

Measuring and Modeling the Effects of Urban Canopy on Cooling and Water Budgets – Bob Smail

This presentation will demonstrate how high resolution urban landcover data created by the WDNR can be used to quantify water flux and evaporative cooling showing how urban forests can be managed and optimized to provide the most benefits. Further, these data will be used to show how various landcover features, especially water availability, mitigate these effects. Finally, this presentation will show how these variables were measured and correlated to changes in temperature.

Speaker Bio –

Bob Smail is a research scientist for the Division of Forestry in the Wisconsin Department of Natural Resources. His research topics include public land economics, urban heat island effects, historical forest cover change, and the effects of groundwater and climate variation on forest management. He holds a B.A. from Carroll University, a M.S. from UW – Stevens Point, and a Ph.D. the UW – Madison. He lives in Watertown with his cats, daughters, wife and bikes.