

# SECTION NEWS

## HYDROLOGY



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### Two Receive Horton Research Grants

Alan D. Ziegler and Julie K. Sueker were both presented Horton Research Grants during the AGU 1995 Spring Meeting in Baltimore, Md., which was held May 30 to June 2. This annual research grant, which is separate from the Horton Award, supports research projects in hydrology and water resources by doctoral candidates at academic institutions. The Horton Research Grant fosters graduate student research leading to the completion of doctoral dissertations.



Ziegler is a geography Ph.D. student at the University of Hawaii focusing on measuring and numerical simulation of land surface processes. Originally from Madison, Kansas, he has a mathematics and computer science B.S. and a geography M.A. from the University of Kansas. Since coming to Hawaii, he has participated in several research projects including the water balance estimation of Kaho'olawe Island (Hawaii); field and laboratory rainfall simulations investigating splash

and wash dynamics on tropical soils; comparison of simulated SVAT processes with field measurements in a deforested site in Northern Thailand; identification of edge-related microclimate gradients in a high-altitude forest patch on Haleakala, Maui (Hawaii); and the investigation of spatial and environmental influences on Basic Health care Units in Sheikhpura District, Pakistan. His proposed research project is measuring and simulating sediment production on unpaved roads in a mountainous area of Northern Thailand.

Sueker is a Ph.D. candidate in environmental engineering at the University of Colorado, Boulder. Her dissertation research involves investigation of flow paths of snowmelt in eight alpine and subalpine watersheds in Rocky Mountain National Park (RMNP), Colorado, using naturally occurring isotopic and chemical tracers. The Horton Grant will fund research to determine sources of nitrate in surface waters in three watersheds in RMNP using the stable environmental isotopes  $^{15}\text{N}$  and  $^{18}\text{O}$ . Her work in a consulting firm introduced her to environmental risk assessment work and spurred her decision to pursue a Ph.D. in environmental engineering. Sueker's goal is to secure a research or consulting position in soil remediation, determining the fate and transport of contaminants through the use of isotopic and chemical tracers.



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