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Education:

1981, B.Sc. Magna Cum Laude with Honors, Engineering, Brown University.
1982, M.Sc. Engineering, Brown University.
1993, M.S. Environmental Sciences, University of Rhode Island.
2005, Ph.D. Environmental Sciences, University of Rhode Island

Professional Positions:

August 2009 – present, Assistant Director, Coastal Institute, University of Rhode Island
2005 – present, Adjunct assistant professor, Department of Natural Resources Science, URI
2006 – present, Research Associate IV, Dept. of Natural Resources Science, URI
2005 – 2010, Postdoctoral position with the Coastal Institute IGERT Project, URI
1994 – 1998, Research Associate IV, CE Water Quality Group, Dept. of Natural Resources Science, URI
1988 – 1994, Graduate Research Assistant, Dept. of Natural Resources Science, URI
1983 – 1988, Engineering Software Developer, Hibbitt, Karlsson & Sorensen, Inc., Providence, RI.
1981 – 1982, Graduate Research Fellow, Division of Engineering, Brown University.

Honors and Awards:

2001, Outstanding Graduate Student Presentation at the Annual Meeting of the Northeastern Branch of the American Society of Agronomy, Soil Science Society of America.
1992, Elected to Phi Kappa Phi
1981, Graduate Research Fellowship, Division of Engineering, Brown University
1980, Elected to Tau Beta Pi
1980, Elected to Sigma Xi

Refereed Publications:

Kellogg, D.Q., A.J. Gold, S. Cox, K. Addy, and P.V. August. 2010. A geospatial approach for assessing denitrification sinks within lower-order catchments. *Ecological Engineering* 36: 1596–1606.

August, P.V., J.M. Swift, **D.Q. Kellogg**, G. Page, P. Nelson, J. Opaluch, J.S. Cobb, C. Foster, and A.J. Gold. 2010. The T assessment tool: A simple metric for assessing multidisciplinary graduate education. *J. Nat. Resour. Life Sci. Educ.* 39:15-21. <http://www.jnrlse.org/view/2010/e09-0004.pdf>

Anthony A., J. Atwood, P. August, C. Byron, S. Cobb, C. Foster, C. Fry, A. Gold, K. Hagos, L. Heffner, **D.Q. Kellogg**, K. Lellis-Dibble, J.J. Opaluch, C. Oviatt, A. Pfeiffer-Herbert, N. Rohr, L. Smith, T. Smythe, J. Swift, and N. Vinhateiro. 2008. Coastal lagoons and climate change: ecological and social ramifications in U.S. Atlantic and Gulf coast ecosystems. *Ecology and Society* 14(1):8. [online] URL: <http://www.ecologyandsociety.org/vol14/iss1/art8/>

Zaman, M., M.L. Nguyen, A.J. Gold, P.M. Groffman, **D.Q. Kellogg**, and R.J. Wilcock. 2008. Nitrous oxide generation, denitrification, and nitrate removal in a seepage wetland intercepting surface and subsurface flows from a grazed dairy catchment. *Australian Journal of Soil Research* 46:565-577.

Kellogg, D.Q., A.J. Gold, P.M. Groffman, M.H. Stolt, and K. Addy. 2008. Riparian ground-water flow patterns using flownet analysis: Evapotranspiration-induced upwelling and implications for N removal. *J. Am. Water Res. Assoc.* 44:1024-1034.

Watson, T.K., **D.Q. Kellogg**, K. Addy, A.J. Gold, M.H. Stolt, and P.M. Groffman. 2008. Ground-water nitrate removal capacity of riparian zones in urbanizing and agricultural watershed. Proceedings of the AWRA Summer Specialty Conference, Virginia Beach, VA.

Gurwick, N.P., D.M. McCorkle, P.M. Groffman, A.J. Gold, **D.Q. Kellogg**, and P. Seitz-Rundlett. 2008. Mineralization of ancient carbon in the subsurface of riparian forests. *J. Geophys. Res.* 113:G02021 doi:10.1029/2007JG000482.

Clough, T.J., K. Addy, **D.Q. Kellogg**, B.L. Nowicki, A.J. Gold, and P.M. Groffman. 2007. Dynamics of nitrous oxide in groundwater at the aquatic-terrestrial interface. *Global Change Biology* 13:1528-1537.

Kellogg, D.Q., A.J. Gold, P.M. Groffman, K. Addy, M.H. Stolt, and G. Blazewski. 2005. In situ ground water denitrification in stratified, permeable soils underlying riparian wetlands. *J. Environ. Qual.* 34:524-533.

Addy, K., **D.Q. Kellogg**, A.J. Gold, P.M. Groffman, G. Ferendo, and C. Saywer. 2002. In situ push-pull method to determine ground water denitrification in riparian zones. *J. Environ. Qual.* 31:1017-1024.

Groffman, P.M., A.J. Gold, **D.Q. Kellogg**, and K. Addy. 2002. Mechanisms, rates and assessment of N₂O in groundwater, riparian zones, and rivers. p. 159-166 *In* J. Van Ham (ed.) *Non CO₂ Greenhouse Gases: Scientific Understanding, Control Options and Policy Aspects*. Millpress, Netherlands.

Groffman, P.M. A.J. Gold, **D.Q. Kellogg**, and K. Addy. 2002. Nitrous oxide emissions derived from N leaching. p. 143-155 *In* S.O. Peterson and J.E. Olesen (ed.) *Greenhouse Gas Inventories for Agriculture in the Nordic Countries*. Danish Institute of Agriculture Sciences. Tjele, Denmark.

Gold, A.J., P.M. Groffman, K. Addy, **D.Q. Kellogg**, M. Stolt, and A.E. Rosenblatt. 2001. Landscape attributes as controls on ground water nitrate removal capacity of riparian zones. *J. Am. Water Resour. Assoc.* 37:1457-1464.

Rosenblatt, A.E., A.J. Gold, M.H. Stolt, P.M. Groffman, and **D.Q. Kellogg**. 2001. Identification of riparian sinks for watershed nitrate using soil surveys. *J. Environ. Qual.* 30:1596-1604.

Gold, A.J. and **D.Q. Kellogg**. 1997. Modelling internal processes of riparian buffer zones. p. 192-207 *In* N.E. Haycock (ed.) *Processes and Potential of Buffer Zones in Water Protections*. Samara Publishing, UK.

Major Conference Abstracts/Talks/Presentations:

Kellogg, D.Q., A.J. Gold, S. Cox, K. Addy, E. Wentz, M. Shimizu, and P.M. Groffman. 2011. Watershed science to optimize local management of N sources and retention zones. 2011 USDA NIFA Land Grant/Sea Grant National Water Conference, Washington, DC.

Kellogg, D.Q., A.J. Gold, S. Cox, E. Wentz, K. Addy, J. Rozum, and P.M. Groffman. 2009. Targeting watershed nitrogen export at the local level: the role of landscape sinks. 2009 USDA CSREES National Water Conference. St. Louis, MO.

Kellogg, D.Q., T. K. Watson, K. Addy, A.J. Gold, M.H. Stolt, and P.M. Groffman. 2008. Ground-water nitrate removal capacity of riparian zones in urbanizing and agricultural watersheds. AWRA Summer Specialty Conference: Riparian ecosystems and buffers. Virginia Beach, VA.

Gold, A.J., **D.Q. Kellogg**, K. Addy, P.V. August, and P.M. Groffman. 2008. Managing watershed nitrogen at the local level: Accounting for riparian nitrogen sinks. AWRA Summer Specialty Conference: Riparian ecosystems and buffers. Virginia Beach, VA.

Kellogg, D.Q., A.J. Gold, K. Addy, and P.M. Groffman. 2008. Emerging opportunities to harness spatial data for classifying N removal at the landscape scale. NSF-sponsored Riparian Zone Workshop. Indiana University, Purdue University, Indianapolis, IN.

Groffman, P.M., A.J. Gold, N. Gurwick, **D. Kellogg**, and M. Stolt. 2007. Denitrification rates in riparian systems: Controls and regulators. ASA-CSSA-SSSA International Annual Meetings. New Orleans, LA.

Gold, A.J. and **D.Q. Kellogg**. 2006. Denitrification in engineered systems: Applications, methods, modeling challenges. NSF-sponsored Denitrification Modeling Workshop. Institute of Ecosystem Studies, Millbrook, NY.

Groffman, P.M., A.J. Gold, **D. Kellogg**, S. Kaushal, N. Gurwick, P.M. Mayer, M.H. Stolt, L.E. Band. 2005. Riparian denitrification in forested and urban / suburban watersheds. Soil Science Society of America Annual Meeting, Salt Lake City, UT.

Kellogg, D.Q., K. Addy, A.J. Gold, P.M. Groffman, M.H. Stolt. 2005. The ecohydrology of riparian zones in Rhode Island and areas of the glaciated Northeast. ESA-INTECOL Joint Congress of Ecology. Montreal, Canada.

Kellogg, D.Q., A.J. Gold, P.M. Groffman, K. Addy, M.H. Stolt, and G. Blazejewski. 2004. Assessing riparian zones as sinks for catchment nitrogen flux. American Water Resources Association Summer Specialty Conference: Riparian ecosystems and buffers: Multi-scale structure, function, and management. Olympic Valley, CA.

Kellogg, D.Q., A.J. Gold, P.M. Groffman, M.H. Stolt, and K. Addy. 2003. Groundwater denitrification in riparian wetland soils. Soil Science Society of America Annual Meeting, Denver, CO.

Kellogg, D.Q., A.J. Gold, P.M. Groffman, K. Addy, M.H. Stolt, and G. Blazejewski. 2003. Assessing riparian zones as sinks for catchment nitrogen flux. Gordon Conference on Catchment Science: Interactions of Hydrology, Biology and Geochemistry. New London, NH.

Kellogg, D.Q., A.J. Gold, P.M. Groffman, K. Addy, M.H. Stolt, and G. Blazejewski. 2002. Geomorphic controls of denitrification in riparian wetland soils: vertical patterns of groundwater denitrification. Soil Science Society of America Annual Meeting, Indianapolis, IN.

Kellogg, D.Q., A.J. Gold, K. Addy, P.M. Groffman, M.H. Stolt, and G. Ferendo. 2001. Geomorphic setting and riparian soil function: Groundwater denitrification. Annual Meeting of the Northeastern Branch of the American Society of Agronomy, Soil Science Society of America. West Greenwich, RI.

Gold, A.J., K. Addy, B.L. Nowicki, and **D.Q. Kellogg**. 2001. Characterizing groundwater contributions to aquatic systems: Challenges and opportunities at aquatic margins. p. 59. *In* American Society of Limnology and Oceanography Annual Meeting Abstracts. ASLO, Waco, TX.

Kellogg, D.Q., A.J. Gold, K. Addy, P.M. Groffman, M. Stolt, and G. Ferendo. 2001. Landscape setting effects on riparian soils and functions: Groundwater denitrification rates. Soil Science Society of America Annual Meeting, Charlotte, NC.

Gold, A.J., P.M. Groffman, K. Addy, **D.Q. Kellogg**, and A.E. Rosenblatt. 2001. Groundwater nitrate removal capacity of riparian zones: Linking site attributes to the watershed scale. p. S193. In *Eos Trans. AGU*, 82(2), Spring Meet. Suppl., Abstract H51C-05. American Geophysical Union, Washington, DC.

Gold, A.J., P.M. Groffman, K. Addy, and **D.Q. Kellogg**. 2000. Sources of variation in riparian groundwater nitrate removal in the glaciated Northeast. p. 376. In *Soil Science Society of America Annual Meeting Abstracts*. Madison, WI.

Addy, K., **D.Q. Kellogg**, A.J. Gold, P.M. Groffman, and G. Ferendo. 2000. Rapid in-situ method to determine groundwater nitrate removal in riparian zones. p. 376. In *Soil Science Society of America Annual Meeting Abstracts*. Madison, WI.

Groffman, P.M., A.J. Gold, K. Addy, P.A. Jacinthe, **D.Q. Kellogg**, A.E. Rosenblatt, and M. Rotkin-Ellman. 2000. Hydrologic control of groundwater nitrate removal in riparian forests. Annual Meeting Abstracts. American Geophysical Union, Washington, DC.

Addy, K., A.J. Gold, **D.Q. Kellogg**, and A.E. Rosenblatt. 1999. Riparian zone attributes affecting nitrogen removal in shallow groundwater. p. 195-205. In *Proceedings of the 1999 Groundwater Protection Council Annual Forum*. Oklahoma City, OK.

Gold, A.J., K. Addy, **D.Q. Kellogg**, and A.E. Rosenblatt. 1999. Nitrate removal in shallow groundwater. p. 185-199. In *Proceedings of the Tenth Northwest On-Site Wastewater Treatment Short Course*. Seattle, WA.

Gold, A.J., A. Rosenblatt, **D.Q. Kellogg**, and W.R. Wright. 1998. Patterns of soil drainage classes in riparian areas of the glaciated northeast: Ground-truthing SSURGO. *Soil Science Society of America Annual Meeting*, Baltimore, MD.

Gold, A.J., P.M. Groffman, and **D.Q. Kellogg**. 1998. The role of landscape setting on groundwater nitrate removal by riparian buffers. National Conservation Buffer Initiative Science and Technology Conference. San Antonio, TX.

Gold, A.J., **D.Q. Kellogg**, P.M. Groffman, and H.A. Walker. 1997. Management implications of site-dependent factors on nitrate dynamics in riparian forests. p. 87. In *1997 Biennial Meetings, Estuarine Research Federation Abstracts*. Port Republic, MD.

Walker, H.A., **D.Q. Kellogg**, A.J. Gold, and E.H. Dettman. 1997. The value of utilizing future land-use scenarios in managing nitrogen loading to estuaries. p. 193. In *1997 Biennial Meetings, Estuarine Research Federation Abstracts*. Port Republic, MD.

Joubert, L., **D.Q. Kellogg**, and A.J. Gold. 1996. Watershed nonpoint assessment and nutrient loading using the GIS-based MANAGE method. p. 84-86 In *Proceedings of Watershed-96 – A National Conference on Watershed Management*. USEPA.

Joubert, L., **D.Q. Kellogg**, A. McCann, and A.J. Gold. 1996. Training local officials in watershed management using user-friendly geographic information systems. p. 834-837 In *Proceedings of Watershed-96 – A National Conference on Watershed Management*. USEPA.

Joubert, L., **D.Q. Kellogg**, and A.J. Gold. 1996. A nonpoint assessment model for municipalities. *Water Courses newsletter from Cornell Cooperative Extension and Cornell Dept. of Soil Crop and Atmospheric Science*. 3(3):10-11.

Kellogg, D.Q., L. Joubert, A.J. Gold. 1996. Technical documentation, MANAGE Geographic Information System-based Risk Assessment Method. University of Rhode Island Cooperative Extension, Department of Natural Resources Science, Kingston, RI.

Gold, A.J. and **D.Q. Kellogg**. 1994. Riparian zone hydrology: Ramifications for groundwater pollutant removal. p. 5-7. *In* Proceedings of the Soil Science Society of Southern New England Conference on Riparian Buffers. Sturbridge, MA.

Other professional activities:

Co-Instructor in EVS 610 – Multi-disciplinary Problem Solving in Coastal Ecosystems

Co-Instructor in EVS 616 – Field Practicum in Coastal Science

Guest Lecturer in NRS 361 – Watershed Hydrology and Management

Teaching Assistant in NRS 510 – Soil-Water Relations

Co-mentor to 1-2 undergraduate Coastal Fellows for the past 6 years

Reviewer for the Journal of Environmental Quality

Reviewer for Water Resources Research

Reviewer for the Journal of the American Water Resources Association

Reviewer for Ecosystems

Reviewer for Agriculture, Ecosystems and Environment

Reviewer for Biogeosciences Discussions

Reviewer for Science of the Total Environment

Reviewer for Geographical Analysis

Member of the American Water Resources Association

Member of the American Society of Agronomy, Soil Science Society of America

Member of the Ecological Society of America