

CURRICULUM VITAE

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Education

1973-1976	B.A. Environmental Science University of Virginia
1976-1978	M.S. Marine Science University of South Carolina
1978-1981	Ph.D. Zoology University of Georgia

Experience

1981-1984	Post-Doctoral Associate, Institute of Ecology University of Georgia
1984-1985	Assistant Ecologist, Institute of Ecology University of Georgia
1985-1991	Assistant Scientist, Institute of Ecosystem Studies, The New York Botanical Garden, Mary Flagler Cary Arboretum
1991-1997	Associate Scientist, Institute of Ecosystem Studies
1997 -	Scientist, Cary Institute of Ecosystem Studies

Publications

1. Findlay, S. 1981. Small-scale spatial distribution of meiofauna on a mud- and sandflat. *Estuarine Coastal and Shelf Science* 12:471-484.
2. Findlay, S. 1982. Influence of sampling scale on apparent distribution of meiofauna on a sandflat. *Estuaries* 5:322-324.
3. Findlay, S. 1982. Effect of detrital nutritional quality on population dynamics of a marine nematode (*Diplolaimella chitwoodi*). *Marine Biology* 68:223-227.
4. Findlay, S. and K. Tenore. 1982. Effect of a free-living marine nematode (*Diplolaimella chitwoodi*) on detrital carbon mineralization. *Marine Ecology Progress Series* 8:161-166.
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16. Cole, J.J., S. Findlay and M. Pace. 1988. Bacterial production in fresh and saltwater ecosystems: A cross-system overview. *Marine Ecology Progress Series* 43:1-10.
17. Findlay, S.E.G. and T. A. Arsuffi. 1989. Microbial growth and detritus transformations during decomposition of leaf litter in a stream. *Freshwater Biology* 21:261-269.
18. Findlay, S., K. Schoeberl and B. Wagner. 1989. Abundance, composition and dynamics of the invertebrate fauna of a tidal freshwater wetland. *Journal of the North American Benthological Society* 8:140-148.
19. Austin, K. and S. Findlay. 1989. Benthic bacterial biomass and production in the Hudson River Estuary. *Microbial Ecology* 18:105-116.
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124. Sinsabaugh, R.L., J.J.F. Shah, S.G. Findlay, K.A. Kuehn, and D.L. Moorhead. 2015. Scaling microbial biomass, metabolism and resource supply. *Biogeochemistry* 122:175-190.
125. Logue, J.B., S.E.G. Findlay, and J. Comte. 2015. Editorial: microbial responses to environmental changes. *Frontiers in Microbiology* 6:1364. (DOI:10.3389/fmicb.2015.01364)
126. Freimann, R., H. Büergmann, S.E.G. Findlay, and C.T. Robinson. 2015. Hydrologic linkages drive spatial structuring of bacterial assemblages and functioning in alpine floodplains. *Frontiers in Microbiology* 6:1221. (DOI:10.3389/fmicb.2015.01221)
127. Creed, I.F., D.M. McKnight, B.A. Pellerin, et al. 2015. The river as a chemostat: fresh perspectives on dissolved organic matter flowing down the river continuum. *Canadian Journal of Fisheries and Aquatic Sciences* 72:1272-1285.
128. Strayer, D.L., E. Kiviat, S.E.G. Findlay, et al. 2016. Vegetation of riprapped revetments along the freshwater tidal Hudson River, New York. *Aquatic Sciences* 78:605-614.
129. Alldred, M., S.B. Baines, and S. Findlay. 2016. Effects of invasive-plant management on nitrogen-removal services in freshwater tidal marshes. *PLOS ONE* 11:e0149813. (DOI:10.1371/journal.pone.0149813)

130. Mineau, M.M., W.M. Wollheim, I. Buffam, S.E.G. Findlay, R.O. Hall, E.R. Hotchkiss, L.E. Koenig, W.H. McDowell, and T.B. Parr. 2016. Dissolved organic carbon uptake in streams: A review and assessment of reach-scale measurements. *Journal of Geophysical Research-Biogeosciences* 121:2019-2029.

Books and Chapters

1. Cole, J.J., G.M. Lovett, and S.E.G. Findlay (editors). 1991. *Comparative Analyses of Ecosystems*. Springer-Verlag.
2. Findlay, S.E.G. 1993. Thymidine incorporation into DNA as an estimate of sediment bacterial production. Pp. 505-508 In: *Handbook of Methods in Aquatic Microbial Ecology*. P.F. Kemp, B.F. Sherr, E.B. Sherr and J.J. Cole (editors). Lewis Publishers.
3. Jones, C.G., J.S. Coleman, and S. Findlay. 1994. Effects of ozone on interactions among plants, consumers and decomposers. Pp. 339-363 In: *Plant Responses to the Environment: Molecular, Metabolic and Physiological Aspects*. R.G. Alscher and A. Wellburn (editors). Chapman and Hall, Inc.
4. Findlay, S., and W.V. Sobczak. 2000. Microbial communities in hyporheic sediments. Pp. 287-306 In: *Surface-subsurface Interactions in Streams*. J.B. Jones and P.J. Mulholland (editors). Academic Press.
5. Findlay, S.E.G., and R.L. Sinsabaugh (editors). 2003. *Aquatic Ecosystems: Interactivity of Dissolved Organic Matter*. Academic Press.
6. Findlay, S.E.G. Bacterial response to variation in dissolved organic matter. 2003. Pp. 363-377 In: S.E.G. Findlay and R.L. Sinsabaugh (editors). *Dissolved Organic Matter in Aquatic Ecosystems*. Academic Press.
7. Findlay, S.E.G. 2006. Bacterial abundance, growth and metabolism in the tidal freshwater Hudson River. Pp. 99-106 In: *The Hudson River Ecosystem*. J. Levinton and J. Waldman (editors). Cambridge University Press.
8. Findlay, S.E.G., C. Wigand, and W.C. Nieder. 2006. Submersed macrophyte distribution and function in the tidal freshwater Hudson River. Pp. 230-241 In: J. Levinton and J. Waldman (editors). *The Hudson River Ecosystem*. Cambridge University Press.
9. Kiviat, E., S.E.G. Findlay, and W.C. Nieder. 2006. Tidal wetlands. Pp. 279-295 In: J. Levinton and J. Waldman (editors). *The Hudson River Ecosystem*. Cambridge University Press.

10. Findlay, S.E.G. 2006. Dissolved organic matter. Pp. 239-248 In: R. Hauer and G. Lamberti (editors). *Methods in Stream Ecology*. Academic Press.
11. Paetzold, A., J.L. Sabo, J.P. Sadler, S.E.G. Findlay, and K. Tockner. 2007. Aquatic-terrestrial subsidies along river corridors. Pp. 57 – 73 In: P. J. Wood, D. M. Hannah and J. P. Sadler (editors). *Hydroecology and Ecohydrology: Past, Present and Future*. John Wiley & Sons, Ltd.
12. Findlay, S., W.C. Nieder, and S. Ciparis. 2008. Carbon flows, nutrient cycling and food webs. Pp. 137-144 In: A. Barendregt, D.F. Whigham, and A.H. Baldwin (editors). *Tidal Freshwater Wetlands*. Backhuys Publishers, Leiden.
13. Nieder, W.C., S. Hoskins, S.D. Smith and S.E.G. Findlay. 2008. Distribution and spatial change of Hudson River Estuary submerged aquatic vegetation: Implications for coastal management and natural resource protection. Pp. 259-277 In: X. Yang (editor). *Remote Sensing and GIS for Coastal Ecosystem Assessment and Management: Principles and Applications*. Springer-Verlag, Berlin, Heidelberg.
14. Findlay, S. *Tidal Freshwater Wetlands*. 2009. Pp. 558-562 In: G. E. Likens (editor). *Encyclopedia of Inland Waters*. volume 3. Oxford: Elsevier.

Grants (Last 5 years)

Findlay, S. Tidal marsh effects on water chemistry: Does looking at the small scale predict whole-system performance. National Science Foundation. \$405,000. March 1, 2008 - Feb 28, 2013.

Findlay, S. and D. Strayer. Submerged aquatic vegetation change in the tidal freshwater Hudson River: Linking function with fluctuation. Hudson River Foundation. \$68,622. March 2011 - July 2013.

Berkowitz, A., S. Findlay, D. Strayer, and C. Canham. *Data Explorations in Ecology*. National Science Foundation. \$450,000. September 1, 2010 - August 31, 2013.

Findlay, S. Informing the public about the Hudson – A real-time display of water quality for the Walkway over the Hudson. Hudson River Improvement Fund. \$8,017. July 1, 2010 - September 2013.

Findlay, S. and M. Bernot. Effect of salinity intrusion on Hudson River wetland nitrogen cycling. New York Sea Grant. \$157,769. February 1, 2012 - January 30, 2015.

Strayer, D., and S. Findlay. Sustainable shorelines along the Hudson River Estuary: Promoting resilient shorelines and ecosystem services in an era of rapid climate change. NERRS Science Collaboration. \$814,155. October 1, 2010 - June 30, 2015.

Findlay, S. Change Analysis of Submerged Aquatic Vegetation in the tidal freshwater Hudson River. Hudson River Foundation. \$112,735. April 1, 2014 - March 31, 2016.

Findlay, S. Entergy Wetlands Assessment. \$125,000. July 11, 2013 - March 31, 2016.

Strayer, D., J. Cole, S. Findlay, M. Pace, and E. Rosi-Marshall. LTREB: Long-term effects on a species invasion on an aquatic ecosystem. National Science Foundation. \$450,000. July 1, 2011 - June 30, 2016.

Findlay, S. Assessing Ecological and Physical Performance of Sustainable Shoreline Structures. University of Michigan Water Science Center. \$328,373. September 1, 2015 - August 31, 2018.

Strayer, D., S. Findlay, C. Solomon and E. Rosi. LTREB: Long-term Effects of a Species Invasion on an Aquatic Ecosystem. National Science Foundation. \$450,000. July 1, 2016 - June 30, 2021.

Findlay, S. Habitat Suitability for Restoration of Submerged Aquatic Vegetation in the Tidal Freshwater Hudson River, NY. Hudson River Foundation. \$245,909. April 1, 2015 - March 31, 2017.

Invited Professional Activities

National Institute of Water and Atmosphere, Hamilton, NZ. Stream restoration workshop, Visiting Distinguished Scientist. March 1-21, 1995.

National Science Foundation, Doctoral Dissertation Panel, January 25-26, 1996.

Invited Lecture: Ecological Effects of Exotic Species Invasions in the Hudson River, New York, USA. River Bottom IV, Brno, Czech Republic. August 1996.

Invited Participant: US Army Corps. of Engineers, Coastal Fringe Hydrogeomorphic Workshop. Charleston, SC. September 1996. Workshop to critique functional assessment models developed for tidal wetlands.

Distinguished Visiting Scholar, Faculty of Science, University of Adelaide, Adelaide, South Australia. 1997.

NSF/EPA/USDA Advisory Panel, Water and Watersheds, July 1998.

Recent invited seminars: Rutgers University, Fordham University, Horn Point Environmental Laboratory-University of Maryland, Binghamton University, USGS, Menlo Park, Ca, Arizona State University, Academy of Natural Sciences, Philadelphia.

Educational Activities

Co-Principal Investigator of National Science Foundation-Research Experience for Undergraduates Project at Cary.

Graduate Program Coordinator for the Cary Institute of Ecosystem Studies. Acted as liaison between Cary and students in the NSF-Research Training Grant, "Human-Accelerated Environmental Change."

Graduate Student Committees

Greg Lewis - Cornell University (Member). Influence of forest insect defoliation on stream solute chemistry. Completed May 1998.

William V. Sobczak - Cornell University (Co-chair). Microbial metabolism of dissolved organic carbon in stream hyporheic zones. Completed January 1999.

Lisa Windham - Rutgers University (Member). Effects of an invasive reedgrass, (*Phragmites australis*) on nitrogen cycling in brackish tidal marshes of New York and New Jersey. Completed May 1999.

Christine Foreman, PhD student, University of Toledo (Member). Dissolved Organic Carbon: Importance as a regulator of microbial communities. Completed December 1999.

Jill Rooth, Ph.D. student, University of Maryland (Member). Defended November 2000.

Pamela Templer, Ph.D. student, Cornell University (Co-chair). Direct and indirect effects of tree species on forest nitrogen retention in the Catskill Mountains, NY. Completed August 2001.

Meredith Hummel, MS student. Bard College (Chair). Ecosystem Effects of Water Chestnut (*Trapa natans*) Stands in the Tidal Freshwater Hudson River. Expected defense Fall 2002.

Jerome Comte, Male, PhD, University of Quebec at Montreal, Member of Committee, 2006.

Krista Capps, Female, PhD, Cornell University, Member of Committee, 2007 – 2011(Completed).

Katie Delaney, Female, MS, University of Maryland, Member of Committee, 2008.

Remo Friemann, Male, PhD Candidate, EAWAG, 2008 - 2012 (Completed).

Sarah Collins, Female, PhD, Cornell University, Member of Committee, 2009 – 2015.

Mary Alldred, Female, PhD Candidate, SUNY Stony Brook, Member of Committee, 2011- 2015.

Thomas Parr, Male, PhD Candidate, University of Maine, Member of Committee, 2011-2014.

Membership in Professional Societies

North American Benthological Society

Society of Wetland Scientists

American Society of Limnology and Oceanography

Ecological Society of America

Estuarine Research Federation

American Society of Limnology and Oceanography

Professional Service

Editor in Chief: Aquatic Sciences - Research Across Boundaries.

Editorial Board: Ecology. Ecological Society of America. Dr. Donald Strong, Editor-in-Chief.

Hudson River Estuary Management Advisory Committee, created by act of New York State Legislature to advise the Department of Environmental Conservation. Served 1988 to present.

Research Advisory Committee, (Chair), Hudson River National Estuarine Research Reserve. Provides guidance on research activities in Research Reserve sites. Formulates long-range research plans, provides technical review of proposals. Served 1988 to present.

Rivers and Estuaries Research Institute Advisory Committee, Special Committee to advise Governor Pataki on the science mission appropriate for a proposed research and education center to be located in the Hudson Valley. 2000-2001.

Internal Cary Committees

Seminar Program (Chair)

Radiation Safety

Graduate Program Coordinator