., Jaeger, J.F., and Rocha, O.J. (2014) Genetic structure of green ash (*Fraxinus pennsylvanica*): implications for the establishment of *ex situ* conservation protocols in light of the invasion of the emerald ash borer. *Plant Genetic Resources*. 12:3, 286-297. DOI: 10.1017/S1479262114000033
7. **Hausman, C.E.**, Jaeger, J.F., and Rocha, O.J. (2010) Impacts of emerald ash borer (EAB) eradication and tree mortality: potential for a secondary spread of invasive plant species. *Biological Invasions*. 12:2013-2023. DOI: 10.1007/s10530-009-9604-3
8. **Hausman, C.E.**, Fraser, L.H., Kershner, M.W., and deSzalay, F.A. (2007) Plant community assemblages in a restored wetland: effects of soil removal. *Applied Vegetation Science*. 10:383-390. DOI: 10.1111/j.1654-109X.2007.tb00437.x

CONTRIBUTED BOOK CHAPTERS

1. Moser, W.K., Butler-Leopold, P., **Hausman, C.E.**, Iverson, L., Ontl, L., Matthews, S., Peters, M., and Persad, A. (Submitted – In Review) Impacts of Climate Change on Forest Management In: Stanturf, J. (ed) *Achieving Sustainable Management of Boreal and Temperate Forests*. BDS Publishing.
2. Lydall J, DiMisa, J, and **Hausman, C.** 2018. Restoration of Urban Ecosystem. In: Lenhart, C., Smiley Jr., P.C. (eds) *Ecological Restoration in the Midwest: Past, Present and Future*. Iowa Press pp 135-161, [website](#)

PUBLISHED TECHNICAL REPORTS

1. **Hausman, C.E., Eysenbach, S.R., Reinier, J.E., and Breth, M.F.** (2017) Landscaping for Biodiversity with Ohio Native Plants: A Species Guide for Plantings. Cleveland Metroparks Technical Report 2017/NR-02. Division of Natural Resources, Cleveland Metroparks. Parma, Ohio. [PDF](#)
2. Eysenbach, S.R, and **Hausman , C.E.** (2017) South Reservations Baseline Plant Community Assessment Report: Bedford, Brecksville, and Hinckley. Cleveland Metroparks Technical Report 2017/NR-4. Division of Natural Resources, Cleveland Metroparks. Parma, Ohio.
3. Eysenbach, S.R, and **Hausman , C.E.** (2017) West Reservations Baseline Plant Community Assessment Report: Bradley Woods, Huntington, Mill Stream Run, and Rocky River. Cleveland Metroparks Technical Report 2017/NR-5. Division of Natural Resources, Cleveland Metroparks. Parma, Ohio.
4. **Hausman, C.E.** (2012) Ash Tree Treatment Manual. Cleveland Metroparks Technical Report 2012/NR-08. Division of Natural Resources, Cleveland Metroparks. Fairview Park, Ohio.
5. **Hausman, C.E.** and Eysenbach, S. (2011) (2012) (2013) (2015) Plant Community Assessment Program (PCAP) Annual Report. Cleveland Metroparks Technical Report 2011/NR-05. 2012/NR-05. 2013/NR-05. Division of Natural Resources, Cleveland Metroparks. Fairview Park, Ohio.
6. Eysenbach, S., **Hausman, C.E.**, and Hillmer, J. (2011) Cleveland Metroparks Invasive Plant Guide. Cleveland Metroparks Technical Report 2011/NR-07. Division of Natural Resources, Cleveland Metroparks. Fairview Park, Ohio.
7. **Hausman, C.E.** and Murphy, J. (2011) Plant Community Assessment Program (PCAP) Data Management and Entry Protocol. Cleveland Metroparks Technical Report 2011/NR-06. Division of Natural Resources, Cleveland Metroparks. Fairview Park. Ohio.
8. **Hausman, C.E.** and Eysenbach, S. (2011) Ohio Native Plant Suggestions for Horticultural Plantings. Cleveland Metroparks Technical Report 2011/NR-05. Division of Natural Resources, Cleveland Metroparks. Fairview Park, Ohio.
9. Mack, J.J., **Hausman, C.E.**, Englehart C.R. and Robison, T.L. (2011) Emerald Ash Borer Management Protocol and Tree Removal Guidelines. Cleveland Metroparks Technical Report 2011/NR-04. Division of Natural Resources, Cleveland Metroparks. Fairview Park, Ohio.
10. **Hausman, C.E.** and Robison, T.L. (2010) Plant Community Assessment Program (PCAP) Preliminary Report. Cleveland Metroparks Technical Report 2010/NR-05. Division of Natural Resources, Cleveland Metroparks. Fairview Park, Ohio.
11. Hillmer, J., Mack, J.J., **Hausman, C.E.**, and Weldon, C.G. (2010) Initial Natural Resource Assessment and Recommendations of Seneca Golf Course and Tree Farm Properties. Cleveland Metroparks Technical Report 2010/NR-03. Division of Natural Resources, Cleveland Metroparks. Fairview Park, Ohio.

PUBLISHED ABSTRACTS (oral presentations)

1. **Hausman, C.E.** and Robison, T.L. (2011) Mapping ash trees impacted by the emerald ash borer: A Citizen Science Approach. Emerald Ash Borer (*Agrilus planipennis*) Research and Technology Development Meeting. Wooster, Ohio.
2. **Hausman, C.E.**, Jaeger, J., and Rocha, O.J. (2007) How EAB facilitates a secondary spread of invasive plant species: Impacts of EAB eradication and tree mortality. Emerald Ash Borer (*Agrilus planipennis*) Research and Technology Development Meeting. Pittsburgh, Pennsylvania.
3. Lang, M., **Hausman, C.E.**, Jaeger, F., and Rocha, O.J. (2007) Genetic structure of green ash (*Fraxinus pennsylvanica*): implications for the establishment of *ex situ* conservation protocols. Emerald Ash Borer (*Agrilus planipennis*) Research and Technology Development Meeting. Pittsburgh, Pennsylvania.
4. **Hausman, C.E.**, Jaeger, J., and Rocha, O.J. (2006) The EAB eradication protocol: environmental impacts and native plant community responses. USDA APHIS Emerald Ash Borer (*Agrilus planipennis*)/ Asian Longhorned Beetle (*Anoplophora glabripennis*) Research and Technology Meeting. Cincinnati, Ohio.
5. **Hausman, C.E.**, Jaeger, J., and Rocha, O.J. (2005) Emerald Ash Borer (*Agrilus planipennis*) Research and Technology Development Meeting. Pittsburgh, Pennsylvania.

GOVERNOR'S APPOINTMENTS TO BOARDS AND COMMISSIONS

Date: 8/12/2020

Name of Appointee: Dr. Constance E. Hausman, Ph.D.

Address: 431 Strawberry Lane
Medina, OH 44256
Medina County
(H) - 3307214337
(W) - 4405371108
(M) - 3305900110

Name of Commission: Forestry Advisory Council

Contact: Kim Berridge
2045 Morse Road, Building D
Columbus, OH 43229
(614) 265-6877

Term Begins: 2/28/2020

Term Ends: 2/27/2024

Party Affiliation: Democrat

Senate Confirmation: Appointed by the Governor, confirmed by the Senate

Financial Disclosure: No disclosure required

Vice: Melvin J. Yoder