

Danielle Austin Kreeger, Ph.D.

Senior Science Director



PROFESSIONAL SUMMARY

Dr. Danielle Kreeger is an ecologist with more than 35 years of experience working as a research scientist and educator. She currently serves as science director for the Partnership for the Delaware Estuary, where she represents the National Estuary Program's scientific interests by leading and participating in collaborative science and technical teams. Her other responsibilities include charting science, management, and restoration needs in the estuary. In addition to her work for PDE, she is an associate research professor at Drexel University. She mentors graduate students and teaches throughout the region.

In the past 15 years, Dr. Kreeger has been the architect of diverse new initiatives to address key management and restoration gaps related to key freshwater and estuarine natural resources such as tidal marshes, oyster reefs, and freshwater mussel beds. Supported by hundreds of grants, these science-based programs include the Mid-Atlantic Coastal Wetland Assessment, Delaware Estuary Living Shoreline Initiative, Delaware Estuary Benthic Inventory, Freshwater Mussel Recovery Program, Mussels for Clean Water Initiative, and Regional Restoration Blueprint.

CONTACT INFO

Senior Science Director
Partnership for the Delaware Estuary
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Wilmington, DE 19801
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Associate Research Professor
Drexel University
Department of Biodiversity, Earth and Environmental
Science (BEES)
301 Papadakis Integrated Science Building
Philadelphia, PA 19104
Email: Danielle.Austin.Kreeger@Drexel.edu

RESEARCH INTERESTS

- Restoration of freshwater and marine shellfish populations for ecosystem services
- Coastal wetland ecology, monitoring and restoration
- Living shorelines for coastal ecosystem services
- Effects of suspension-feeders on aquatic food webs, energy & nutrient cycling, and water quality
- Physiological ecology of freshwater and marine bivalve mollusks

EDUCATION:

Ph.D., Fisheries Science, Oregon State University, 1992

M.S., Marine Studies (Marine Biology/Biochemistry), University of Delaware, 1986

B.S., Biology (Honors, Marine Biology), Pennsylvania State University 1984

PROFESSIONAL EXPERIENCE:

Science Director, Partnership for the Delaware Estuary, 2006-present

Associate Research Professor, Drexel University, 2005-present

Senior Research Scientist, Academy of Natural Sciences, 2005-2012

Estuary Science Coordinator, Delaware River Basin Commission, 2005-2006

Associate Curator, Wetlands Ecology, Academy of Natural Sciences, 2004-2005

Adjunct Assistant Professor, Dept. of Biosciences, Drexel Univ. 1994-2004

Assistant Curator, Wetlands Ecology, Academy of Natural Sciences, 1997-2003

Senior Scientist, Wetlands Ecology, Academy of Natural Sciences, 1995-1997

Postdoctoral Research Associate, Academy of Natural Sciences, 1993-1995

NSF-NATO Postdoctoral Fellow, Plymouth Marine Laboratory, U.K., 1992-1993

PROFESSIONAL AFFILIATIONS:

Atlantic Estuarine Research Society
Coastal and Estuarine Research Federation
Freshwater Mollusk Conservation Society
National Shellfisheries Association
Society for Ecological Restoration
Society of Wetland Scientists

- Nature-based tactics to enhance ecosystem services at sites of impairment or vulnerability
- Strategic climate and regional restoration planning

EXAMPLE AWARDS AND SERVICE

2016-2018	President, Atlantic Estuarine Research Society
2016-2018	Governing Board, Coastal & Estuarine Research Federation
2016	Special Recognition Award, Water Resources Association
2014	Wetland Warrior Award, State of Delaware
2010-2020	Governing Board, Atlantic Estuarine Research Society
2002-2003	President, National Shellfisheries Association
1998-2001	Treasurer, National Shellfisheries Association
1993, 1994	National Science Foundation grants
1992	National Science Foundation/NATO Postdoctoral Fellowship, United Kingdom
1992	Best Student Presentation Award, National Shellfisheries Association, Pacific Coast
1991	Walter Jones Certificate of Excellence, Sea Grant, Oregon State University
1991	L. B. Reynolds Scholarship, Marine Science Center, Oregon State University
1987	Graduate School Fellowship, Oregon State University
1986	Academic Council Award, best thesis, College of Marine Studies, Univ. of Delaware
1984	Schreyer Scholar (1st year class), Pennsylvania State University

PUBLICATIONS (Peer Reviewed)

- Moody, J. A., S. A. Bouboulis, L. Haaf, E.R. Rothermel and D. A. Kreeger. In Press. The spatiotemporal development of two shellfish populations and their associated filtration capacity on a living shoreline near Milford, Delaware, USA. *Ecol. Engineering* 180. <https://doi.org/10.1016/j.ecoleng.2022.106661>
- Eley-Quirk, T., E. B. Watson, K. Raper, D. Kreeger, B. Paudel, L. Haaf, M. Maxwell-Doyle, A. Padeletti, E. Reilly and D. J. Velinsky. 2022. Relationships between ecosystem properties and sea-level rise vulnerability of tidal wetlands of the U.S. Mid-Atlantic. *Environ. Monitor. Assess.* 194: 292. <https://doi.org/10.1007/s10661-022-09949-y>
- Lathrop, R., J. Moody, R. Sacatelli, L. Haaf, E. Reilly, M. Maxwell-Doyle, D. Kreeger and M. J. Kennish. In Review. Comparison of local and regional scale analyses for modeling coastal marsh change. *Journal of Coastal Research*.
- Haaf, L. S. F. Dymond and D. A. Kreeger. 2021. Principal factors influencing tree growth in low-lying mid-Atlantic coastal forests. *Forests* 12: 1351. <https://www.mdpi.com/1999-4907/12/10/1351#cite>
- Haaf, L., E. B. Watson, T. Eley-Quirk, K. Raper, A. Padeletti, M. Maxwell-Doyle, D. Kreeger and D. J. Velinsky. 2021. Sediment accumulation, elevation change, and the vulnerability of tidal marshes in the Delaware Estuary and Barnegat Bay to accelerated sea level rise. *Estuaries and Coasts*. <https://doi.org/10.1007/s12237-021-00972-9>
- Moody, J. and D. Kreeger. 2021. Spatial distribution of ribbed mussel (*Geukensia demissa*) filtration rates across the salt marsh landscape. *Estuaries and Coasts* 44: 229-241. <https://doi.org/10.1007/s12237-020-00770-9>
- Moody, J.A. M.J. Gentry, S.A. Bouboulis, and D.A. Kreeger. 2020. Effects of substrate (protection and type) on ribbed mussel (*Geukensia demissa*) recruitment for living shoreline applications. *Journal of Coastal Research*, 36 (3), 619-627. <https://doi.org/10.2112/JCOASTRES-D-19-00062.1>
- Moody, J.M. and D.A. Kreeger. 2020. Ribbed mussel (*Geukensia demissa*) filtration services are driven by seasonal temperature and site-specific seston variability. *J. Exp. Mar. Biol. Ecol.* 522: 151237. <https://doi.org/10.1016/j.jembe.2019.151237>
- Kreeger, D. A., C. Gatenby and P. Bergstrom. 2018. Restoration potential of several native species of bivalve molluscs for water quality improvement in mid-Atlantic watersheds. *J. Shellfish Res.* 37(5): 1121-1157. <https://doi.org/10.2983/035.037.0524>

- Harris, C., D. Kreeger, R. Patrick, and J. Palms. 2015. Twenty-five years of environmental concentrations near a nuclear power plant. *Health Physics* 108(5): 503-513.
- Gray, M.W. and D.A. Kreeger. 2014. Monitoring fitness of caged mussels (*Elliptio complanata*) to assess and prioritize streams for restoration. *Aquatic Conservation: Marine and Freshwater Systems* 24: 218-230. <https://doi.org/10.1002/aqc.2395>
- Gatenby, C. M., D. A. Kreeger, M. A. Patterson, M. Marini, and R. J. Neves. 2013. Clearance rates of *Villosa iris* (Bivalvia: Unionidae) fed different rations of the alga *Neochloris oleoabundans*. *Freshw. Mollusk Biol. Conserv.* 16(1); 9-20. <https://doi.org/10.31931/fmbc.v16i1.2013.9-20>
- Whalen, L., D. Kreeger, D. Bushek and J. Moody. 2012. Strategic planning for living shorelines in the Delaware Estuary. *National Wetlands Newsletter* 34(6): 14-19.
- Powell, E.N., D. A. Kreeger, J.M. Morson, D.B. Haidvogel, Z. Wang, R. Thomas and J.E. Guis. 2012. Oyster food supply in Delaware Bay: Estimation from a hydrodynamic model and interaction with the oyster population. *J. Mar. Res.* 70(2-3): 469-503. <https://doi.org/10.1357/002224012802851904>
- Hertler H., A. R. Boettner, G.I. Ramirez-Toro, H. Minnigh, J. Spotila and D. Kreeger. 2009. Spatial variability associated with shifting land use: Water quality and sediment metals in La Parguera, Southwest Puerto Rico. *Marine Pollution Bulletin* 58: 672–678. <https://doi.org/10.1016/j.marpolbul.2009.01.018>
- Bushaw-Newton, K. L., S. Doaty, D. A. Kreeger and D. J. Velinsky. 2008. Utilization of *Spartina*- and *Phragmites*-derived dissolved organic matter by bacteria and ribbed mussels (*Geukensia demissa*) from Delaware Bay salt marshes. *Estuaries and Coasts* 31:694–703. <https://www.jstor.org/stable/40663467>
- Palms, J. M., R. Patrick, D. Kreeger and C. Harris. 2007. Terrestrial and aquatic biomonitors: 25 year study of radionuclide detection. *Health Physics Journal* 92(1): 1-9.
- Patrick, R., J. M Palms, D. Kreeger and C. Harris. 2007. 25 Year study of radionuclides in the Susquehanna River via periphyton biomonitors. *Health Physics Journal* 92(3): 219-225. <https://doi.org/10.1097/01.HP.0000228934.94734.3f>
- Velinsky, D.J., K.L. Bushaw-Newton, D.A. Kreeger, and T.E. Johnson. 2006. Effects of small dam removal on stream chemistry in southeastern Pennsylvania. *J. N. Am. Benthol. Soc.* 25(3): 569-582. [https://doi.org/10.1899/0887-3593\(2006\)25\[569:EOSDRO\]2.0.CO;2](https://doi.org/10.1899/0887-3593(2006)25[569:EOSDRO]2.0.CO;2)
- Hertler, H., J. Spotilla and D.A. Kreeger. 2004. Effects of houseboats on organisms of the La Parguera Reserve, Puerto Rico. *Environmental Monitoring and Assessment* 98: 391-407. <https://doi.org/10.1023/B:EMAS.0000038198.47504.dc>
- Gatenby, C.M., D.M Orcutt, D.A. Kreeger, B.C. Parker, V.A. Jones and R.J. Neves. 2003. Biochemical composition of three algal species proposed as food for captive freshwater mussels. *Journal of Applied Phycology* 15: 1-11. <https://doi.org/10.1023/A:1022929423011>
- Kreeger, D.A., S.S. Kilham, S. Lanka and A. Linder. 2003. Preparation of phosphorus and carbohydrate microcapsules for manipulating dietary C:P Ratio for aquatic suspension-feeders. *Freshwater Biology* 48: 1-17.
- Huang, S.-C., D.A. Kreeger and R.I.E. Newell. 2003. Tidal and seasonal variations in the quantity and composition of seston in a North American, mid-Atlantic saltmarsh. *Estuarine Coastal Shelf Science* 56: 547-560. [https://doi.org/10.1016/S0272-7714\(02\)00205-6](https://doi.org/10.1016/S0272-7714(02)00205-6)
- Huang, S.-C., D.A. Kreeger and R.I.E. Newell. 2003. Seston available as a food resource for the ribbed mussel (*Geukensia demissa*) in a North American, mid-Atlantic saltmarsh. *Estuarine Coastal Shelf Science* 56: 561-571. [https://doi.org/10.1016/S0272-7714\(02\)00206-8](https://doi.org/10.1016/S0272-7714(02)00206-8)
- Hart, D.D. T. E. Johnson, K. L. Bushaw-Newton, R. J. Horwitz, A. T. Bednarek, D. Charles, D. A. Kreeger, and D. J. Velinsky. 2002. Dam removal: challenges and opportunities for ecological research and river restoration. *Bioscience* 52: 669-681. [https://doi.org/10.1641/0006-3568\(2002\)052\[0669:DRCAOF\]2.0.CO;2](https://doi.org/10.1641/0006-3568(2002)052[0669:DRCAOF]2.0.CO;2)
- Bushaw-Newton, K., D.D. Hart, T.E. Johnson, J.E. Pizzuto, J. Egan, M. Keeley, J. Lawrence, J. Thomson, J.T. Ashley, R.J. Horwitz, D. Charles, C. Gatenby, D.A. Kreeger, T. Nightengale, R.L. Thomas, and D.J. Velinsky. 2002. An integrative approach towards understanding dam removal: the Manatawny Creek study. *Journal of the American Water Resources Association* 38(6): 1581-1600. <https://doi.org/10.1111/j.1752-1688.2002.tb04366.x>

- Kreeger, D. A. and R. I. E. Newell. 2001. Seasonal utilization of different seston carbon sources by the ribbed mussel, *Geukensia demissa* (Dillwyn) in a mid-Atlantic salt marsh. *Journal of Experimental Marine Biology and Ecology*. 260: 71-91. [https://doi.org/10.1016/S0022-0981\(01\)00242-8](https://doi.org/10.1016/S0022-0981(01)00242-8)
- M. P. Weinstein and D.A. Kreeger (eds.), 2000. *Concepts and Controversies in Tidal Marsh Ecology*, Kluwer Press, New York, 864 p.
- Kreeger, D. A. and R. I. E. Newell. 2000. Trophic complexity between primary producers and invertebrate consumers in salt marshes. Chapter 11. In: M. P. Weinstein and D.A. Kreeger (eds.), *Concepts and Controversies in Tidal Marsh Ecology*, Kluwer Press, New York, pp. 183-216.
- Hession, W.C., T.E. Johnson, D.F. Charles, D.D. Hart, R.J. Horwitz, D.A. Kreeger, J.E. Pizzuto, D.J. Velinsky, J.D. Newbold, C. Cianfrani, T. Clason, A.M. Compton, N. Coulter, L. Fuselier, B.D. Marshall, and J. Reed. 2000. Ecological benefits of riparian reforestation in urban watersheds: Study design and preliminary results, *Environmental Monitoring and Assessment*, 63 (1):211-222. http://cfpub.epa.gov/si/si_public_comments.cfm
- Lynn, S., S. Kilham, D. Kreeger and S. Interlandi. 2000. Effect of nutrient availability on the biochemical and elemental stoichiometry in the freshwater diatom *Stephanodiscus minutulus* (Bacillariophyceae). *Journal of Phycology* 36: 510-522. <https://doi.org/10.1046/j.1529-8817.2000.98251.x>
- Kilham, S.S., D. A. Kreeger, S.G. Lynn, C.E. Goulden and L. Herrera. 1998. COMBO: a defined freshwater culture medium for algae and zooplankton. *Hydrobiologia* 377: 147-159. <https://doi.org/10.1023/A:1003231628456>
- Kilham, S.S., D.A. Kreeger, C.E. Goulden and S. Lynn. 1997. Effects of nutrient limitation on the biochemical constituents of *Ankistrodesmus falcatus*. *Freshwater Biology* 38: 591-596. <https://doi.org/10.1046/j.1365-2427.1997.00231.x>
- Kilham, S.S., D.A. Kreeger, C.E. Goulden and S. Lynn. 1997. Effects of algal food quality on fecundity and population growth rates of *Daphnia*. *Freshwater Biology* 38: 639-647. <https://doi.org/10.1046/j.1365-2427.1997.00232.x>
- Kreeger, D.A., C.E. Goulden, S.S. Kilham S.G. Lynn, S. Datta and S.J. Interlandi. 1997. Seasonal changes in the biochemistry of lake seston. *Freshwater Biology* 38: 539-554. <https://doi.org/10.1046/j.1365-2427.1997.00233.x>
- Kreeger, D.A. and R.I.E. Newell. 1996. Ingestion and assimilation of carbon from cellulolytic bacteria and heterotrophic flagellates by the mussels *Geukensia demissa* and *Mytilus edulis* (Bivalvia, Mollusca). *Aquatic Microbial Ecology* 11:205-214. <https://doi.org/10.3354/ame011205>
- Kreeger, D. A., A. J. S. Hawkins, and B. L. Bayne. 1996. Use of dual-labeled microcapsules to discern the physiological fates of assimilated carbohydrate, protein carbon, and protein nitrogen in suspension-feeding organisms. *Limnol. Oceanogr.* 41(2): 208-215. <https://www.jstor.org/stable/2838747>
- Langdon, C. J., V. L. Shaffer, P. M. Vance, K. E. Kreeger, D. A. Kreeger and G. A. Chapman. 1996. A 7-day toxicity test for marine pollutants using the Pacific mysid *Mysidopsis intii*. *Environmental Toxicology and Chemistry* 15: 1815-1823. <https://doi.org/10.1002/etc.5620151024>
- Kreeger, D. A., A. J. S. Hawkins, B. L. Bayne and D. L. Lowe. 1995. Seasonal variation in the relative utilization of dietary carbohydrate, protein-carbon and protein-nitrogen by *Mytilus edulis* (L.) *Marine Ecology - Progress Series* 126: 177-184. <https://doi.org/10.3354/meps025181>
- Kreeger, D. A. and C. J. Langdon. 1994. Digestion and assimilation of protein by *Mytilus trossulus* (Bivalvia:Mollusca) fed mixed carbohydrate/protein microcapsules. *Marine Biology* 118: 479-488. <https://doi.org/10.1007/bf00350305>
- Kreeger, D. A. 1993. Seasonal patterns in the utilization of dietary protein by the mussel, *Mytilus trossulus*. *Marine Ecology - Progress Series* 95: 215-232. <https://doi.org/10.3354/meps126177>
- Kreeger, D. A. and C. J. Langdon. 1993. Effect of dietary protein content on growth of juvenile mussels, *Mytilus trossulus* (Gould 1850). *Biological Bulletin* 185: 123-139. <https://doi.org/10.2307/1542136>

- Kreeger, D. A., R. I. E. Newell, and C. J. Langdon. 1990. Effect of tidal exposure on utilization of dietary lignocellulose by the ribbed mussel *Geukensia demissa*. *Journal of Experimental Marine Biology and Ecology* 144:85-100
- Kreeger, D. A., C. J. Langdon, and R. I. E. Newell. 1988. Utilization of refractory cellulosic carbon derived from *Spartina alterniflora* by the ribbed mussel *Geukensia demissa*. *Marine Ecology - Progress Series* 42: 171-179.

EXAMPLE ACCOMPLISHMENTS

- Organizer of the biennial "Delaware Estuary Science & Environmental Summit," 2005-present
 Coordinator, Science and Technical Advisory Committee, Delaware Estuary Program, 2006-present.
 Organizer, 70th Anniversary Meeting of the Atlantic Estuarine Research Society, April 2018, Rehoboth Beach, DE
 Coordinating author and editor for the "Technical Report for the Delaware Estuary and River Basin 2017," Partnership for the Delaware Estuary Report #12-08. 2017.
 Coordinating editor for the "Technical Report for the Delaware Estuary and River Basin 2012," Partnership for the Delaware Estuary Report #12-01. 2012.
 Coordinating editor for the "Climate Change and the Delaware Estuary: Three Case Studies in Vulnerability Assessment and Adaptation Planning." Partnership for the Delaware Estuary, PDE Report No. 10-01. 117 pp. 2010.
 Coordinating author for the "State of the Delaware Estuary 2008," Partnership for the Delaware Estuary Report #08-01. 2008.
 Coordinating author for the "White paper on the status and needs of science in the Delaware Estuary," Partnership for the Delaware Estuary Report #06-01. 2006.
 Organizer, 97th Annual Meeting of the National Shellfisheries Association, April 2005, Philadelphia
 President (2002-2003) and Treasurer (1998-2002), National Shellfisheries Association
 Co-organizer, Program Chair for International Conference, "Concepts and Controversies in Tidal Marsh Ecology," Vineland, NJ. 1998
 Co-editor of special issue on Marsh Ecology in the journal *Wetland Ecology and Management*, 1998.
 Academic advisor for 1 postdoctoral fellow, 3 Ph.D. students, 14 M.S. students

EXAMPLE TEACHING EXPERIENCE

- 2010-present Delaware Estuary Ecosystem, Guest Lecturer, University of Pennsylvania
 2008-present Delaware Estuary Coastal Wetlands, Guest Lecturer, University of Pennsylvania
 2013, 2014 Wetland Ecology, Drexel University
 2004 Ecology, Arcadia University
 2004 Conservation Biology, Arcadia University
 2003 Techniques in Environmental Assessment, Drexel University
 2003-present Wetland Ecology, Partnership for the Delaware Estuary
 1995, 1997, 2000, 2002 Invertebrate Zoology, Drexel University
 1997-2001 Aquatic Ecology, University of Pennsylvania
 2000 Marine Ecology, Drexel University
 2001 Marine Biology, Drexel University
 1992 Aquaculture, Oregon State University
 1991 Marine Biology, Oregon State University
 1990 Invertebrate Zoology, Oregon State University
 1985 Marine Animal Physiology, University of Delaware
 1993-present Student advisor for undergraduate, graduate (7 M.S and 3 Ph.D.) students at Drexel University; Committee member for Rutgers University, Temple University, Delaware State University, University of Delaware, University of Maryland, University of Pennsylvania, State University of New York, and University of New Brunswick, Canada

EXAMPLES OF PROFESSIONAL SERVICE

Societal service:

Atlantic Estuarine Research Society
President, 2016-2018
President-Elect, 2015-2016
Secretary, 2013-2015
Member-at-Large, 2010-present

Coastal and Estuarine Research Federation
Chair, Affiliate Societies Committee, 2018-2020
Governing Board Member, 2016-2018
Student Committee Co-Chair, 2008-2009

National Shellfisheries Association
President, President-Elect, Past-President, 2001-2005
Treasurer, 1998-2001
Chair, Student Awards Committee, 1995-1998
Membership Committee, 1993

Lead or co-organizer for Delaware Estuary Science & Environmental Summit, for >300 participants (2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021)

Organizing Committee, Atlantic Estuary Research Society meetings (2007, 2010, 2012, 2014, 2016, 2017, 2018, 2019)

Member, Mollusk Subcommittee, Pennsylvania Biological Survey, PADEP, 2004-present

Organizer for the 97th meeting of the National Shellfisheries Association in Philadelphia, 2005

Mentor and instructor, Women in Natural Sciences, Academy of Natural Sciences (2000-2003)

Organizer of 8 special international sessions at National Shellfisheries Association meetings (2000-2013)

Co-organizer for the International Conference titled "Concepts and Controversies in Tidal Marsh Ecology," >400 participants from 10 countries, Vineland, NJ (1998)

Co-editor (with M. A. Weinstein) of issue of Wetland Ecology and Management (1998)

Co-organizer of special international meeting of the National Shellfisheries Association (1996)

Organizer of a two-day Marsh Ecology Workshop at the Academy of Natural Sciences (1995)

Peer reviewer for journals: Estuaries and Coasts, Aquatic Microbial Ecology, Archiv für Hydrobiologie, Biological Bulletin, Comparative Biochemistry and Physiology, Environmental Toxicology and Chemistry, Freshwater Biology, Journal of Experimental Marine Biology and Ecology, Journal of Shellfish Research, Limnology and Oceanography, Marine Biology, Marine Ecology - Progress Series

Peer-reviewer of research proposals; NSF, EPA, NOAA, USDA, Sea Grant, DNREC, Hudson River Foundation

EXAMPLE TECHNICAL REPORTS (of>200)

- Cahoon, D.R., Olker, J.H., Yeates, A.G., Guntenspergen, G.R., Grace, J.B., Adamowicz, S.C., Anisfeld, S., Baldwin, A.H., Barrett, N., Beckett, L., Benzecry, A., Blum, L.K., Burdick, D.M., Crouch, W., Ekberg, M.C., Fernald, S., Grimes, K.W., Grzyb, J., Hartig, E.K., Kreeger, D.A., Larson, M., Lerberg, S., Lynch, J.C., Maher, N., Maxwell-Doyle, M., Mitchell, L.R., Mora, J., O'Neill, V., Padeletti, A., Prosser, D., Quirk, T., Raposa, K.B., Reay, W.G., Siok, D., Snow, C., Starke, A., Staver, L., Stevenson, J.C., and Turner, V. 2019. Hurricane Sandy impacts on coastal wetland resilience: U.S. Geological Survey Open-File Report 2018–1142, 117 p., <https://doi.org/10.3133/ofr20181142>.
- Kreeger, D., J. Moody, E. Watson and M. Chintala . Importance of Ribbed Mussels for Salt Marsh Climate Adaptation and Water Quality Management in Atlantic Estuaries, Geospatial variation of ribbed mussel (*Geukensia demissa*) nutrient removal and vertical marsh building ecosystem services across the salt marsh landscape. PDE Report No. 15-09.
- Kreeger, D., D. Velinsky and R. Thomas. 2015. Analysis of particulate nutrients and seston weights from 2015 Delaware Bay Oyster Stations. Academy of Natural Sciences of Drexel University Report No. 16-01.
- Haaf, L., J. Moody, E. Reilly, A. Padeletti, M. Maxwell-Doyle, D. Kreeger. Factors Governing the Vulnerability of Coastal Marsh Platforms to Sea Level Rise. PDE Report No. 15-08.

- Kreeger, D., J. Moody, M. Katkowski, M. Boatright and D. Rosencrance. 2015. Marsh Futures: use of scientific survey tools to assess local salt marsh vulnerability and chart best management practices and interventions. Partnership for the Delaware Estuary, Wilmington, DE. PDE Report No. 15-03.
- Kreeger and Thomas. 2014. The Re-Introduction of Freshwater Mussels to the Mainstem Skipack Creek. Final report to Lower Salford Township, PA. ANSDU Report No: 14-01. 20 pp.
- Kreeger, D. A. and A. Padeletti. 2013. Monitoring and Assessment of Representative Tidal Wetlands of the Delaware Estuary. Partnership for the Delaware Estuary. Report No. 13-03. 1-144 pp.
- Kreeger, D.A. 2013. Analysis of particulate nutrients and seston weights from 2009 to 2011 at Delaware Bay oyster stations. Academy of Natural Sciences of Drexel University. Final Report to Rutgers University as part of the U.S. Army Corps of Engineers Delaware River and Bay Monitoring Study. August 28, 2013. 40 p.
- Kreeger, D., P. Cole, M. Mills, L. Butler, A. Padeletti, R. Thomas, J. D'Agostino. 2013. Connecting people to aquatic biodiversity: freshwater mussel surveys in Pennsylvania's coastal zone. Final report to the Pennsylvania Coastal Management Program. PDE Report No. 13-02. 65 p.
- Kreeger, D., A. Padeletti and L. Whalen. 2012. Development and Implementation of an Integrated Monitoring and Assessment Program for Tidal Wetlands. PDE Report No. 12-03. 77 p.
- Code, P. And D. Kreeger (eds.) 2012. Technical Report for the Delaware Estuary & Basin. Partnership for the Delaware Estuary. PDE Report No. 12.01. 255 p.
- Kreeger, D.A. and A.T. Padeletti. 2011. The condition of tidal freshwater wetlands in Pennsylvania, 2011. Partnership for the Delaware Estuary, PDE Report No. 11-07. 33 p.
- Kreeger, D., P. Cole, D. Bushek, J. Kraueter, J. Adkins. 2011. Marine Bivalve Shellfish Conservation Priorities for the Delaware Estuary. PDE Report #11-03. 54 p.
- Kreeger, D., J. Adkins, P. Cole, R. Najjar, D. Velinsky, P. Conolly, and J. Kraeuter. June 2010. Climate Change and the Delaware Estuary: Three Case Studies in Vulnerability Assessment and Adaptation Planning. Partnership for the Delaware Estuary, PDE Report No. 10-01. 117 p.
- CCSP, 2009: Coastal Sensitivity to Sea-Level Rise: A Focus on the Mid-Atlantic Region. A report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. James G. Titus, Eric K. Anderson, Donald R. Cahoon, Stephen Gill, Robert E. Thielier, and Jeffress S. Williams (Lead Authors). [D. Kreeger was one of several Contributing authors]. U.S. Environmental Protection Agency, Washington D.C., USA. 790 p.
- Kreeger, D. and J.G. Titus. 2008. Delaware Bay. Section 3.7 In: Background Documents Supporting Climate Change Science Program Synthesis and Assessment Product 4.1: Coastal Elevations and Sensitivity to Sea Level Rise [Titus, J.G. and E.M. Strange (eds.)] EPA 430R07004. U.S. Environmental Protection Agency, Washington, D.C., pp. 242-250. <http://epa.gov/climatechange/effects/coastal/background.html> (report)
- Kreeger, D. and D. Bushek. 2008. Combating Tidal Marsh Erosion with 'Living Shorelines'. Estuary News 19(1): 12-13. http://www.delawareestuary.org/publications/newsletter_articles/fall_2008/table_of_contents.asp (article)
- Academy of Natural Sciences of Philadelphia (ANSP). 2008. 2006-07 San Antonio Bay Oyster Population Health Assessment. Report No. 08-X. Acad. Nat. Sci. Phila. XX pp. (PI's: D. Kreeger and R. Thomas)
- Kreeger, D. 2008. Ecosystem-based Management for Tomorrow's Estuary. Estuary News 18(2): 5-6. http://www.delawareestuary.org/publications/newsletter_articles/winter_2008/table_of_contents.asp (article)
- Partnership for the Delaware Estuary (PDE). 2008. State of the Estuary Report. 2008. Partnership for the Delaware Estuary Report #08-01. 36 pp.
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- Academy of Natural Sciences of Philadelphia (ANSP). 2006. 2004-05 San Antonio Bay Oyster Population Health Assessment. Report No. 06-04. Acad. Nat. Sci. Phila. 98 pp. (PI's: D. Kreeger and R. Thomas)
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- Academy of Natural Sciences of Philadelphia (ANSP). 2005. 2003-04 San Antonio Bay Oyster Population Health Assessment. Report No. 05-05. Acad. Nat. Sci. Phila. 86 pp. (PI's: D. Kreeger and R. Thomas)
- Academy of Natural Sciences of Philadelphia (ANSP). 2005. The Safety Net Program 2003. Radiological and Ecological Studies in the Vicinity of the Susquehanna Steam Electric Station for PPL Susquehanna, LLC. Report No. 05-03F. Acad. Nat. Sci. Phila. 101 pp. (PI's: D. Kreeger, H. Hertler and J. Palms)
- Kreeger, D.A. 2004. Beyond biodiversity: the conservation and propagation of native mussel biomass for ecosystem services. Abstract In: Proceedings of the 2nd Annual Freshwater Mussels of the Pacific Northwest Symposium. Pacific Northwest Native Freshwater Mussel Workgroup, Vancouver WA. Pp. 11-12. http://columbiariver.fws.gov/mwg/mussel2004ws/2004_Proceedings.pdf (abstract)
- Academy of Natural Sciences of Philadelphia (ANSP). 2004. 2002-03 San Antonio Bay Oyster Population Health Assessment. Report No. 04-01. Acad. Nat. Sci. Phila. 80 pp. (PI's: D. Kreeger and R. Thomas)
- Raksany, D., C.M. Gatenby, and D.A. Kreeger. 2003. Seasonal and temporal variability in condition index and tissue biochemistry of *Elliptio complanata*. *J. Shellfish Res.* 22(1): 352. (abstract)
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- Academy of Natural Sciences of Philadelphia (ANSP). 1998-2003 Annual Reports. San Antonio Bay Oyster Population Health Assessment. Reports, Acad. Nat. Sci. Phila. (PI's: D. Kreeger and R. Thomas)
- Academy of Natural Sciences of Philadelphia (ANSP). 1997-2000 Annual Reports. Marsh Ecology Research Program. Report. Acad. Nat. Sci. Phila. . (PI: D. Kreeger)
- Academy of Natural Sciences of Philadelphia (ANSP). 1998. Impact of aquatic vegetation on water quality of the Delaware River Estuary. Report No. 98-5F. Acad. Nat. Sci. Phila. 109 pp. (PI's: D. Velinsky, C. Hession and D. Kreeger)

EXAMLES OF INVITED SEMINARS AND PLENARY PRESENTATIONS

- 2020 Holistic Shellfish Restoration for Cleaner Water. Chesapeake Bay Foundation, Annapolis, MD.
- 2019 The Mussels for Clean Water Initiative and Chesapeake Bay. University of Maryland, Cambridge, MD
- 2019 Restoring Freshwater Mussels to Promote Water Quality. PA Watersheds Conference, State College, PA.
- 2018 Climate Change Adaptation through a National Estuary Program Lens. American Water Resources Association, Philadelphia, PA
- 2018 Can Freshwater Mussels Play a Role in Reducing Pollutant Loads? Chesapeake Bay Foundation, Annapolis, MD.
- 2018 Investing in Nature's Hidden Gardens to Promote Cleaner Water and Healthier Communities. PA Flower Show Water Summit, Philadelphia, PA.
- 2018 Investing in Nature to Promote Cleaner Water and Healthier Communities. American Water Resources Association, Philadelphia, PA
- 2018 Climate resilience in the Delaware Estuary and vicinity. American Water Resources Association, Philadelphia, PA.
- 2018 Investing in nature to promote cleaner water and healthier communities. Rowan University, Glassboro, NJ.
- 2017 Living shorelines for coastal resilience. Briefing to Estuary Caucus, U.S. Congress, Washington, DC
- 2017 Natural infrastructure case study: investing in nature's underdogs to promote cleaner water. University of Pennsylvania, Philadelphia, PA
- 2015 Mid-Atlantic Coastal Wetland Assessment: Overview & Future Efforts. Trenton, NJ
- 2015 Climate resilience in the Delaware Estuary and vicinity. American Water Resources Association, Philadelphia, PA.
- 2015 Enhancing and harnessing nature for climate resilience in the Delaware Estuary. Society of Women Environmental Professionals, Philadelphia, PA
- 2015 Enhancing New Jersey's coastal habitats and benefits: from landscape planning to local projects, NOAA Coastal Resilience Meeting, Avalon, NJ

- 2015 Climate resilience projects in the Delaware Estuary and vicinity. American Water Resources Association, Philadelphia, PA
- 2015 Aquatic Underdogs: How Freshwater Mussels Can Help Save our Great Waters. Wagner Free Institute, Philadelphia
- 2015 Enhancing and harnessing nature for climate resilience in the Delaware Estuary. Plenary for Society of Women Environmental Professionals. Philadelphia.
- 2014 Shellfish Restoration from the Headwaters to the Coast: How Freshwater Mussels Can Help Save our Great Waters. Millersville University, PA
- 2013 Enhancing and harnessing nature for climate resilience in the Delaware Estuary. Plenary for Society for Ecological Restoration, College Park, MD
- 2013 Potential water quality benefits and restoration prospects of freshwater mussels in the tidal Delaware River, World Aquaculture Society, Nashville, TN
- 2013 Bivalve restoration from the headwaters to the coast: How mussels can help save our Great Waters. NOAA Restoration Center, Silver Spring, MD
- 2012 Natural resources and climate change in the Delaware Estuary: assessing vulnerability and fostering adaptation. Pennsylvania Democratic Committee Hearing
- 2011 Climate adaptation in the Delaware Estuary: risks, opportunities and tough choices. Old Dominion University, Norfolk, VA
- 2011 Importance of freshwater inflow for natural resources of the lower Delaware River Basin. National Conference on Ecosystem Restoration. Baltimore, MD
- 2011 Sea-level rise on the dynamic west coast of NJ. Hearing for State of NJ, Trenton, NJ
- 2010 Adapting to climate change: tough choices in the Delaware Estuary. Restore Americas Estuaries, Galveston, TX
- 2010 The Mid-Atlantic Coastal Wetland Assessment: linking tidal wetland status and water quality for New Jersey. New Jersey Water Quality Monitoring Council, Trenton, NJ

- 2010 Oil spill preparedness and mitigation in the Delaware Estuary. American Water Resources Association, Philadelphia PA
- 2010 Restoration and beneficial use of sediments in the Delaware Estuary watershed. American Water Resources Association, Philadelphia PA
- 2010 Climate adaptation in the Delaware Estuary: risks, opportunities and tough choices. Union of Concerned Scientists
- 2009 Healthy Bivalves = Healthy Watersheds: rebuilding bivalve biodiversity, populations and ecosystem services as a basis for ecosystem restoration. Freshwater Mollusk Conservation Society, Baltimore, MD
- 2008 Climate change in an evolving Delaware Estuary. Restore America's Estuaries Conference, Providence, RI
- 2008 Natural capital and ecosystem service valuation as tools to guide restoration and climate adaptation in the Delaware Estuary. Association of National Estuary Programs, New York
- 2008 A science-based regional restoration initiative in the Delaware Estuary. Philadelphia Waterfront Redevelopment Workshop, Pennsylvania Environmental Council, Philadelphia
- 2008 From headwaters to coast: a watershed-based perspective on bivalve natural capital. Society for Conservation Biology and Freshwater Mollusk Conservation Society, Chattanooga, TN.
- 2008 Climate change in an evolving Delaware Estuary. Temple University, Philadelphia, PA
- 2008 Monitoring and Assessment of Tidal Wetlands in the Delaware Estuary. National Water Quality Monitoring Conference. Atlantic City, NJ.
- 2007 Tidal wetlands as a signature aspect of the Delaware Estuary ecosystem. Wetlands and Watersheds meeting, Ocean City, MD.
- 2007 Development of an ecosystem-based science strategy for the Delaware Estuary and its watershed. International Association of Great Lakes Research meeting. State College, PA.
- 2007 Managing and monitoring tidal freshwater marshes of the Delaware Estuary. National Water Quality Monitoring Council meeting. Lafayette, LA.
- 2006 Use conflicts and science needs in the Delaware Estuary: highlights from a recent white paper. Shallow Water Conference, Atlantic City, NJ.
- 2006 Tidal freshwater marsh: a signature trait of the DE Estuary. Shallow Water Conference, Atlantic City.
- 2006 A blueprint for charting and addressing science needs in the DE Estuary. Drexel Univ., Philadelphia.
- 2006 Preparation, content and intended use of the new white paper on science in the Delaware Estuary. Atlantic Estuarine Research Society, Philadelphia, PA.
- 2004 Beyond biodiversity: the conservation and propagation of native mussel biomass for ecosystem services. Freshwater Mussels of the Pacific Northwest Symposium, Vancouver, WA.
- 2002 Rocks with sieves and guts: the hidden effects of freshwater mussels on stream water quality. University of Pennsylvania, Philadelphia, PA.
- 2001 Trophic links in salt marshes: Omnivory by the suspension-feeding bivalve *Geukensia demissa*. Academy of Natural Sciences, Philadelphia, PA.
- 2001 Non-phytoplankton organic matter as a food resource for bivalve suspension-feeders: implications for coastal food webs. University of Washington, Seattle, WA.
- 2001 Trophic links in salt marshes: omnivory by the suspension-feeding bivalve *Geukensia demissa*. State University of New York, Stony Brook, NY.
- 2000 The ribbed mussel - a functional dominant in eastern marshes. Univ. of New Brunswick, St. John, NB.
- 2000 The ecological supremacy of the bivalve suspension-feeder. Univ. of Pennsylvania, Philadelphia, PA.
- 1999 A comparative analysis of the roles of suspension-feeding invertebrates in aquatic biogeochemical cycles. University of Maryland Baltimore County, Baltimore, MD.
- 1998 The salt marsh food web: is it really "detritus-based"? St. Joseph's University, Philadelphia PA.
- 1998 Shifting paradigms in salt marsh trophic ecology. University of Pennsylvania, Philadelphia.

- 1998 Trophic links in salt marshes: relative roles of angiosperms and microphytobenthos as carbon sources for benthic invertebrate consumers. Special International Conference: Concepts and Controversies in Tidal Marsh Ecology, Vineland, NJ.
- 1998 Salt marsh food webs: a revised view of dominant linkages. Drexel University, Philadelphia.
- 1997 Feeding and digestive adaptations for suboptimal diets in suspension-feeders. Temple University, Philadelphia.
- 1997 Feeding and nutritional adaptations in suspension-feeders. Estuarine Research Center, Academy of Natural Sciences, St. Leonard, MD.
- 1997 Recent evidence for omnivory in suspension-feeding bivalves. Haskin Shellfish Laboratory, Rutgers University, Bivalve, NJ.
- 1996 Post-ingestion compensatory responses of bivalves to suboptimal food quality. TROPHEE Workshop, Plymouth, Devon, United Kingdom.
- 1996 Feeding and digestive adaptations for suboptimal food by suspension-feeders. University of Central Florida, Orlando, FL.
- 1996 The ecological importance of suspension-feeder nutrition. Univ. of Scranton, Scranton.
- 1996 Feeding and digestive adaptations for suboptimal food by suspension-feeders. University of Delaware, Lewes, DE
- 1995 Physiological adaptations of suspension-feeding invertebrates for variable diet quality. Drexel University, Philadelphia, PA.
- 1992. Microcapsules: a new tool for studying dietary protein utilization by suspension-feeders. University of Maryland, Cambridge, MD.

EXAMPLE CONTRIBUTED SCIENTIFIC PRESENTATIONS

- 2020 Investing in Living Shorelines to Promote Cleaner Water? Show Me the Data. Delaware Wetland Conference. Wilmington, DE.
- 2019 Investing in Freshwater Mussels Beds for Water Quality Enhancement: The Mussels for Clean Water Initiative. Freshwater Mollusk Conservation Society. Cleveland, OH.
- 2018 Seston Filtration and Restoration Potential of Ribbed Mussels Compared with Other Native Bivalves. National Shellfisheries Association. Seattle, WA.
- 2017 Potential water quality benefits from investments in freshwater mussel beds in the tidal Delaware River. Coastal and Estuarine Research Federation, Providence, RI.
- 2017 Comparison of seston processing rates of diverse freshwater and marine bivalves. Freshwater Mollusc Conservation Society, Cleveland, OH
- 2016 Marsh Futures: assessment and mapping of salt marsh vulnerabilities to guide restoration. Delaware Wetland Conference, Wilmington, DE
- 2016 Coastal wetland projects: site assessment for design and monitoring. Mid-Atlantic Regional Coastal Resilience Workshop, Richmond, VA
- 2015 Water quality benefits of tidal freshwater mussels in Delaware Estuary. Coastal and Estuarine Research Federation, Portland, OR
- 2015 Marsh Futures: assessment and mapping of elevation capital and shoreline erosion to guide coastal wetland projects, Delaware Estuary Science Summit, Cape May, NJ
- 2015 The Delaware Estuary Living Shoreline Initiative: lessons learned and next steps. National Estuary Program Conference, San Juan, PR
- 2014 Ribbed mussels: biofiltration kingpins of the Delaware Basin: but for how long? Atlantic Estuarine Research Society, Stockton College, NJ
- 2014 Variation in coastal wetland condition and stressors among eight watersheds of the Delaware Estuary, Delmarva Wetlands Conference, Dover DE
- 2013 Potential water quality benefits of tidal freshwater mussels in the Delaware Estuary. Coastal and Estuarine Research Federation, San Diego, CA
- 2013 Restoration prospects of freshwater mussels in the Tidal Delaware River for water quality benefits. World Aquaculture Society, Nashville, TN
- 2012 Spatial and temporal variability in oyster food quantity and quality in the Delaware Estuary. National Shellfish Association, Seattle, WA

- 2012 Mussel powered living shorelines for salt marsh erosion control. Restore Americas Estuaries, Daytona, FL
- 2011 Spatial and temporal variability in oyster food quantity and quality in the Delaware Estuary. Coastal and Estuary Research Federation, Portland, OR
- 2010 Restoration aquaculture as a tool for rebuilding native bivalve assemblages and ecosystem services. World Aquaculture Society, San Diego, CA
- 2009 Adapting to changing climate, watersheds, and ecological interactions in the Delaware Estuary. Delaware Estuary Science and Environmental Summit, Cape May, NJ.
- 2008 From headwaters to coast: watershed-based restoration of bivalve shellfish. National Shellfisheries Association, Providence, RI.
- 2008 Climate change, watershed change and ecological interactions in the Delaware Estuary. Workshop on Climate Change in the Delaware Estuary, Philadelphia, PA.
- 2007 From headwaters to coast: a watershed-based perspective on ecosystem services furnished by bivalve shellfish. Estuarine Research Federation meeting, Providence, RI.
- 2007 Prospects for regional restoration in the Delaware Estuary. Restoration Planning Workshop, Philadelphia, PA.
- 2007 From local to regional: contrasting the water processing and restoration potential of native bivalves throughout the Delaware Estuary and its watershed. Second Delaware Estuary Science Conference, Cape May, NJ.
- 2006 Prospects for restoration of freshwater and marine bivalves for ecosystem services throughout the Delaware Estuary and watershed. Restore America's Estuaries, New Orleans, LA.
- 2006 Measurement of scope-for-growth in freshwater mussels and the relevance for water quality, ecosystem function and biomonitoring. National Shellfisheries Association, Monterey, CA.
- 2005 A holistic view of the conservation and propagation of freshwater, brackish and estuarine bivalves for ecosystem services. First Delaware Estuary Science Conference, Cape May, NJ
- 2003 Spatial and temporal variation in oyster fitness in San Antonio Bay, Texas, 1998-2002. NSA, New Orleans, LA.
- 2002 Variability in condition index and tissue biochemistry of *Elliptio complanata* held in the field and laboratory. NSA, Mystic, CT.
- 2001 Development of phosphorus microcapsules for manipulating dietary C:P for aquatic suspension-feeders. American Society of Limnology and Oceanography, Albuquerque.
- 2001 Use of transplanted *Elliptio complanata* as bioindicators of habitat quality. Freshwater Mollusk Conservation Society, Pittsburgh, PA.
- 2001 Kreeger, D.A., R.L. Thomas & H. Hertler. Variability in body size, condition index and tissue biochemistry of *Crassostrea virginica* in San Antonio Bay, Texas. Estuarine Research Federation, St. Petersburg, FL.
- 2000 Natural sources of nutrition for the mussel, *Geukensia demissa*. NSA. Seattle, WA.
- 1999 Sources of Dietary Nitrogen for the Mussel *Geukensia demissa*. ERF, New Orleans, LA.
- 1997 Trophic links in salt marshes: seasonal shifts in the carbon source of the omnivorous mussel, *Geukensia demissa*, ERF, Providence, RI.
- 1997 Utilization of carbon from the microphytobenthos by the ribbed mussel, *Geukensia demissa*. NSA, Fort Walton Beach, FL.
- 1997 Adaptations for Non-algal Diets by the mussel *Geukensia demissa*. ASLO, Santa Fe, NM.
- 1996 Omnivory by the mussel *Geukensia demissa*. NSA, Baltimore, MD.
- 1996 Adaptations for protein acquisition in bivalves. NSA, Baltimore, MD.
- 1994 Utilization of carbon from microheterotrophs by mussels. ERF, Corpus Christi, TX.
- 1995 Seasonal variation in seston biochemical composition of three Pocono lakes. Pocono Comparative Lakes Program meeting, Lake Ariel, PA.
- 1994 Seasonal variation in the relative utilization of dietary protein and carbohydrate by the mussel, *Mytilus edulis* L. NSA, Charleston, SC.
- 1994 Microencapsulated nutrients for studying the importance of diet quality for zooplankton. Pocono Comparative Lakes Program meeting, Lake Ariel, PA.
- 1992 Effect of dietary protein content on growth of juvenile *Mytilus edulis trossulus*. NSA, Newport, OR.

- 1992 Seasonal patterns in the utilization of dietary protein by the mussel, *Mytilus trossulus*. NSA, Aquaculture '92, Orlando, FL.
- 1991 Effect of capsule composition on the delivery of dietary protein to the mussel, *Mytilus trossulus*. NSA, Vancouver, BC.
- 1988 Utilization of cellulosic detritus by subtidal and intertidal populations of the mussel, *Geukensia demissa*. American Society of Zoologists, San Francisco, CA.
- 1987 Detritus in the nutrition of *Crassostrea virginica* and *Geukensia demissa*. NSA, Nanaimo, BC.
- 1986 Utilization of refractory carbon by the ribbed mussel, *Geukensia demissa* (Dillwyn). NSA, Seattle, WA.