

November 2007

CURRICULUM VITA

Dean E. Eisenhauer, Ph.D., P.E.
Professor of Hydrologic and Irrigation Engineering
Biological Systems Engineering
University of Nebraska-Lincoln

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Education:

B.S. Kansas State University 1971 Agricultural Engineering
M.S. Kansas State University 1973 Agricultural Engineering
Ph.D. Colorado State University 1984 Agricultural Engineering

Professional Experience:

Professor, Biological Systems Engineering, University of Nebraska, 1993-present.
Associate Professor, Biological Systems Engineering, University of Nebraska, 1989-1993.
Visiting Professor, Catholic University, Leuven, Belgium, 1990.
Associate Professor and Extension Irrigation Specialist, University of Nebraska SCREC, 1983-1989.
Assistant Professor and Extension Irrigation Specialist, University of Nebraska SCREC, 1975-1983.
Instructor and Area Extension Irrigation Engineer, University of Minnesota, 1974-1975.
Instructor, Agricultural Engineering, Kansas State University, 1973.

Courtesy Appointment:

School of Natural Resources
University of Nebraska-Lincoln

Professional Registration:

Registered Professional Engineer (Nebraska, E-4975)

Honors and Awards:

Young Engineer of the Year, Mid-Central Region, 1988, American Society of Agricultural Engineers.
Extension Award of Merit, Gamma Sigma Delta, UNL, 1990.
Recognition Award for Contributions to Students presented by the Parents Association and Teaching Council of the UNL (1993, 1994, 1998, 2000, and 2002).
Research and Education Award, Chemigation Division, The Irrigation Association, 1997.
IANR Team Effort Award, MSEA Water Quality Team, UNL, 1998.
Senior Faculty Holling Family Award for Teaching Excellence, IANR, UNL 1999.
Person of the Year, The Irrigation Association, 1999.
Commendation Award, Nebraska Chapter, Soil & Water Conservation Society, 2001.
The Commendation Award, Soil and Water Conservation Society, 2002
College Award for Distinguished Teaching, UNL, 2003

Current Teaching:

Soil Conservation and Watershed Management, MSYM/WATS/SOIL 354.
Soil and Water Resources Engineering, AGEN/BSEN 350.
Irrigation Systems Management, MSYM/WATS/HORT 452/852.
Hydrologic Modeling of Small Watersheds, AGEN 954.
Modeling Vadose Zone Hydrology, AGEN/BSEN 998.

Completed Undergraduate Honors Students and Graduate Students:

Undergraduate Honor Theses – 9

M.S. and Ph.D. Advising or Co-advising – 21

Graduate Student Committees (not including advisees) – 49

Research Interests:

Hydrologic impacts of land and water use practices in agricultural regions

Engineering of vegetative buffers for riparian and upland ecosystems

Infiltration and overland flow

Water flow in the intermediate vadose zone

Water measurement technology for irrigation

Journal Papers and Book Chapters (last five years):

Siefken, R.J., V.I Adamchuck, D.E. Eisenhauer, and L.L Bashford. 2005. Mapping soil mechanical resistance with a multiple blade system. *Applied Engineering in Agriculture*. 21(1);15-23.

Helmers, M.J., D.E. Eisenhauer, T.G. Franti, and M.G. Dosskey. 2005. Modeling sediment trapping in a vegetative filter accounting for converging overland flow. *Trans. of the ASAE* 48(2): 541-555.

Helmers, M.J., D.E. Eisenhauer, M.G. Dosskey, T.G. Franti, J.M. Brothers, and M.C. McCullough. 2005. Flow pathways and sediment trapping in a field-scale vegetative filter. *Trans. of the ASAE* 48(3):955-968.

Dosskey, M.G., D.E. Eisenhauer, and M.J. Helmers. 2005. Establishing conservation buffers using precision information. *J. Soil and Water Conservation*. 60(6): 349-354.

Helmers, M.J., and D.E. Eisenhauer. 2006. Overland flow modeling in a vegetative filter considering non-planar topography and spatial variability of soil hydraulic properties and vegetation density. *Journal of Hydrology*. 328:267-282.

Dosskey, M.G., M.J. Helmers, and D.E. Eisenhauer. 2006. An approach for using soil surveys to guide the placement of water quality buffers. *Journal of Soil and Water Conservation*, 61(6):344-354.

Eisenhauer, D.E., D. Bjorneberg, and D. Westermann. 2006. Water management practices, irrigated cropland. Chapter 3. In: M. Schnepf and C. Cox (eds.). *Environmental Benefits of Conservation on Cropland, The Status of Our Knowledge*. Soil and Water Conservation Society. Ankeny, Iowa.

Van der Guilek, T.W., R.G. Evans, and D.E. Eisenhauer. 2007. Chemigation. Chapter 19. In: G.J. Hoffman, R.G. Evans, M.E. Jensen, D.L. Martin, and R.L. Elliot (eds.). *Design and Operation of Farm Irrigation Systems*, 2nd edition. American Society of Agricultrue and Biological Engineers. St. Joseph, Michigan.

Zlotnik, V.A., D.E. Eisenhauer, D.J. Schlautman, B.R. Zurbuchen, and D. Van Peurse. 2007. Entrapped air effects on dipole flow test in sand tank experiments: Hydraulic conductivity and head distribution. *Journal of Hydrology*. 339:193-205.

Society Affiliations:

ASAE-The Society for Engineering in Agricultural, Food and Biological Systems

Soil Science Society of America

Soil and Water Conservation Society of America

The Irrigation Association