

Dennis Peter Swaney
Curriculum Vitae
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Contact Information: Dept. of Ecology and Evolutionary Biology
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 Cornell University
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Education:

B.A., Physics – 1977 New College; Sarasota, FL
 M.S., Environmental Engineering Science/Systems Ecology - 1978
 University of Florida; Gainesville, FL

Professional Experience:

2003 – present Research Support Specialist/Coordinator of Environmental Modelling,
 Dept. of Ecology and Evolutionary Biology, Cornell University, Ithaca, NY.
 1999 – 2004 Environmental Systems Analyst, Boyce Thompson Institute, Ithaca, NY.
 1998 – 1999 Environmental Research Scientist, Dept. of Systems Ecology, Stockholm
 University, Stockholm, Sweden.
 1994 – 1997 Environmental Systems Analyst, Cornell Center for the Environment, Cornell
 University, Ithaca, NY.

Research Interests:

Understanding hydrological and biogeochemical processes and their relationships to aquatic and terrestrial ecosystem dynamics; nutrient cycles from field to global scales; effects of land-use changes, management practices, and climate change on nutrient fluxes from the landscape; response of estuaries and other coastal systems to anthropogenic nutrient loads; practical analytical approaches for management, including nutrient budgets and nutrient accounting methods in watersheds and coastal waters; mathematical modeling of transport and dispersal of materials in the environment, including development of advection/diffusion/reaction models.

Selected Publications

Peer-Reviewed Journal Articles

Swaney, D. P., Butler, T. J., Howarth, R. W., Marino, R., Beachley, G. M., & Baublitz, C. B., 2026. Atmospheric ammonia deposition: A significant source of nitrogen to an oligotrophic lake and its watershed. *Journal of Geophysical Research: Biogeosciences*, 131, e2025JG009389. <https://doi.org/10.1029/2025JG009389>

McIsaac, G.F., **Swaney, D.P.**, Botero-Acosta, A. and Howarth, R.W., 2026. Changes in

N Budgets and Riverine Nitrate-N Yields from Mississippi River Basin Watersheds 2000-2020. *Ocean-Land-Atmosphere Research*. <https://spj.science.org/doi/10.34133/olar.0131>

Howarth, R.W., Chan, F., **Swaney, D.P.**, Marino, R.M. and Hayn, M., 2021. Role of external inputs of nutrients to aquatic ecosystems in determining prevalence of nitrogen vs. phosphorus limitation of net primary productivity. *Biogeochemistry*, pp.1-14. <https://doi.org/10.1007/s10533-021-00765-z>

Kong, D., Jin, Y., Yu, K., **Swaney, D.P.**, Liu, S and Zou, J. 2021. Low N₂O emissions from wheat in a wheat-rice double cropping system due to manure substitution are associated with changes in the abundance of functional microbes. *Agriculture Ecosystems & Environment* 311(1 May 2021):107318. DOI: 10.1016/j.agee.2021.107318

Pihlainen, S., Zandersen, M., Hyytiäinen, K., Andersen, H.E., Bartosova, A., Gustafsson, B., Jabloun, M., McCrackin, M., Meier, H.M., Olesen, J.E., Saraiva, S., **Swaney, D.P.** and Thodsen, H. 2020. Impacts of changing society and climate on nutrient loading to the Baltic Sea. *Science of The Total Environment*, V 120. p.138935. <https://doi.org/10.1016/j.scitotenv.2020.138935>

Han, Y., Feng, G., **Swaney, D.P.**, Dentener, F., Koebler, R., Ouyang, Y. and Gao, W., 2020. Global and regional estimation of net anthropogenic nitrogen inputs (NANI). *Geoderma*, 361:114066. <https://doi.org/10.1016/j.geoderma.2019.114066>

Swaney, D.P. and Howarth, R.W. 2019. County, Subregional and Regional Phosphorus Data Derived from the Net Anthropogenic Nitrogen/Phosphorus Inputs (NANI/NAPI) Toolbox. <https://doi.org/10.1016/j.dib.2019.104265>

Nack, C.C., Limburg, K.E. and **Swaney D.P.** 2019. Historical and Projected Changes in Spawning Phenologies of American Shad and Striped Bass in the Hudson River Estuary. *Marine and Coastal Fisheries*. 11:271–284. DOI: 10.1002/mcf2.10076

Swaney, D.P. and R.W. Howarth. 2019. Phosphorus use efficiency and crop production: Patterns of regional variation in the United States, 1987-2012. *Science of the Total Environment*. 685:174–188. <https://doi.org/10.1016/j.scitotenv.2019.05.228>.

Svanbäck, A., McCrackin, M.L., Humborg, C., **Swaney, D.P.**, Linefur, H., Howarth, R.W., Gustafsson, B.G. 2019. Reducing agricultural nutrient surpluses in a large catchment – links to livestock density. *Science of the Total Environment*. 648:1549–1559 Available online at: <https://www.sciencedirect.com/science/article/pii/S0048969718331504>

Zeldis, J.R. and **Swaney, D.P.**, 2018. Balance of Catchment and Offshore Nutrient Loading and Biogeochemical Response in Four New Zealand Coastal Systems: Implications for Resource Management. *Estuaries and Coasts*, pp.1-20. <https://doi.org/10.1007/s12237-018-0432-5>.

McCrackin, M.L., Muller-Karulis, B., Gustafsson, B.G., Howarth, R.W., Humborg, C.,

Svanbäck, A. and **Swaney, D.P.**, 2018. A century of legacy phosphorus dynamics in a large drainage basin. *Global Biogeochemical Cycles*, 32(7), pp.1107-1122.
<https://doi.org/10.1029/2018GB005914>

Swaney, D.P., Howarth, R.W. and Hong, B., 2018. County, Subregional and Regional Nitrogen Data Derived from the Net Anthropogenic Nitrogen Inputs (NANI) Toolbox. Data in Brief. <https://doi.org/10.1016/j.dib.2018.04.098>

Swaney, D.P., R.W. Howarth, and B. Hong. 2018. Nitrogen use efficiency and crop production: Patterns of regional variation in the United States, 1987-2012. *Science of the Total Environment*. 635:498–511. <https://doi.org/10.1016/j.scitotenv.2018.04.027>

McCrackin, M.L., Gustafsson, B.G., Hong, B., Howarth, R. W., Humborg, C., Savchuk, O. P., Svanbäck, A. and **Swaney, D. P.** 2018. Opportunities to reduce nutrient inputs to the Baltic Sea by improving manure use efficiency in agriculture. *Regional Environmental Change*. 18(6):1843–1854. <https://doi.org/10.1007/s10113-018-1308-8>

Zhang, W., **Swaney, D. P.**, Hong, B., & Howarth, R. W. 2017. Anthropogenic phosphorus inputs to a river basin and their impacts on phosphorus fluxes along its upstream-downstream continuum. *Journal of Geophysical Research: Biogeosciences*, 122, 3273–3287.
<https://doi.org/10.1002/2017JG004004>

Zhang, W., **Swaney, D.P.**, Hong, B., Howarth, R.W. and Li, X. 2017. Influence of rapid rural-urban population migration on riverine nitrogen pollution: perspective from ammonia-nitrogen. *Environmental Science and Pollution Research*, pp.1-14.

Hong, B., **Swaney, D.P.**, McCrackin, M., Svanbäck, A., Humborg, C., Gustafsson, B., Yershova, A. and Pakhomau, A., 2017. Advances in NANI and NAPI accounting for the Baltic drainage basin: spatial and temporal trends and relationships to watershed TN and TP fluxes. *Biogeochemistry*, pp.1-17. doi:10.1007/s10533-017-0330-0.

Gao, W., B. Hong, B., **D.P. Swaney**, R.W. Howarth, and H. Guo. 2016. A system dynamics model for managing regional N inputs from human activities. *Ecological Modelling*. 322:82–91

Zhang, W. S., **D. P. Swaney**, B. Hong, R. W. Howarth, H. Han and X. Y. Li. 2015. Net anthropogenic phosphorus inputs and riverine phosphorus fluxes in highly populated headwater watersheds in China. *Biogeochemistry*. 126(3): 269-283. Available online at:
<http://link.springer.com/article/10.1007/s10533-015-0145-9>

Zhang, W. S., **D. P. Swaney**, X. Y. Li, B. Hong, and R. W. Howarth. 2015 Anthropogenic point and non-point nitrogen inputs into Huai River Basin and their impacts on riverine ammonia-nitrogen flux. *Biogeosciences*. 12:4275-4289. <http://www.biogeosciences.net/12/4275/2015/bg-12-4275-2015.html>

Glavovic B. C., Limburg K., Liu K.-K, Emeis K.-C., Thomas H., Kremer H., Avril B., Zhang J., Mulholland M. R, Glaser M. & **Swaney D. P.** 2015. Living on the Margin in the Anthropocene:

Engagement arenas for sustainability research and action at the ocean-land interface. *Current Opinion in Environmental Sustainability*. 14: 232–238

<http://www.sciencedirect.com/science/article/pii/S187734351500055X>

Zhang, W.S., X. Li, **D. P. Swaney**, X. Du. 2016 Does food demand and rapid urbanization growth accelerate regional nitrogen inputs? *Journal of Cleaner Production*. 112(2):1401-1409. Available online at: <http://www.sciencedirect.com/science/article/pii/S095965261500935X>

Zhang, W. S., **D. P. Swaney**, X. Y. Li, B. Hong, and R. W. Howarth. 2015 Anthropogenic point and non-point nitrogen inputs into Huai River Basin and their impacts on riverine ammonia-nitrogen flux. *Biogeosciences Discussions*. 12:3577-3615, doi:10.5194/bgd-12-3577-2015. Available online at <http://www.biogeosciences-discuss.net/12/3577/2015/bgd-12-3577-2015.pdf>

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Lyon, S.W., van der Velde, Y., Dahlke, H.E., Meidani, R., **Swaney, D.P.**, Mörtz, C.-M., Humborg, C. 2015. Seasonal and regional patterns in performance for a Baltic Sea drainage basin hydrologic model. *Journal of the American Water Resources Association*. 51(2): 550–566 .Published online December 8 2014. DOI: 10.1111/jawr.12268.

Sha, J., **D.P. Swaney**, B. Hong, J. Wang, Y. Wang, and Z.-L. Wang. 2014. Estimation of watershed hydrologic processes in arid conditions with a modified watershed model. *Journal of Hydrology*. 519(d):3550-3556. doi: <http://dx.doi.org/10.1016/j.jhydrol.2014.10.063>

Gao, W., R.W. Howarth, **D.P. Swaney**, B. Hong, H.C. Guo. 2015. Enhanced N input to Lake Dianchi Basin from 1980 to 2010: Drivers and consequences. *Science of the Total Environment*. 505:376–384. DOI: 10.1016/j.scitotenv.2014.10.016

Swaney, D.P., B. Hong, A. Paneer Selvam, R.W. Howarth, R. Ramesh, R. Purvaja. 2015. Net Anthropogenic Nitrogen Inputs and Nitrogen Fluxes from Indian Watersheds: an Initial Assessment. *Journal of Marine Systems*. 141:45-58. Doi:10.1016/j.jmarsys.2014.09.004

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Sha, J., Li, Z., **Swaney, D.P.**, Hong, B., Wang, W. and Wang, Y. 2014. Application of a Bayesian watershed model linking multivariate statistical analysis to support watershed-scale nitrogen management in China. *Water Resources Management*. 28:3681–3695 DOI: 10.1007/s11269-014-0696-x. Published online: 7 June 2014.

Levin, L.A, K.-K. Liu, K.-C. Emeis, D. L. Breitburg, J. Cloern, C. Deutsch, M. Giani, A. Goffart, E. E. Hofmann, Z. Lachkar, K Limburg, S.-M. Liu, E. Montes, W. Naqvi., O. Ragueneau, C. Rabouille, S. K. Sarkar, **D. P. Swaney**, P. Wassman, K. F. Wishner. 2014.

Comparative biogeochemistry-ecosystem-human interactions on dynamic continental margins. *Journal of Marine Systems*. 141: 3-17. DOI: 10.1016/j.jmarsys.2014.04.016. Published online: 3 June 2014.

Gao, W., R. W. Howarth, B. Hong, **D. P. Swaney**, H. C. Guo. 2014. Estimating net anthropogenic nitrogen inputs (NANI) in the Lake Dianchi Basin of China. *Biogeosciences Discussions*, 11:4123-4150. www.biogeosciences-discuss.net/11/4123/2014/ doi:10.5194/bg-11-4123-2014

Wulff, F., C. Humborg, H.E. Andersen, G. Blicher-Mathiesen, M. Czajkowski, K. Elofsson, A. Fønnesbech-Wulff, B. Hasler, B. Hong, V. Jansons, C.-M. Mörtz, J.C.R. Smart, E. Smedberg, P. Stålnacke, **D. P. Swaney**, H. Thodsen, A. Was and T. Żylicz.. 2014. Reduction of Baltic Sea Nutrient Inputs and Allocation of Abatement Costs within the Baltic Sea Catchment. *Ambio*. 43(1):11-25.

Hong, B., Swaney, D.P. and Howarth, R.W., 2013. Estimating net anthropogenic nitrogen inputs to US watersheds: comparison of methodologies. *Environmental science & technology*, 47(10), pp.5199-5207. <http://pubs.acs.org/doi/abs/10.1021/es303437c>

Sha, J., M. Liu, D. Wang, **D.P. Swaney**, and Y. Wang. 2013. Application of the ReNuMa model in the Sha He river watershed: Tools for watershed environmental management. *Journal of Environmental Management*. 124:40-50, ISSN 0301-4797, 10.1016/j.jenvman.2013.03.030.

Limburg, K.E., **D. P. Swaney**, and M.H. Hall. 2012. Temporal and spatial dynamics of a "Rust-Belt" urban stream: Metabolic and water quality responses to hardened land. *Urban Ecosystems*. Published online: DOI 10.1007/s11252-012-0273-0

Swaney, D. P., Hong, B., C. Ti, R.W. Howarth and C. Humborg. 2012. Net anthropogenic nitrogen inputs to watersheds and riverine N export to coastal waters: a brief overview. *Current Opinion in Environmental Sustainability*. 4:1-9. <http://dx.doi.org/10.1016/j.cosust.2012.03.004>

Hong, B., **D. P. Swaney**, C.-M. Mörtz, E. Smedberg, H. Eriksson Hägg, C. Humborg, R. W. Howarth, and F. Bouraoui. 2012. Evaluating regional variation of net anthropogenic nitrogen and phosphorus inputs (NANI/NAPI), major drivers, nutrient retention pattern and management implications in the multinational areas of Baltic Sea basin. *Ecological Modelling*. 227:117-135. <http://dx.doi.org/10.1016/j.ecolmodel.2011.12.002>

Swaney, D. P., C. Humborg, K. Emeis, A. Kannen, W. Silvert, P. Tett, R. Pastres, C. Solidoro, M. Yamamuro, Y. Hénocque, R. Nicholls. 2012. Five critical questions of scale for the coastal zone. *Estuarine Coastal and Shelf Science*. 96(1):9-21 Available online: doi:10.1016/j.ecss.2011.04.010

Howarth, R.W., **D.P. Swaney**, G. Billen, J. Garnier, B. Hong, C. Humborg, P. Johnes, C.-M. Mörtz, and R.M. Marino. 2012. Nitrogen fluxes from large watersheds to coastal ecosystems controlled by net anthropogenic nitrogen inputs and climate. *Frontiers in Ecology and the Environment*. 10(1): 37-43. DOI:10.1890/100178

Swaney, D.P., Santoro, R., Howarth, R.W. and Donaghy, K. 2011. Historical changes in the food and water supply systems of the New York Metropolitan Area. *Regional Environmental Change*. DOI: 10.1007/s10113-011-0266-1

Hägg, H.E., C. Humborg, **D.P. Swaney**, and C.-M. Mörrth. 2011. Riverine nitrogen export in Swedish catchments dominated by atmospheric inputs. *Biogeochemistry*. DOI 10.1007/s10533-011-9634-7

Galante, T. E., T. R. Horton, and **D.P. Swaney**. 2011. 95% of Spores Fall Within 65cm of the Cap- A Field and Modeling Based Study. *Mycologia*. 103(6):1175–1183. DOI: 10.3852/10-388

Hong, B., **Swaney, D.P.**, Howarth, R.W. 2011. A toolbox for calculating net anthropogenic nitrogen inputs (NANI). *Environmental Modelling & Software* 26, 623-633. doi:10.1016/j.envsoft.2010.11.012

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Giordani, G., M. Austoni, J. M. Zaldívar, **D. P. Swaney** and P. Viaroli. 2008. Modelling ecosystem functions and properties at different time and spatial scales in shallow coastal lagoons: an application of the LOICZ biogeochemical model. *Estuarine, Coastal and Shelf Science* 77:264-277.

Buddemeier, R.W., S.V. Smith, **D.P. Swaney**, C.J. Crossland and B.A. Maxwell. 2008. Coastal Typology: An integrative "neutral" technique for coastal zone characterization and analysis. *Estuarine, Coastal and Shelf Science* 77:197-205.

Berg, P., **D.P. Swaney**, S. Rysgaard, B. Thamdrup, and H. Fossing. 2007. A fast numerical solution to the general mass-conservation equation for solutes and solids in aquatic sediments. *Journal of Marine Research*. 65(3):317-343.

Mörrth, C.-M., C. Humborg, H. Eriksson, Å. Danielsson, M. Rodriguez Medina, S. Löfgren, **D.P. Swaney** and L. Rahm. 2007. Modelling riverine nutrient transport to the Baltic Sea – A large scale approach. *Ambio* 36:124-133.

Howarth, R.W., **D.P. Swaney**, E.W. Boyer, R.M. Marino, N. Jaworski and C.L. Goodale. 2006. The influence of climate on average nitrogen export from large watersheds in the Northeastern United States. *Biogeochemistry* 79:163-186.

Smedberg, E., C.-M. Mörrth, **D.P. Swaney**, C. Humborg. 2006. Modelling hydrology and silicon-carbon interactions in taiga and tundra biomes from a landscape perspective - Implications for global warming feedbacks. *Global Biogeochemical Cycles*. 20, doi:10.1029/2005GB002567

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S. V. Smith, **D. P. Swaney**, L. Talue-McManus, J. D. Bartley, P. T. Sandhei, C. McLaughlin, V. C. Dupra, C. J. Crossland, R. W. Buddemeier, B. A Maxwell, F. Wulff. 2003. Humans, Hydrology, and the Distribution of Inorganic Nutrient Loading to the Ocean. *Bioscience* 53(3):235-245.

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Swaney, D.P., Howarth, R.W., Butler, T.J., Marino, R.M., and Hinesley, A. In Preparation. Evidence for agricultural contributions to atmospheric ammonia near Skaneateles Lake, New York, from high-resolution back-trajectory calculations. *Atmospheric Environment*.

McIsaac, G.F., Swaney, D.P., Botero-Acosta, A., and Howarth, R. W. In Preparation. Changing Phosphorus Budgets and Riverine TP Yields in Mississippi River Basin Watersheds.

Hu, Minpeng et al. In Preparation. Global nitrogen surplus diverges towards hotspot dominance.

Howarth, R.W., Swaney, D.P., Marino, R. et al. In Preparation. Can High Nitrogen Lead to Toxic Cyanobacteria Blooms in Phosphorus-limited Lakes? A Simulation Model to Explore the Role of Nitrogen in Toxin Production and Reduced Grazing Mortality.

Swaney, D.P., Markley, S., Brown, C., and Boynton, W. In Preparation. Biogeochemical budgets for coastal waters. Chapter 60015 of *Encyclopedia of Ocean Sciences*, Fourth Edition.

Book chapters, reports and non-peer-reviewed contribution

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(pp 575-586) in: Carbon and Nutrient Fluxes in Continental Margins A Global Synthesis Series: Global Change - The IGBP Series. Liu, K.-K.; Atkinson, L.; Quiñones, R.; Talaue-McManus, L. (Eds.) 2010, XXVIII, 744 p.

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Billen, G., J. Garnier and **D.P. Swaney**. 2007. Some highlights of the workshop on integrated budgeting of nitrogen fluxes in regional watersheds: Linking atmospheric, terrestrial, aquatic and coastal Interactions. LOICZ INPRINT 2007/1. April, 2007. pp7-11. LOICZ, Geesthacht, Germany. http://www.loicz.org/public/loicz/newsletters/inprint_2007-1.pdf

Swaney, D.P., K.E. Limburg and K. Stainbrook. 2006. Some Historical Changes in the Patterns of Population and Land Use in the Hudson River Watershed. In: J. Waldman, K.E. Limburg and D. Strayer, (eds.), Hudson River Fishes and their Environment. American Fisheries Society, Bethesda, MD. 365 pp.

Howarth, R.W., R. Marino, **D.P. Swaney**, and E.W. Boyer. 2006. Wastewater and watershed influences on primary productivity and oxygen dynamics in the Lower Hudson River Estuary. In: Levinton, J. S., (ed.) *The Hudson River Ecosystem*. Oxford University Press. 488 pp.

Swaney, D.P. and R.W. Howarth. 2005. The North American Nitrogen Center. LOICZ Newsletter #36. December, 2005. pp. 6-8. LOICZ, Texel, The Netherlands. <http://www.loicz.org/public/loicz/newsletters/number36.pdf>

Smith, S. V., R. W. Buddemeier, F. Wulff, and **D. P. Swaney**. 2005. C, N, P Fluxes in the Coastal Zone. Chapter 3 in: Crossland, C.J.; Kremer, H.H.; Lindeboom, H.J.; Marshall Crossland, J.I.; Le Tissier, M.D.A. (eds). Coastal Fluxes in the Anthropocene. The Land-Ocean Interactions in the Coastal Zone Project of the International Geosphere-Biosphere Programme. Springer-Verlag, Berlin Heidelberg.

Giordani, G., P. Viaroli, **D.P. Swaney**, C.N. Murray, J.M. Zaldivar and J.I. Marshall Crossland (eds). 2005. Nutrient fluxes in transitional zones of the Italian coast., LOICZ Reports & Studies No. 28, ii + 157 pages, LOICZ IPO, Texel, The Netherlands.

Buddemeier, R.W., S.V. Smith, **D.P. Swaney** and C.J. Crossland (eds). 2002. The role of the coastal ocean in the disturbed and undisturbed nutrient and carbon cycles. LOICZ Reports & Studies No. 24, ii + 83 pages, LOICZ, Texel, The Netherlands.

Okubo, A., J.A. Ackerman and **D.P. Swaney**. 2002. Passive Diffusion in Ecosystems. Chapter 3 in: Okubo, A. and S. A. Levin (eds). Diffusion and Ecological Problems, Revised Edition. Springer, New York.

Buddemeier, R.W., C.J. Crossland, B.A. Maxwell, S.V. Smith, **D.P. Swaney**, J.D. Bartley, G. Misgna, C. Smith, V.C. Dupra and J.I. Marshall Crossland (eds). 2002. LOICZ/UNEP Regional Synthesis Workshops: Australasia-Asia, the Americas, Africa-Europe: Summary report and compendium. LOICZ Reports & Studies No. 22. LOICZ, Texel, The Netherlands.

Howarth, R.W., N. Jaworski, **D.P. Swaney**, A. Townsend, and G. Billen. 2000. Some Approaches for Assessing Human Influences on Fluxes of Nitrogen and Organic Carbon to Estuaries. In: J. Hobbie (ed.), Estuarine Synthesis: The Next Decade. Island Press, Washington D.C.

Limburg, K.E., **D.P. Swaney** and D.L. Strayer. 2000. River Ecosystems, In: S.A. Levin (ed.) The Encyclopedia of Biodiversity. Academic Press, New York.

Ittekkot, V., L. Rahm, **D.P. Swaney**, and C. Humborg. 2000. Perturbed Silicon Cycle Discussed. EOS Trans. AGU. 81(18):198-200.

Swaney, D.P., W-L. Kuo, D. A. Weinstein, F. Tsai, C. Pelkie, S. DeGloria, , C. Mohler, T. Steenhuis, C. McCulloch, 1996. "Response of a Watershed Model to Varying Spatial Landscape Characteristics", in H.T. Mowrer, ed., Proceedings of the 2nd International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences, May 21-23, 1996, Fort Collins, CO.

Woodbury, P. B., R. M. Beloin, **D. P. Swaney**, B. E. Gollands, D. A. Weinstein and J. Laurence The ECLPSS environment for developing spatial ecological models using reusable components. EPA Final Report. Assistance Agreement No. R 825208-01-0. Boyce Thompson Institute, Ithaca, NY.

Boyer, E.W., C.J. Post, **D.P. Swaney**, D.R. Bouldin, and S.D. DeGloria. 1999. Hydrology and nitrogen dynamics in a tributary of Cayuga Lake. In: A symposium on environmental research in the Cayuga Lake watershed, Cornell University, October 12, 1999.

Swaney, D. P., W.-L. Kuo, D. A. Weinstein, C. Mohler, S. DeGloria, C. Pelkie, F. Tsai, T. S. Steenhuis, and C. E. McCulloch, 1996. Response of a watershed model to varying spatial landscape characteristics, in Proceedings of Spatial Accuracy Assessment in Natural Resources and Environmental Sciences: Second International Symposium, edited by H. T. Mowrer, R. L. Czaplewski, and H. Hammre, pp. 65-72, U.S. Dep. of Agric. General Technical Report RM-GTR-277. Fort Collins, Colo.

Classroom Lectures

Guest Lecturer: “Linear Programming & Optimization for Environmental Problems”, in “Quantitative Modeling & Analysis”, EFB 796, K.E. Limburg, SUNY ESF, Syracuse, NY. March 24, 2010.

Visiting Scholar, Erasmus Mundus Project, University of Cadiz. Cadiz, Spain. Series of three lectures plus computer modeling workshop in the module on “Nutrient accounting and nutrient budgets in coastal waters”, April 13-17, 2009.

Guest Lecturer: “Diffusion and diffusive processes in ecological modeling”, in “Topics in mathematical ecology and ecological modeling”, EFB 796, K.E. Limburg, SUNY ESF, Syracuse, NY. February 15, 2005.

Guest Lecturer: The LOICZ approach to analyzing nutrient budgets of coastal estuaries in “Watershed Ecology” K.E. Limburg and E.W Boyer, SUNY ESF, Syracuse, NY. May, 2001.

Guest Lecturer: Nutrient budgets of Coastal Estuaries in “Watershed Ecology” K.E. Limburg and E.W Boyer, SUNY ESF, Syracuse, NY. May, 2000.

Guest Lecturer: Chaos in simple ecological models, in “Introduction to Ecological Modelling,” Dept of Systems Ecology, Stockholm University, Stockholm, Sweden. Spring, 1999.

Conference Presentations, lectures, workshop participation, etc.

Session Co-convenor (with Roxane Maranger, Nandita Basu and Estella Romero). Advances in nutrient accounting approaches for management of inland and coastal waters: concepts, methods and applications. Session SS010 of the ASLO-SIL 2026 Joint Meeting, Montreal, Quebec, CA, May 12-15, 2026

Poster Presentation: Decadal-Scale Regional Variations of Net Anthropogenic Nitrogen and Phosphorus Inputs (NANI and NAPI) across the Continental US: 1987-2022. **Swaney, D.P.**, R.W. Howarth. ASLO-SIL 2026 Joint Meeting, Montreal, Quebec, CA, May 12-15, 2026.

Session Co-convenor (with Jana Compton, Xin Zhang, Peter Groffman and Meredith Brehob). Quantifying Nitrogen and Phosphorus Budgets for Sustainable Nutrient Management. Sessions GC51U and **GC088-II** of the AGU Fall Meeting, New Orleans, LA, December 15-19, 2025.

Session Co-chair (with Jana Compton, Xin Zhang, Sarah Stackpoole and Meredith Brehob). Quantifying Nutrient Budgets for Sustainable Nutrient Management. Sessions **GC088-I** and GC53M of the AGU Fall Meeting, Washington DC, December 9-13, 2024.

Co-Convener (with Gretchen Oelsner) of AGU pod meetings on Urban Nutrient Budgets and Atmospheric Nutrient Budgets. AGU Fall Meeting, Washington DC, December 11 and 12, 2024.

Coauthor of presentation (with **Greg McIsaac**, Bob Howarth and Alejandra Botero-Acosta): Changes in Terrestrial N and P Inputs to and Riverine Outputs from Watersheds in the Mississippi Atchafalaya River Basin 2000-2022. AGU Fall Meeting, Washington DC,

December 13, 2024.

Workshop Organizer. Nutrient inventories and fluxes across North America: methods and applications. Workshop W04 of the ASLO 2024 Aquatic Sciences Meeting, Madison, WI, June 2-7, 2024

Poster Presentation: Regional variation of net anthropogenic nitrogen and phosphorus inputs (NANI and NAPI) across the continental US: 1987-2022. **Swaney, D.P.**, R.W. Howarth. ASLO 2024 Aquatic Sciences Meeting, Madison, WI, June 2-7, 2024.
https://www.research.howarthlab.org/NANI/NANIdatasets/Swaney_and_Howarth_2024_ASLO_Poster_v05.pdf

Session Co-chair (with Estela Romero and Josette Garnier). Watershed-Based Nutrient Accounting: Biogeochemical Connections From Catchments to Coastal Waters. June 4-9, 2023. Session SS028 of the ASLO 2023 Aquatic Sciences Meeting, Palma de Mallorca, Spain.

Poster Presentation: Contrasts in regional variation of net anthropogenic nitrogen and phosphorus inputs (NANI and NAPI) across the continental US: 1987-2017
 Swaney, D.P., R. W. Howarth. ASLO 2023 Aquatic Sciences Meeting, Palma de Mallorca, Spain. June 4-9, 2023.
https://www.research.howarthlab.org/NANI/NANIdatasets/Swaney_and_Howarth_2023_ASLO_poster_v1.pdf

Poster Presentation (virtual): Regional Variation in Net Anthropogenic N and P Inputs across the US: 1987-2017. **Swaney, D.P.**, R.W. Howarth. AGU Fall Meeting. New Orleans, LA and online. December 13-17, 2021

Session Co-chair (with Michael Seidel, Nicholas Ward, Sairah Malkin, Patricia Medeiros, Estela Romero, Josette Garnier and Wolfgang Ludwig): Biogeochemical cycling from catchments to coastal waters: processes, models and budgets. June 22-27, 2021. Session SS23 of the ASLO 2021 Aquatic Sciences Meeting. June 2021 Virtual Meeting.

Poster Presentation (virtual): Regional variation of net anthropogenic nitrogen inputs (NANI) across the continental US: 1987-2017. **Swaney, D.P.**, R.W. Howarth. ASLO Aquatic Science Meeting. June 25, 2021.

Poster Presentation: Regional variation of Net Anthropogenic Nutrient Inputs in relation to nutrient loading. **Swaney, D.P.**, R.W. Howarth. 25th Biennial Conference of the Coastal and Estuarine Research Federation. 3-7 Nov, 2019. Mobile, AL

Session Co-chair (with Michelle McCrackin): Phosphorus biogeochemistry and cycling. Feb 28th, 2019. Session CS011 of the ASLO 2019 Aquatic Sciences Meeting. February 23-March 1, San Juan, Puerto Rico.

Poster Presentation: Regional variation of net anthropogenic phosphorus inputs (NAPI), crop phosphorus use efficiency (PUE) and related variables across the continental US: 1987-2012.

Swaney, D.P., R.W. Howarth. ASLO 2019 Aquatic Sciences Meeting. February 23-March 1, San Juan, Puerto Rico.

Poster Presentation: Regional Variation of Net Anthropogenic Nutrient Inputs and Cropland Nutrient Use Efficiency across the Continental United States, 1987-2012. **Swaney, D.P.**, R.W. Howarth. AGU 2018 Fall Meeting. December 10-14, Washington, DC

Poster Presentation: Regional variation in NANI and NAPI across the US: 1987-2012. **Swaney, D.P.**, R.W. Howarth. ASLO 2018 Summer Meeting. June 9-15, Victoria, BC, Canada.

Invited Oral Presentation: Net Anthropogenic N & P Inputs (NANI, NAPI): Some recent research and ongoing work. Swaney, D.P. Invited presentation at the Key Laboratory of Watershed Geographic Sciences, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences. April 23, 2018. Nanjing, China.

Poster Presentation: Exploring 2-d otolith multi-element microchemistry maps with cluster analysis software. Swaney, D.P., B. Maxwell, K.E. Limburg, Y. Heimbrand. 6th International Otolith Symposium, 2018. 15-20 April, 2018. Keelung, Taiwan.

Poster Presentation: Projected impacts of climatic change on seasonal variation of hydrology in the Hudson River. **Swaney, D.P.**, R.W. Howarth. 24th Biennial Conference of the Coastal and Estuarine Research Federation. 4-8 Nov, 2017. Providence, RI

Poster Presentation: Anthropogenic phosphorus (P) inputs to a river basin and their impacts on P fluxes along its upstream-downstream continuum. Zhang, W., D.P Swaney, B. Hong, and R.W.Howarth. 2017. Geophysical Research Abstracts. Vol. 19, EGU2017-2701-1, 2017 EGU General Assembly 2017. 27 Apr, 2017. Vienna, Austria.

Poster Presentation: Hydrological Impacts of IPCC-Projected Climatic Change on the Hudson River and its Estuary. **Swaney, D.P.**, R.W. Howarth. ASLO 2017 Aquatic Sciences Meeting. 26 Feb–3 Mar, 2017. Honolulu, HI.

Invited participant: Future Earth Coasts and European Space Agency Coastal Thematic Platform workshop on LOICZ Budgets and Earth Observation Data. MaREI Centre, Environmental Research Institute, University College, Cork. 1-3 November, 2016. Cork, Ireland.

Poster Presentation: Projected impacts of climatic change on Hudson River hydrology. **Swaney, D.P.**, B. Hong, and R. W. Howarth. ASLO 2016 Summer Meeting. 5–10 June, 2016. Santa Fe, NM.

Invited Oral Presentation: “The Role of the Mohawk in Hudson River Nutrient Dynamics”. **Swaney, D.P.**, B. Hong, and R. W. Howarth. 2016 Hudson River Symposium. The Hudson River Estuary & Mohawk River: "The Coming Together of the Waters", Hudson River Environmental Society, May 4th, 2016, SUNY New Paltz, New Paltz, NY.

Invited Oral Presentation: “Nutrient accounting in coastal waters and watersheds: linkages and

applications”. **Swaney, D.P.** 23rd Biennial Conference of the Coastal and Estuarine Research Federation, November 8-12, 2015. Portland, OR.

Poster Presentation: A toolbox for estimating regional nitrogen and phosphorus inputs to US watersheds. B. Hong, **Swaney, D.P.**, and R. W. Howarth. 23rd Biennial Conference of the Coastal and Estuarine Research Federation, November 8-12, 2015. Portland, OR.

Invited Participant: Manure management in the Baltic Sea catchment. June 7 - June 15, 2015, Baltic Sea Centre, Stockholm University. Stockholm, Sweden.

Invited Oral Presentation: Trends in Anthropogenic N Inputs to the Hudson River Watershed”. Swaney, D.P., B. Hong, and R. W. Howarth. 2014 Hudson River Symposium: “Watershed Influences in a Changed World”, Hudson River Environmental Society, May 7th, 2014, SUNY New Paltz, New Paltz, NY.

Session Organizer: Nutrient Fluxes and Nutrient Accounting in Coastal Catchments and Water Bodies: Methods and Application. November 5-6, 2013. 22nd Biennial Conference of the Coastal and Estuarine Research Federation, November 4-7, 2013. San Diego.

Oral Presentation: Net anthropogenic nitrogen inputs to major Indian watersheds. **D.P. Swaney**, B. Hong, P. Selvam, R.W. Howarth, R.Ramesh, P. Ramachandran. 22nd Biennial Conference of the Coastal and Estuarine Research Federation, November 4-7, 2013. San Diego.

Poster Presentation: Modelling hydrology and nutrient fluxes in the Hudson-Mohawk Basin. **Swaney, D.P.**, B. Hong, and R. W. Howarth. Hudson River Environmental Society Conference, “Hudson River Science Symposium: State of Hudson River Science”, April 24th, 2013, SUNY New Paltz, New Paltz, NY.

Invited Oral Presentation: Net Anthropogenic Nitrogen Inputs and Nitrogen Fluxes from Watersheds. **D.P. Swaney**, B. Hong, R. W. Howarth, and R. Ramesh. IMBER Imbizo III Conference, Goa, INDIA, January 30, 2013

Poster Presentation: Net Anthropogenic Nitrogen Inputs and Nitrogen Fluxes from Watersheds. **D.P. Swaney**, B. Hong, R. W. Howarth, and R. Ramesh. IMBER Imbizo III Conference, Goa, INDIA, 28-31 January 2013

Workshop Co-Organizer (with Christoph Humborg): Stockholm University/Cornell University workshop on "Understanding temporal trends in nutrient and carbon fluxes to coastal oceans: Toward a linking of different modeling approaches.” October 16-18, 2012, Cornell University, Ithaca, New York

Poster Presentation: Patterns of Net Anthropogenic N and P inputs to the Hudson-Mohawk Basin, **Swaney, D.P.**, B. Hong, and R. W. Howarth. Hudson River Environmental Society Conference, “CLEAN WATER ACT AT 40: FACING THE FUTURE”, May 7th, 2012, Vassar College, Poughkeepsie, NY

Invited Lecture: Heritage Lecture at LOICZ 22nd SSC Meeting in Yantai, China, 08-10 September 2011, “Reflections on Some Human Dimensions of Coastal Nutrient Fluxes”, available online at: http://www.loicz.org/mediacentre/heritage_lectures/index.html.en

Special Session Convener: LOICZ Open Science Meeting, Special session B1 on Nutrient Accounting in Coastal Waters and Watersheds, 12-15 September, 2011, Yantai, China.

Poster Presentation: Nutrient budgets and Nutrient accounting in Coastal Waters and their Watersheds, **D.P. Swaney**, B. Hong, and R. W. Howarth LOICZ Open Science Meeting, Special session B1 on Nutrient Accounting in Coastal Waters and Watersheds, 12-15 September, 2011, Yantai, China

Invited participant: Hypoxia, nutrient and fisheries workshop at the 2011 CERF meeting in Daytona Beach, Florida (organized by Denise Breitburg), 6 November, 2011

Poster Presentation: Assessment of regional variation of drivers of watershed nitrogen export to coastal waters using SPARROW and NANI, **D.P. Swaney**, B. Hong, Alexander, R.B., Brakebill, J.W., Smith, R.A., Howarth, R.W. 2011 CERF meeting, November 6-10, 2011, Daytona Beach, Florida.

Session Organizer: Nitrogen budgets and nitrogen accounting methods and applications, N2010 Meeting, New Delhi, India, December 3-7, 2010.

Poster Presentation: Nutrient budgets and nutrient accounting in coastal waters and their Watersheds. **D.P. Swaney**, B. Hong, and R. W. Howarth. N2010 Meeting, New Delhi, India, December 3-7, 2010.

Invited Participant: Linking Nitrogen, Hypoxia, Fish and Fisheries, 29 June – 1 July 2010, Smithsonian Environmental Research Center, Edgewater, MD.

Session Organizer: Nutrient budgets and nutrient accounting for coastal waters, 2009 Coastal and Estuarine Research Federation meeting, November, 2009.

Poster Presentation: Nutrient Accounting in Coastal Waters and Watersheds: Linkages and Applications. **D.P. Swaney**, B. Hong, and R. W. Howarth 2009 Coastal and Estuarine Research Federation meeting, November, 2009.

Invited participant: Workshop on Linking Nutrients, Hypoxia, Fisheries, and Fishes. Smithsonian Environmental Research Center, Edgewater, MD. September 2009.

Invited Participant: Workshop on Environmental Imprints of Cities, University of Paris, Paris, France, September, 2009.

Session Co-Organizer (with G. Giordani): Nutrient budgets and nutrient accounting for coastal waters, 2009 ASLO Aquatic Sciences Meeting, Nice, France. January, 2009.

Workshop co-organizer (with D. Breitburg, K. Limburg): Nitrogen, Hypoxia and Fishes: Moving Beyond Fisheries Data to Understand Effects on Upper Trophic Levels in Estuaries and Semi-Enclosed Seas, 2009 ASLO Aquatic Sciences Meeting, Nice, France, 27 January, 2009

Invited participant: Workshop on Coastal Nutrient Budgeting: The LOICZ-Approach, 10 – 12 September 2008, Chennai, India

Poster Presentation: Estimating nitrogen fluxes from large watersheds with the Regional Nutrient Management Model (ReNuMa). B. Hong, **D.P. Swaney**, and R. W. Howarth. Presented at the 4th IGBP Congress, Cape Town, South Africa, May 5-9, 2008.

Poster Presentation: Biofuels: Environmental Consequences and Interactions with Changing Land Use. R. W. Howarth, R.L. Santoro and **D.P. Swaney**. Presented at the 4th IGBP Congress, Cape Town, South Africa, May 5-9, 2008.

Invited Participant: LOICZ Typology Workshop, Portsmouth, NH, 28-31 March, 2008.

Workshop Organizer: LOICZ Nutrient Budget Methodology and Applications, Providence, Rhode Island, November 9-10, 2007

Oral Presentation: LOICZ Budgets: methodology and applications, 2007 Estuarine Research Federation Meeting, Providence RI, November, 2007.

Session Organizer: Nutrient Budgets for Coastal Waters: Methodologies and Applications, 2007 Estuarine Research Federation Meeting, Providence RI, November, 2007.

Session Co-Organizer: Watershed-based Nutrient Accounting: Coupling Catchments to Coastal Waters, 2007 Estuarine Research Federation Meeting, Providence RI, November, 2007.

Oral Presentation: Uncertainty analysis of NANI methodology. D.P. Swaney and R.W. Howarth. Presented at N2007 meeting, Costa do Sauipe, Brazil, October 1-5, 2007.

Invited Participant: Dynamics and Vulnerability of River Delta Systems - A Scoping Workshop, CSDMS/INSTAAR, University of Colorado, Boulder, CO, September 25-28, 2007.

Invited Participant: ESF-NINE/LOICZ-sponsored workshop On Integrated Budgeting Of Nitrogen Fluxes In Regional Watersheds: Linking Atmospheric, Terrestrial, Aquatic And Coastal Interactions, University Pierre and Marie Curie, Paris, France. January 14-16, 2007

Workshop session chair: “What are the effects of changes to the flows of freshwater and materials to estuaries and shelf seas?” LOICZ Minisymposium, Geesthacht, Germany. 14 June 2006.

Presentation: Tributary-Estuary Linkages: Fish. K.E. Limburg, L.Machut, K. Stainbrook, and D.P. Swaney. Turtles to Tidewater: The Hudson River estuary and its watershed Workshop, Institute for Ecosystems Studies, Millbrook, NY, March 16, 2006.

<http://hudsonriverestuary.pbwiki.com/Workshop>

Invited Talk: The Baltic Sea: Biogeochemical Cycles and their Management. LOICZ/UNEP Biogeochemical Budgets of Estuarine and Coastal Systems: Management Interventions Workshop. University of Queensland, Brisbane, Australia. 30 January – 1 February, 2006.

Invited Participant: LOICZ Task Group Meeting. Wissenschaftszentrum, Berlin 06-08 December, 2005.

Poster Presentation: Latitudinal and Temporal Changes in Discharge and Nitrogen Fluxes from Large Watersheds in the Northeastern United States: An Application of ReNuMa. **D.P. Swaney**, R. W. Howarth, A.E. Galford, R.M. Marino and E.W. Boyer. 18th Biennial Conference of the Estuarine Research Federation, Norfolk, VA. 17-21 October 2005.

Poster Presentation: The North American Nitrogen Center. A. Townsend, R. W. Howarth, D.F. Boesch, D. Scavia and **D.P. Swaney**. 18th Biennial Conference of the Estuarine Research Federation, Norfolk, VA. 17-21 October 2005.

Invited talk: Water quality and nutrient fluxes. Presentation to the South-North Water Diversion Project, Beijing, China, September 2, 2005.

Invited talk: Water quality and nutrient fluxes. Presentation to the Ministry of Water Resources, Beijing, China, September 1, 2005.

Invited talk: Water quality and nutrient fluxes. Presentation to the Fen River Management Committee, TaiYuan, China, August 27, 2005.

Session Convenor: Nutrient budgets and Typology & Datasets sessions. Land-Ocean Interactions in the Coastal Zone LOICZ II Inaugural Open Science Meeting, 27-29 June 2005. Egmond aan Zee, Netherlands

Poster Presentation: Modelling discharge and nitrogen fluxes from large watersheds in the northeastern United States. **Swaney, D.P.**, R. W. Howarth, A.E. Galford, E.W. Boyer, C.L. Goodale, and R. M. Marino. 2005 Summer meeting of the American Society of Limnology and Oceanography, June 19-24, 2005. Santiago de Compostela, Spain.

Invited talk: How to cut some corners without cheating nature (What is really important in drainage basin modelling?). Presentation at the MARE Workshop on Large Scale Modeling of Nutrient Fluxes in Watersheds – Implications for Management, Sigtuna, Sweden, January 17-19, 2005.

Poster Presentation: Toward a Model-Based System of Estuarine Classification. **Swaney, D.P.**, R. W. Howarth, R. M. Marino, D. Scavia, M. Alber and E.W. Boyer. 2004 Summer meeting of the American Society of Limnology and Oceanography, June 13-18, 2004.

Invited talk: Biogeochemistry in the coastal zone: Lessons from LOICZ (Land Ocean Interaction in Coastal Zone, an IGBP core programme). Presentation at the Department of Environmental Sciences, University of Parma, Parma, Italy, March 29, 2004.

Invited talk: Linking statistical and semi-empirical modeling approaches for watershed-scale nutrient fluxes. Presentation at the Institute of Applied Environmental Research (ITM), Stockholm University, Stockholm, Sweden, March 24, 2004.

Poster Presentation: ReNuMa: A regional scale nutrient loading model for management, **D.P. Swaney**, R. W. Howarth, and E. Boyer. 17th Biennial Conference of the Estuarine Research Federation, Seattle, WA. 14-18 September 2003.

Invited Participant, LOICZ Synthesis & Futures Meeting, Miami, Florida, USA. 29 May-1 June 2002.

Oral presentation: Patterns Emerging from the LOICZ Biogeochemical Budget and Typology Datasets, **D.P. Swaney**, S. V. Smith, and V. Dupra. AGU Ocean Sciences Meeting, Honolulu, HI, 11-15 February 2002

Invited Participant, LOICZ/UNEP Global Synthesis Expert Workshop on Coastal Biogeochemistry and Scaling. Kansas Geological Survey, Lawrence, Kansas, USA. 11-14 November 2001.

Poster Presentation: A review of estimates of air-water exchange of oxygen and their significance for estimating productivity, **D.P. Swaney** and R. Marino 16th Biennial Conference of the Estuarine Research Federation, St Pete Beach, FL. 4-8 November 2001.

Invited Speaker, Special session on Comparative Analysis of Biogeochemical Budgets for Estuaries of the World, 16th Biennial Conference of the Estuarine Research Federation, St Pete Beach, FL. 4-8 November 2001.

Invited Participant, LOICZ-UNEP Workshop On Estuarine Systems of the Polar Region. Department of Systems Ecology, Stockholm University, Stockholm, Sweden. 10-12 September 2001

Invited Participant, LOICZ/UNEP Regional Synthesis Thematic Workshop For The Africa-Europe Regions Coastal Zone Management Centre, RIKZ. The Hague, The Netherlands. 2-5 July 2001

Invited Participant, LOICZ/UNEP Regional Synthesis Thematic Workshop for the Americas Region. Instituto de Investigaciones Oceanologicas, Universidad Autonoma de Baja California, Ensenada, Mexico. 29 April - 2 May, 2001

Invited Participant, LOICZ/ELOISE/UNEP Workshop on Estuarine Systems of the Mediterranean and Black Sea Region, Athens, Greece. 5-8 February 2001

Invited Participant, LOICZ UNEP Regional Synthesis Thematic Workshop for the Asian-Australasian Region, CRC for Coastal Zone, Estuary & Waterways Management. Brisbane, Australia. 14-17 January 2001

Invited Participant, LOICZ Typology workshop on global coastal ecosystems, Chesapeake Biological Laboratory, Solomons, MD. October 16-18, 2000.

Invited Participant, LOICZ/UNEP Workshop on estuarine systems of the sub-saharan African and Western Indian Ocean Region. Zanzibar, Tanzania. September 12-14, 2000.

Invited Participant, LOICZ Typology workshop on clustering methodology. Lawrence, KS. March 4-5, 2000.

Abstract: Post, C.J., S.D. DeGloria, D.A. Haith, and **D.P. Swaney**. 2000. Modeling Biological Nitrogen Fixation and Watershed Nitrogen Dynamics at Various Grid-Cell Sizes. In 2000 Agronomy Abstracts. ASA, Madison, WI.

Poster Presentation: A comparative biogeochemical analysis of coastal Baltic ecosystems, **D.P. Swaney**, O. Savchuk, and C. Humborg. ASLO meeting, Copenhagen, DK., June, 2000.

Invited Participant, LOICZ Open Science meeting and nutrient budget workshop on South American Estuaries, Bahia Blanca, Argentina. November 10-18, 1999.

Invited Participant, International SCOPE/LOICZ Workshop on the Global Silica Cycle, Linköping, Sweden, October 3-5, 1999

Abstract: Post, C., S.D. DeGloria, **D.P. Swaney**, and C.E. Mcculloch. 1998. Modeling spatially-explicit biological nitrogen fixation in agricultural ecosystems. p. 22. In 1998 Agronomy Abstracts. ASA, Madison, WI.

Honors, Awards, etc

Recipient of a “Best Reviewer Award 2021” from the journal, Resources, Environment and Sustainability

Co-recipient of the 2020 “Best Paper in Marine and Coastal Fisheries” award from the American Fisheries Society for the 2019 paper, “Historical and Projected Changes in Spawning Phenologies of American Shad and Striped Bass in the Hudson River Estuary, “ by Christopher Nack, Dennis Swaney and Karin Limburg. Marine and Coastal Fisheries. 11:271–284.

Named a Fellow of the Association for the Sciences of Limnology and Oceanography, 2019

Named an “Associate Editor of Distinction”, 2019, for the journal, Estuaries and Coasts.

Recipient of a 2017 “Excellence in Reviewing” award from the journal, Biogeochemistry

Co-recipient of the 2018 John H. Martin Award from the Association for the Sciences of Limnology and Oceanography (one of 15 co-authors) for the 1996 paper, “Regional nitrogen

budgets and riverine N & P fluxes for the drainages to the North Atlantic Ocean: Natural and human influences,” by Robert Howarth, Gilles Billen, Dennis Swaney, Alan Townsend, Norbert Jaworsky, Kate Lajtha, John Downing, Ragnar Elmgren, Nina Caraco, Thomas Jordan, Frank Berendse, John Freney, Valery Kudeyarov, Peter Murdoch, and Zhu Zhao-Liang. *Biogeochemistry*, 35:75-139.

Society memberships, committees, affiliations, etc

Member, Sigma Xi

Member, American Geophysical Union

Member, Coastal and Estuarine Research Federation

Member, Association for the Sciences of Limnology and Oceanography

Member, American Society of Agricultural and Biological Engineers

Member, Hudson River Environmental Society

Other Professional Activities and Service

Associate Editor, *Estuaries and Coasts*

Member/Corresponding Member, Scientific Steering Committee, Land Ocean Interactions in the Coastal Zone (LOICZ), 2005-2015

Member, Future Earth-Coasts Academy (<http://www.futureearthcoasts.org/>)

Visiting Scientist, Baltic Nest Institute, Stockholm Resilience Centre, Stockholm, Sweden, 2005-2013

Visiting Scientist, Baltic Sea Research Center, Stockholm, Sweden, 2014-2019

Proposal Reviewer, NOAA CHRP program, March, 2016

Member of the USDA/NIFA proposal review panel, September, 2014

Member of the Institutional Review Panel, Center for Tropical Marine Ecology (ZMT), Bremen, Germany, May 2-3, 2013

Member of the Review Panel for a UNDP-supported Project (the Fenhe River Constructed Wetland Project of the Fenhe River Regional Management Committee). Taiyuan, Shanxi Province, China, Aug. 27-30, 2005

Website developer & manager, LOICZ Biogeochemical budget website, Stockholm University, Stockholm, Sweden, 1998-2010 (<http://nest.su.se/mnode>)

Journals for which I have reviewed articles

Acta Biotheoretica

Agriculture, Ecosystems and Environment

Ambio

Applied Geochemistry

Aquaculture

Aquatic Biology

Atmospheric Environment

Biogeochemistry

Biogeosciences

Chemosphere

Comptes Rendus (Geoscience)

Current Opinion in Environmental Sustainability

Ecological Applications
 Ecological Economics
 Ecology
 Ecology and Society
 Ecosystem Health and Sustainability
 Environmental Indicators
 Environmental Pollution
 Environmental Research Letters
 Environmental Research: Water
 Environmental Science and Pollution Research
 Environmental Science and Technology
 Estuarine, Coastal and Shelf Science
 Estuaries & Coasts
 Global Biogeochemical Cycles
 Global Food Security
 Hydrobiologia
 Journal of American Water Resources Assn
 Journal of Geophysical Research - Biogeosciences
 Journal of Theoretical Biology
 Landscape Ecology
 Limnology and Oceanography
 Marine and Freshwater Research
 Marine Ecology Progress Series
 Nature Climate Change
 Nature Geoscience
 Nature Scientific Reports
 Nutrient Cycling in Agroecosystems
 Oecologia
 Ocean-Land-Atmosphere Research
 Resources, Conservation and Recycling
 Resources, Environment and Sustainability
 Science of the Total Environment
 Transactions of the American Society of Agricultural & Biological Engineering
 Urban Water Journal
 Water Research

Other

Publication H-Index: 37 (Web of Science); 49 (Google Scholar)