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Dr. Paul K. Barten is professor of forestry and hydrology at the University of Massachusetts Amherst. His research includes field and modeling projects focusing on forests, land use, streamflow, water quality and aquatic ecosystems. The primary motivation for this work is the protection of drinking water supplies and aquatic ecosystems in collaboration with local communities, water utilities, nongovernmental organizations and state and federal agencies. In many cases, this involves the development and application of GIS-based analytical methods to identify and prioritize critical areas for conservation, restoration and stormwater management in large, diverse watersheds.

He has served on three National Research Council study teams, in 2000, 2004 and 2008, and as scientist-at-large on the research planning committee of the Sustainable Forest Management Network in Canada from 2003 to 2010. He was a Bullard Fellow at the Harvard Forest from 2003 to 2004.

Dr. Barten earned his associate's degree in forestry and surveying (1977) from the New York State Ranger School at Wanakena, his bachelor's degree in forest resources management (1983) from the SUNY College of Environmental Science and Forestry, and his master's and doctoral degrees in forest hydrology and watershed management (1985, 1988) from the University of Minnesota. He has been teaching forest and wetland hydrology for a wide range of audiences since 1986.

Selected publications (* = peer-reviewed)

- *Vose, J.M., K.L. Martin, and P.K. Barten. 2016. Applications of Forest Hydrologic Science to Watershed Management in the 21st Century. Chapter 15 in *Forest Hydrology: Processes, Management and Assessment*, D. Amatya, T. Williams, L. Bren, and C. de Jong (Editors), CABI Publishers, London
- *Barten, P.K., C. Nicolson, W.R. VanDoren. 2013. Land cover, water resources, and prioritizing parcels. Pages 31-39 in *"Natural Infrastructure: Investing in Forested Landscapes for Source Water Protection."* Gartner, T., J. Mulligan, R. Schmidt, and J. Gunn (Editors), World Resources Institute, Washington, DC, 140 pp. <http://www.wri.org/publication/natural-infrastructure>
- Barten, P.K. [chair and principal author], M. Ashton, J. Boyce, R.T. Brooks, J. Buonaccorsi, J. Campbell, S. DeStefano, S. Jackson, M. Kelty, D. King, C.H. Sham, J. Tobiason, and M. Tyrrell., 2012. *Review of Massachusetts DWSP Watershed Forestry Program*. Massachusetts DCR Division of Water Supply Protection Science and Technical Advisory Committee. 77 pages. (<http://www.mass.gov/eea/docs/dcr/news/public-meetings/materials/watershed/review-of-mass-dwsp-watershed-forestry-progarm.pdf>)
- *Barten, P.K., and C.E. Ernst. 2010. Land Conservation and Watershed Management for Source Protection. Chapter 24 in *Sustainable Water Resources: A Compendium of Issues and Trends*. , Frederick Bloetscher (Editor), American Water Works Association, Denver, CO, pages 255-274. (<http://www.awwa.org/store/productdetail.aspx?productid=21718>)
- *National Research Council., 2008. *Hydrologic Effects of a Changing Forest Landscape*. Water Science and Technology Board, National Academies Press, Washington, DC, 180 pp. [Project chair] (<http://www.nap.edu/catalog/12223/hydrologic-effects-of-a-changing-forest-landscape>)
- *Avril L. de la Crétaz and Paul K. Barten., 2007. *Land Use Effects on Streamflow and Water Quality in the Northeastern United States*. CRC Press–Taylor & Francis Group, Boca Raton, Florida and London, 319 pp. (<https://www.crcpress.com/Land-Use-Effects-on-Streamflow-and-Water-Quality-in-the-Northeastern-United/de-la-Cretaz-Barten/9780849391873>)