

Michigan Boone and Crockett Partners Professor's Report



January 1 to December 31, 2017

2017 Summary

Awards and Promotions: 11 awards, 2 travel grants, 3 promotions

Research Funding: 18 projects totaling \$3,120,133

1 externally funded scholarship project totaling \$106,432

12 externally funded active research projects totaling \$2,295,507

5 internally funded active research projects totaling \$718,194

Publications: 7 published, 2 in press, 2 accepted books, 5 submitted manuscripts, 3 popular articles

Professional Presentations: 20 oral presentations, 4 invited talks, 5 poster presentations

Professional Mentoring: 2 Postdoctoral Scholars, 1 Assistant Professor, 1 Research Administrator

Student Advising: 10 Ph.D. students, 3 Master's students, 4 undergraduate interns, 5 graduate steering committees

Instruction: 5 courses, 3 guest lectures

Professional Engagement: 29 international/national activities, 6 regional activities, 10 state activities, 2 local activity, 10 university activities, 16 department activities

Professional Development: 28 workshops attended

Awards and Promotions

Faculty

William Porter was recognized by Michigan State University for his contributions as the Boone and Crockett Club Endowed Professor of Wildlife Conservation.

Graduate students

Rebecca Cain was promoted to Doctoral Candidacy.

Andrew Crosby successfully defended his doctoral dissertation on April 12, 2017. He was appointed as a Postdoctoral Research Scientist at the University of Alberta.

Kathryn Frens received the Writing Fellows in the Disciplines Fellowship.

Kathryn Frens was awarded 3rd Place for Best Student Presentation at The Wildlife Society's Annual Conference.

Christopher Hoving received the Ambrose Pattullo Graduate Fellowship for Literary Work.

Allie Shoffner received the Joseph G. Schotthoefer Memorial Student Award.

Jennifer Smith received the Joseph Laurence Maison Fellowship Award.

Bryan Stevens received a Student Travel Grant from The Wildlife Society to attend their 24th Annual Conference.

Jonathan Trudeau successfully defended his Master's thesis at Ball State University on October 6, 2017.

Undergraduate students

Steve Gurney was awarded Best Poster Presentation at the annual meeting of the Michigan Chapter of The Wildlife Society. Steve also received a student travel award to attend the meeting.

Garrett Knowlton received a MSU College of Agriculture and Natural Resources undergraduate research grant.

Sydney Manning was awarded Best Oral Presentation at the annual meeting of the Michigan Chapter of The Wildlife Society.

Sydney Manning received a MSU College of Agriculture and Natural Resources undergraduate research grant.

Hunter Stanke was awarded 1st Place for Best Poster Presentation at The Wildlife Society's Annual Conference.

Research and Scholarship

Scholarship – Externally Funded

Research and biometrics consultation and support to Wildlife Division via the Boone and Crockett Quantitative Wildlife Center at Michigan State University. Division of Wildlife, Michigan Department of Natural Resources. W. Porter and D. Williams. \$106,432. Supports Dr. David Williams.

Active Research – Externally Funded

Adaptation and resilience in habitat planning: Coupled human and natural systems models of oak management in a changing climate. Division of Wildlife, Michigan Department of Natural Resources. W. Porter. \$105,353. Supports Christopher Hoving.

American woodcock reproductive rates in relation to forest structure at local and landscape scales. Division of Wildlife, Michigan Department of Natural Resources. D. Williams, S. Winterstein and D. Luukkonen. \$319,000. Supports Ashley Huinker and Allie Shoffner.

Assessing drivers of spread and transmission of Chronic Wasting Disease in Michigan deer. Division of Wildlife, Michigan Department of Natural Resources. D. Williams and W. Porter. \$502,736. Supports Jonathan Trudeau.

A coordinated survey and analysis of wild turkey abundance. National Wild Turkey Federation. W. Porter. \$45,000. Supports Joanne Crawford.

Developing realistic wild turkey management models: effects of observation uncertainty and regulation cycle. MSU College of Agriculture and Natural Resources Undergraduate Research Program. D. Williams. \$2,000. Supports Sydney Manning.

Evaluating the impacts of landscape-level changes on the abundance and distribution of record book white-tailed deer across a large geographic region. Division of Wildlife, Michigan Department of Natural Resources. W. Porter. \$125,968. Supports Rebecca Cain.

Evaluating the interaction of emerging diseases on white-tailed deer populations. The Hal and Jean Glassen Memorial Foundation. W. Porter, D. Williams and S. Christensen. \$260,033. Supports Sonja Christensen.

Local-scale assessment and monitoring of deer populations following a major mortality event. Division of Wildlife, Michigan Department of Natural Resources. D. Williams, W. Porter, and A. Quinn. \$251,917. Supports Sonja Christensen.

Management of chronic wasting disease. Division of Wildlife, Michigan Department of Resources. W. Porter and D. Williams. \$250,000. Supports Noelle Thompson.

Management solutions for chronic wasting disease. Michigan State University, College of Agriculture and Natural Resources, AgBioResearch and MSU Extension. W. Porter, D. Williams and S. Christensen. \$300,000. Supports Jonathan Cook.

Population dynamics and management of wild turkeys in Michigan: linking monitoring, assessment, and harvest-policy evaluation. Division of Wildlife, Michigan Department of Natural Resources. W. Porter, J. Bence, M. Jones, and D. Luukkonen. \$131,500. Supports Bryan Stevens.

Spatially-explicit analysis to quantify reporting rates of white-tailed deer entered in the Boone and Crockett records. MSU College of Agriculture and Natural Resources Undergraduate Research Program. D. Williams. \$2,000. Supports Garrett Knowlton.

Active Research – Internally Funded

Assessing the impact of forest management systems on wildlife and biodiversity. Boone and Crockett Endowment and University Distinguished Fellowship. \$199,467. Supports Andrew Crosby.

Effects of land-use policy on wildlife conservation across northern forested landscapes. Boone and Crockett Endowment and Environmental Science and Policy Program Fellowship. \$201,741. Supports Kathryn Frens.

Potential wolf expansion into the Northern Lower Peninsula of Michigan – Impacts on cervid ecology and local economies. Boone and Crockett Endowment. \$192,031. Supports Nick Jaffe.

Population dynamics of brown bears in Katmai National Park and Preserve, Alaska. Boone and Crockett Endowment. \$89,245. Supports Leslie Skora.

Role of density-dependence on movement and resource selection of black bears in the Northern Lower Peninsula of Michigan. Boone and Crockett Endowment. \$35,710. Supports Jennifer Smith.

Undergraduate Research

Garrett Knowlton, a junior working in the QWC, is assisting Rebecca Cain with a project evaluating whether reporting bias affects spatial patterning of record-book white-tailed deer at the time of harvest.

Sydney Manning, a senior working in the QWC and former Professorial Assistant, is assisting with multiple projects including harvest strategies for wild turkeys, black bear abundance estimation and epizootic hemorrhagic disease midge collection.

Hunter Stanke, a sophomore working in the QWC in the Professorial Assistantship Program, is interested in spatial ecology and deer ecology and management. He is working with the Michigan Deer Disease Initiative.

Publications (Peer-reviewed)

Baumsteiger, J., R.E. Schroeter, T.A. O’Rear, J.D. Cook, and P.B. Moyle. 2017. Long-term surveys show invasive overbite clams (*Potamocorbula amurensis*) are spatially limited in Suisun Marsh, California. *San Francisco Estuary and Watershed Science*. 15(2):1-11.

Baumsteiger J., T.A. O’Rear, J.D. Cook, A. Manfree, and P.B. Moyle. 2017. Factors affecting distribution and abundance of jellyfish medusae in a temperate estuary: a multi-decadal study. *Biological Invasions*. <https://doi.org/10.1007/s10530-017-1518-x>

Herbst, S.J., B.S. Stevens, D.B. Hayes, and P.A. Hanchin. 2017. Influence of movement dynamics and assessment approach on walleye harvest management in intermixed fisheries in a chain of lakes. *North American Journal of Fisheries Management*. 37:467-479.

Jarzyna, M. A., and B. A. Maurer. 2017. Ecogeography and macroecology. In: Richardson, D.N., M.F. Castree, A.L. Goodchild, W. Kobayashi, and R. Marston, editors. *The international encyclopedia of geography: People, the earth, environment, and technology*. Wiley-Blackwell.

Porter, W. F. and K. Frens. The landscape conservation movement. In: Mahoney, S., and V. Geist, editors. *The North American model of wildlife conservation*. Johns Hopkins University Press. In Press.

Porter, W. F., R. Mason and K. Frens. Wildlife Protection Legislation. In: Leopold, B., J. Cummins and W. Kessler, editors. North American wildlife policy and law. Boone and Crockett Club. In Press.

Porter, W. F., and K. F. Millenbah. 2017. Being a professional and acting professionally. In: Henke, S. and P. Krausman, editors, Wildlife professions: Becoming marketable for employment. Johns Hopkins University Press.

Stevens, B.S., J.R. Bence, W.F. Porter, and M.L. Jones. 2017. Identifying target reference points for harvesting assessment-limited wildlife populations: a case study. *Ecological Applications*. 27:1916–1931.

Stevens, B.S., J.R. Bence, W.F. Porter, and C.J. Parent. 2017. Structural uncertainty limits generality of fall harvest strategies for wild turkeys. *Journal of Wildlife Management*. 81(4): 617-628.

Accepted Books

Porter, W.F., C.J. Parent, and D. M. Williams, editors. *Wildlife and Landscapes: Principles and Applications for Broad-scale Management*. Johns Hopkins University Press in affiliation with The Wildlife Society, Baltimore, MD, USA.

Schmitt Olabisi, L., M. McNall, W. Porter, and J. Zhao, editors. *Innovations in Collaborative Modeling*. Michigan State University Press, East Lansing, MI, USA.

Submitted Manuscripts

Crawford, J., E. Schaubert and C. Nielsen. Differential survival and habitat use of sympatric lagomorphs in bottomland hardwood forests. Submitted to the *Canadian Journal of Zoology*.

Crawford, J., A. Dechen-Quinn, D.M. Williams, K.T. Scribner, and W.F. Porter. Fine-scale spatial genetic structure of deer in a suburban landscape. Submitted to *Journal of Wildlife Management*.

Hillard, E.M., A.C. Edmund, J.C. Crawford, C.K. Nielsen, E.M. Schaubert, and J.W. Groninger. Winter snow cover increases swamp rabbit (*Sylvilagus aquaticus*) mortality rate at the northern extent of their range. Submitted to *Biological Conservation*.

McDermott, J.R., C.A. Haymes, G.B. Clevinger, J.K. Trudeau, W. Leuenberger, T. C. Carter, J.T. Hast, G. S.W. Jenkins, W. Bowling, and J.J. Cox. Safe and efficacious use of butorphanol-azaperone-medetomidine (BAM) to immobilize free-ranging white-tailed deer. Submitted to *Journal of Wildlife Diseases*.

Snow, N., Z. Zhang, A. Finley, B. Rudolph, W. Porter, D. Williams, and S. Winterstein. Regional-based mitigation approaches to reduce wildlife-vehicle collisions at large scales. *Journal of Wildlife Management* (In revision).

Popular Articles

Crosby, A. Thinking like a forest: managing forests for wildlife habitat and biodiversity. *MSU Fisheries and Wildlife Spotlight Magazine*, Spring 2017.

Frens, K. Frog songs. *MSU Fisheries and Wildlife Spotlight Magazine*, Spring 2017.

Trudeau, J.K. A Game Called "Have you met Jon?": A Guide to Networking. *The Student Chronicles: Newsletter from The Wildlife Society Student Development Working Group*, September 2017.

Professional Presentations

Cain, R.L., B. Rudolph, W.F. Porter, and D.M. Williams. Do antler point restrictions make a notable impact? Oral presentation at the 24th Annual Meeting of The Wildlife Society. 26 September 2017. Albuquerque, NM.

Christensen, S. A., M. Ruder, D. Williams, W. Porter, J. Fischer, and D. Stallknecht. Drought as a risk factor for hemorrhagic disease in the eastern United States. Oral presentation at the 24th Annual Meeting of The Wildlife Society. 26 September 2017. Albuquerque, NM.

Cook, J.D., S.A. Christensen, D.M. Williams, and W.F. Porter. Emergent disease in Michigan's wild deer. Invited oral presentation at the 5th Annual Joint Cervid Industry Meeting. 2 August 2017. Big Rapids, MI.

Crawford, J.C. Spatial genetic structure of white-tailed deer in urban landscapes: potential for localized management. Oral presentation at the *International Urban Wildlife Conference*. 5 June 2017. San Diego, CA.

Crawford, J.C. Midwest Wild Turkey Consortium Research: update and plans for future research. Oral presentation at the *Midwest Deer and Wild Turkey Study Group Meeting*. 28 August 2017. Moravia, IA.

Crosby, A.D. and W.F. Porter. Heterogeneity across scales maintains bird diversity in a managed forest landscape. Oral presentation at the *MSU Department of Fisheries and Wildlife Graduate Student Research Symposium*. 24 February 2017. East Lansing, MI.

Crosby, A.D. and W.F. Porter. Applying conservation filters to bird diversity in managed forests. Oral presentation at the *Annual Meeting of the Michigan Chapter of The Wildlife Society*. 17 March 2017. Gaylord, MI.

Frens, K.F., C. Vergara, and A. Peters. The more that you read, the more things you will know: Connecting reading completion, motivation, and grades in the undergraduate classroom. Oral presentation at the *Future Academic Scholars in Teaching Symposium*. 2 May 2017. East Lansing, MI.

Frens, K.F., L. Peterson, and W.F. Porter. Income inequality and public conservation land in Michigan's Upper Peninsula. Oral presentation at the *U.S. Society for Ecological Economics 9th Biennial Meeting*. 25-28 June 2017. St. Paul, MN.

Frens, K.F., A. Crosby and W.F. Porter. Bird community integrity and land protection in a mixed-use Northern forest. Oral presentation at the 24th Annual Meeting of The Wildlife Society. 25 September 2017. Albuquerque, NM.

Gurney, S., J. B. Smith, D. Etter, and D. Williams. The American black bear and baited hair-snares: A quantitative ethogram and behavioral analysis. Poster presentation at the *Annual Meeting of the Michigan Chapter of The Wildlife Society*. 17 March 2017. Gaylord, MI.

Gurney, S., J. B. Smith, D. Etter, and D. Williams. The American black bear and baited hair-snares: A quantitative ethogram and behavioral analysis. Poster presentation at the *24th Annual Meeting of The Wildlife Society*. September 2017. Albuquerque, NM.

Hoving, C.L. When adaptation planning is an oxymoron. Oral presentation at the *3rd Biennial National Adaptation Forum*. 10 May 2017. St. Paul, MN.

Hoving, C.L. and S. Thompson. Lessons learned in adapting oak management to a changing climate. Oral presentation to the *Association of Fish and Wildlife Agencies Climate Change Committee*. 6 September 2017. Webinar.

Hoving, C.L. What is native in a changing climate? Oral presentation at the *Ingham County WildOnes meeting*. 18 October 2017. East Lansing, MI.

Hoving, C.L. First Do No Harm: Communication Science and Climate Change. Invited keynote presentation at the *West Michigan Conservation Network Annual Meeting*. 3 November 2017. Byron Center, MI.

Manning, S.E., B.S. Stevens, and D.M. Williams. Evaluating fall harvests with practicable wild turkey management models: incorporating observation uncertainty and regulation cycle. Oral presentation at the *Annual Meeting of the Michigan Chapter of The Wildlife Society*. 17 March 2017. Gaylord, MI.

Roloff, G.J., S. Sultaire, B. Rudolph, and R. Cain. Factors correlated with declining antler diameters of yearling deer in Michigan. Oral presentation at the *77th Annual Midwest Fish and Wildlife Conference*. 6 February 2017. Lincoln, NE.

Roloff, G.J., S. Sultaire, B. Rudolph, and R. Cain. Factors correlated with declining antler diameters of yearling deer in Michigan. Oral presentation at the *Annual Meeting of the Michigan Chapter of The Wildlife Society*. 16 March 2017. Gaylord, MI.

Smith, J., D. Williams, M. Wegan, D. Etter, and W. Porter. Performance of a spatial capture-recapture model of black bears. Oral presentation at the *77th Annual Midwest Fish and Wildlife Conference*. 7 February 2017. Lincoln, NE.

Smith, J., D. Williams, M. Wegan, D. Etter, and W. Porter. Follow the bear: expanding understanding of black bear ecology across variable densities and landscapes. Oral presentation at the *Annual Meeting of the American Society of Mammalogists*. June 2017. Moscow, ID.

Smith, J., D. Etter, and D. Williams. Follow the bear: expanding understanding of black bear ecology across variable densities and landscapes. Poster presentation at the *24th Annual Meeting of The Wildlife Society*. September 2017. Albuquerque, NM.

Shoffner, A., D. Luukkonen, D. Williams, and S. Winterstein. How much wood would a woodcock want? The influence of forest at a local and landscape-scale on American woodcock recruitment. Oral presentation at the *MSU Department of Fisheries and Wildlife Graduate Student Research Symposium*. 24 February 2017. East Lansing, MI.

Shoffner, A., D. Luukkonen, D. Williams, and S. Winterstein. American woodcock reproductive rates in relation to forest structure at local and landscape scales. Poster presentation at *American Ornithology 2017*. 3 August 2017. East Lansing, MI.

Shoffner, A., D. Luukkonen, D. Williams, and S. Winterstein. American woodcock reproductive rates in relation to forest structure at local and landscape scales. Invited oral presentation at *24th Annual Meeting of The Wildlife Society*. 24 September 2017. Albuquerque, NM.

Stanke, H.D., S.A. Christensen, J. Cook and D.M. Williams Connecting the Dots: A Landscape Approach for Michigan CWD. Oral presentation at the *19th Annual University Undergraduate Research and Arts Forum*. 7 April 2017. East Lansing, MI.

Stanke, H., J.D. Cook, S. Christensen, W. Porter and D. Williams. Connecting the dots: A landscape approach for Michigan CWD. Poster presentation at the *24th Annual Meeting of The Wildlife Society*. September 2017. Albuquerque, NM.

Stevens, B. S., and C. J. Conway. Developing range-wide occupancy models for marsh birds: optimizing predictive capabilities across spatial scales. Oral presentation at the *24th Annual Meeting of The Wildlife Society*. September 2017. Albuquerque, NM.

Williams, D. Importance of Applied Research. Invited oral presentation at the *Michigan Chronic Wasting Disease Symposium*. 3 October 2017. East Lansing, MI.

Mentoring

Undergraduate Student Advising

Steve Gurney: Fisheries and Wildlife Major, working with J. Smith and D. Williams

Garrett Knowlton: Fisheries and Wildlife Major, working with D. Williams and R. Cain

Sydney Manning: Fisheries and Wildlife Major, working with D. Williams, B. Stevens, and S. Christensen

Hunter Stanke: Fisheries and Wildlife Major, working with D. Williams, J. Cook, and S. Christensen

Graduate Student/Postdoctoral Scholar Advising

Rebecca Cain: Doctoral candidate

Sonja Christensen: Doctoral candidate

Jonathan Cook: Doctoral student

Dr. Joanne Crawford: Postdoctoral Research Associate

Andrew Crosby: Doctoral candidate

Kathryn Frens: Doctoral candidate

Ashley Huinker: Master's student

Chris Hoving: Doctoral student

Nick Jaffe: Doctoral Student

Allie Shoffner: Doctoral student
Leslie Skora: Master's student
Jennifer Smith: Master's student
Dr. Bryan Stevens: Postdoctoral Research Associate (On-Call)
Noelle Thompson: Doctoral student
Jonathan Trudeau: Doctoral student

Student Committees

Eric Clark: Doctoral Student of Gary Roloff (D. Williams, thesis steering committee)
Talesha Dokes: Doctoral Student of Gary Roloff (D. Williams, thesis steering committee)
Sarah Mayhew: Doctoral Student of Scott Winterstein (W. Porter, dissertation steering committee)
Sean Sultaire: Doctoral Student of Gary Roloff (D. Williams, thesis steering committee)
Sean Williams: Doctoral Student of Catherine Lindell (W. Porter, dissertation steering committee)

Faculty Mentoring

Dr. David Williams: Assistant Professor (W. Porter, primary mentor)

Staff Mentoring

Dr. Rose Stewart: Research Administrator (W. Porter, primary mentor)

Instruction

Classes Taught

MSU FW449. Wildlife Policy. Spring semester 2017. W. Porter, D. Williams and R. Cain (Course instructors)

MSU FW 449L. Wildlife Policy – Yellowstone Study Away. Spring semester 2017. W. Porter, D. Williams and R. Cain (Course instructors)

MSU FW480. Sustaining South African Wildlife: Cash, Crime, Conflict and Conservation. Study abroad, Summer 2017. D. Williams and J. Schneider (Course instructors)

MSU FW885. Leadership in Natural Resources and Environmental Management. Fall semester 2017. W. Porter and S. Christensen (Course instructors)

MSU FW490. Independent Study in Fisheries and Wildlife. Fall semester 2017. D. Williams (Course instructor)

Guest Lectures

University of Michigan NRE 518. Wildlife Ecology and Management. 9 March 2017. "Managing forests in southern Michigan for wildlife". C. Hoving

MSU FW 101. Fundamentals of Fisheries and Wildlife. 20 April 2017. "Case studies in wildlife disease research: CWD and EHD in white-tailed deer". J. Cook and S. Christensen

Au Sable Institute BIOL 345. Wildlife Ecology. 1 August 2017. "Climate adaptation case studies at Sleeping Bear Dunes National Lakeshore." C. Hoving

Outreach and Professional Engagement

International and National Activity

11th American Woodcock Symposium: D. Williams, Reviewer and moderator; A. Shoffner, moderator
Association of Fish and Wildlife Agencies, Climate Change Committee: C. Hoving

Association of Fish and Wildlife Agencies, Climate and Endangered Species Subcommittee: C. Hoving
Association of Fish and Wildlife Agencies, National Fish and Wildlife Health Initiative Steering

Committee: S. Christensen, Coordinator

Boone and Crockett Club Official Measurer: D. Williams and R. Cain

Boone and Crockett Conservation Grants Review committee: W. Porter, Member

Boone and Crockett University Programs Sub-committee: W. Porter, Deputy Chair

Chronic Wasting Disease Summit, Tennessee Wildlife Federation: D. Williams, Invited participant

Chronic Wasting Disease Symposium, Michigan Department of Natural Resources: W. Porter, Invited
working group member; D. Williams, Invited panelist.

Ecology and Evolution: W. Porter, Reviewer

Fair Chase Magazine: J. Cook, Reviewer

Frontiers in Ecology and the Environment, B. Stevens, Reviewer

Journal of Animal Conservation: A. Crosby, Reviewer

Journal of Wildlife Management: W. Porter, Reviewer; K. Frens, Reviewer

Karner Blue Butterfly Recovery Team: C. Hoving

National Wild Turkey Symposium: W. Porter, Steering Committee Member and Associate Editor

Natural Areas Journal: C. Hoving, Reviewer

Northeast Naturalist: S. Christensen, Guest Editor; R. Cain, Reviewer

PLOS ONE: W. Porter, Reviewer

Wildlife Biology: D. Williams, Reviewer

Wildlife Society, Annual Meeting Student Poster Competition: R. Cain, Judge

Wildlife Society, Biometrics Working Group: D. Williams, Member

Wildlife Society, Conservation, Education, and Outreach Working Group: J. Crawford, Board Member

Wildlife Society, Ethnic and Gender Diversity Working Group: J. Smith, Member

Wildlife Society, Spatial Ecology and Telemetry Working Group: D. Williams, Member

Wildlife Society, Wildlife and Climate Change Working Group: C. Hoving, Past Chair

Wildlife Society, Wildlife Disease Working Group: S. Christensen and D. Williams, Members

Wildlife Society Bulletin: S. Christensen, Reviewer

Wildlife Society Symposium: Challenges of Balancing Stakeholder Engagement and Scientific Decision-
Making to Inform Wildlife Policy. G. D'Angelo, W. Porter, D. Williams, Symposium Organizers.

Regional Activity

Adirondack Research Consortium: W. Porter, Past-president and Board of Directors

Midwest Association of Fish and Wildlife Agencies Climate Change Technical Committee: C. Hoving

Midwest Deer and Turkey Technical Committee: W. Porter

SUNY Adirondack Ecological Center: W. Porter, Consultant

SUNY Adirondack Interpretive Center: W. Porter, Consultant

USGS Northeast Climate Science Center Advisory Committee: C. Hoving

State Activity

Ann Arbor Deer Management Program Review, Michigan Department of Natural Resources, Wildlife Division: W. Porter, Panel Chair.

Idaho Chapter of The Wildlife Society: B. Stevens, conference planning committee

Michigan Chapter of The Wildlife Society:

S. Christensen, President

J. Cook, Conference Planning

J. Smith, Website Administrator

D. Williams, Past President

Michigan Climate Coalition: C. Hoving, Member

Michigan Department of Natural Resources, Wildlife Division metrics working group: C. Hoving

Michigan Department of Natural Resources, Wildlife Division research working group: C. Hoving

Michigan Prescribed Fire Council Burning Issues Symposium: C. Hoving, Breakout Session Facilitator

Michigan Wild Turkey Stakeholder Group: B. Stevens, W. Porter, and D. Williams, Members

Michigan Wild Turkey Structured Decision Making Workshop Series: B. Stevens, Planning committee

QDMA Annual Banquet – Thumb Chapter: S. Christensen, Guest speaker panelist

Local Activity

East Lansing Gardening Club: J. Crawford, Guest speaker

Lansing Area Agriculture and Natural Resources Club: W. Porter, Guest speaker

University Activity

CANR Promotion and Tenure Committee: W. Porter

CANR Undergraduate Research Program Selection Committee: D. Williams

Graduate Employees' Union: K. Frens, Vice President

Graduate Women in Science: J. Smith, Girls Math and Science Day Committee

Greening of Detroit Youth Outreach; Monitoring Michigan Wildlife: R. Cain, J. Crawford, educators

Innovations in Collaborative Modeling Conference: W. Porter, Planning Committee Co-Chair

MSU Student Chapter of the Wildlife Disease Association: S. Christensen, Member and co-founder

MSU Youth Science Day, MSU Extension Science Fair: J. Crawford, educator

Sustainable Michigan Endowed Project: W. Porter, Executive Committee Member

Theodore Roosevelt Conservation and Environmental Leadership Fellowship: W. Porter, Coordinator

Departmental Activity

FW Committee on Graduate Seminar: W. Porter

FW Curriculum Committee: W. Porter

FW Graduate Student Organization:

R. Cain: 2017 Symposium Planning Committee, Faculty Meeting Representative

J. Cook: Spotlight Editorial Committee, Graduate Committee Representative

K. Frens: Spotlight Editorial Committee

C. Hoving: Spotlight Design Committee

N. Jaffe: Symposium Planning Committee

A. Shoffner: Travel Grant Committee, Spotlight Editorial Committee

L. Skora: Safety Officer

J. Smith: Undergraduate Week (Organizer), Departmental Advisory Committee (Graduate Student Representative), Seminar Committee

R. Stewart: Judge, Graduate Student Research Symposium
D. Williams: Judge, Graduate Student Research Symposium
FW Undergraduate Seminar in Fisheries and Wildlife: R. Stewart, Conducted mock job interviews and resume review with enrolled students

Professional Development

Workshops Attended

Writing Winning Grant Proposals. Michigan State University. East Lansing, MI. 5 January 2017.
R. Stewart.

Conservation Leaders for Tomorrow, Midwest Region. Max McGraw Wildlife Foundation, East Dundee, IL. 13-17 January 2017. A. Shoffner.

Travel Arranger Education Day. Michigan State University. East Lansing, MI. 23 January 2017. R. Stewart.

Midwest Fish & Wildlife Leadership Series. 77th Midwest Fish and Wildlife Conference. Lincoln, NE. 5 February 2017. J. Smith.

Workshop on Effective Visuals in Presentations. Michigan State University. East Lansing, MI. 14 February 2017. R. Cain, A. Shoffner, and L. Skora.

Adult Hunter Safety Certification Field Day. Rose Lake Shooting Range, Bath, MI. 18 February 2017.
K. Frens, A. Shoffner, J. Smith, and R. Stewart.

Proposal Development in Kuali Coeus. Michigan State University. East Lansing, MI. 21 February 2017.
R. Stewart.

Budget Development in Kuali Coeus. Michigan State University. East Lansing, MI. 23 February 2017.
R. Stewart.

American Heart Association Heartsaver First Aid CPR/AED training. East Lansing, MI. 30 March 2017.
S. Christensen, A. Shoffner, and D. Williams.

Woodcock Banders Workshop. Ralph A. MacMullan Conference Center, Roscommon, MI. 1 April 2017.
A. Shoffner.

Introduction to Bayesian Statistics. Center for Statistical Training and Consulting at Michigan State University, East Lansing MI. 14 April 2017. K. Frens.

Hierarchical Linear Models. Center for Statistical Training and Consulting at Michigan State University. East Lansing, MI. 21 April 2017. K. Frens.

Introduction to Zero Inflated Models. Center for Statistical Training & Consulting at Michigan State University. East Lansing, MI. 28 April 2017. R. Cain.

MSU Human Research Protection Requirements. Michigan State University. East Lansing, MI. 1 May 2017. R. Cain.

Certificate in College Teaching. Michigan State University. East Lansing, MI. 11-12 May 2017. R. Cain.

11th Annual Women's Fly Fishing Workshop. Big Creek Lodge, Grayling, MI. 21-23 May 2017. A. Shoffner.

Waterfowl Banding Workshop. Southeast Region, Michigan DNR. St. Charles, MI. 23 May 2017.
A. Huinker and A. Shoffner.

Coordinated Landbird Banding During Migration in the Midwest Workshop. American Ornithology 2017 conference. East Lansing, MI. 1 August 2017. A. Shoffner.

Essentials of Research Administration at MSU Certificate Series, East Lansing, MI. Fall 2017 (5 core and 3 elective classes). R. Stewart.

Communicating Beyond Journals and Peers: An Introduction to Public Communication. Michigan State University, East Lansing, MI. 21 September 2017. J. Crawford.

An Introduction to Spatial Capture-Recapture. The Wildlife Society Conference. Albuquerque, NM. 23 September 2017. L. Skora.

Distance Sampling: Conventional and Hierarchical Methods for Abundance in R. The Wildlife Society Conference. Albuquerque, NM. 23 September 2017. S. Christensen and D. Williams.

Mapping and Monitoring Wildlife Habitat Using Remotely Sensed Vegetation Phenology Measures. The Wildlife Society Conference. Albuquerque, NM. 23 September 2017. J. Crawford and N. Jaffe.

Free-Ranging Wildlife Health, Disease and Mortality Investigations – From Outbreak to Surveillance. The Wildlife Society Conference. Albuquerque, NM. 23 September 2017. N. Thompson and J. Trudeau.

Communicating Conservation with Social Media. The Wildlife Society Conference. Albuquerque, NM. 24 September 2017. J. Crawford.

Developing a Workflow to Maximize Reproducibility and Research Impact: Managing Data, Computer Code, and Projects for Success. The Wildlife Society Conference, Albuquerque, NM. 26 September 2017. J. Smith.

Adaptive Capacity. US Geologic Survey. Ft. Collins, CO. 25-27 October 2017. C. Hoving (Invitation only).

Integrated Population Models (IPM) using BUGS Software. USGS Patuxent Wildlife Research Center, Laurel, MD. 30 October-3 November 2017. D. Williams (Invitation only).