

**Kristine Stepenuck**  
**81 Carrigan Dr**  
**Burlington VT 05405**  
**802-656-8504**  
**kris.stepenuck@uvm.edu**

**Education:**

**Ph.D.** *University of Wisconsin – Madison*. 2013

Focus: Environment and Resources. GPA: 3.90

Dissertation: Improving Understanding of Outcomes and Credibility of Volunteer Environmental Monitoring Programs

**M.S.** *University of Wisconsin – Stevens Point*. 1999

Focus: Natural Resources with emphasis in Water Resources. GPA: 3.98

Thesis: Impacts of Urban Land Use on Benthic Macroinvertebrate Communities with Comparison of Samples from Snags and Riffles for Southeastern Wisconsin Streams

**B.S.** *University of New Hampshire, Durham*. 1995

Major: Water Resources Management. Minor: Hydrology. GPA: 3.54

Undergraduate Research: Nitrate Removal from a Region of Underground Flow in a First Order Stream

**Experience:**

**US Co-Chair, Public Advisory Group (Federally-appointed position)**

International Joint Commission. Lake Champlain-Richelieu River Flood Study. 2018 – present

- Serve as member of the Study Board
- Advise the Study Board on public consultation, involvement and information exchange
- Assist in the design, review and implementation of the Study Board's communication plan
- Review and provide comments on key Study Board approaches, reports and products
- Facilitate outreach to and the participation of First Nations and Tribes in public participation and outreach
- Schedule and facilitate public meetings in Quebec, New York, and Vermont at least annually
- Work with the Communications Team to advise on a variety of educational and outreach products
- Serve as a conduit for public input to the Study process, and for the public dissemination of Study outcomes
- Advise the Study Board on the responsiveness of the Study process to public concerns

**Extension Assistant Professor of Watershed Science, Policy and Education**

University of Vermont. Rubenstein School of Environment and Natural Resources and Lake Champlain Sea Grant. Burlington, VT. 2015-present

- Develop outreach programs that advance scientific research to empower communities, businesses and other stakeholders in the Lake Champlain basin to make informed decisions and address environmental and natural resources challenges
- Develop and foster partnerships with academic institutions, key agencies, and government bodies, NGOs, legislative liaisons, and the greater community throughout the Lake Champlain basin and beyond
- Represent Lake Champlain Sea Grant at relevant local, state, national and international meetings
- Develop and deliver distinctive education programs in environment and natural resources to prepare the next generations of leaders capable of working in complex and changing socio-ecological systems
- Supervise Lake Champlain Sea Grant staff to help ensure they carry out effective and meaningful programs that align with program priorities and direction

- Facilitate development, review and revision of the Lake Champlain Sea Grant strategic plan
- Seek funding that complements the general missions of the Rubenstein School of Environment and Natural Resources, Lake Champlain Sea Grant, and UVM Extension

**Volunteer Stream Monitoring Program Coordinator**

University of Wisconsin-Extension and WI Department of Natural Resources. Madison, WI. 2001-2015

- Designed and implemented a multifaceted and dynamic volunteer stream monitoring program for the State of Wisconsin that addresses educational, research and natural resources management decision-making needs
- Developed sound scientific methods and quality assurance plans for a wide variety of parameters
- Trained citizens and local coordinators in monitoring methods
- Analyzed data using a variety of database tools and statistical software, including R and SPSS
- Communicated results to the public and natural resource managers through written reports, mobile technologies and oral presentations
- Developed resources to facilitate increased collaboration, communication and cooperation among volunteer water monitoring programs across the nation
- Identified and pursued funding opportunities and prepare grant proposals to support and enhance statewide, regional and national research and outreach initiatives
- Designed and carried out social and natural science research related to volunteer water monitoring and citizen science
- Prepared and published peer-reviewed manuscripts to disseminate research findings
- Supervised project staff and interns
- Developed and maintained web-based resources to enhance program communications
- Managed online database for volunteer water quality data
- Partnered with other citizen science professionals to develop articles, conferences and opportunities to improve understanding of the field both for practitioners and for managers outside its realm
- Evaluated programming efforts

**Adjunct Faculty**

Viterbo University. West Allis, WI. June 2013 – December 2014.

- Designed, instructed and graded graduate level courses in stream monitoring and stream biology
- Prepared syllabi, grading rubrics and content for courses

**Watershed Project Manager**

Macatawa Area Coordinating Council. Holland, MI. March – October 2000

**Eurasian Water Milfoil Researcher**

University of Wisconsin. Stevens Point, WI. August 1999 – March 2000

**Aquatic Macroinvertebrate Researcher (Master's Thesis)**

University of Wisconsin. Stevens Point, WI. September 1997 – January 2000

**Soil Conservation and Watershed Inventory Field Course Instructor**

University of Wisconsin – Stevens Point, Treehaven Field Camp. Tomahawk, WI. Summer 1999

**Aquatic Toxicology Lab Manager**

University of Wisconsin, Aquatic Toxicology Laboratory. Stevens Point, WI. July 1998 – July 1999

**Water and Soil Resources Teaching Assistant**

University of Wisconsin. Stevens Point, WI. January – June 1998

**Rivers Program Assistant**

New Hampshire Department of Environmental Services, NH Rivers Management and Protection Program.  
Concord, NH. August 1996 – April 1997

**Marine, Freshwater, and Terrestrial Environmental Educator** February 1995 – August 1997

University of New Hampshire Sea Grant, Durham, NH.

Seacoast Science Center, Rye, NH.

Habitat Education Center, Massachusetts Audubon, Belmont, MA.

Shelburne Farms, Shelburne, VT.

Tanglewood 4H Camp and Learning Center, University of Maine Cooperative Extension, Lincolnville, ME.

**Aquatics Education Intern – Merrimack River Watershed Education Program**

New Hampshire Fish and Game Department. Concord, NH. September – December 1995

**Chemistry Lab Technician**

Keene State College. Keene, NH. September – December 1995

**UVM Teaching:**

1. NR295/395 *Stormwater Education Methods*. 1 credit. University of Vermont. Fall 2019.
2. NR195 *Water Management and Sustainability in the Netherlands*. University of Vermont. 3 credits. SU-approved. Summer 2018; Summer 2019.
3. NR306 *Envisioning a Sustainable Future*. 1 credit. University of Vermont. Fall 2017; Fall 2018.
4. NR102 *Water as a Natural Resource*. 3 credits. SU-approved. University of Vermont. Spring 2017; Spring 2018.

**UVM Guest Lectures:**

1. NR 280, Stream Ecology. *Overview and Tips of Identification of Common Aquatic Macroinvertebrates of Vermont*. Fall 2018
2. PSS 145, Turfgrass Management. *Low Input Lawn Care Outreach and Research of Lake Champlain Sea Grant and UVM Extension*. Fall 2018
3. CDAE 295/395, Smart Resilient Communities. *Citizen Science: Making a World of Difference*. Spring 2018
4. NR 205, Ecosystem Management. *Citizen Science Overview* panelist. Fall 2017
5. NR 395, Appl. Ecol., Env. & Society. *Lake Champlain Sea Grant Outreach*. Fall 2016
6. ENVS 195, Nonmaterial Values of Ecosystems. *Volunteer Monitoring and its Impacts on Policy and Management*. Spring 2016
7. ENVS 195, Emerging Technology & Health. *Understanding Impacts of Volunteer Monitoring*. Fall 2015

**Honors and Awards:**

- David N. Redell Award for Lifetime Achievement in Citizen-based Monitoring. 2016.
- Wisconsin Extension Environmental and Community Development Association Outstanding Achievement Award. 2015.
- Rock River Coalition River Friends Award. 2014.
- North American Lake Management Society (NALMS) Technical Merit Award for Public Education/Outreach. Extension Volunteer Monitoring Network. 2012.
- Wisconsin Department of Natural Resources Water Resources Employee of the Year Award. 2011.
- USDA National Water Program Project of Excellence, National Water Resources Project “Moving Volunteer Water Monitoring to the Next Level.” 2010.
- USDA National Water Program Project of Excellence, Regional *E. coli* Monitoring Project, “Building Volunteer Capacity and Comparing Methods for *E. coli* Monitoring in Streams: A Multi-State Effort.” 2010.
- UW-Extension Academic Staff Regents Award for Excellence nominee. 2010
- USDA National Water Program, Outstanding Extension Program – Water Resources Team Award, Building *E.*

*E. coli* Monitoring Capacity. 2008

- Association of Natural Resource Extension Professionals Outstanding Team Award. 2006
- Wisconsin State Council of Trout Unlimited Appreciation Award. 2003
- Best student paper at the 60th Midwest Fish and Wildlife Conference. 1998
- Governor's Success Scholarship (4-year tuition scholarship), University of New Hampshire. 1991-1995
- Valedictorian, Monadnock Regional High School (NH). 1991

**Grants and Contracts:**

1. *Lake Champlain Forest Watershed Management Partnership*. Natural Resource Conservation Service. 2019-2020. PI. \$40,000
2. *Lake Champlain Sea Grant Visioning Project Supplement*. NOAA National Sea Grant Office. 2019-2020. Co-PI. \$40,000
3. *Lake Champlain Sea Grant Omnibus*. NOAA National Sea Grant Office. 2018-2022. Co-PI. \$4,000,000
4. *Green Infrastructure Collaborative*. Vermont Agency of Natural Resources. 2018-2019. PI. \$42,420
5. *Resilience Visioning and Development Projects Supplement*. NOAA National Sea Grant Office. 2017-2018. Co-PI. \$30,000
6. *Green Infrastructure Collaborative*. Vermont Agency of Natural Resources. 2017-2018. PI. \$33,400
7. *Preparing Communities to Build Resilience to Coastal Storms Through Watershed Groups*. Wisconsin Sea Grant. 2016-2017. PI. \$5,000
8. *Green Infrastructure Collaborative*. Vermont Agency of Natural Resources. 2016-2017. PI. \$39,492.
9. *Integrating Volunteer Nutrient Monitoring and Outreach with Extension across States*. North Central Region Water Network. 2015. \$26,480
10. *Water Action Volunteers Contract*. WI Department of Natural Resources. Federal FY2015. \$70,965.
11. *Lower Fox Tributary Volunteer Monitoring*. WI Department of Natural Resources Office of the Great Lakes Area of Concern Support Grant. 2014-2015. \$43,609
12. *Water Action Volunteers Contract*. WI Department of Natural Resources. Federal FY2014. \$70,965
13. *Building Public Awareness of Wisconsin's Streams and the Impacts of Land Use on Their Water Quality Through Self-Guided Tours of Long-term Volunteer Stream Monitoring Sites*. Wisconsin Environmental Education Board. 2013-2014. \$9,969
14. *Water Action Volunteers Contract*. WI Department of Natural Resources. Federal FY2013. \$70,965.
15. *Building Partnerships and Broadening Horizons: Expanding Volunteer Urban Road Salt Monitoring in Streams across the Upper Midwest*. Great Lakes Regional Water Program. 2012-2013. \$45,108
16. *Exploring Streams: A Stream Monitoring Curriculum Guide for Wisconsin Middle and High School Teachers and Students*. Wisconsin Department of Natural Resources Partnership Program. 2012-2013. \$4,900
17. *Water Action Volunteers Contract*. WI Department of Natural Resources. Federal FY2012. \$70,965.
18. *Water Action Volunteers Contract*. WI Department of Natural Resources. Federal FY2011. \$70,965.
19. *Volunteer Monitoring in Underserved Communities: Exploring Opportunities & Programs for Enhanced Watershed Management*. Great Lakes Regional Water Program. 2010-2011. \$27,487
20. *Teacher Training with BLM Riparian Zone Curriculum*. Bureau of Land Management Youth Initiative Incentive Funding. 2010-2011. \$25,000
21. *Moving the Extension Volunteer Monitoring Network to the Next Level*, USDA Cooperative State Research Education and Extension Section 406 National Water Resources Project. 2008-2012. \$380,000
22. *Building Capacity of E. coli Monitoring by Volunteer Networks: A Multi-State Effort – Continuation Project*. USDA Great Lakes Water Quality Team. 2008-2010. \$50,000
23. *Marsh Monitoring – A Pilot for Partnership with the Citizen-based Water Monitoring Network*. Wisconsin Department of Natural Resources Partnership Program. 2007-2008. \$5,000
24. *Volunteer Water Quality Monitoring National Facilitation Project*. USDA Cooperative State Research Education and Extension Section 406 National Facilitation Grant. 2004-2008. \$399,852
25. *A Pilot Project to Evaluate Citizen-based Monitoring Groups' Ability to Use a Family-Level Macroinvertebrate Index to Assess Stream Health*. Wisconsin Department of Natural Resources Partnership Program. 2005-2006. \$4,640
26. *Who's Who in Citizen-based Monitoring in Wisconsin*. Wisconsin's Comprehensive Wildlife Conservation Planning Grant. 2005. \$18,000

27. *Water for Everyone*. Ira and Ineva Reilly Baldwin Wisconsin Idea Endowment. University of Wisconsin. 2004-2006. \$50,000
28. *Building Capacity of E. coli Monitoring by Volunteer Networks: A Multi State Effort*. USDA Cooperative State Research Education and Extension Section 406 Extension Education Grant. 2003-2006. \$275,000
29. *Ellwood H. May Environmental Center Watershed Education Resource Center*. CD Besadny Natural Resources Foundation Conservation Grant. 2004. \$830
30. *Shawano-area Watershed Education Resource Center*. Wisconsin Environmental Education Board Grant. 2002-2003. \$4,437

#### Peer-reviewed Publications:

1. Lowry, C. S., M. N. Fienen, D. M. Hall, and **K. F. Stepenuck**. In press. Growing Pains of Crowdsourced Stream Stage Monitoring using Mobile Phones: The Development of CrowdHydrology. *Frontiers in Earth Science, section Geohazards and Georisks*.
2. **Stepenuck, K. F.**, and K. D. Genskow. 2019. Understanding Key Traits of Volunteer Water Monitoring Programs that Report Natural Resource Management and Policy Outcomes. *Society & Natural Resources*. 32(3), 275-291.
3. **Stepenuck, K. F.**, and K. D. Genskow. 2018. Characterizing the Breadth and Depth of Volunteer Water Monitoring Programs in the United States. *Environmental Management*. 61(1): 46-57.
4. McKinley, D. C., A. J. Miller-Rushing, H. L. Ballard, R. E. Bonney, H. Brown, S. C. Cook-Patten, D. M. Evans, R. A. French, J. K. Parrish, T.B. Phillips, S. F. Ryan, L. A. Shanley, J. L. Shirk, **K. F. Stepenuck**, J. F. Weltzin, A. Wiggins, O.D. Boyle, R. D. Briggs, S. F. Chapin III, D. A. Hewitt, P. W. Preuss, and M. A. Soukup. 2017. Citizen Science Can Improve Conservation Science, Natural Resource Management, and Environmental Protection. *Biological Conservation*. 208, 15-28.
5. McKinley, D. C., A. J. Miller-Rushing, H. L. Ballard, R. E. Bonney, H. Brown, D. M. Evans, R. A. French, J. K. Parrish, T.B. Phillips, S. F. Ryan, L. A. Shanley, J. L. Shirk, **K. F. Stepenuck**, J. F. Weltzin, A. Wiggins, O. D. Boyle, R. D. Briggs, S. F. Chapin III, D. A. Hewitt, P. W. Preuss, and M. A. Soukup. 2015. Investing in citizen science can improve natural resource management and environmental protection. *Issues in Ecology*. Report Number 19.
6. **Stepenuck, K.F.**, and L. Green. 2015. Individual and Community-Level Impacts of Volunteer Environmental Monitoring: A Synthesis of Peer-Reviewed Literature. *Ecology and Society*. 20(3):19. <http://www.ecologyandsociety.org/vol20/iss3/art19/>
7. **Stepenuck, K.F.** 2013. Improving Understanding of Outcomes and Credibility of Volunteer Environmental Monitoring Programs. Doctoral dissertation, The University of Wisconsin-Madison.
8. Akin, H., B. Shaw, **K.F., Stepenuck**, and E. Goers. 2013. Factors Associated with Ongoing Commitment to a Volunteer Stream Monitoring Program. *Journal of Extension*. 51(3).
9. **Stepenuck, K.**, L. Wolfson, B. Liukkonen, J. Iles, and T. Grant. 2011. Volunteer Monitoring of *E. coli* in Streams of the Upper Midwestern United States: A Comparison of Methods. *Environmental Monitoring and Assessment*. 174(1-4): 625-33. Epub 2010 May 8.
10. **Stepenuck, K.**, R. Crunkilton, M. Bozek, and L. Wang. 2008. Comparison of Macroinvertebrate-Derived Stream Quality Metrics between Snag and Riffle Habitats. *Journal of the American Water Resources Association*. 44(3): 670-678.
11. Overdeest, C., C. Huyck Orr, and **K. Stepenuck**. 2004. Volunteer Stream Monitoring and Local Participation in Natural Resource Issues. *Human Ecology Review*. 11(2): 177-185.
12. **Stepenuck, K.F.**, R.L. Crunkilton, L. Wang. 2002. Impacts of Urban Land Use on Macroinvertebrate Communities in Southeastern Wisconsin Streams. *Journal of the American Water Resources Association*. 38 (4): 1041-1052.

#### Peer-reviewed Publications in Preparation:

1. **Stepenuck, K. F.** and K.D. Genskow. In preparation. Impacts of Volunteer Water Monitoring Programs on Natural Resource Policy and Management in the United States.
2. **Stepenuck, K.** and M. Diebel. In preparation. Comparing Volunteer and Professional Streamflow Monitoring Methods.

3. Sparacino, H., **K. Stepenuck**, S. Hurley, and R. Gould. In preparation. A Literature Review of Winter Best Management Practices and Road Salt Impacts.
4. Sparacino, H., **K. Stepenuck**, S. Hurley, and R. Gould. In preparation. Snow Removal Company Characteristics in the Lake Champlain Basin.
5. Sparacino, H., **K. Stepenuck**, S. Hurley, and R. Gould. In preparation. Behavior Changes of Snow Removal Companies in the Lake Champlain Basin: A Mixed Methods Analysis.

#### Select Educational Publications and Products:

1. **Stepenuck, K.** September 2019. *Understanding Cyanobacteria Blooms and Keeping Your Dog Safe*. Public Service Announcement. WDEV.
2. **Stepenuck, K.** 2019. *Tips for Keeping Driveways and Sidewalks Safe While Using Less Salt*. Public Service Announcement. WDEV.
3. **Stepenuck, K.** 2018. *Understanding Phosphorus and Simple Actions Homeowners Can Take to Minimize its Movement to Surface Waters*. Public Service Announcement. WDEV.
4. **Stepenuck, K.** 2018. *Rain Chains to Promote Stormwater Infiltration signs*. Displayed at Art Hop. Burlington, VT.
5. **Stepenuck, K.** 2018. Grass root length demonstration boxes and educational signs.
6. Yates, H. (**K. Stepenuck** and E. Schuett, editors). 2018. *Green Stormwater Infrastructure Bicycle Tour – St. Albans, Vermont*. University of Vermont and Vermont Department of Environmental Conservation. Available at: <https://www.uvm.edu/seagrant/GI-bike-map>
7. **Stepenuck, K.**, P. Sexton, and C. Dobbins. October 30, 2018 (original air date). *Lake Champlain Basin Deicing Conference* on Across the Fence, WCAX. Available at: <https://www.youtube.com/watch?v=XqxSCVd6lh8>
8. Yates, H., K. Livingstone, E. Schuett, and B. Tharp (**K. Stepenuck**, podcast editor). 2018. *Green Stormwater Infrastructure Bicycle Tour, Burlington, Vermont*, podcast and StoryMap. Available from: <https://www.uvm.edu/seagrant/burlington-green-infrastructure-bike-tour>
9. Coleman, S. (**K. Stepenuck** and A. Eaton, editors). 2018. *Soaking Up Stormwater Through Stewardship in the Lake Champlain Basin*. A Middle School Curriculum. Lake Champlain Sea Grant and UVM Extension.
10. **Stepenuck, K.** and A. Eaton. August 21, 2018 (original air date). *Lake Champlain Sea Grant and UVM Extension Watershed Alliance Updates* on Across the Fence, WCAX. Available at: <https://www.youtube.com/watch?v=P29G9jM5ldY>
11. Lepak, J. (M. Malchoff and **K. Stepenuck** revised publication for Lake Champlain Basin). 2018. *Keepings Dogs Safe from Harmful Algal Blooms*. Lake Champlain Sea Grant. Available at: <https://www.uvm.edu/seagrant/water-quality>
12. San Francisco Bay Estuary Partnership (**K. Stepenuck**, revised publication for Lake Champlain). 2018. *Pumpout Nav App*. Available at: <https://www.uvm.edu/seagrant/news/pumpout-nav-app-available-lake-champlain-boaters>
13. Garneau, D. and **K. Stepenuck**. 2017. *Microplastics in the Lake* on Across the Fence, WCAX. Available at: <https://www.youtube.com/watch?v=gTL3fYuP0I4>
14. Eaton, A., L. Traister, A. Tarren, and L. Bowden (**K. Stepenuck**, editor). 2017 (revised 2018). *4H2O Watershed Education Curriculum*. UVM Extension TRY Program.
15. Lee, E. (**K. Stepenuck** and A. Eaton, editors). 2017. *Weather and Climate: Grade 3 Curriculum*. State University of New York – Plattsburgh and University of Vermont.
16. **Stepenuck, K.** and C. Parnapy. 2017. *Salt Use on Winter Roads* on Across the Fence, WCAX. Available at: <https://www.youtube.com/watch?v=7Y4-E-OaeFs> and [https://www.youtube.com/watch?v=AllwpJzJ\\_NM](https://www.youtube.com/watch?v=AllwpJzJ_NM)
17. **Stepenuck, K.**, M. Braun, L. Wight, and C. Parnapy. 2017. *Erosional Flood Resilience Scorecard for Communities of the Lamoille Watershed of Vermont*. Lake Champlain Sea Grant. Available at: <https://www.uvm.edu/seagrant/hazard-resiliency>
18. **Stepenuck, K.**, M. Braun, L. Wight, and C. Parnapy. 2017. *Erosional Flood Resilience Scorecard for Communities of the Missisquoi Watershed of Vermont*. Lake Champlain Sea Grant. Available at: <https://www.uvm.edu/seagrant/hazard-resiliency>
19. **Stepenuck, K.**, M. Braun, L. Wight, and C. Parnapy. 2017. *Erosional Flood Resilience Scorecard for Communities of the Winooski Watershed of Vermont*. Lake Champlain Sea Grant. Available at: <https://www.uvm.edu/seagrant/hazard-resiliency>
20. Clean Water Network of Vermont. (**K. Stepenuck** and others, editors). 2017. *All in for Clean Water*.
21. **Stepenuck, K.** 2017. *Lake Champlain Sea Grant Extension Outreach Activities*.

22. Tarren, A. (**K. Stepenuck** and Elissa Schuett, editors). 2016. *Microplastics*. Lake Champlain Sea Grant. Available at: <https://www.uvm.edu/seagrant/publications>
23. **Stepenuck, K.** and K. Murphy. 2013. *Exploring Streams: Stream Monitoring Curriculum Guide for Middle and High School Teachers and Students*. University of Wisconsin. 275 pp. Available at: <http://watermonitoring.uwex.edu/wav/monitoring/curriculum/index.html>
24. **Stepenuck, K.**, S. Corsi, and C. Anderson. 2012 – 2015. *Road Salt Monitoring Reports (>100)*. Available at: <http://watermonitoring.uwex.edu/level3/UrbanRoadSaltReports.html>
25. Kushner, J., J. Klink, **K. Stepenuck**, K. Genskow, E. Herron, and L. Green. 2012. *Evaluating Your Volunteer Water Quality Monitoring Program*. National Water Resources Project Fact Sheet XVI. University of Rhode Island and University of Wisconsin. Available at: <http://volunteermonitoring.org/guide-for-growing-programs>
26. Herron, E., **K. Stepenuck**, K. Kleehammer, and L. Green. 2012. *Presenting Bacteria Data Effectively*. National Water Resources Project Fact Sheet XV. University of Rhode Island and University of Wisconsin. Available at: <http://volunteermonitoring.org/guide-for-growing-programs>
27. Herron, E., **K. Stepenuck**, and L. Green. 2009. *Tools for Effective Outreach*. National Water Resources Project Fact Sheet XII. University of Rhode Island and University of Wisconsin. Available at: <http://volunteermonitoring.org/guide-for-growing-programs>
28. Herron, E., **K. Stepenuck**, and L. Green. 2009. *Fundraising for Volunteer Monitoring*. National Water Resources Project Fact Sheet XI. University of Rhode Island and University of Wisconsin. Available at: <http://volunteermonitoring.org/guide-for-growing-programs>
29. **Stepenuck, K.** and J. Strobel. 2007. *Friends of the St. Croix Headwaters 2006-2007 Level 2 Stream Monitoring Results*. University of Wisconsin-Extension and WI Department of Natural Resources Citizen-based Stream Monitoring Program.
30. **Stepenuck, K.**, E. Herron, and L. Green. 2006. *Considerations for Planning Your Program's Data Management System*. National Water Resources Project Fact Sheet IX. University of Rhode Island and University of Wisconsin. Available at: <http://volunteermonitoring.org/guide-for-growing-programs>
31. Herron, E., L. Green, and **K. Stepenuck**. 2006. *Volunteer Management and Support*. National Water Resources Project Fact Sheet VIII. University of Rhode Island and University of Wisconsin. Available at: <http://volunteermonitoring.org/guide-for-growing-programs>
32. Herron, E., L. Green, **K. Stepenuck**, and K. Addy. 2004. *Building Credibility: Quality Assurance and Quality Control for Volunteer Monitoring Programs*. National Water Resources Project Fact Sheet VI. University of Rhode Island and University of Wisconsin. Available at: <http://volunteermonitoring.org/guide-for-growing-programs>
33. Herron, E. and **K. Stepenuck**. 2003. *Cooperative Extension Volunteer Monitoring Partnerships*. The Volunteer Monitor. 15(1): 18-20.
34. Herron, E., **K. Stepenuck**, L. Green, and K. Addy. 2003. *Designing Your Monitoring Strategy: Basic Questions and Resources to Help Guide You*. National Water Resources Project Fact Sheet IV. University of Rhode Island and University of Wisconsin. Available at: <http://volunteermonitoring.org/guide-for-growing-programs>
35. **Stepenuck, K.**, J. Peterson, M. Miller, and C. Javid. 2002. *Stream Flow: Flow Speaks Volumes*. University of Wisconsin-Extension and WI Department of Natural Resources Water Action Volunteers Monitoring Program Fact Sheet #7. Available at: <http://watermonitoring.uwex.edu/wav/monitoring/methods.html>
36. Addy, K., L. Green, E. Herron, and **K. Stepenuck**. 2002. *Why Volunteer Water Quality Monitoring Makes Sense: National Water Resources Project Fact Sheet II*. University of Rhode Island and University of Wisconsin. Available at: <http://volunteermonitoring.org/guide-for-growing-programs>

#### White Papers and Formal Documents:

1. **Stepenuck, K.** and A. Eaton. 2019. *Watershed Alliance Longitudinal Evaluation Results Summary*.
2. Bowden, W., **Stepenuck, K.**, E. Schuett, M. Malchoff, A. Eaton, and L. Patterson. 2019. Lake Champlain Sea Grant, 2014-17 Site Review Briefing Book. Available at: <https://www.uvm.edu/seagrant/news/lake-champlain-sea-grant-2014-17-site-review>
3. Behl, M and J. Harrison. (**K. Stepenuck** and others, editors; and **K. Stepenuck** was lead on national surveys that informed the vision). 2018. *Reaching Outward and Looking Inward Building Resilience through the lens of Diversity, Equity, and Inclusion*. National Sea Grant Network. Available at: [https://seagrant.noaa.gov/Portals/1/DEI\\_Vision\\_Final.pdf](https://seagrant.noaa.gov/Portals/1/DEI_Vision_Final.pdf)

4. Bilotta, J.B., J. Schomberg, S. Jarbeau, M. Kennedy, T. Ruppert, J. Simpson, and **K. Stepenuck**. *Community Response to Flooding: A 10-year Vision for the National Sea Grant Network*. 2018. National Sea Grant Network. Available at: <https://seagrant.noaa.gov/Portals/1/Sea%20Grant%20Community%20Response%20to%20Flooding%20Vision.pdf>
5. Grant, K., M. Myers, et al. (**Stepenuck, K.** developed Logic models and contributed to plan development through a multi-day workshop and other meetings.) 2018. Citizen Science. Community-based Science Initiatives National Sea Grant Visioning Document. Available at: <https://seagrant.noaa.gov/Portals/1/Community%20Science%20-%20Network%20Vision%202018-2.pdf>
6. **Stepenuck, K.** 2018. *Lake George Marina Educational Outreach Interest Survey Results*.
7. Bowden, W., **K. Stepenuck**, E. Schuett, M. Malchoff, R. Tharp, A. Eaton, A. Tarren, and L. Patterson. 2017. *Lake Champlain Sea Grant Briefing Book: Institutional Status Proposal and Site Review*. Available at: <https://www.uvm.edu/seagrant/publications>
8. **Stepenuck, K.**, M. Malchoff and E. Schuett. 2017. *Lake Champlain Marina Survey Results*. Available at: <https://www.uvm.edu/seagrant/publications>
9. Bowden, W., **K. Stepenuck**, M. Malchoff, E. Schuett, R. Tharp, A. Eaton, A. Tarren, and L. Patterson. 2017. *Lake Champlain Sea Grant Strategic Plan*. Available at: <https://www.uvm.edu/seagrant/publications>
10. **Stepenuck, K.** J. Schomberg, K. Bunting-Howarth, L. Kammin, H. Treizenberg, R. Sturtevant, D. Hart, and S. Whitney. 2016. *Proposed Priority Collaborative Efforts Across the Great Lakes Sea Grant Network 2016-2021*.
11. **Stepenuck, K.**, E. Lee, C. Hickey, K. Bates, L. Patterson, and L. Fisher. 2016. *Healthy Soils Survey Results*. Available at: [www.lawntolake.org/PDFs/HealthySoilsSurveyInfographic\\_RevisedApril2018.pdf](http://www.lawntolake.org/PDFs/HealthySoilsSurveyInfographic_RevisedApril2018.pdf)
12. **Stepenuck, K.**, 2016. *Survey Results of Clean Water Outreach in Vermont*. Available at: <https://www.uvm.edu/seagrant/publications>
13. **Stepenuck, K.** and M. Malchoff. 2016. *Barriers and Motivations to Town Implementation of Floodplain Ordinances (NY) or River Corridor Bylaws (VT) in the Lake Champlain Basin*. Summary of survey results.
14. **Stepenuck, K.** and M. Malchoff. 2016. *8-Month Post Leahy Summit Survey Results*.

#### Select Presentations:

1. **Stepenuck, K.** January 2019. *Engaging the public in scientific research through water monitoring: motivations, outcomes and impacts on natural resource management and policy*. Idaho Water Quality Conference. Boise, Idaho. (Invited plenary speaker)
2. **Stepenuck, K.** November 2018. *Development and Implementation of Citizen Science: the advantages and limits of the direct transfer of environmental knowledge for policy, industry, research and society*. Citizens Observatories for Natural Hazards and Water Management. Venice, Italy. (Invited panelist)
3. **Stepenuck, K.** October 2018. *The Role of Citizen Science in Natural Resource Management and Policy Decisions*. Environmental and Water Resources Engineering Seminar; Department of Civil, Structural, and Environmental Engineering, University at Buffalo, Buffalo, New York. (Invited speaker)
4. **Stepenuck, K.** September 2018. *Centering Us Around Citizen Science at Citizen Science in Sea Grant: A Method for Community Engagement through Research Workshop*. Sea Grant Week. Portland, Oregon.
5. **Stepenuck, K.** July 2018. *Citizen Science as an Education Tool: Student-based Volunteer Water Monitoring Programs Across the Nation*. NOAA Citizen Science Lunch and Learn Series Webinar. (Invited panelist)
6. **Stepenuck, K.** March 2018. *Citizen Science Overview*. Sea Grant Network Citizen Science Visioning Workshop.
7. **Stepenuck, K.**, K. Coleman, K. Bates, K. Crowningshield, L. Fisher, C. Hickey, E. Lee, L. Patterson, P. Sagai, J. Wallace, and N. Durate. January 2018. *Exploring Lawn Care Practices of Homeowners to Promote Behavior Changes and Reduce Runoff*. Lake Champlain Research Conference. Burlington, VT.
8. **Stepenuck, K.** January 2018. *Citizen Science: Making a Difference for People and Communities*. Citizen Science at the University of Minnesota webinar. (Invited speaker)
9. **Stepenuck, K.** December 2017. *Volunteer Water Monitoring: Influencing Policies and Natural Resource Management in the United States*. Towards a Columbia Basin Water Monitoring Framework. Invermere, British Columbia, Canada. (Invited speaker)
10. **Stepenuck, K.** November 2017. *Pancakes with Professionals*. Rubenstein Stewards Event. University of Vermont, Burlington, VT. (Invited panelist)



11. **Stepenuck, K.**, A. Holland, R. Pfeiffer, and L. Wight. November 2017. *Protecting River Corridors: Engaging at the Local Level panel discussion*. Watersheds United Vermont Fall Meeting. Charlotte, VT. (Invited speaker)
12. **Stepenuck, K.** October 2017. *The Power of the People*. Wake Robin Inquire Lecture Series. Shelburne, VT. (Invited speaker)
13. **Stepenuck, K.** October 2017. *Citizen Science, Making a World of Difference*. Iowa Citizen Science Workshop. Iowa City, IA. (Invited keynote)
14. **Stepenuck, K.** September 2017. *Soil Testing Tips and Tricks for Homeowners*. Stormwater-Friendly Lawn Care Workshop. Essex, VT. (Invited speaker)
15. **Stepenuck, K.**, C. Williams, M. Morales-Williams, E. Marsden, J. Stockwell, N. Mathews. September 2017. *R/V Melosira for Research and Teaching – Vermont Legislators Trip Aboard the Melosira*. Burlington, VT.
16. Braun, M. and **K. Stepenuck**. July 2017. *The Importance of Protecting River Corridors*. Duxbury Planning Commission. Duxbury, VT.
17. **Stepenuck, K.** May 2017. *Focused on Quality – In the Water and the Data*. Citizen Science Association Data Quality Workshop. St. Paul, MN. (Invited speaker)
18. **Stepenuck, K.** May 2017. *Big Things Start Small: Tips for Everyday People to Help Protect Lakes*. UVM Extension EPIC Conference. Stowe, VT.
19. **Stepenuck, K.** April 2017. *River Corridor Planning Resources*. Making River Corridors Work for You Workshop. Enosburg Fall, VT.
20. **Stepenuck, K.** March 2017. *ANR Atlas Tools for River Corridor Assessment*. Making River Corridors Work for You Webinar.
21. **Stepenuck, K.** March 2017. *Understanding Impacts of Volunteer Water Monitoring Programs on Natural Resource Policy and Management*. Michigan State University Ecology, Evolutionary Biology and Behavior Program Seminar. Lansing, MI. (Invited speaker)
22. **Stepenuck, K.** January 2017. *Community Outreach Focused on River Corridor Protection*. Rubenstein School Spring Seminar Series, From Research to Practice & Back. Burlington, VT. (Invited panelist)
23. **Stepenuck, K.** November 2016. *Can Volunteers Really Make a Difference?* The 12th Annual Conference of the Michigan Clean Water Corps. Tustin, MI. (Invited keynote)
24. **Stepenuck, K.** and R. Tharp. October 2016. *Lake Champlain Sea Grant Outreach Programming and Green Infrastructure Collaborative*. Vermont Agency of Natural Resources Coffee Talk. Montpelier, VT. (Invited speakers)
25. **Stepenuck, K.** and T. Phillips. August 2016. *Exploring the Worlds of Citizen Science and Volunteer Monitoring*. National Water Quality Monitoring Council Webinar. (Invited presenter)
26. **Stepenuck, K.** June 2016. *Understanding Outcomes for Natural Resource Policy and Management in U.S. Citizen Observatories*. Citizens Observatories for Water Management. Venice, Italy. (Invited plenary speaker)
27. **Stepenuck, K.** June 2016. *Outcomes of Volunteer Monitoring Programs on Natural Resources Policy and Management*. Vermont Lakes Seminar. Castleton, VT. (Invited keynote)
28. **Stepenuck, K.** May 2016. *Is the Whole Greater than the Sum of its Parts? Assessing Costs and Benefits of a Volunteer Monitoring Program*. 10<sup>th</sup> National Monitoring Conference. Tampa, FL.
29. **Stepenuck, K.** March 2016. *Does Volunteer Monitoring Really Make a Difference?* Wisconsin Lakes Convention. Stevens Point, WI. (Invited keynote)
30. **Stepenuck, K.** September 2015. *Leveling the Playing Field: The Role of Citizen-generated Water Level Data in Natural Resources Management Decision-making*. Open Science and Innovation: Of the People, For the People, By the People. White House Citizen Science Forum. Washington DC. (Invited speaker)
31. **Stepenuck, K.** September 2015. *The Key Role of States in Citizen Science*. National Advisory Council for Environmental Policy and Technology. EPA Headquarters, Washington DC. (Invited speaker)
32. **Stepenuck, K.** May 2015. *Understanding Impacts of Volunteer Water Monitoring Programs on Natural Resource Policy and Management*. Society for Freshwater Science. Milwaukee, WI.
33. **Stepenuck, K.** December 2014. *Costs, Benefits and Coordination: The Wisconsin Experience*. Chesapeake Bay Innovative Water Quality Monitoring Workshop. Annapolis, MD (via webinar). (Invited speaker)
34. Glynn, P. and **K. Stepenuck**. September 2014. *Citizen Science: Empower the Public*. American Water Resources Association Webinar Series. (Invited speaker)
35. **Stepenuck, K.** May 2014. *Improving Understanding of Impacts of Volunteer Water Monitoring Programs on Natural Resource Policy and Management*. 9th National Monitoring Conference. Cincinnati, OH.

36. Corsi, S. and **K. Stepenuck**. September 2013. *Winter Road Management: Go Easy on the Salt*. Wisconsin Water Star 2013 Municipal Water Resource Management Webinar Series. (Invited speaker)
37. **Stepenuck, K.** July 2013. *Outcomes of Water Action Volunteers Stream Monitoring Program*. Connecting social and ecological systems through public participation in scientific research (PPSR): Understand conservation and community outcomes Focus Group at the 26<sup>th</sup> International Congress for Conservation Biology. Baltimore, MD. (Invited speaker)
38. **Stepenuck, K.** August 2012. *Understanding the Connection between Participant Motivations and Program Outcomes for Most Effective Program Design*. Public Participation in Scientific Research Community Forum. Portland, OR. (Invited speaker)
39. **Stepenuck, K.**, C. Anderson, S. Corsi, and E. Grazia. May 2012. *Volunteer Road Salt Monitoring: Assessing Impacts of Winter Safety Measures on Stream Quality in Wisconsin*. 8th National Monitoring Conference. Portland, OR.
40. **Stepenuck, K.**, B. Deutsch, S. Ruiz-Cordova, T. Muenz, A. Hughes, S. Patrick, and E. Conway. September 2011. *How to Be Outstanding in the Stream: Exploring Methods and Approaches for Volunteer Stream Monitoring*. Southern Regional Water Conference. Athens, GA.
41. Green, L., E. Herron, K. Stepenuck, F. Finley, and A. Sigler. February 2010. *Community-based Water Monitoring Programs: Things to Consider before Getting Your Feet Wet*. 2010 Land and Sea Grant National Water Conference. Hilton Head, SC. (Workshop)
42. **Stepenuck, K.**, L. Green, E. Herron, F. Finley, K. Genskow, and A. Gold. October 2009. *Supporting Volunteer Water Quality Monitoring Nationwide*. North American Lake Management Society. Hartford, CT.
43. **Stepenuck, K.**, J. Iles, and L. Wolfson. May 2009. *Citizens Monitoring Bacteria Workshop*. Ohio Watershed Academy. Delaware, OH.
44. Herron, E., **K. Stepenuck**, K. Genskow, and F. Finley. February 2009. *Making the Most of Your Monitoring Data: Strategies for Effective Outreach in Your Local Community*. (Workshop) Cooperative State Research Education and Extension Service National Water Conference. St. Louis, MO.
45. **Stepenuck, K.** February 2009. *Monitoring Lakes, Streams and Ponds*. Southeast Wisconsin Woodland Owners Conference. Waukesha, WI.
46. **Stepenuck, K.**, L. Green, and E. Herron. September 2008. *Utilizing Online Databases to Share And Understand Volunteer Water Monitoring Data*. Alliance of Natural Resource Outreach and Service Programs. New Braunfels, TX.
47. **Stepenuck, K.**, L. Green, and E. Herron. May 2008. *Becoming Outstanding in the Field: Resources to Help Volunteer Monitoring Programs Get Up and Running*. Association of Natural Resources Extension Professionals Conference. Madison, WI.
48. **Stepenuck, K.** April 2008. *Data to Effect Change: Volunteer Monitoring Makes a Difference*. Clean Rivers, Clean Lakes V. Milwaukee, WI.
49. **Stepenuck, K.**, E. O'Brien, L. Crighton, J. Iles, B. Liukkonen, and L. Wolfson. January 2007. *Volunteer Monitoring of E. coli in Upper Midwest Streams: A Comparison of Methods and Preferences*. Cooperative State Research Education and Extension Service National Water Conference. Savannah, GA.
50. **Stepenuck, K.** and D. Ledin. November 2006. *Water for Everyone*. Wisconsin Association of Environmental Educators Conference. Manitowoc, WI.
51. **Stepenuck, K.**, E. O'Brien, L. Crighton, J. Iles, B. Liukkonen, and L. Wolfson. May 2006. *Volunteer Monitoring of E. coli in Upper Midwest Streams: A Comparison of Methods and Preferences*. National Water Quality Monitoring Conference. San Diego, CA.
52. **Stepenuck, K.** and J. Williamson. April 2006. *Aquatic Insects: They Come from Beneath*. Wisconsin Lakes Convention. Green Bay, WI.
53. **Stepenuck, K.**, L. Green, and E. Herron. February 2005. *Obtaining Quality Data*. Cooperative State Research Education and Extension Service National Water Conference. LaJolla, CA.
54. **Stepenuck, K.** January 2005. *Volunteer Monitoring: A National Perspective*. (Invited presenter) 5<sup>th</sup> Annual Iowa Water Monitoring Conference. Ames, IA.
55. **Stepenuck, K.**, L. Green, E. Herron, A. Gold, K. Addy, and R. Shepard. November 2004. *Partnering with Extension for Volunteer Water Quality Monitoring*. Citizen Environmental Monitoring in Appalachia. Bristol, VA. (Invited speaker)

56. **Stepenuck, K.**, C. Overdeest, and C. Huyck-Orr. May 2004. *Volunteer Stream Monitoring and Local Participation in Natural Resource Issues*. National Water Quality Monitoring Conference. Chattanooga, TN.
57. **Stepenuck, K.** April 2004. *Water Action Volunteers' Citizen Stream Monitoring Program*. Wisconsin Lakes Convention. Green Bay, WI.
58. **Stepenuck, K.** February 2004. *Volunteer Stream Monitoring: Benefits and How You Can Participate*. Wisconsin Association of Land Conservation Employees. Milwaukee, WI.
59. **Stepenuck, K.**, E. Herron, L. Green, and K. Addy. July 2003. *Obtaining and Using Volunteer-Collected Information*. Pacific Northwest Voluntary Water Quality Monitoring Workshop. Ketchum, ID.
60. **Stepenuck, K.** March 2002. *Volunteer Stream Monitoring in Wisconsin*. Northern Landscapes: Connecting People with Nature. Cable, WI.
61. **Stepenuck, K.** March 2001. *Friends of the Branch River Volunteer Stream Monitoring Data Summary*. Friends of the Branch River Annual Meeting. Whitelaw, WI.

### **Recent Training, Workshop, and Conference Planning/Coordination/Facilitation/Instruction:**

1. Planning team member for *Adirondack Champlain Regional Salt Summit*. October 3, 2019. Lake Placid, NY.
2. Local host and coordinator for *Sea Grant Academy Week #2*. September 23-27, 2019. Burlington, VT.
3. Planning team member for the *Great Lakes Networking Meeting*. September 17-19, 2019. Sault Ste. Marie, MI.
4. Planning team member for *Septic Workshops for Homeowners, Real Estate Professionals and Designers*. May 9, 2019. Burlington, VT.
5. Planning team member for the *Leahy Summit for Lake Champlain*. April 5, 2019.
6. Co-coordinating the *Annual Meeting of Marina Owners and Operators*. March 29, 2019. Burlington, VT.
7. Coordinator and local co-host for NOAA Office for Coastal Management's *Planning and Facilitating Collaborative Meetings*. December 4 and 5, 2018. Essex Junction, VT.
8. Planning team member for *Watersheds United Vermont and Lake Champlain Basin Program Fall Meeting*. November 13, 2018. Burlington, VT.
9. Planning team member and co-host for *International Joint Commission Lake Champlain-Richelieu River Flood Study public meeting*. November 9, 2018. Burlington, VT.
10. Planning team member and co-host for *International Joint Commission Lake Champlain-Richelieu River Flood Study public meeting*. November 8, 2018. Whallonsburg, NY.
11. Planning team member for *International Joint Commission Lake Champlain-Richelieu River Flood Study public meeting*. November 7, 2018. St. Jean sur Richelieu, Quebec.
12. Coordinator of *Lake Champlain Basin Deicing Conference*. October 10, 2018. Burlington, VT.
13. Co-coordinator of the 5 Gyres' *Institute Plastic Beach Protocol* held in conjunction with the International Coastal Clean-up, coordinated by the Rozalia Project. September 15, 2018. North Beach, Burlington, VT.
14. Co-coordinator and instructor of *Lake Champlain Live* trip for Lewis Creek Association and local decision makers aboard the R/V *Melosira*. September 12, 2018. Burlington, VT.
15. Table educator for *Raise the Blade and Rain Chains to Reduce Stormwater Runoff* at Art Hop. September 7 and 8, 2018. Burlington, VT.
16. Co-coordinator of *Lake Champlain Live* public trip aboard the R/V *Melosira*. August 22, 2018. Burlington, VT.
17. Co-coordinator of *Lake Champlain Live* public trip aboard the R/V *Melosira*. August 17, 2018. Burlington, VT.
18. Co-coordinator and instructor of *Lake Champlain Live* and *Stories of the Lake* trip with Wake Robin residents aboard the R/V *Melosira*. August 7, 2018. Burlington, VT.
19. Co-coordinator and instructor of *Lake Champlain Live* trip with Vermont Migrant Education Program aboard the R/V *Melosira*. August 6, 2018. Burlington, VT.
20. Co-coordinator of *Lake Champlain Live* public trip aboard the R/V *Melosira*. August 6, 2018. Burlington, VT.
21. Co-coordinator and instructor of *Stories of Lake Champlain* public trip aboard the R/V *Melosira*. August 6, 2018. Burlington, VT.
22. Co-coordinator and instructor of *Lake Champlain Live* Abenaki Summer Happenings group trip aboard the R/V *Melosira*. August 1, 2018. Burlington, VT.
23. Co-coordinator of *Lake Champlain Live* public trip aboard the R/V *Melosira*. August 1, 2018. Burlington, VT.
24. Co-coordinator and instructor of *Lake Champlain Live* Kamehameha Schools (Hawaii) Sustainability course participants aboard the R/V *Melosira*. July 31, 2018. Burlington, VT.

25. Co-coordinator of *Stories of Lake Champlain* public trip aboard the R/V *Melosira*. July 31, 2018. Burlington, VT.
26. Co-coordinator of *Lake Champlain Live* public trip aboard the R/V *Melosira*. July 24, 2018. Burlington, VT.
27. Co-coordinator of *Stories of Lake Champlain* public trip aboard the R/V *Melosira*. July 24, 2018. Burlington, VT.
28. Co-coordinator and instructor of *Lake Champlain Live* public trip aboard the R/V *Melosira*. July 18, 2018. Burlington, VT.
29. Co-coordinator and instructor of *Stories of Lake Champlain* public trip aboard the R/V *Melosira*. July 12, 2018. Burlington, VT.
30. Planning team member for *Restore the Bay: Take a Stake in Our Lake*. June 7, 2018. St. Albans, VT.
31. Coordinator and local host for NOAA Office for Coastal Management's *Introduction to Planning and Facilitating Effective Meetings*. April 12, 2018. South Burlington, VT.
32. Co-coordinator of *Annual Lake Champlain Marina Owner and Operators Workshop*. March 30, 2018. Burlington, VT.
33. Planning team member for *Sea Grant Network Citizen Science Visioning Workshop*. March 20 and 21, 2018. Santa Barbara, CA.
34. Planning team member for *Sea Grant Network Community Response to Flooding Visioning Workshop*. February 28 – March 1, 2018. Miami, FL.
35. Planning team member for *Lake Champlain Research Conference*. January 9, 2018. Burlington, VT.
36. Co-coordinator and educator for *Stream Table Demonstration*. November 27, 2017. Mosaic Center. University of Vermont, Burlington, VT.
37. Coordinator of *Volunteer Recruitment and Retention*, the inaugural webinar of the Citizen Science Association. November 14, 2017.
38. Co-coordinator and instructor for *River Corridors Workshop and Stream Table Demonstration* at Waterbury. October 30, 2017. Waterbury, VT.
39. Co-coordinator of *Lake Champlain Basin Deicing Conference*. September 29, 2017. Burlington, VT.
40. Table educator for *Raise the Blade Low Input Lawn Care Project*. Bikes and Bites. September 14, 2017. South Burlington, VT.
41. Co-coordinator and instructor of *Lake Champlain Live* trip for Green Mountain Water Environment Association aboard the R/V *Melosira*. September 7, 2017. Burlington, VT.
42. Co-coordinator and instructor of *Lake Champlain Live* public trip aboard the R/V *Melosira*. August 17, 2017. Burlington, VT.
43. Co-coordinator and presenter at *Native Plants to Protect Shorelines and Promote Pollinators* workshop. July 26, 2017. Lake Carmi, VT.
44. Co-coordinator and presenter at *Native Plants to Protect Shorelines and Promote Pollinators* workshop. July 18, 2017. Castleton, VT.
45. Co-coordinator of the *Lake Champlain Sea Grant Institutional Status Site Review*. July 11-12, 2017. Burlington, VT.
46. Instructor for *Stream Table Demonstration* at Bakersfield 4<sup>th</sup> of July Event. July 1, 2017. Bakersfield, VT.
47. Coordinator of *McNeil Power Plant* public tour as part of Get to Know Our Watershed Tour Series. August 22, 2017. Burlington, VT.
48. Coordinator of *Winooski Hydro Plant* public tour as part of Get to Know Our Watershed Tour Series. August 22, 2017. Burlington, VT.
49. Co-coordinator and instructor of *Stories of the Lake* public trip aboard the R/V *Melosira*. July 17, 2017. Burlington, VT.
50. Planning team member for *Take a Stake in Our Lake*. June 1, 2017. St. Albans, VT.
51. Co-coordinator of *Volunteer Water Monitoring National Network Meeting*. May 18, 2017. St. Paul, MN.
52. Co-coordinator of *Making River Corridors Work for You Workshop*. April 18, 2017. Enosburg Fall, VT.
53. Co-coordinator of *Annual Lake Champlain Marina Owner and Operators Workshop*. March 31, 2017. Burlington, VT.
54. Coordinator of *Making River Corridors Work for You Webinar*. March 29, 2017.
55. Co-coordinator of *Law and Policy for Ecological Restoration: The Example of Lake Champlain. A Conference for Visiting Chinese Judges and Scholars, and Vermont Law School Students*. March 3 and 4, 2017. Burlington, VT.
56. Co-coordinator of *Making River Corridors Work for You Workshop*. January 18, 2017. Morrisville, VT.
57. Co-coordinator and presenter of *Sea Grant Fellowships Session*. December 14, 2016.

58. Co-coordinator and presenter of *Sea Grant Fellowships Webinar*. November 22, 2016.
59. Coordinator of *Community-based Social Marketing Workshop*. September 29 and 30, 2016. Burlington, VT.
60. Co-coordinator of *Fisheries Leadership Institute*. August 29 and 30, 2016. Crown Point, NY.
61. Coordinator of *Aiken Center Green Roof* public tour as part of Get to Know Our Watershed Tour Series. August 2016. Burlington, VT.
62. Coordinator of *Winooski Hydro Plant* public tour as part of Get to Know Our Watershed Tour Series. August 25, 2016. Burlington, VT.
63. Coordinator of *McNeil Power Plant* public tour as part of Get to Know Our Watershed Tour Series. August 18, 2016. Burlington, VT.
64. Coordinator of *Green Stormwater Infrastructure Bicycle Tour* public tour as part of Get to Know Our Watershed Tour Series. August 4, 2016. Burlington, VT.
65. Coordinator of *Burlington Drinking Water Plant* public tour as part of Get to Know Our Watershed Tour Series. July 28, 2016 Burlington, VT.
66. Instructor for *Lake Champlain Live* aboard the R/V *Melosira*. ECHO Summer Teacher Institute. July 26, 2016. Burlington, VT.
67. Coordinator of *Burlington Wastewater Treatment Plant* public tour as part of Get to Know Our Watershed Tour Series. July 14, 2016 Burlington, VT.
68. Coordinator of *Citizen Science and Volunteer Monitoring as a Tool for Addressing Community Resilience Workshop* at the National Association of Natural Resource Extension Professionals Conference. June 29, 2016. Burlington, VT.
69. Co-coordinator of *Making River Corridors Work for You Workshop*. June 14, 2016. Rutland, VT.

#### **Media Appearances:**

1. MyNBC5, May 2, 2018, Lake Champlain Sea Grant Institutional Status
2. Vermont Digger, May 2, 2018, Lake Champlain Sea Grant Institutional Status

#### **University Service:**

- Lake Champlain Sea Grant and UVM Extension, Watershed Forest Partnership Coordinator search committee lead. present
- Lake Champlain Sea Grant and UVM Extension, Watershed and Lake Education Program Assistant search committee member. 2019
- Lake Champlain Sea Grant and State University of New York – Plattsburgh, Watershed Education Assistant search committee member. 2018-9
- University of Vermont Sustainability Curriculum Review Committee. Fall 2016 – Spring 2019
- University of Vermont Faculty Senate, substitute Extension faculty representative. 2018 - present
- Lake Champlain Sea Grant, and Vermont Department of Environmental Conservation, Green Infrastructure Collaborative Outreach Professional search committee lead. 2017 – 2018
- Rubenstein Ecosystems Science Laboratory strategic planning committee. 2017
- Lake Champlain Sea Grant and UVM Extension, Watershed and Lake Education Coordinator search committee lead. 2017
- Watershed Alliance strategic planning committee. 2017
- Lake Champlain Sea Grant and UVM Extension, Program Assistant search committee lead. 2016
- Lake Champlain Sea Grant and UVM Extension, Program Assistant search committee co-lead. 2015
- University of Wisconsin System Women & Science Advisory Board. 2003 – 2008

#### **Professional Service:**

- *Citizen Science, Theory and Practice* journal, handling editor for water-focused papers. 2018 – present
- North American Lake Management Society, Symposium Local Planning Committee. 2018 – present
- ADK Action, Road Salt Working Group member. 2017 – present

- Lake Champlain Basin Program, Education and Outreach Committee member. 2016 – present
- Citizen Science Association, strategic planning committee member. 2018
- Citizen Science Association, conference abstract reviewer. 2016 and 2018
- New England Sea Grant Network, Awards Committee Chair. 2017 – 2018
- Citizen Science Association, Board of Directors Secretary 2014–16; Vice Chair 2016–17; Chair 2017– 2018
- Watersheds United Vermont, Board of Directors. 2016 – present
- Great Lakes Sea Grant Network Extension Leaders, Chair. 2015 – 2017
- National Water Quality Monitoring Council, Communications and Outreach Team member. 2015 – 2017
- National Water Quality Monitoring Council, Volunteer Monitoring Working Group (formerly *Volunteer Monitor* Editorial Board). 2011 – present
- Wisconsin's Citizen-based Monitoring Advisory Council. 2004 – 2015

### Reviewing Activity:

#### Journals:

BioScience; Biological Conservation; Citizen Science: Theory and Practice; Journal of Science Communication; Environmental Monitoring and Assessment; Ecology and Society; Freshwater Science; Journal of the American Water Resources Association; Environmental Management; Human Dimensions of Wildlife; PeerJ

Book: *The Light in the Lake*, to be published by Little, Brown Books for Young Readers (2018)

#### Book chapter:

*Citizen Engagement in Local Environmental Issues: Intersecting Modes of Communication*, in *Citizen Engagement and Public Participation in the Era of New Media*, IGI Global (2016)

#### Grant reviews:

National Science Foundation (2018); Lake Champlain Basin Program (2016 – 2019); Illinois/Indiana Sea Grant (2018); Wisconsin Sea Grant (2017); Guam Sea Grant (2017); University of Vermont Water Center (2017); Iowa Water Center (2016)

#### Grant advisor:

*SciStarter 2.0: A Dashboard to Drive Research, Participation, and Community-building in Citizen Science*. National Science Foundation. Advancing Informal STEM Learning Grant. (2015 – 2017)

*Learning to See, Seeing to Learn: A Sociotechnical System Supporting Taxonomic Identification Activities in Volunteer-Based Water Quality Biomonitoring*. National Science Foundation. Advancing Informal STEM Learning Grant. (2016 – 2018)

#### Guidance documents:

*Essential Study Design*, National Volunteer Monitoring and Citizen Science Training Support Hub Water Data Collaborative (2019); *Plastic Beach Protocol*, 5 Gyres Institute (2018); *Handbook for Citizen Science Quality Assurance and Documentation*, US Environmental Protection Agency (2018); *Winooski Basin Tactical Basin Plan*, Vermont Department of Environmental Services (2018)

#### External promotion reviews:

Michigan State University (2018); University of Hawaii (2018)

#### Programmatic review:

ALLARM, Dickinson College (2019)

**Graduate Student Advisor:**

M.S. Rachel Pierson, Advisor (Fall 2018 – present)

M.S. Jason Scott, Advisor (Fall 2018 – present)

PhD. Kristin Raub, co-Advisor (Fall 2018 – present)

M.S. Holden Sparacino, Advisor (Spring 2017 – Fall 2018); degree granted Fall 2018

**Graduate Student Committee Member:**

M.S. Carolyn Loeb (Spring 2018 – Spring 2019); degree completed Spring 2019

M.P.S. Sustainable Leadership Program (2017 – present)

M.S. Chelsea Clarke (Spring 2017 – Spring 2018); degree completed Spring 2018

M.S. Anya Tyson (Spring 2016 – Spring 2017); degree completed Spring 2017

M.S. Gabriel Andrews (Spring 2016 – Spring 2017); degree completed Spring 2017

**Independent Study Advisor:**

B.S. Victoria Nash, UVM (Spring 2019)

B.S. Kathleen Lewis, UVM (Spring 2019)

B.S. Ben Galligan, UVM (Fall 2018)

B.S. Preston Richardson, UVM (Fall 2018)

M.S. Elizabeth Lee, SUNY-Plattsburgh (Fall 2017)

**Fellowship Advisor:**

B.S. Maya Dizack, UVM (Summer 2019 – grant awarded spring 2018)

B.S. Lily Myers, UVM (Summer 2017)

**Staff Supervisor:**

Full-time Employees:

Marc Companion, Green Infrastructure Collaborative Outreach Professional (2018 – present)

Ashley Eaton, Watershed and Lake Education Coordinator (2017 – present), interim Watershed Alliance Coordinator (2016 – 2017), Program Assistant (2015 – 2016)

Mark Malchoff, Aquatic Resources Specialist, SUNY-Plattsburgh (2015 – present)

Amelia Tarren, Program Assistant (2016 – 2019)

Rebecca Tharp, Green Infrastructure Collaborative Manager (2015 – 2017)

Erin DeVries, Watershed Alliance Coordinator (2015 – 2016)

Temporary Project Employees:

Linda Patterson, Land and Water Quality Education Specialist (2015 – present)

Sarah Coleman (2018)

Lina Longtoe Schulmeisters (2018)

Kerry Crowningshield (2016 – 2017)

David Nolan (2016 – 2017)

**ECO AmeriCorps Member:**

Hannah Yates (2017 – 2018)

**Undergraduate Research Assistants:**

Julia Szymanski, Raise the Blade (Summer 2019 – present)

James Sleight, Lake Champlain Recreational Boater Survey (Summer 2019)

Katherine Helmer, Lake Champlain Recreational Boater Survey (Summer 2018 – Fall 2018)

Rory Malone, Raise the Blade (Fall 2017 – Fall 2018)

Ian Walls, Raise the Blade (Summer 2018)

**Student Employees:**

Christian Boisvert (Fall 2019 – present)

Kristen Livingstone (Fall 2017 – present)

Gabriel Frigone (Summer 2019)

Miles McCallum (Summer 2019)

Margaret Polifrone (Summer 2019)

Caitlyn Bain (Fall 2017 – Spring 2019)

Brian Flynn (Fall 2017 – Spring 2018)

Quinn Ledak (Fall 2016 – Fall 2018)

Chaz Rorick (Fall 2017 – Fall 2018)

**Recent Professional Development Trainings:**

1. Relationship-Building and Influence: Tips for Getting Sponsors to Support Your Science. March 2019. Alda-Kavli Learning Center. Online.
2. Best Practices in Science Communication. March 2019. Citizen Science Association Conference. Raleigh, NC.
3. Laboratory Safety Training Refresher. January 2019. University of Vermont. Online
4. Human Subjects Refresher Training. July 2018. CITI. Online
5. Cheating and Plagiarism in Higher Education: Practical Guidance for How to Respond Lawfully Webinar. May 2018.
6. Conflict Resolution, Part 2: Practice Makes Perfect. April 2018. University of Vermont. Burlington, VT
7. Leadership Training for Managers. March 12 to 14, 2018. Dale Carnegie Institute. San Francisco, CA
8. Small Changes, Big Impact: Small Teaching Changes that Build Analysis and Reflection. February 2018. University of Vermont. Burlington, VT
9. Implicit Bias Webinar. National Sea Grant Diversity, Equity and Inclusion Community of Practice. December 2017. Online
10. Building Conflict Resolution Skills. December 2017. University of Vermont. Burlington, VT
11. Faculty to Faculty Teaching Consultation. December 2017. University of Vermont. Burlington, VT
12. Ice Safety Training. December 2017. CVU High School. Hinesburg, VT
13. Emergency Response for Laboratory Workers. December 2017. Online.
14. UVM Communicates, Alan Alda Science Communications Workshop. October 2017. University of Vermont. Burlington, VT
15. Sea Grant Academy Week 2. October 2017. Astoria, OR.
16. Best Hiring Practices and Affirmative Action. July 2017. University of Vermont. Burlington, VT
17. Sea Grant Academy Week 1. March 2017. Baltimore, MD
18. Generational Differences. November 2017. ECO AmeriCorps Professional Development Training. Montpelier, VT.
19. Blackboard Assessment Tools. January 2017. University of Vermont. Burlington, VT



20. Blackboard: Communication Tools. January 2017. University of Vermont. Burlington, VT
21. Blackboard: Understanding and Building Your Course. January 2017. University of Vermont. Burlington, VT
22. Rubenstein School's Student-led Diversity Teach. November 2016.
23. Overall Best Practices for Writing Your Proposal. Grant Writing Brown Bag Discussion. February 2016. University of Vermont. Burlington, VT
24. ABCs of Bb: A Hands-on Blackboard Workshop. August 2016. University of Vermont. Burlington, VT
25. Work Study Supervisor Responsibilities. August 2016. University of Vermont. Burlington, VT
26. Vermont Boating Safety Course: BoatUS Foundation. July 2016. Apple Island Marina, South Hero, VT
27. Effective Performance Reviews. March 2016. University of Vermont. Burlington, VT
28. NR 207, Power, Privilege and the Environment. Fall 2015. University of Vermont. Burlington, VT