

January 2017

## *CURRICULUM VITAE*

### **Michael L. Pace**

Department of Environmental Sciences  
University of Virginia  
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### **Professional Experience**

Chair, Dept. of Environmental Sciences, University of Virginia, 2014-Present  
Professor, Dept. of Environmental Sciences, University of Virginia, 2008-Present  
Adjunct Scientist, Cary Institute of Ecosystem Studies, 2008-Present  
Assistant Director, Cary Institute of Ecosystem Studies, 2000-2008  
G. Evelyn Hutchinson Chair in Ecology, Institute of Ecosystem Studies, 2005-2008  
Senior Scientist, Cary Institute of Ecosystem Studies, 1994-2008  
Acting Director, Cary Institute of Ecosystem Studies, 1996, 2004  
Associate Scientist, Cary Institute of Ecosystem Studies, 1989-1994  
Assistant Scientist, Cary Institute of Ecosystem Studies, 1986-1989  
Assistant Professor, Dept. of Oceanography, University of Hawaii, 1983-1985  
Postdoctoral Fellow, Dept. of Biology, McGill University, 1981-1983

### **Education**

Ph.D. Ecology, University of Georgia, 1981  
M.S. Zoology, University of Georgia, 1977  
B.A. Biology & English, University of Virginia, 1974

### **Research Interests**

Aquatic Ecosystems, Food Webs, Microbial Ecology, Biogeochemistry

### **Honors and Awards**

Naumann-Thienemann Medal, International Society of Limnology, 2016  
President-Elect, Association for the Sciences of Limnology and Oceanography (2016-2018, will serve as President 2018-2020)  
Visiting Scholar, Virginia Institute of Marine Sciences, June 2013  
Candidate, President Ecological Society of America, Fall 2012

Synthesis Speaker, Final Meeting of Lake Ecosystem Response to Environmental Change program, Abisko, Sweden, September 2010  
Keynote Address, Brazilian Congress of Limnology, August 2009  
G. Evelyn Hutchinson Medal, American Society of Limnology and Oceanography, 2009  
Visiting Faculty, Agouron Institute Course: Microbial Oceanography: Genomes to Biomes, University of Hawaii, Honolulu, Hawaii, July 2008  
University of Minnesota, Water Resources Science Program, Distinguished Visitor Series, April 2008  
Citation, Outstanding Reviewer *Limnology and Oceanography* in *L&O Bulletin* Vol. 16: 85, American Society of Limnology and Oceanography  
Guest Researcher with Lake Ecosystem Response to Environmental Change (LEREC) Group, Universities of Umea and Uppsala, Sweden, September 2006  
Eminent Ecologist, Kellogg Biological Station, Michigan State University, June 2005  
Elected Fellow, American Association for the Advancement of Science, 1995  
Citation, American Fisheries Society for Most Significant Paper in *Transactions of the American Fisheries Society* Volume 121, 1992  
Sigma Xi Award for Outstanding Ph.D. Dissertation, University of Georgia, 1981  
Magna Cum Laude Graduate, University of Virginia, 1974  
Phi Sigma Award in Biology, University of Virginia, 1974  
Elected, Phi Beta Kappa, 1974

### **Selected Service**

Reviewer, Candidates for Appointment to Professor, University of Vienna, 2016  
Co-Chair, Association for the Sciences of Limnology and Oceanography Meeting, 2015  
Granada, Spain  
Editorial Board, *Ecosystems*, 1998-2000, 2008-Present  
Science Advisory Committee for NSERC Industrial Research Chair in Carbon Biogeochemistry in Boreal Aquatic Systems, University of Quebec at Montreal, 2010- 2015  
External Review Committee, Cornell Biological Field Station, Bridgeport, New York, July 2008,  
*Faculty 1000*, Section Marine & Freshwater Ecology "Faculty Member", 2005-2012  
Editorial Board, *Frontiers in Ecology and the Environment*, 2006-2010  
Rapid Response Team on Aquatic Ecology, Ecological Society of America, 2004- 2012  
Committee of Visitors (Chair), Division of Environmental Biology, National Science Foundation, June 2006  
Science Committee (Chair), International Limnology Society Triennial Meeting, 2006-2007  
Organizing Committee, American Society of Limnology and Oceanography Annual Meeting, Santiago de Compostela, Spain, 2005  
Review Committee for Editor in Chief of *Ecological Applications*, Ecological Society of America, 2004-2005 (Chair)  
Publications Committee, American Society of Limnology and Oceanography, 2002-2004 (Chair), 2015-Present  
Ecosystem Studies Panel, National Science Foundation 2000-2004, 2012, 2013, 2016

Visions Committee, Ecological Society of America, 2002-2004  
National Research Council, Committee on Endangered and Threatened Fishes of the Klamath Basin 2001-2004  
Nominations Committee, American Society of Limnology and Oceanography, 1993-1994, 1999-2001 (Chair 2000-2001)  
Scientific Advisory Board, National Center for Ecological Analysis and Synthesis, 1998-2001, (Chair 2000-2001)  
Advisory Review Committee of the Cornell Biology Field Station, Bridgeport, New York, November 1999, external committee member  
G. Evelyn Hutchinson Award Subcommittee, American Society of Limnology and Oceanography, 1999-2001, 2010-2011  
Panel, EPA Star Program on Regional Scale Analysis and Assessment, 1999  
Judge and Advisory Panel for Dutchess County Science Fair 1998, 2001-2002  
Scientific Advisory Committee, Multiscale Experimental Ecosystem Research Center, Center for Environmental Sciences, University of Maryland, 1998-2000  
Associate Editor, *Limnology and Oceanography*, 1994-1999  
Grant Review Panels, Hudson River Foundation, 1996, 1997  
Board Member, Association of Ecosystem Research Centers, 1994-1997  
Grant Review Panels, National Science Foundation, 1990, 1994, 2010

### **Courses Taught at the University of Virginia**

Limnology: Inland Water Ecosystems (EVSC 4290/7290) – Fall Semesters 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016  
Ecology (EVSC 3200): Spring Semesters 2010 and 2012  
Ecology Lab (EVSC 3201): Spring Semesters 2010 and 2012  
Ecosystem Ecology (EVSC 4250/7250): Spring Semesters 2009, 2011, 2013  
Professional Development in the Environmental Sciences: Spring Semester 2015

### **Graduate Students and Postdoctoral Associates Supervised**

Cal Buelo, Ph.D. Student, 2016-Present, Dept. of Environmental Sciences, University of Virginia  
Alice Besterman, Ph.D. Student, 2014-Present, Dept. of Environmental Sciences, University of Virginia  
Jessica Gephart, Ph.D. 2016, Dept. of Environmental Sciences, University of Virginia. Currently Postdoc National Socio-Environmental Synthesis Center  
Kyle Emery, M.S., 2015, Dept. of Environmental Sciences, University of Virginia. Currently Ph.D. Student University of California Santa Barbara  
Grace Wilkinson, Ph.D., 2015 and Postdoctoral Associate 2015-2016, Dept. of Environmental Sciences, University of Virginia, Currently Assistant Professor Iowa State University  
David Seekell, Ph.D. 2014, Dept. of Environmental Sciences, University of Virginia. Currently Assistant Professor at University of Umea

Kelly Hondula, M.S. 2012, Dept. of Environmental Sciences, University of Virginia,  
Currently Research Assistant, National Socio-Environmental Synthesis Center

James Coloso, M.S. 2010, Dept. of Environmental Sciences, University of Virginia,  
Currently Research Technician, National Ecological Observatory Network

Caroline Turner, M.S. 2008, Dept. of Ecology and Evolutionary Biology, Cornell  
University, Currently Ph.D. Student Michigan State University

Roxane Maranger, Postdoctoral Associate 2000-2002; Currently Associate Professor,  
Dept. of Biological Sciences, University of Montreal

Francis Chan, Ph.D. 2001, Dept. of Ecology and Evolutionary Biology, Cornell  
University; Currently Research Associate Professor, Dept. of Zoology, Oregon  
State University

David Post, Ph.D. 2000, Dept. of Ecology and Evolutionary Biology, Cornell University;  
Currently Professor, Dept. of Ecology and Evolution, Yale University

Isabel Reche, Postdoctoral Associate 1995-1997; Currently Professor, Dept. of Zoology  
and Ecology, University of Granada

Karin Limburg, Postdoctoral Associate 1994-1997; Currently Professor, Environmental  
and Forest Biology, SUNY College of Environmental Science and Forestry,  
Syracuse, New York

Stephen Baines, Ph.D. 1993, Biology Dept., Yale University; Currently Associate  
Professor, Dept. of Ecology and Evolution, SUNY Stony Brook

Hélène Cyr, Ph.D. 1992, Ecology Program, Rutgers University; Currently Associate  
Professor, Dept. of Zoology, University of Toronto

Dolors Vaqué, Postdoctoral Associate 1990-1991; Currently Marine Scientist, Institut de  
Ciències del Mar, Barcelona, Spain

George McManus, Postdoctoral Associate 1986-1989; Currently Professor, Marine  
Sciences, University of Connecticut

## **Extramural Grants**

National Science Foundation – EAGER research: Gas exchange over the air-water  
interface of freshwater systems, 2015-2017, \$284,994

National Science Foundation - OPUS: Collaborative research: analysis of cross-  
boundary fluxes, trophic cascades, and ecosystem stability based on 32 years of  
whole-lake experiments. 2015-2017, \$71,190

National Science Foundation - Collaborative Research: Whole Ecosystem Experiments  
on Early Warnings for Regime Shifts to Cyanobacteria in Lakes, 2012-2016,  
\$377,901

National Science Foundation - LTER: Drivers, dynamics and consequences of non-  
linear change in coastal barrier systems, 2012-2018, \$5,880,000

National Science Foundation –LTREB: Long-term effects of a species invasion on an  
aquatic ecosystem, 2011-2016, \$450,000

NASA Virginia Space Grant Consortium – Spatial organization of lake size distributions  
and biogeochemical processes. 2013-2014, \$5000 (completed)

National Science Foundation - Collaborative research: Terrestrial support of lake food  
webs: A multi-isotope approach, \$244,884 (completed)

- National Science Foundation – Collaborative research: leading indicators of regime shift – an ecosystem experiment, \$462,185 (completed)
- National Science Foundation – QEIB: A spatially-explicit watershed-scale analysis of nutrient loading to Adirondack lake ecosystems, \$300,000 (completed)
- National Science Foundation – LTREB: Long term response of an aquatic ecosystem to an invasive species, \$300,000 (completed)
- National Science Foundation – Frontiers in sustainability science: biofuels as a critical test, \$49,900 (completed)
- McCann Foundation – Boat engine replacement, \$10,000 (completed)
- Hudson River Foundation - Boat Engine to Support Hudson River Activities, \$10,000 (completed)
- Hudson River Foundation – Freshwater flow and benthic grazing as controls on the Hudson River food web: a synthesis of long-term data, \$92,982 (completed)
- National Science Foundation – Collaborative Research: Terrestrial carbon subsidies of aquatic food webs, \$700,000 (completed)
- Hudson River Foundation – Bacterial activity in the upper Hudson Estuary: Do sewage nutrients stimulate degradation of organic matter? \$193,100 (completed)
- National Science Foundation – Collaborative Research: Alternative carbon sources for lake food webs, \$611,000 (completed)
- National Science Foundation – LTREB: Developing a long-term perspective on the response of an aquatic ecosystem to an invasive bivalve, \$300,000 (completed)
- Hudson River Foundation – Hot spots of bacterial activity in the Hudson River Estuary, \$190,495 (completed)
- Environmental Protection Agency – Regional analysis of variation in Adirondack lake ecosystems: landscape scale determinants of dissolved organic carbon, \$453,775 (completed)
- Department of Energy - Seventh Cary Conference: Successes, limitations and frontiers in ecosystem ecology to be held May 1997, \$25,000 (completed)
- National Aeronautics and Space Administration - Successes, limitations and frontiers in ecosystem ecology. \$30,000 (completed)
- National Science Foundation - Cary Conference VII: Successes, limitations and frontiers in ecosystem ecology: May 6-8, 1997, \$41,000 (completed)
- Cornell University - Subcontract on National Science Foundation Grant - Do top-down and bottom-up controls interact to exclude N-fixing cyanobacteria from the plankton of estuaries? \$147,443 (completed)
- National Science Foundation - Alternative states and ecosystem metabolism in lakes: interactions of nutrients and DOC, \$316,097 (completed)
- National Science Foundation - Response and compensation to a bivalve invasion by an aquatic ecosystem, \$900,000 (completed)
- Hudson River Foundation - Are spawners the first to go? Retrospective otolith analysis of successfully recruited American shad. \$41,000 (completed)
- New York Sea Grant Institute - Hudson River food web dynamics and the recruitment of striped bass, \$115,000 (completed)
- National Science Foundation - Research Opportunity Award supplement for Dr. William Shaw, Sullivan Community College, \$15,000 (completed)

- Hudson River Foundation - Cladoceran dynamics and the recruitment of larval *Morone* in the Hudson River Estuary, \$79,000 (completed)
- Hudson River Foundation - Synthesis of information on the lower food web of the tidal freshwater Hudson River, \$66,000 (completed)
- National Science Foundation - Regulation of heterotrophic microbial processes in lake ecosystems, 652,000 (completed)
- National Science Foundation - Microbial investigations of north temperate lakes: A supplement for research at LTER sites, \$45,000 (completed)
- Hudson River Foundation - Significance of bacterial production in the lower food web of the Hudson River, \$132,000 (completed)
- Hudson River Foundation - Hudson River fish populations: analysis of distribution and abundance from existing data, \$122,000 (completed)
- Lehigh University from a Mellon Foundation grant to Lehigh - Studies of the fate of algal production: sedimentation and grazing in three Poconos lakes, \$5000 (completed)
- University of Rhode Island, subcontract from an Environmental Protection Agency grant to URI - A nitrogen mass balance of the New York Bight ecosystem, \$45,000 (completed)
- National Science Foundation - Cascading trophic interactions in lake ecosystems: effects on bacteria and their consumers, \$150,000 (completed)
- Hudson River Foundation - Regulation of crustacean zooplankton in the Hudson River, \$72,000 (completed)
- Hudson River Foundation - Grazing on algae and bacteria by crustacean zooplankton in the Hudson River, \$67,000 (completed)

## **Presentations (2011-2016)**

### *Abstracts from Presentations at Scientific Meetings*

- Pace, M.L. Sustaining aquatic ecosystems in a changing world: prediction and resilience. International Society of Limnology Thirty Second Congress, August 3, 2016., Torino, Italy
- Pace, M.L., S.R. Carpenter, J.J. Cole, R.D. Batt, G.M. Wilkinson, C.D. Buelo, and J.T. Kurtzweil. 2016. A whole-lake test of early warnings: reversal of a cyanobacterial bloom. Association for the Sciences of Limnology and Oceanography Summer Meeting, June 10, 2016, Santa Fe, New Mexico.
- Williamson, G.M., C.D. Buelo, J.J. Cole, M.L. Pace. Exogenously produced CO<sub>2</sub> doubles the CO<sub>2</sub> efflux from three North American lakes. Association for the Sciences of Limnology and Oceanography Summer Meeting, June 7, 2016, Santa Fe, New Mexico.
- Butitta, V.L., S.R. Carpenter, M.L. Pace, A. Uppgaard, and E.H. Stanley. Detecting early warning indicators of blue-green algae blooms using spatial analysis. Association for the Sciences of Limnology and Oceanography Summer Meeting, June 6, 2016, Santa Fe, New Mexico.
- Wilkinson, G.M., K. Emery, V. Camacho-Ibar, M. Pace, K. McGlathery, J. Sandoval Gill, J. Hernandez-Lopez. Resource use of an aquacultured shellfish in the reverse

- estuary Bahia San Quintin, Baja California, Mexico. Ocean Sciences Meeting, New Orleans, February 23, 2016.
- Carpenter, S.R., R. Batt, C. Buelo, J.J. Cole, J. Kurtzweil, M.L. Pace, and G.M. Wilkinson. Whole-ecosystem test of early warning for cyanobacterial blooms. Ecological Society of America 100th Annual Meeting, Baltimore, Maryland, August 14, 2015.
- Carey, C.C., J.P. Doubek, A.B. Gerling, K.D. Hamre, Z.W. Munger, G.M. Wilkinson, P.A. Gantzer, F. Birgand, J.C. Little, M.L. Pace, and M.E. Schreiber. The effects of intermittent oxic-anoxic conditions on reservoir ecosystem services: A whole ecosystem experiment. Ecological Society of America 100th Annual Meeting, Baltimore, Maryland, August 12, 2015.
- Gephart, J.A., M.L. Pace, A. Brannstrom, E. Rovenskaya, and U. Dieckmann. Evolution of the global seafood trade network and regional vulnerabilities to shocks. Ecological Society of America 100th Annual Meeting, Baltimore, Maryland, August 11, 2015.
- Kitchell, J., S. Carpenter, J. Cole, M. Pace, J. Hodgson, and T. Cline. 2015. Unexpected outcomes in experimental lakes. Aquatic Sciences Meeting, Association for the Sciences of Limnology and Oceanography, February 23, 2015, Granada, Spain.
- Wilkinson, G.M., J.J. Cole, and M.L. Pace. 2015. The contribution of biological and physical processes to the formation of metalimnetic oxygen maxima in lakes. Aquatic Sciences Meeting, Association for the Sciences of Limnology and Oceanography, February 23, 2015, Granada, Spain.
- Cary, C.C., J.P. Doubek, A.B. Gerling, K.D. Hamre, Z.W. Munger, G.M. Wilkinson, P.A. Gantzer, J.C. Little, M. L. Pace, and M.E. Schreiber. 2015. Whole-ecosystem oxygenation demonstrates that episodic anoxic events promote internal loading of metals and carbon burial in a eutrophic reservoir. Aquatic Sciences Meeting, Association for the Sciences of Limnology and Oceanography, February 25, 2015, Granada, Spain.
- Pace, M.L., R.D. Batt, C. Buelo, S.R. Carpenter, J.J. Cole, J.T. Kurtzweil, and G.M. Wilkinson. 2015. Early warnings of phytoplankton blooms? A whole lake ecosystem experiment. Aquatic Sciences Meeting, Association for the Sciences of Limnology and Oceanography, February 26, 2015, Granada, Spain.
- Gudasz, C., D.A. Seekell, M.L. Pace, C. Verpoorter, L. Tranvik. 2014. Towards regional carbon cycling in lakes: landscape scale nonlinearities of carbon dioxide emissions from Swedish lakes. Joint Aquatic Sciences Meeting, May 22, 2014, Portland, Oregon.
- Pace, M.L., P.A. Raymond, and E.S. Kritzberg. 2014. Contributions of Jonathan Cole to aquatic ecosystem carbon cycle studies. Joint Aquatic Sciences Meeting, May 20, 2014, Portland, Oregon.
- Wilkinson, G.M., S.R. Carpenter, J.J. Cole, M.L. Pace. 2014. Results of whole lake metalimnetic  $^{13}\text{C}$  addition to test habitat specific resource use by zooplankton. Joint Aquatic Sciences Meeting, May 19, 2014, Portland, Oregon.
- Batt, R.D., S.R. Carpenter, J.J. Cole, M.L. Pace, R.A. Johnson, J. Kurtzweil, and G.M. Wilkinson. 2013. Changes in ecosystem metabolism and consumer diet in a lake

- with experimentally darkened water. Ecological Society of America Annual Meeting, Minneapolis, Minnesota, August 5, 2013
- Wilkinson, G.M., S. Carpenter, J.J. Cole, M.L. Pace. 2013. Terrestrial support of pelagic consumers in lakes: Results of a multi-lake study. Ecological Society of America Annual Meeting, Minneapolis, Minnesota, August 6, 2013
- Pace, M.L., J.J. Cole, S.R. Carpenter, G.M. Wilkinson. 2013. Are inputs of terrestrial organic carbon to lakes large or small relative to primary production? Association for the Sciences of Limnology and Oceanography Annual Meeting, February 21, 2013, New Orleans, Louisiana.
- Wilkinson, G.M., M.L. Pace, J.J. Cole. 2013. Terrestrial dominance of organic matter in north temperate lakes. Association for the Sciences of Limnology and Oceanography Annual Meeting, February 21, 2013, New Orleans, Louisiana.
- Seekell, D.A., M.L. Pace, L.J. Tranvik, and C. Verpoorter. 2013. Lake size distributions: theoretical and empirical results. Association for the Sciences of Limnology and Oceanography Annual Meeting, February 21, 2013, New Orleans, Louisiana.
- Cardosa, S., A. Enrich-Prast, M.L. Pace, F. Roland. 2013. Does hotter mean higher organic carbon mineralization in tropical sediments? Association for the Sciences of Limnology and Oceanography Annual Meeting, February 21, 2013, New Orleans, Louisiana.
- Batt, R.D., S.R. Carpenter, J.J. Cole, M.L. Pace, R.A. Johnson. 2013. Automated measures of ecosystem metabolism provide early warnings of regime shift. Association for the Sciences of Limnology and Oceanography Annual Meeting, February 22, 2013, New Orleans, Louisiana.
- Wilkinson, G.M., J.J. Cole and M.L. Pace. 2012. Terrestrial dominance of organic matter in north temperate lakes. American Geophysical Union Fall Conference, December 3, 2012, San Francisco, California.
- Pace, M.L., S.R. Carpenter, R.A. Johnson, J.T. Kurtzweil. 2012. Zooplankton provide early warnings of a regime shift in a whole lake manipulation. Ecological Society of America Annual Meeting, August 9, 2012, Portland, Oregon.
- Seekell, D.A., S.R. Carpenter, T.J. Cline, and M.L. Pace. 2012. Conditional heteroskedasticity warns of an impending regime shift in whole-ecosystem experiment. Ecological Society of America Annual Meeting, August 9, 2012, Portland, Oregon.
- Cline, T.J., D.A. Seekell, S.R. Carpenter, J.R. Hodgson, J.F. Kitchell, M.L. Pace, and B.C. Weidel. 2012. Spatial early warning signals discerned from prey fish behavior in whole-ecosystem regime shift experiment. Ecological Society of America Annual Meeting, August 8, 2012, Portland, Oregon.
- Batt, R.D., S.R. Carpenter, J.J. Cole, M.L. Pace, T.J. Cline, R.A. Johnson, and D.A. Seekell. 2012. Resources supporting the food web of a naturally productive lake. Ecological Society of America Annual Meeting, August 8, 2012, Portland, Oregon.
- Hondula, K., M.L. Pace, and J.J. Cole. 2011. Hydrogen isotope fractionation in aquatic primary producers. American Geophysical Union Fall Meeting December 7, 2011, San Francisco, California



- Seekell D.A., S.R. Carpenter, and ML Pace. 2011. Conditional heteroskedasticity forecasts regime shift in a whole-ecosystem experiment. American Geophysical Union Fall Meeting, December 7, 2011, San Francisco, California
- Seekell, D.A. and M.L. Pace. 2011. Lake size-abundance distributions: implications for boreal biome carbon cycling. American Society of Limnology and Oceanography Meeting, February 16, 2011, San Juan, Puerto Rico

### *Invited Seminars and Presentations*

- Workshop Speaker, University of Virginia, March 2016
- Symposium Speaker, National Science Foundation, September 2015
- Seminar, Blandy Experimental Farm, July 2015
- Symposium Speaker, Gordon Research Conference, June 2015
- Symposium Speaker, University of Kansas, April 2015
- Seminar, Virginia Tech, April 2014
- Seminar, Virginia Institute of Marine Science, June 2013
- Workshop Speaker, Virginia Institute of Marine Science, June 2013
- Seminar, University of Virginia, April 2012
- Seminar, Duke University, November 2011
- Seminar, North Carolina State University, November 2011
- Seminar, Ohio State University, October 2011
- Seminar, University of Quebec at Montreal, April 2011
- Seminar, University of Virginia, March 2011

## **Publications**

### *Books*

- Pace, M.L., and P.M. Groffman (eds.). 1998. Successes, limitations, and frontiers in ecosystem science. Springer-Verlag.

### *Journal Articles and Book Chapters*

- Pace, M.L., R.D. Batt, C.D. Buelo, S.R. Carpenter, J.J. Cole, J.T. Kurtzweil, and G.M. Wilkinson. 2016. Reversal of a cyanobacterial bloom in response to early warnings. *Proceedings of the National Academy of Sciences DOI* 10.1073/pnas.1612424114
- Gephart, J.A., L. Deutsch, M.L. Pace, M. Troell, and D.A. Seekell. 2017. Shocks to fish production: identification, trends, and consequences. *Global Environmental Change* 42: 24-32.
- Pace, M.L. and J.A. Gephart. 2017. Trade: a driver of present and future ecosystems. *Ecosystems* 20: 44-53.
- Murphy, A.E., K.A. Emery, I.C. Anderson, M.L. Pace, M.J. Brush, and J.E. Rheuban. 2016. Quantifying the effects of commercial clam aquaculture on C and N

- cycling: an integrated ecosystem approach. *Estuaries and Coasts* 39:1746-1761.
- Leach, A.M., K.A. Emery, J. Gephart, K.F. Davis, J.W. Erisman, A. Leip, M.L. Pace, P. D'Odorico, J. Carr, L. Cattell Noll, E. Castner, and J.N. Galloway. 2016. Environmental impact food labels combining carbon, nitrogen, and water footprints. *Food Policy* 61: 213-223.
- Emery, K.A., G.M. Wilkinson, V.F. Camacho-Ibar, M.L. Pace, K.J. McGlathery, J. M. Sandoval-Gil, and J. Hernandez-Lopez. 2016. Resource use of an aquacultured oyster (*Crassostrea gigas*) in the reverse estuary Bahia San Quintin, Baja California, Mexico. *Estuaries and Coasts* 39: 866-874.
- Emery, K.A., J.A. Gephart, G.M. Wilkinson, A.F. Besterman, and M.L. Pace. 2016. Exploring trophic cascades in lake food webs with a spreadsheet model, p. 111-115. In L.B. Byrne (ed.). *Learner-centered teaching activities for environmental and sustainability studies*. Springer International Publishing, Switzerland.
- Wilkinson, G.M., C.D. Buelo, J.J. Cole, and M.L. Pace 2016. Exogenously produced CO<sub>2</sub> doubles the CO<sub>2</sub> efflux from three north temperate lakes. *Geophysical Research Letters* 43: 1996-2003.
- Gephart, J.A., K.F. Davis, K.A. Emery, A.M. Leach, J.N. Galloway, and M.L. Pace. 2016. The environmental cost of subsistence: optimizing diets to minimize footprints. *Science of the Total Environment* 553: 120-127.
- Gephart, J.A., E. Rovenskaya, U. Dieckmann, M.L. Pace, A. Brannstrom. 2016. Vulnerability to shocks in the global seafood trade network. *Environmental Research Letters* 11: 035008 (10 pages).
- Carpenter, S.R., J.J. Cole, M.L. Pace, and G.M. Wilkinson. 2016. Response of plankton to nutrients, planktivory and terrestrial organic matter: a model analysis of whole-lake experiments. *Ecology Letters* 19: 230-239.
- Gephart, J.A. and M. L. Pace. 2015. Structure and evolution of the global seafood trade network. *Environmental Research Letters* 10: 125014 (11 pages).
- Pace, M.L., S.R. Carpenter, and J.J. Cole. 2015. With and without warning: managing ecosystems in a changing world. *Frontiers in Ecology and Environment* 13: 460-467.
- Emery, K.A., G.M. Wilkinson, F.G. Ballard, and M.L. Pace. 2015. Erratum to: Use of allochthonous resources by zooplankton in reservoirs. *Hydrobiologia* 758: 271-273.
- Emery, K.A., G.M. Wilkison, F.G. Ballard. 2015. Use of allochthonous resources by zooplankton in reservoirs. *Hydrobiologia* 758: 257-269.
- Wilkinson, G.M., J.J. Cole, M.L. Pace, R.A. Johnson, and M.J. Kleinhaus. 2015. Physical and biological contributions to metalimnetic oxygen maxima. *Limnology and Oceanography* 60: 242-251.
- Wilkinson, G.M., J.J. Cole, and M.L. Pace. 2015. Deuterium as a food source tracer: Sensitivity to environmental water, lipid content, and hydrogen exchange. *Limnology and Oceanography Methods* 13: 213-223.
- Batt, R.D., S.R. Carpenter, J.J. Cole, M.L. Pace, R.A. Johnson, J.T. Kurtzweil, and G.M. Wilkinson. 2015. Altered energy flow in the food web of an experimentally darkened lake. *Ecosphere* Vol. 6, Article 33, 16 pages.

- Hanson, P.C., M.L. Pace, S.R. Carpenter, J.J. Cole, E.H. Stanley. 2015. Integrating landscape carbon cycling: research needs for resolving organic carbon budgets in lakes. *Ecosystems* 18: 363-365.
- Cline, T.J., D.A. Seekell, S.R. Carpenter, M.L. Pace, J.R. Hodgson, J.F. Kitchell, and B.C. Weidel. 2014. Early warnings of regime shifts: evaluation of spatial indicators from a whole-ecosystem experiment. *Ecosphere* Vol. 5, Article 102, 13 pages.
- Seekell, D.A., J.-F. Lapierre, M.L. Pace, C. Gudasz, S. Sobek, and L.J. Tranvik. 2014. Regional-scale variation of dissolved organic carbon concentrations in Swedish lakes. *Limnology and Oceanography* 59: 1612-1620.
- Strayer, D.L., J.J. Cole, S.E.G. Findlay, D.T. Fischer, J.A Gephart, H.M. Malcom, M.L. Pace, and E.J. Rosi-Marshall. 2014. Decadal-scale change in a large-river ecosystem. *BioScience* 64: 496-510.
- Yang, C., G.M. Wilkinson, J.J. Cole, S.A. Macko, and M.L. Pace. 2014. Assigning hydrogen, carbon, and nitrogen isotope values for phytoplankton and terrestrial detritus in aquatic food web studies. *Inland Waters* 4: 233-242.
- Wilkinson, G.M., S.R. Carpenter, J.J. Cole, and M.L. Pace 2014. Use of deep autochthonous resources by zooplankton: Results of a metalimnetic addition of  $^{13}\text{C}$  to a small lake. *Limnology and Oceanography* 59: 986-996
- Hondula, K.L., M.L. Pace, J.J. Cole, R.D. Batt. 2014. Hydrogen isotope discrimination in aquatic primary producers: implications for aquatic food web studies. *Aquatic Sciences* 76: 217-229.
- Carpenter, S.R., W.A. Brock, J.J. Cole, and M.L. Pace. 2014. A new approach for rapid detection of nearby thresholds in ecosystem time series. *Oikos* 123: 290-297.
- Hondula, K.L., and M.L. Pace. 2014. Macroalgal support of cultured hard clams in a low nitrogen coastal lagoon. *Marine Ecology Progress Series* 498: 187-201.
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