

Joshua W. Faulkner, Ph.D.

University of Vermont Extension Center for Sustainable Agriculture
264 Jeffords Hall, 63 Carrigan Dr., Burlington, VT 05405
802-656-3495, joshua.faulkner@uvm.edu

Education

PhD, Cornell University (2009), Biological & Environmental Engineering, Soil and Water Concentration

MS, Cornell University (2005), Agricultural & Biological Engineering, Soil and Water Concentration

BS, Virginia Tech (2003), Biological Systems Engineering, Land and Water Resources Option

Experience

2013-Present Farming and Climate Change Program Coordinator, University of Vermont Extension Center for Sustainable Agriculture
Adjunct Assistant Professor, University of Vermont Department of Plant and Soil Science

2009-2013 Extension Assistant Professor and Agricultural Engineering Specialist, West Virginia University, Agriculture and Natural Resources Extension Unit

2010-2013 Regular Graduate Faculty Member, West Virginia University, Davis College of Agriculture, Natural Resources & Design

Areas of Expertise

- Climate change impacts and adaptation in Northeastern agricultural systems
- Treatment of agricultural wastewater and best management practices for control of nonpoint source pollution
- Field scale hydrology and water management in agricultural landscapes
- Fate and transport of nutrients in soil and water

Classes Taught

PSS 381: Agricultural Runoff Treatment & Ecological Design (Fall 2014, Co-Instructor)

PSS 269: Soil and Water Pollution and Bioremediation (Spring 2018)

Professional Certifications

Rosgen Applied River Morphology, Levels I & II
Fundamentals of Engineering (FE) Certification

Professional Affiliations

American Society of Agricultural and Biological Engineers (ASABE); Hydrology Committee member
American Geophysical Union (AGU), member
Soil and Water Conservation Society (SWCS), member
Vermont Agricultural Agents Association, secretary

Awards and Honors

2011 Outstanding Recent Alumnus, Biological Systems Engineering Department, Virginia Tech

Publications (peer-reviewed)

- Christianson, L., D. DeVallance, J.W. Faulkner, T. Basden. 2017. Scientifically advanced woody media for improved water quality from livestock woodchip heavy-use areas. *Frontiers of Environmental Science and Engineering* 11(3):1-9.
- Faulkner, J.W., J.L. Miller, T.J. Basden, D.B. DeVallance. 2015. Woodchip heavy-use area effluent quality, quantity, and hydrologic design considerations. *Applied Engineering in Agriculture*. 31(5):783-790.
- Faulkner, J.W., W. Zhang, L.D. Geohring, T.S. Steenhuis. 2011. Tracer movement through paired vegetative treatment areas receiving silage bunker runoff. *Journal of Soil and Water Conservation*. 66(1):18-28.
- Faulkner, J.W., W. Zhang, L.D. Geohring, T.S. Steenhuis. 2011. Nutrient transport within three vegetative treatment areas receiving silage bunker runoff. *J Env Mngmt*. 92(3):587-595.
- Faulkner, J.W., Z.M. Easton, W. Zhang, L.D. Geohring, T.S. Steenhuis. 2010. Design and risk assessment tool for vegetative treatment areas receiving agricultural wastewater: Preliminary results. *Journal of Environmental Management*. 91(8):1794-1801.
- Zhang, W, J.W. Faulkner, S.K. Giri, L.D. Geohring, T.S. Steenhuis. 2010. Effect of soil reduction on phosphorus sorption of an organic-rich silt loam. *Soil Sci Soc Am J*. 74(1):240-249.
- Zhang, W, J.W. Faulkner, S.K. Giri, L.D. Geohring, T.S. Steenhuis. 2009. Evaluation of two Langmuir models for phosphorus sorption of P-enriched soils in New York for environmental applications. *Soil Science*. 174(10):523-530.
- Faulkner, J.W., T.S. Steenhuis, N. van de Giessen, M. Andreini, and J.R. Liebe. 2008. Water use and productivity of two small reservoir irrigation schemes in Ghana's Upper East Region. *Irrigation and Drainage*. 57(2):151-163.

Funding Awarded

Development of an Approach and Tool to Optimize Farm-Scale Phosphorus Management and Achieve Watershed Scale Loading Targets, (Co-PI), Lake Champlain Basin Program, 2017-2018, (\$189,945)

The Next Generation of Controlled Drainage for Preventing Tile Phosphorus Loss, (PI), Vermont Agency of Agriculture Clean Water Initiative Grant, 2017-2019 (\$46,106)

The Climate Adaptation Fellowship: A Collaborative Design Project, (PD), USDA-NIFA Agriculture and Food Research Initiative, 2017-2018 (\$248,959).

Revising and Implementing Phosphorus Indices to Protect Water Quality in the Northeastern US, (Co-PI), USDA-NRCS Conservation Innovation Grant, 2016-2019 (\$45,000)

Revision of the Vermont Phosphorus Index for Improved Nutrient Management and Water Quality, (PI), USDA-NRCS Vermont Conservation Innovation Grant, 2016 (\$74,996)

Increasing Ecosystem Services and Climate Change Resilience in Dominant Agroecosystems of the Northeast, (PI), USDA-NIFA Agriculture and Food Research Initiative Foundational Program, 2015-2019 (\$499,810)

Climate Change Adaptation Outreach for Northeastern Farmers, (Co-I), USDA Northeast Climate Hub, 2015-2019 (\$85,000)

Demonstrating effects of biological and mechanical compaction best management practices on soil properties and water movement, (PI), USDA-NRCS Conservation Innovation Grant, 2014-2017 (\$174,691)

What Lurks Below: How Important are Subsurface Flows of Nitrogen and Phosphorus?, (Co-PI), Vermont EPSCoR Pilot Award, 2014-2015 (\$9,999)

Multi-use farm ponds as a climate change resiliency and food security solution, (PI), Fieldstone Foundation, 2014 (\$3,000)

Linking bench-scale evaluation and field-scale application of thermally-treated biomass media in livestock heavy-use areas for reducing environmental impacts of agriculture, (PI), WVU Faculty Senate Research Grants, 2013-2014 (\$31,495)

Refining and Harmonizing Phosphorus Indices in the Chesapeake Bay Region to Improve Critical Source Area Identification and to Address Nutrient Management Priorities, (Co-PI), USDA-NRCS Conservation Innovation Grant, 2012-2015 (\$801,535)

Development of 21st Century Agriculture for Water Quality Protection, (Co-PI), USDA-NIFA Agriculture and Food Research Initiative (AFRI) Program, 2012-2015 (\$466,000)

Professional Development for Agriculture Service Providers in Pollution Discharge Elimination Systems, (Co-I), Northeast Sustainable Agriculture Research and Education (SARE) Professional Development Grant Program, 2012-2014 (\$26,699)

Revision and Update of West Virginia's Phosphorus Site Index, (Co-PI), US-EPA Chesapeake Bay Program Chesapeake Bay Implementation Grant, 2011-2012 (\$83,000)

Chesapeake Bay Total Maximum Daily Load and Watershed Implementation Plan Science and Policy Workshops for West Virginia's Agricultural Sector, (PI), US-EPA Chesapeake Bay Program Chesapeake Bay Implementation Grant, 2011-2012 (\$10,400)

Guidelines for Siting Effective Riparian Forest Buffers, (Co-I), Mid-Atlantic Water Program, 2010-2012 (\$40,000)

Investigation of Vegetative Treatment Systems for Wood Chip Feeding Area Effluent, (PI), WVU Extension Service Seed Grant for Research, 2009-2010 (\$2,796)

Conference Presentations and Posters

Faulkner, J.W. and J. Alvez. 2018. Evaluation of compaction BMP effects on soil properties and demonstration of soil moisture monitoring for compaction prevention in heavy clay soils of the Northeast. 73rd Soil and Water Conservation Society International Annual Conference, July 29-Aug. 1, Albuquerque, NM, USA.

Faulkner, J.W. and J. Alvez. 2018. Analysis of soil health and compaction remediation as a result of biological and mechanical methods used for compaction alleviation in the Northeast. 73rd Soil and Water Conservation Society International Annual Conference, July 29-Aug. 1, Albuquerque, NM, USA.

Twombly, C., J.W. Faulkner, and S. Hurley. 2018. Alternative agricultural management practices on dairy cropping systems in the Northeastern United States: Nutrient and sediment losses from the field to the watershed. CUAHSI 2018 Biennial Colloquium, July 29-Aug.1, Shepherdstown, WV, USA.

Kraft, D., J.W. Faulkner, and S. Hurley. 2018. Water Quality Impacts of a Woodchip Bioreactor Treatment System Receiving Silage Bunker Runoff. Northeast Agricultural and Biological Engineering Conference, July 15-18, Morgantown, WV, USA.

Faulkner, J.W., E.D. Lane, R.S. Schattman, H. Aitken, I. Fernandez, V.E. Mendez, G. Koehler, M. Kaplan, D. Tobin. 2017. The Climate Adaptation Fellows Program: A Collaborative Design Project. USDA Northeast Climate Hub Partners Meeting: Building Resiliency through Adaptation, March 14-15, New Brunswick, NJ, USA.

Kraft, D., J.W. Faulkner, and S. Hurley. 2018. Water Quality Impacts of a Woodchip Bioreactor Treatment System Receiving Silage Bunker Runoff. Lake Champlain Research Conference, January 8-9, Burlington, VT, USA.

Faulkner, J.W., C. Adair, L. Barbieri, S. Hurley, D. Conner, V. Izzo, and V.E. Mendez. 2017. Increasing Ecosystem Services and Climate Change Resilience in Dominant Agroecosystems of the Northeast. USDA NIFA AFRI Agroecosystems Project Directors Meeting, October 20-23, Tampa, FL, USA.

- Faulkner, J.W., E.D. Lane, R.S. Schattman, H. Aitken, I. Fernandez, V.E. Mendez, G. Koehler, M. Kaplan, D. Tobin. 2017. The Climate Adaptation Fellows Program: A Collaborative Design Project. USDA NIFA AFRI Climate Project Directors Meeting, October 20-23, Tampa, FL, USA.
- Faulkner, J.W. and K. Williams. 2017. Soil Moisture Sensor Networks to Assist with Grazing Management and Soil Compaction Prevention. American Society of Agricultural and Biological Engineers Annual International Meeting, July 16-19, Spokane, WA, USA.
- Schattman, R. and J.W. Faulkner. 2016. Communication Navigation: Talking about climate change with farmers and landowners in the Northeast. Association of Natural Resources Extension Professionals Conference, June 26-29, Burlington, VT, USA.
- Faulkner, J.W., T. Basden, and D.B. DeVallance. 2015. Woodchip Heavy-Use Area Effluent Quality, Quantity, and Hydrologic Design Considerations. ASABE Paper #152187144. American Society of Agricultural and Biological Engineers Annual International Meeting, July 26-29, New Orleans, LA, USA.
- Basden, T., Faulkner, J.W., and D.B. DeVallance. 2015. Woodchip Pad Winter Feeding Areas as a New Livestock Manure Management System. 2015 Waste To Worth Conference, March 30 - April 3, Seattle, WA, USA.
- DeVallance, D.B., J.W. Faulkner, and T. Basden. 2015. Laboratory Evaluation of Biomass Media for use in Livestock Heavy-Use Areas. ASABE Paper #152189792. American Society of Agricultural and Biological Engineers Annual International Meeting, July 26-29, New Orleans, LA, USA.
- Basden, T., J.W. Faulkner, and D.B. DeVallance. 2014. Evaluation of Effluent Characteristics and Sorption of Nutrients onto Thermally-Treated Biomass in a Woodchip Heavy Use Area for Wintering Dairy Cattle. Soil and Water Conservation Society International Annual Conference, July 27-30, Lombard, Illinois.
- Faulkner, J.W., J. Miller, T. Basden. 2013. Design, hydrologic performance, and effluent characteristics of a woodchip heavy use area with subsurface drainage for wintering beef cattle. From Waste to Worth: "Spreading" Science and Solutions Conference, April 1-5, Denver, Colorado.
- Faulkner, J.W., J. Miller, T. Basden. 2012. Wintering beef cattle on woodchip pads with subsurface drainage: Hydrologic design and effluent characteristics. Northeast Agricultural and Biological Engineering Conference 2012, July 15-18, Orillia, Ontario.
- Faulkner, J.W., T. Basden, J. Steele, D. Seymour, and M. Bennett. 2012. Innovative strategy for gaining agricultural stakeholder input to inform watershed planning in the Chesapeake Bay. 2012 Land Grant and Sea Grant National Water Conference, May 20-24, 2012, Portland, OR.
- Faulkner, J.W., J. Miller, and T. Basden. 2011. Wintering beef cattle on woodchip pads with subsurface drainage: System concept, design, and construction. Northeast Agricultural and Biological Engineering Conference 2011, July 24-27, Burlington, VT.

Faulkner, J.W., Z.M. Easton, W. Zhang, L.D. Geohring, T.S. Steenhuis. 2010. Hydrological Evaluation and Design of Vegetative Treatment Areas. American Water Resources Association 2010 Annual Water Resources Conference, November 1-4, Philadelphia, PA.

Zhang, W., J.W. Faulkner, L.D. Geohring, and T.S. Steenhuis. 2009. Phosphorus sorption and desorption properties of surface and subsurface horizons at three vegetative treatment areas in New York. ASABE Paper # 097002. St. Joseph, MI: ASABE.

Faulkner, J.W., W. Zhang, L.D. Geohring, and T.S. Steenhuis. 2008. Investigating Event Nitrate Dynamics in Paired Vegetative Treatment Areas Receiving Silage Bunker Runoff. ASABE Paper # 083915. American Society of Agricultural and Biological Engineers Annual Meeting, June 17-20, Minneapolis, MN, USA.

Geohring, L.D., Faulkner, J.W., W. Zhang, and T.S. Steenhuis. 2008. Treating Agricultural Process Wastewaters with Vegetated Filter Areas. Conservation Innovation Grant Showcase, Soil and Water Conservation Society Annual Conference, July 26-30, Tucson, AZ.

Zhang, W., J.W. Faulkner, L.D. Geohring, and T.S. Steenhuis. 2008. Evaluation of Two Langmuir Models for Phosphorus Sorption on Various Soils under Varied Conditions. ASABE Paper # 084181. St. Joseph, MI: ASABE.

Zhang, W., J.W. Faulkner, L.D. Geohring, and T.S. Steenhuis. 2008. Phosphorus Dynamics in Subsurface Flow as Influenced by Biogeochemical and Hydrological Factors. H31B-01. American Geophysical Union Joint Assembly, May 27-30, 2008, Ft. Lauderdale, FL.

Faulkner, J.W., W. Zhang, L.D. Geohring, and T.S. Steenhuis. 2007. Evaluating Vegetated Filter Areas for Treating Agricultural Wastewaters. American Society of Agricultural and Biological Engineers Annual Meeting, June 17-20, Minneapolis, MN, USA.

Molodovskaya, M.M., O. Singurindy, J.W. Faulkner, J W, W. Zhang, B.K. Richards, T.R. Anderson, L.D. Geohring, T.S. Steenhuis, M.T Walter. 2007. Denitrification Hotspots: Hydrology and Biogeochemistry (H31F-0727). American Geophysical Union Fall Meeting, December 10-14, 2007, San Francisco, CA, USA.

Extension Publications and Popular Press

Faulkner, J.W. and K. Williams. 2017. Field Testing Soil Moisture Sensors for Improved Pasture Management. University of Vermont Extension Factsheet SAFS-4.

Faulkner, J.W. 2017. Woodchip Pads for Livestock. University of Vermont Extension Factsheet SAFS-5.

Bjorkman, T., M. Cavigelli, D. Dostie, J.W. Faulkner, L. Knight, S. Mirsky, B. Smith. 2017. Cover Cropping to Improve Climate Resilience. USDA Northeast Climate Hub.

<https://www.climatehubs.oce.usda.gov/northeast/educational-materials/factsheets>

Grubinger, V., C. Callahan, J.W. Faulkner, J. Buckley, and R. Achilles. 2016. Guidance on Wash Water Discharge from Vegetable Pack Sheds – Advice on System Design. University of Vermont Extension.

Graziosi, M. and J.W. Faulkner. 2016. Designing Variable-Width Filter Strips on Vermont Fields Using the AgBufferBuilder ArcGIS Tool. University of Vermont Extension Factsheet SAFS-3.

Easton, Z.M. and J.W. Faulkner. 2016. Communicating Climate Change to Agricultural Audiences. Virginia Cooperative Extension Publication BSE-203P. College of Agriculture and Life Sciences, Virginia Tech.

Faulkner, J.W. 2014. Climate Change and Agriculture in Vermont. University of Vermont Extension Factsheet SAFS-2.

Faulkner, J.W. and Z.M. Easton. 2014. Agricultural Adaptation to Climate Change: Improving Resilience in Row Crop Production. University of Vermont Extension Factsheet SAFS-1.

Faulkner, J.W. 2014. Low-cost Irrigation Sand Filter. University of Vermont Extension Factsheet.

Easton, Z.M., and J.W. Faulkner. 2014. Climate Change Adaptation for Agriculture: Mitigating Short- and Long-term Impacts of Climate on Crop Production. Virginia Cooperative Extension Factsheet BSE-109P. <http://pubs.ext.vt.edu/BSE/BSE-109/BSE-109.html>

Faulkner, J.W. 2013. Managing Silage Leachate. West Virginia University Extension Service Fact Sheet No. AG13-17.

Faulkner, J.W., T. Basden, and B. Broxterman. 2013. Setback Recommendations to Reduce Runoff Risk from Manure Applications. West Virginia University Extension Service Fact Sheet No. AG13-77.

Faulkner, J.W. 2013. The World's Water. West Virginia University Extension Service 4-H Skill-a-thon. Publication No. 4H13-204.

Faulkner, J.W. 2011. How phosphorus is lost from farmland. *Mid-Atlantic Regional Agronomist Quarterly Newsletter*. December 2011.

Faulkner, J.W. 2011. Composting: good way to manage livestock carcasses. *West Virginia Farm Bureau News*. 19(9).

Faulkner, J.W. 2011. How Phosphorus Is Lost from Farmland. West Virginia University Extension Service Fact Sheet No. AG11-166. <http://anr.ext.wvu.edu/r/download/101822>

Faulkner, J.W. 2011. Producers should be proactive in a changing regulatory climate. *West Virginia Farm Bureau News*. 19(2).

Faulkner, J.W., T. Basden, and C. Richmond. 2011. New CAFO Rule: What do producers need to do?. West Virginia University Extension Service website. <http://anr.ext.wvu.edu/livestock/cafo>

Faulkner, J.W. and B. Broxterman. 2010. Litter Loading Bench Standard Design. West Virginia Natural Resources Conservation Service Conservation Practice Standard #634.

Faulkner, J.W. 2010. Snowstorms and Overloaded Roofs. Feature publication on West Virginia University Extension website.

Faulkner, J.W. 2009. Woodchip Wintering Area. West Virginia Conservation Agency Agricultural Enhancement Program Conservation Practice Standard.

Faulkner, J.W. 2009. Small Farms and Conservation: Why?. *West Virginia Small Farm Advocate*. Summer Edition.

Invited Presentations

A Resilient New England Agriculture in the Face of Climate Change. Upper Valley Adaptation Workgroup. May 15, 2018. Hanover, NH.

Resilient Farms for Changing Times. Vermont No-Till and Cover Crop Symposium. March 1, 2018. Burlington, VT.

Building Resilient Farms in a Changing Climate. NOFA-VT Board Meeting. April 5, 2018. Middlebury, VT.

Grazing Research Roundup and Steps Forward. Vermont Grazing and Livestock Conference (w/ J. Alvez). January 20, 2018. Fairlee, VT.

Farming in the Age of Climate Change and Environmental Concerns. Vermont Grazing and Livestock Conference (w/ K. Hagen). January 20, 2018. Fairlee, VT.

Soil Drainage Basics and Application. New Hampshire – Vermont Christmas Tree Association Summer Meeting. June 24, 2017. Middlesex, VT.

Building Resilient Farms in a Changing Climate. Transition Town Montpelier Lecture Series. April 20, 2017. Montpelier, VT.

Tile Drainage: What we know and don't know. Franklin County Wetlands and Tile Drainage Workshop. March 20, 2017. Saint Albans, VT.

Vermont Agriculture Resilience in a Changing Climate Panel Discussion. Rubenstein School Spring Seminar Series. March 8, 2017. Burlington, VT.

Climate Smart Farming. Northeast Organic Farming Association-VT Winter Conference. Feb.18, 2017. Burlington, VT.

Alternative Barnyards: Woodchip Pad Wintering Systems. Vermont Grazing and Livestock Conference. January 21, 2017. Fairlee, VT.

Phosphorus, Farmland, and Best Management Practices. Franklin Watershed Committee Annual Meeting. August 18, 2016. Franklin, VT.

Climate Change and Agriculture: A Soil and Water Perspective. Watershed Navigators of Northwestern Vermont. August 17, 2016. St. Albans, VT.

Resilient Vermont: A Soil and Water Perspective. Resilient Vermont 2016 Conference. May 19, 2016. Norwich, VT.

Drainage and Water Management for Small Scale Vineyards. 2016 Northeastern NY and VT Grape School. March 17, 2016. Lake George, NY.

Working Lands Leaders Panel. Vermont Climate Economy Summit: Ideas to Action. Feb. 22, 2016. Randolph, VT.

Drainage and Water Management on Vermont Farms. Vermont Tree Fruit Growers Association Annual Meeting. Feb. 18, 2016. Middlebury, VT.

Land Improvement Practices for Enterprise Establishment. Northeast Organic Farming Association-VT Winter Conference. Feb.13, 2016. Burlington, VT.

Soil Compaction: Causes, Effects, and Ways to Address It. VSJF Farm2Plate Annual Gathering. Oct. 29, 2015. Killington, VT.

Landscape Resilience in an Era of Climate Change Presentation and Panel. 2015 Vermont Housing and Conservation Board Conference. October 6, 2015. Burlington, VT.

Vermont Agriculture and Climate Change: Building Resiliency. Intervale Center. September 16, 2015.

Agriculture, the Environment, and Climate Change. Agricultural Medicine and Occupational Safety Training. September 11, 2015. Middlebury, VT.

Climate Change Considerations for Christmas Tree Production in New England. New Hampshire – Vermont Christmas Tree Association Summer Meeting. June 27, 2015. Huntington, VT.

Climate Change and Agriculture Extension in Vermont. Extension Advisory Committee Meeting. March 31, 2015. Burlington, VT.

Tile Drainage to Improve Soil Productivity. Vermont Vegetable and Berry Growers Association Annual Meeting. January 21, 2015. Fairlee, VT.

Climate Change, Farming, and Energy Considerations in Vermont. Vermont Community Energy and Climate Action Conference. December 12, 2014. Fairlee, VT.

Ensuring a Climate-Resilient Agriculture through Improved Soil and Water Management. Mid-Atlantic Crop Management School. November 18, 2014. Ocean City, MD.

Wood Chip Pad Winter Feeding Area as a New Livestock Manure Management System. Mid-Atlantic Crop Management School. November 18, 2014. Ocean City, MD.

Climate Change and the Northeast's Soil and Water Resources. USDA NRCS Soil and Water Resources Conservation Act Regional Roundtable. October 23, 2014. Albany, NY.

Soil and Water Management in the Northeast for a Climate-Resilient Agriculture. UCOWR/NIWR/CUAHSI Annual Conference. June 19, 2014. Medford, MA.

Soil and Water Management in the Northeast for a Climate-Resilient Agriculture. Virginia Tech Biological Systems Engineering Seminar Series, April 29, 2014. Blacksburg, VA.

The Dirt on Climate Change: Adaptation through Resilient Soils. 2014 Empire State Producers Expo. January 21-23. Syracuse, NY.

Soil and Water Movement on Vermont Farms: Observations and Meaning. 18th Annual Vermont Grazing and Livestock Conference. January 17-18, 2014. Fairlee, VT.

Farming and Climate Change: Adapting for a Resilient Vermont Agriculture. Vermont Farm Health Task Force In-Service. January 9, 2014.

Wintering Beef Cattle on Woodchip Pads: Concept, Design, and Results. Northeast Extension Dairy and Livestock In-Service. October 29-30, 2013. Northwood, NH.

Previous experiences in soil and water resource engineering and future application to agricultural adaptation in Vermont's changing climate. University of Vermont Plant and Soil Science Seminar Series. October 11, 2013. Burlington, VT.

Environmental management for the beef producer. Maryland Cattle Industry Convention & Hay and Pasture Conference. March 2-3, 2012. Hagerstown, MD.

Selected Service Activities

Manuscript reviewer for *Journal of Environmental Quality*, *Biosystems Engineering*, *Hydrological Processes*, *Journal of the American Water Resources Association*, *Journal of the American Society of Mining and Reclamation*, *Journal of Environmental Management*, *Water*, *Applied Engineering in Agriculture*, *Transactions of the ASABE*, *Soil Science*, *Journal of Environmental Hydrology*, and *Frontiers in Environmental Science*

Membership on five UVM Hiring Search Committees

USDA-NIFA AFRI Agroecosystem Program grant proposal review panel

Vermont Agricultural Best Management Practice Tracking and Accounting Expert Panel, 2017 - Present

Vermont Tile Drainage Advisory Group, 2016 – Present

Fact sheet (multiple) peer-reviewer for Virginia Cooperative Extension

Friends of Northern Lake Champlain Advisory Committee, November 2013-Present

West Virginia Natural Resources Conservation Service State Technical Committee, January 2009-May 2013

West Virginia Chesapeake Bay Watershed Implementation Plan Workgroup, December 2009-May 2013

West Virginia Conservation Agency Agricultural Enhancement Program State Committee, August 2009-2011