

Andrew H. Baldwin, Ph.D., P.W.S.
Professor and Extension Specialist
Wetland Ecology and Restoration

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Appointments and Positions

Professor and Extension Specialist, Wetland Ecology and Restoration, University of Maryland, Environmental Science and Technology Dept., College Park (2025 – present)
Environmental Specialist (Intergovernmental Personnel Act detail), U.S. Environmental Protection Agency, Office of Wetlands, Oceans, and Watersheds, Washington, DC (2018)
Professor, University of Maryland, Environmental Science and Technology Dept., College Park, (2015 – 2024)
Associate Professor, University of Maryland, Environmental Science and Technology Dept. (2006-2015) and Biological Resources Engineering Dept. (2002-2006), College Park (2002 – 2015)
Assistant Professor, University of Maryland, Biological Resources Engineering Dept., College Park (1996 – 2002)
Senior Ecologist and Department Manager, ABB Environmental, Inc., Dept. of Applied Ecology, Wakefield, MA (1986 – 1992)
Environmental Engineer, Alliance Technologies, Inc., Bedford, MA (1984 – 1986)

Education

Ph.D. (1996). Louisiana State University, Baton Rouge, LA. Major: Botany, Advisor: Irving Mendelssohn, Dissertation Title: The Role of Seed Banks, Disturbance, and Sea Level Rise in Determining the Plant Community Structure of Oligohaline Coastal Marshes

B.S. (1983), Tufts University, Medford, MA. Double B.S. Degrees, Biology and Engineering (Environmental Focus Area)

Representative Publications (advised students are underlined)

Brooks H, Jacobson S, **Baldwin A**, McCormick M, Kettenring K, Buehl E, Whigham D. Long- term periodic management of *Phragmites australis* maintains native brackish wetland plant communities. *Wetlands Ecology and Management*. 2024; :1-13. issn: 1572-9834

Scott B, **Baldwin A**, Yarwood S. Consequences of organic matter amendments for methane emissions and soil and vegetation development in a restored wetland. *Wetlands Ecology and Management*. 2024; 32(2):171-190.

Keshta A, Yarwood S, **Baldwin A**. Methane emissions are highly variable across wetland habitats in natural and restored tidal freshwater wetlands. *Wetlands*. 2023; 43(5):53.

- Mozdzer T, Meschter J, **Baldwin A**, Caplan J, Megonigal J. Mining of deep nitrogen facilitates *Phragmites australis* invasion in coastal saltmarshes. *Estuaries and Coasts*. 2023; 46(4):998- 1008.
- Allen J, Cornwell J, **Baldwin A**. Contributions of organic and mineral matter to vertical accretion in tidal wetlands across a Chesapeake Bay subestuary. *Journal of Marine Science and Engineering*. 2021; 9(7):751
- Mateu M, Yarwood S, **Baldwin A**. Positive interactions occur between *Phragmites australis* lineages across short term experimental nutrient regimes. *Aquatic Botany*. 2021; 172:103382.
- Delgado P, Hensel P, **Baldwin A**. Understanding the impacts of climate change: an analysis of inundation, marsh elevation, and plant communities in a tidal freshwater marsh. *Estuaries and Coasts*. 2018; 41(1):25-35.
- Helcoski R, Yonkos LT, Sanchez A, **Baldwin AH**. Wetland soil microplastics are negatively related to vegetation cover and stem density. *Environmental Pollution*. 2020 Jan;256:113391.
- Beckett LH, **Baldwin AH**, Kearney MS. Tidal Marshes across a Chesapeake Bay Subestuary Are Not Keeping up with Sea-Level Rise. *PLoS One*. 2016;11(7):e0159753.
- Baldwin A**, Jensen K, Schönfeldt M. Warming increases plant biomass and reduces diversity across continents, latitudes, and species migration scenarios in experimental wetland communities. *Global Change Biology*. 2014; 20(3):835-850.

Participation in the Society of Wetland Scientists

- Presenter at the 9th annual meeting, 1988, in Washington DC
- Chair and member of the Merit and Lifetime Achievement Awards Subcommittee, 2001-2005
- Chair of the Awards Committee, 2005-2008
- President of the SWS Mid-Atlantic Chapter, 2006-2007
- President of the Society of Wetland Scientists, 2009-2010
- Elected Fellow of the Society, 2019
- Professional Wetland Scientist (P.W.S.), No. 2997, 2018-present
- Member of Wetland Ambassadors Committee (2016-2018), Governance Committee (2017-2018), and the Field Trip Committee for the Baltimore annual meeting (2018-2019)
- Lifetime Member

Membership in Other Societies

Society for Ecological Restoration
 Coastal and Estuarine Research Federation
 Maryland Stream Restoration Association
 Association of Natural Resource Extension Professionals