## **Andrew S. Mehring**

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# Education

2005-2012	Ph.D. Ecology	University of Georgia, Athens, GA
2000-2003	M.S. Biology/Ecology	Shippensburg University, Shippensburg, PA
1994-1998	B.S. Biology / Environmental Science	Millersville University, Millersville, PA

## Professional appointments

2020-present	Assistant Professor, Department of Biology, University of Louisville
2018-2021	Marie Curie Fellow, Doñana Biological Station, Spanish National Research Council (CSIC)
2018	Project Scientist, Scripps Institution of Oceanography, UCSD (supervisor: Lisa Levin)
2013-2017	Postdoctoral Scholar, Scripps Institution of Oceanography, UCSD (supervisor: Lisa Levin)

### **Publications**

## In Review

- Earl, N.O., J.J.M. de Klein, A.S. Mehring. (202x) Black and white fire ash alter greenhouse gas emissions and temporarily reverse carbon source-sink status in aquatic mesocosms. In review in *Environmental Science and Technology*.
- Robbins, C.J., W.J. Matthaeus, R.A. Eckert, E. Bastias, A.K. Dodd, J. Jabiol, A.S. Mehring, D.W.P. Manning, A. Pastor. (202x) Revisiting k: Time-varying stream litter breakdown rates. In review in *Limnology and Oceanography Letters*.

#### 2024

- Fausey, K., M.A. Rippy, G. Pierce, D. Feldman, B. Winfrey, A.S. Mehring, L.A. Levin, P.A. Holden, P.A. Bowler, R. Ambrose. (2024) Ecosystem service values support conservation and sustainable land development: Perspectives from four University of California campuses. *Ecological Engineering* 208: 107379.
- Naslund, L.C., A.S. Mehring, A.D. Rosemond, S.J. Wenger. (2024) Toward more accurate estimates of greenhouse gas emissions from small reservoirs. *Limnology and Oceanography* 69(6): 1350-1364.
- Kurylo, J.S., J. Le, A.S. Mehring, R.F. Ambrose. (2024) Management dampens seasonal variability in soil microclimates and alters its chemical and physical properties in a semi-arid region. *Journal of Urban Ecology* 10(1): juae001.

#### 2023

- Robbins, C.J., D.W.P. Manning, H.M. Halvorson, B.C. Norman, R.A. Eckert, A. Pastor, A.K. Dodd, J. Jabiol, E. Bastias, A. Gossiaux, A.S. Mehring. (2023) Nutrient and stoichiometry dynamics of decomposing litter in stream ecosystems: A global synthesis. *Ecology* 104(7): e4060.
- Robbins, C.J., B.C. Norman, H.M. Halvorson, D.W.P. Manning, E. Bastias, C. Biasi, A.K. Dodd, R.A. Eckert, A. Gossiaux, J. Jabiol, A.S. Mehring, A. Pastor. (2023) Nutrient and stoichiometric time series measurements of decomposing coarse detritus in freshwaters. *Ecology* 104(8): e4114.
- Feraud, M., S.P. Ahern, E.A. Parker, S. Avasarala, M.B. Rugh, W. Hung, D. Li, L.C. Van De Werfhorst, T. Kefela, A. Hemati, A.S. Mehring, Y. Cao, J.A. Jay, H. Liu, S.B. Grant, P.A. Holden. (2023) Stormwater biofilter response to high nitrogen loading under transient flow conditions: ammonium and nitrate fates, and N<sub>2</sub>O emissions. *Water Research* 230: 119501

#### 2022

Rippy, M.A., G. Pierce, D. Feldman, B.K. Winfrey, A.S. Mehring, P.A. Holden, R.F. Ambrose & L.A. Levin. (2022) Perceived services and disservices of natural treatment systems for urban stormwater: insight from the next generation of designers. *People and Nature* 4: 481-504.

### 2021

- Mehring, A.S., R.M. Martin, C.S. Delavaux, E.B. James, J.J. Quispe, & D. Yaffar. (2021) Leaf-cutting ant (*Atta cephalotes*) nests may be hotspots of methane and carbon dioxide emissions in tropical forests. *Pedobiologia* 87-88: 150754.
- Herzog, T.L., A.S. Mehring, B.E. Hatt, R.F. Ambrose, L.A. Levin & B.K. Winfrey. (2021) Pruning stormwater biofilter vegetation influences water quality improvement differently in *Carex appressa* and *Ficinia nodosa*. *Urban Forestry & Urban Greening* 59: 127004.
- Pierce, G., K.S. Gmoser-Daskalakis, K. Jessup, S.B. Grant, A.S. Mehring, B.K.Winfrey, M.A. Rippy, D. Feldman, P. Holden, R.F. Ambrose, & L.A. Levin. (2021) University stormwater management within urban environmental regulatory regimes: Barriers to progressivity or opportunities to innovate? *Environmental Management* 67:12-25.

## 2019

Ge, B., A.S. Mehring & L.A. Levin. (2019) Urbanization alters belowground invertebrate community structure in semi-arid regions: a comparison of lawns, biofilters and coastal sage scrub. *Landscape and Urban Planning* 192: 103664

### 2018

Huang, X., M.A. Rippy, A.S. Mehring, B.K. Winfrey, S.C. Jiang, and S.B. Grant. (2018) Shifts in dissolved organic matter and microbial community composition are associated with enhanced removal of fecal pollutants in urban stormwater wetlands. *Water Research* 137:310-323

## 2017

- Welti, N., M. Striebel, A.J. Ulseth, W.F. Cross, S. DeVilbiss, P.M. Glibert, L. Guo, A.G. Hirst, J. Hood, J.S. Kominoski, K.L. MacNeill, A.S. Mehring, J.R. Welter, H. Hillebrand (2017) Bridging food webs, ecosystem metabolism, and biogeochemistry using ecological stoichiometry theory. Frontiers in Microbiology 8, DOI: 10.3389/fmicb.2017.01298
- Mehring A.S., P.L.M. Cook, V. Evrard, S.B. Grant & L.A. Levin (2017) Pollution-tolerant invertebrates enhance greenhouse gas flux in urban wetlands. *Ecological Applications* 27:1852-1861.
- Parker, E., Rippy, M.A., A.S. Mehring, B. Winfrey, R.F. Ambrose, L.A. Levin, and S.B. Grant (2017) The predictive power of clean bed filtration theory for fecal indicator bacteria removal in stormwater biofilters. *Environmental Science & Technology* 51:5703-5712.

## 2016

Mehring A.S., B.E. Hatt, D. Kraikittikun\*, B.D. Orelo, M.A. Rippy, S.B. Grant, J.P. Gonzalez, S.C. Jiang, R.F. Ambrose, & L.A. Levin (**2016**) Soil invertebrates in Australian rain gardens and their potential roles in storage and processing of nitrogen. *Ecological Engineering* 97: 138–143.

## 2015

- Askarizadeh, A., M.A. Rippy, T.D. Fletcher, D. Feldman, J. Peng, P. Bowler, A.S. Mehring, B.K. Winfrey, J.A. Vrugt, A. AghaKouchak, S.C. Jiang, B.F. Sanders, L.A. Levin, S. Taylor and S.B. Grant (2015) From rain tanks to catchments: use of low impact development to address hydrologic symptoms of the urban stream syndrome. *Environmental Science & Technology* 49: 11264–11280.
- Mehring, A.S. and L.A. Levin (**2015**) Potential roles of soil fauna in improving the efficiency of rain gardens used as natural stormwater treatment systems. *Journal of Applied Ecology* 52: 1445–1454.
- Tant, C.J., A.D. Rosemond, A.S. Mehring, K.A. Kuehn and J.M. Davis (**2015**) The role of aquatic fungi in transformations of organic matter mediated by nutrients. *Freshwater Biology* 60: 1354–1363.
- Mehring, A.S., K.A. Kuehn, A. Thompson, C.M. Pringle, A.D. Rosemond, M.R. First, and R.R. Lowrance and G. Vellidis (**2015**) Leaf litter nutrient uptake in an intermittent blackwater river: Influence of tree species and associated biotic and abiotic drivers. *Functional Ecology* 29(6): 849–860.
- Levin, L.A. and A.S. Mehring (**2015**) Optimization of bioretention systems through application of ecological theory. *WIREs Water* 2: 259-270.

## 2014

Mehring, A.S., K.A. Kuehn, C.M. Pringle, C.J. Tant, R.R. Lowrance and G. Vellidis (**2014**) Contribution of surface leaf-litter breakdown and forest composition to benthic oxygen demand and ecosystem respiration in a South Georgia blackwater river. *Freshwater Science* 33(2): 377-389.

#### 2013

- Mehring, A.S., R.R. Lowrance, A.M. Helton, C.M. Pringle, D.D. Bosch and G. Vellidis (**2013**) Inter-annual drought length governs dissolved organic carbon dynamics in blackwater rivers. *Journal of Geophysical Research: Biogeosciences* 118(4): 1636-1645.
- Hopkinson, C.S., A. Covich, C.B. Craft, T.W. Doyle, N. Flanagan, M. Freeman, E. R. Herbert, A. Mehring, J. Mohan, C. Pringle. C. J. Richardson (2013) The effects of climate change on natural ecosystems of the Southeast. Pp. 237-270 In K.T. Ingram, K. Dow, L. Carter, and J. Anderson [eds.], Climate of the Southeast United States: Variability, Change, Impacts, and Vulnerability. Island Press, Washington, D.C. ISBN 978-1-61091-509-0.

#### 2011

- Mehring, A.S. and T.J. Maret (**2011**) Red maple dominance enhances fungal and shredder growth and litter processing in temporary ponds. *Limnology and Oceanography* 56(3): 1106-1114.
- Mehring, A.S. (2011) Experimental Design and Statistical Analysis, Pp. 7-35. In G.W. Barrett, T.L. Barrett, S.J. Connelly, A.S. Mehring and J.O. Moree [eds.], Ecology Exercise Book: An Ecosystem Approach. Kendall Hunt Publishing Company, Dubuque, IA. ISBN: 978-0-7575-8718-4.

## 2010

Allgeier, J.E., A.D. Rosemond, A.S. Mehring and C.A. Layman (**2010**) Synergistic nutrient colimitation across a gradient of ecosystem fragmentation in subtropical mangrove-dominated wetlands. *Limnology and Oceanography* 55(6): 2660-2668.

Grants and Awards	
FY2023 USGS 104b Grant Program, award Number: 3200004323-24-059	\$37,500
- active 9/1/2023-8/31/2024 (co-PI with Dr. Andrea Gaughan)	
Wageningen Institute for Environ. & Climate Research (WIMEK) fellowship	€7,900
- Awarded March 15, 2023, project active June-August 2023	
FY2022 USGS 104b Grant Program, award Number: 3200004323-23-095	\$39,812
- active 9/1/2022-8/31/2023 (co-PI with Dr. Andrea Gaughan)	
FY2021 USGS 104b Grant Program, award Number: 3200004323-22-066	\$29,436
- active 9/1/2021-8/31/2022 (sole PI)	
Marie Sklodowska-Curie Actions Individual Fellowship 799434-FLAMMINGGOS	€158,121
- H2020-MSCA-IF-2017. Awarded April 18, 2018, project active 2018-2021	

## Courses taught

Biostatistics (BIOL 350)

Global Change Ecology (BIOL 440/644)

Ecosystem Ecology (BIOL 562/662)

Undergraduate Honors Seminar (BIOL 388)

Diversity of Life (BIOL242)

\*Tropical Field Ecology

\*Tropical Field Ecology (ECOL 3100)

\*Tropical Ecology Laboratory (ECOL 3510)

\*Undergraduate PIRE Program Down Under

\* = field course

- University of Louisville
- Organization for Tropical Studies, Jan. 2017
- University of Georgia, May-June 2013, 2017
- University of Georgia, May-June 2013, 2017
- UCSD, Australia, June-July 2013-2016

### Students mentored

*University of Louisville, Louisville, KY, USA – graduate students* 

Josh Snipes (MS, non-thesis)

Vincent Cafazo (MS, non-thesis)

Blake Hudson (MS, thesis)

Nathan Earl (PhD student)

Mark Tierney (PhD student)

Brennan Molique (MS, non-thesis)

— January 2023 – May 2024

— January 2023 – present

— August 2022 – present

— October 2020 – present

— August 2020 – Dec. 2022

*University of Louisville, Louisville, KY, USA – undergraduate students* 

McKenzie Goodwyn

- August 2023 – present
- August 2023 – December 2023

Jacob Webb

- January 2023 – May 2023

John Swartz

Danielle Roney

- June – August 2022

- January 2021 – May 2022

Doñana Biological Station, Seville, Spain (in collaboration with Third Sector International)

Seven Erasmus+ interns mentored for three months each (2018-2019) – Robert Andrew, Lucy Stockton, Noa Ratia, Katey Fisher, Matthew Holroyd, Amy Ferguson, Jaime Carvalho

Scripps Institution of Oceanography, UCSD

Spring 2016, undergraduate student: Jimmy Luong Fall 2015, undergraduate student: Barbara D. Orelo

Spring 2014, undergraduate student: Diana Kraikittikun

Monash University, Melbourne, Australia

Topic/final paper: "Influence of plant biomass harvest and soil fauna on stormwater biofilter performance", Fall 2015, undergraduate student: Daniel I. Guttman

## Conference presentations

#### 2024

- Mehring, A.S., M.C. Tierney, N.O. Earl, M. Goodwyn, J. Snipes and A.E. Gaughan. **2024.** The roles of aquatic plant communities in determining the carbon source-sink status of Kentucky wetlands and ponds. Kentucky Academy of Sciences, Frankfort, KY, USA, November 1-2, 2024.
- Snipes, J.A. and A.S. Mehring. **2024.** Impacts of duckweed (*Lemna* and *Wolffia* spp.) on carbon storage and decomposition in small ponds. KWRI Symposium. Lexington, KY, USA, September 27, 2024.
- Mehring, A.S., M.C. Tierney, N.O. Earl, M. Goodwyn and A.E. Gaughan. **2024.** Can urban and peri-urban constructed ponds serve as carbon sinks? KWRI Symposium. September 27, 2024.
- Gaughan, A.E., S. Hutchins, D. Brown, M.C. Tierney and A.S. Mehring. **2024.** A remote sensing application for characterizing small wetland ponds and their surrounding landscapes in Louisville, KY. KWRI Symposium, Lexington, KY, USA, September 27, 2024.
- Venkatasubramanian, K., A.E. Gaughan and A.S. Mehring. **2024.** Community perceptions on urban wetland health and use in Louisville, KY. KWRI Symposium. Lexington, KY, USA, September 27, 2024.
- Naslund, L.C., A.S. Mehring, A.D. Rosemond, S.K. McKay, E.S. Bernhardt and S.J. Wenger. **2024.** The gas they passed: Carbon costs of dam removal from large reservoirs. Annual Meeting of the Society for Freshwater Science. Philadelphia, PA, USA, June 2-6, 2024.
- Tierney, M.C., J.H. Loughrin, S.W. Antle, C. Jalink, J.J.M. de Klein and A.S. Mehring. **2024.** Duckweed enhances carbon emissions but slows the aerobic decomposition of organic matter in small ponds. Annual Meeting of the Society for Freshwater Science. Philadelphia, PA, USA, June 2-6, 2024.
- Earl, N.O., J.J.M. de Klein, A.S. Mehring. **2024.** Fire ash temporarily reverses the carbon source-sink status of wetland mesocosms. Annual Meeting of the Society for Freshwater Science. Philadelphia, PA, USA, June 2-6, 2024.

- Naslund, L.C., A.D. Rosemond, S.K. McKay, A.S. Mehring and S.J. Wenger. **2024**. Short burps, tall trees: trajectories of landscape carbon balance after dam removal. Network for Engineering with Nature (N-EWN) Partner Symposium, St. Augustine, FL, USA, May 22-24, 2024.
- Tierney, M.C., J.H. Loughrin, S.W. Antle, C. Jalink, J.J.M. de Klein and A.S. Mehring. **2024.** Duckweed cover enhances pond carbon emissions but may slow aerobic decomposition rates by inducing hypoxia. Salt River Watershed Watch Annual Conference, Louisville, KY, February 29, 2024.
- Haynes, K., A.E. Gaughan, A.S. Mehring, and M.C. Tierney. **2024.** It's Not Easy Being Green: Assessing the Health of Small Wetland Ponds. Salt River Watershed Watch Annual Conference, Louisville, KY, February 29, 2024.

#### 2023

- Tierney, M.C., C. Jalink, J.H. Loughrin, S.W. Antle, A.S. Mehring. **2023.** Floating vegetation as a driver of greenhouse gas emissions in small ponds. Kentucky Water Resources Annual Symposium. Lexington, KY, USA, September 15, 2023.
- Gaughan, A.E., A.S. Mehring, M. Tierney, M. Cicha, K. Haynes and D. Brown. **2023.** Characterizing Louisville wetlands from above and below to better predict wetland carbon sink-source status. Kentucky Water Resources Annual Symposium. Lexington, KY, USA, September 15, 2023.
- Mehring, A.S., and J.J.M. de Klein. **2023**. Synergistic enhancement of sediment methane flux *by Tubifex tubifex* (Annelida: Oligochaeta) and green algae (Chlorella sp.). 9th International Symposium on Non-CO<sub>2</sub> Greenhouse Gases (NCGG9). June 21-23, 2023, Amsterdam, The Netherlands.
- Tierney, M.C., J.A. Swartz, J.H. Loughrin, S.W. Antle and A.S. Mehring. **2023**. How does sediment organic matter content mediate the effects of chironomid larvae on benthic greenhouse gas fluxes? 9th International Symposium on Non-CO<sub>2</sub> Greenhouse Gases (NCGG9). June 21-23, 2023, Amsterdam, The Netherlands.
- Naslund, L.C., A.S. Mehring, A.D. Rosemond and S.J. Wenger. **2023.** Characterizing fine-scale spatial and temporal variability in greenhouse gas emissions from small reservoirs. Annual Meeting of the Society for Freshwater Science. Brisbane, Australia, June 3-7, 2023.

## 2022

- Tierney, M.C., J.A. Swartz, J.H. Loughrin, S.W. Antle and A.S. Mehring. **2022**. How does sediment organic matter content mediate the effects of chironomid larvae on benthic oxygen uptake and nitrous oxide flux? Ohio River Basin Consortium for Research and Education Virtual Symposium, October 6-7, 2022
- Tierney, M.C., J.A. Swartz, J.H. Loughrin, S.W. Antle and A.S. Mehring†. **2022**. Does sediment organic matter content mediate the effects of chironomid larvae on benthic nitrous oxide flux? Kentucky Water Resources Annual Symposium. Lexington, KY, USA, September 19, 2022. †=presenter
- Tierney, M.C., J.A. Swartz, J.H. Loughrin, S.W. Antle and A.S. Mehring†. **2022**. An assessment of three pathways of greenhouse gas flux in small Kentucky wetlands. Kentucky Water Resources Annual Symposium. Lexington, KY, USA, September 19, 2022.

#### 2021

Mehring, A.S., J.J.M. de Klein, E. Huertas, I. Reche, A.J. Green. **2021**. FLAMMINGGOS: The roles of waterbirds and invertebrates in modulating wetland greenhouse gas emissions. *ASLO 2021 Aquatic Sciences Virtual Meeting*. Palma de Mallorca, Spain, 22–27 June 2021 (virtually).

## 2010-2020

- Mehring, A.S., I. Reche, J.J.M. de Klein, N.A. Ratia, L.E. Stockton, A.J. Green. **2019**. The role of predation by waterbirds in moderating wetland greenhouse gas emissions. *Ecological Society of America 104<sup>th</sup> Annual Meeting*. Louisville, KY, U.S.A.
- Mehring, A.S., B.E. Hatt, M.J. Burns, J. Luong, L.A. Levin. **2017**. Factors influencing heavy metal accumulation in urban Australian biofilters. *4<sup>th</sup> Symposium on Urbanization and Stream Ecology*. Browns Summit, NC, U.S.A.

- Mehring, A.S., P.L.M. Cook, V. Evrard, S.B. Grant, L.A. Levin. **2016**. Enhancement of carbon dioxide, methane, and nitrous oxide flux by oligochaetes and chironomids in urban wetlands. *Association for the Sciences of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting*. Santa Fe, NM, U.S.A.
- Mehring, A.S., L.A. Levin, V. Evrard, S.B. Grant, P.L.M. Cook. **2015**. The contribution of aquatic invertebrates to benthic greenhouse gas flux in urban wetlands. *ASLO Aquatic Sciences Meeting*. Granada, Spain.
- Mehring, A.S., R.R. Lowrance, A.M. Helton, G. Vellidis, C.M. Pringle, A. Thompson and D.D. Bosch. **2012**. Effects of drought on dissolved organic carbon (DOC) cycling: Implications of climate change for coastal plain blackwater rivers, USA. *ASLO* Summer Meeting. Otsu, Japan.
- Mehring, A.S., D.W. Kemp, D.D. Bosch, R.R. Lowrance, G. Vellidis and C.M. Pringle. **2011**. Another function for cypress knees? Extension of oxic periods in blackwater swamps by bryophytes growing on bald cypress (*Taxodium distichum*). *96<sup>th</sup> Annual Meeting of the Ecological Society of America*, Austin, TX, U.S.A.
- Mehring, A.S., S.R. Davie, G. Vellidis, D.D. Bosch, C.M. Pringle and R.R. Lowrance. **2011**. Modeling dissolved oxygen dynamics in blackwater rivers: The importance of site-specific data and carbon flux parameter complexity. *59<sup>th</sup> Annual North American Benthological Society Meeting*, Providence, RI, U.S.A.
- Mehring, A.S., R.R. Lowrance, A.M. Helton, G. Vellidis, C.M. Pringle and D.D. Bosch. **2010**. Elevated dissolved organic carbon in sub-tropical blackwater rivers may be a result of anoxia rather than an explanation for it. *58<sup>th</sup> Annual North Benthological Society Meeting*, Santa Fe, NM, U.S.A.

# Invited presentations\*

- Mehring, A.S., A.E. Gaughan, M.C. Tierney, M. Cicha, K. Haynes, D. Brown. **2023.** The carbon balance of ponds and wetlands. Wageningen University and Research Centre AEW Seminar Series, July 6, 2023, Wageningen, Netherlands.
- Mehring, A., A. Gaughan, M. Tierney+, M. Cicha\*, K. Haynes\*, and D. Brown. **2023.** The carbon balance of ponds and wetlands. Presented at the Salt River Watershed Watch Conference, February 23, 2023, Louisville, KY.
- Mehring, A.S., **2023.** Zoogeochemistry and the effects of animals on wetland greenhouse gas emissions. Murray State University Department of Biological Sciences Seminar Series. Murray, Kentucky, USA, April 14<sup>th</sup>, 2023.
- Mehring, A.S., **2022**. Zoogeochemistry and the effects of animals on wetland greenhouse gas emissions. Eastern Kentucky University Department of Biological Sciences Seminar Series. Richmond, Kentucky, USA, March 25th, 2022.
- Mehring, A.S., J.J.M. de Klein, I. Reche, P. Hortas, E. Huertas, J.A. Carbonell, H.C. Liedtke, A.J. Green. **2021**. FLAMMINGGOS: The roles of waterbirds, invertebrates, and carbon and nutrient subsidies in modulating wetland greenhouse gas emissions. <a href="LIFE Wetlands4Climate Networking Event"><u>LIFE Wetlands4Climate Networking Event</u></a> (online hosted by Fundación Global Nature and Universitat de València, December 20, 2021).
- Mehring, A.S. **2021**. FLAMMINGGOS: The roles of waterbirds and invertebrates in modulating wetland greenhouse gas emissions. *Winthrop University Biology Departmental Seminar Series*, Rock Hill, SC, U.S.A. February 3, 2021.
- Mehring, A.S. **2020**. FLAMMINGGOS: The roles of waterbirds, invertebrates, plants, and microbes in modulating wetland greenhouse gas emissions. *Missouri Western State University Aquatic Ecology guest lecture*, St. Joseph, MO, U.S.A. September 23, 2020.

- Mehring, A.S., J.J.M. de Klein, I. Reche, N.A. Ratia, L.E. Stockton, A.J. Green. **2019**. FLAMMINGGOS: The roles of waterbirds and invertebrates in modulating wetland greenhouse gas emissions. *Wageningen University and Research Centre Seminar Series*, Wageningen, Netherlands. September 5, 2019.
- Mehring, A.S. **2017**. Sources and loads of heavy metals, nitrogen, and phosphorus in urban environments, and the optimization of biofilters to treat them. *Reaching for Resilience: Imagining Regional Stormwater Neutrality*. San Diego Coastkeeper, San Diego, CA, U.S.A. December 11, 2017.
- Mehring, A.S. **2016**. Greenhouse gas flux in constructed wetlands. *California Stormwater Quality Association (CASQA) 12<sup>th</sup> Annual Conference "Stormwater Evolution: Source to Resource"*. Panel member at the Stormwater Management Training Workshop entitled "Stormwater Management Through Natural Treatment Systems". San Diego, CA, USA. Sept. 12, 2016.
- Mehring, A.S. **2015**. The ecology of natural stormwater treatment systems. *Southern California Coastal Water Research Project (SCCWRP) Fall 2015 Seminar Series*. Costa Mesa, CA, USA. November 13, 2015.
- Mehring, A.S. **2013**. Carbon, nutrient and oxygen dynamics in blackwater rivers of the western upper Suwannee River basin. *Scripps Institution of Oceanography Ecology Seminar Series*. La Jolla, CA, USA. December 4, 2013.
- Mehring, A.S. **2012**. The World Water Crisis. *ASLO*, *Aquatic Sciences Meeting Opening Symposium on climate change*. Otsu, Japan. July 8, 2012.

## Service and Outreach\*

# Reviews for:

Agronomy; Aquatic Ecology; Diversity; Ecological Engineering; Ecological Restoration; Entomologia Experimentalis et Applicata; Estuarine, Coastal and Shelf Science; Freshwater Biology; Freshwater Science; Journal of Environmental Quality; Journal of Sustainable Water in the Built Environment; Limnology & Oceanography; Pedosphere; PloS ONE; Scientific Reports; Science of the Total Environment; Soil & Tillage Research; Water, Air, & Soil Pollution; Water Research

**Special Session Organizer and Chair,** *ASLO 2021 Aquatic Sciences Virtual Meeting.* June 2021 "SS79 New perspectives on the functional roles of fauna in wetlands, lakes, and other aquatic ecosystems" 22–27 June 2021

## San Diego, CA

Co-led (with Lisa Levin) three workshops at Ocean View Growing Grounds (urban community garden) on invertebrate zoology, the ecology of gardening, and the importance of stormwater capture

2014 - 2017

<sup>\*</sup> With the exception of Education and Professional Appointments, activities listed in all sections are since 2010