

**2002 Spring Meeting
Search Results:**

Your query was:
sebestyen

HR: 1330h
AN: **H42D-03**
TI: **Generation of chemical signatures within stream networks:
using synoptic surveys to identify controls on water chemistry in the
Lookout Creek Basin, Oregon, USA.**
AU: * **Sebestyen, S D**
EM: *sdsebest@syr.edu*
AF: *State University of New York College of Environmental Science & Forestry, 211
Marshall Hall 1 Forestry Dr, Syracuse, NY 13210 United States*
AB: Longitudinal sampling along streams can provide valuable insight into
chemical signatures, but may not elucidate landscape-level controls because
sampling is restricted to a single stream within a network. To better understand how
stream networks integrate geochemical signatures from landscapes, we expanded
upon a longitudinal sampling approach and collected water samples that were
distributed throughout a forested stream network. In this study, 50 water samples
were synoptically collected throughout the 6400 ha Lookout Creek basin and sub-
basins at the HJ Andrews LTER in the Western Cascade Mountains of Oregon, USA.
We used a geochemical approach to illustrate that the watershed integrated features
and processes of the landscape to produce a signature water chemistry due to
changing spatial scales and connectivity within the stream network. Our expanded
sampling strategy provides greater insight into how stream networks integrate
multiple influences and identifies key spatial positions within the landscape that
influence water chemistry.
DE: 1806 Chemistry of fresh water
DE: 1848 Networks
DE: 1860 Runoff and streamflow
DE: 1871 Surface water quality
DE: 1886 Weathering (1625)
SC: H
MN: 2002 Spring Meeting

New Search

