

CURRICULUM VITAE
Alex J. Rinehart

Business Address:

Dept. of Earth and Environmental Science
New Mexico Institute of Mining and Technology
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Academic Degrees:

University of New Mexico, BS in Mathematics (Distributed) (Summa Cum Laude). 2004.
New Mexico Institute of Mining and Technology, MS in Hydrology. 2008.

Professional Positions:

New Mexico Institute of Mining and Technology:
Teaching Assistant, Spring 2006, Spring 2007.
Research Assistant, Summer 2004 - Fall 2007.
University of New Mexico
Research Assistant, Spring 2004.
Master Tutor (Physics), Fall 2002 - Fall 2003.
Applied Research Associates--Shock Physics Division, Albuquerque, NM.
Technician, Summer 2001 and Summer 2002.
Engineering Aide, Fall 2001 - Spring 2001.

Professional Organizations:

American Geophysical Union
Geological Society of America
New Mexico Geological Society
Clay Minerals Society
Society of Soil Science of America

Honors:

National Science Foundation Graduate Research Fellowship, Summer 2007-present.

Best Teaching Assistant (Hydrology Program), Spring 2007.
Best Teaching Assistant (Earth and Environmental Department), Spring 2006.
Graduated from UNM Summa Cum Laude (General Honors) and Summa Cum Laude
(Math Department).
Phi Beta Kappa, Spring 2003.

Papers in Refereed Journals:

Rinehart, A.J., Vivoni, E.R. and Brooks, P.D. 2008. Effects of vegetation, albedo and solar radiation sheltering on the distribution of snow in the Valles Caldera, New Mexico. Ecohydrology. 1(3): 253-270.

Vivoni, E.R., **Rinehart, A.J.**, Mendez-Barroso, L.A., Aragon, C.A., Bisht, G., Cardenas, M.B., Engle, E., Forman, B.A., Frisbee, M.D., Gutierrez-Jurado, H.A., Hong, S., Mahmood, T.H., Tai, K. and Wyckoff, R.L. 2008. Vegetation controls on soil moisture distribution in the Valles Caldera, New Mexico, during the North American monsoon. Ecohydrology. 1(3): 225-238.

Vivoni, E.R., Gutiérrez-Jurado, H.A., Aragón, C.A., Méndez-Barroso, L.A., **Rinehart, A.J.**, Wyckoff, R.L., Rodríguez, J.C., Watts, C.J., Bolten, J.D., Lakshmi, V. and Jackson, T.J. 2007. Variation of hydrometeorological conditions along a topographic transect in northwestern Mexico during the North American Monsoon. Journal of Climate. 20(9): 1792-1809.

Professional Presentations:

Rinehart, A.J., Vivoni, E.R., and Brooks, P.D. 2008. The controls of shading and scattering of solar radiation on the distribution of snow in the Valles Caldera, New Mexico. Hydrology Program Seminar, Earth and Environmental Science Department. New Mexico Tech.

Rinehart, A. J., Musselman, K., Brooks, P., Vivoni, E.R., and Molotch, N. 2006. Integrating Observations and Modeling of Snow-Vegetation Interactions: A Progress Report. SAHRA Annual Conference, Scottsdale, AZ.

Grants:

New Mexico Water Resources Research Institute Student Research Grant. Spring 2005.

Courses TA'ed:

Hydrology 508 -- Flow and Transport in Geologic Settings. Spring 2006, Spring 2007.