Daryl E. Herzmann

Biographical Sketch

Contact Information

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Professional Preparation

• B.A., 2001, Iowa State University. Meteorology Major.

Appointments

Iowa State University, October 1997 - present

* October 1997 -May 2001: Partnerships to Advance Learning in Science (PALS). Supervisor: Dr Doug Yarger. Duties included website administration, database programming and data manipulation.
* March 1998 -May 2001: International Institute for Theoretical & Applied Physics (IITAP). Supervisor: Doug Fils. Duties included multi-platform systems administration, computer programming and computer instruction.
* August 2001 -present: Iowa Environmental Mesonet (IEM). Supervisor: Dr Dennis Todey and Dr Raymond Arritt. Duties included integrating, archiving, disseminating and analyzing diverse environmental datasets. Serves as the focal point for the IEM eﬀort.

Publications

* Cruse, R.M., D. Flanagan, J. Frankenberger, B.K. Gelder, D. Herzmann, D. James, W.F. Krajewski, M.M. Kraszewski, J.M. Laflen, J Opsomer and D. Todey, 2006: Daily estimates of rainfall, water runoff, and soil erosion in Iowa, Journal of Soil and Water Conservation, 61(4), 191-199.
* Herzmann, D.E., J. Wolt, and R. Arritt, 2008: Representativity of a mesoscale network for weather-related factors governing pollen dispersal, International Journal of Biometeorology, 52(7),617-624.
* Coleman, T.A., K. Knupp, and D.Herzmann, 2009: The Spectacular Undular Bore in Iowa on 2 October 2007, Monthly Weather Review, 137(1), 495-503.
* Coleman, T.A., K. Knupp, and D. Herzmann, 2010: An Undular Bore and Gravity Waves Illustrated by Dramatic Time-Lapse Photography. J. Atmos. Oceanic Technol., 27, 1355-1361.
* Breakah, T.M., R. Williams, D. Herzmann, and E. Takle, 2010: The Effects of Utilizing Accurate Climatic Conditions for Mechanistic-Empirical Pavement Design, a Case Study. Journal of Transportation Engineering, 136, in print.

Synergistic Activities

* The Iowa Environmental Mesonet. Integrating diverse datasets from eight diﬀerent observing networks in the state of Iowa. Program and maintain data ingestion / manipulation systems to process the data. Exploring and implementing new techniques for data visualization and dissemination. Coordinate with local agencies with oversight of their observing networks. Data focal point for observations in the state of Iowa.

Collaborators & Other Affiliations

* Tamer Breakah, Iowa State University.
* Tim Coleman, University of Alabama at Huntsville.
* Kevin Knupp, University of Alabama at Huntsville.
* Eugene Takle, Iowa State University.
* Chris Williams, Iowa State University.