

DONALD P. SCHWERT
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Education:

Ph.D. 1978. Earth Science. University of Waterloo (Canada).
M.S. 1975. Zoology. SUNY CES&F at Syracuse University
B.S. 1972. Chemistry / Biology. Allegheny College

Employment:

1992-present Professor of Geology, Department of Geosciences, North Dakota State University
1986-1992 Associate Professor, Department of Geology, North Dakota State University
1982-1986 Assistant Professor, Department of Geology, North Dakota State University
1978 -1982 Visiting Assistant Professor, Department of Geology, North Dakota State University
1978 Postdoctoral Fellow, Department of Earth Sciences, University of Waterloo, Canada

Relevant Publications:

- McClean, P.E., D.P. Schwert, P. Juell, B. Saini-Eidukat, B.M. Slator, and A.R. White. 1999. Cooperative development of visually-oriented, problem-solving science courseware. Proceedings of the International Conference on Mathematics/Science Education & Technology, San Antonio. (*in press*).
- Saini-Eidukat, B., D.P. Schwert, and B. Slator. 1999. Designing, building, and assessing a virtual world for science education. Proceedings of the 14th International Conference on Computers and their Applications (CATA-99), Cancun, Mexico. (*in press*).
- Schwert, D.P., B.M. Slator, and B. Saini-Eidukat. 1999. A virtual world for earth science education in secondary and post-secondary environments: the Geology Explorer. Proceedings of the International Conference on Mathematics/Science Education & Technology, San Antonio. (*in press*).
- Slator, B.M., D.P. Schwert and B. Saini-Eidukat. 1999. Phase development of a multi-modal virtual educational world. Proceedings of the IASTED International Conference on Computers and Advanced Technology in Education (CAT'99), Cherry Hill, N.J. (*in press*).
- Slator, B.M., D.P. Schwert, B. Saini-Eidukat, J. Abel, J. Bauer, B. Gietzen, N. Green, T. Kavli, L. Koehntop, B. Marthi, V. Nagareddy, A. Olson, Y. Jia, K. Peravali, D. Turany, V. Bender, and J. Walsh. 1998. Planet Oit: a virtual environment and educational role-playing game to teach the geosciences. Proceedings of the Small College Computing Symposium, pp. 378-392.

Up to 5 Other Significant Publications:

- Reiss, R., A.C. Ashworth, and D.P. Schwert. *in press*. Molecular genetic evidence for the post-Pleistocene divergence of populations of the arctic-alpine ground beetle Amara alpina (Paykull) (Coleoptera: Carabidae). *Journal of Biogeography*.

- Schwert, D.P., H.J. Torpen, and E.R. Hajic. 1997. Characterization of the late-Wisconsin tundra/forest transition in midcontinental North America using assemblages of beetle fossils. *Quaternary Proceedings* 5: 237-243..
- Schwert, D.P. 1996. Effect of Euro-American settlement on an insect fauna: a paleontological analysis of the recent chitin record of beetles (Coleoptera) from northeastern Iowa. *Annals of the Entomological Society of America*, 89(1): 53-63.
- Cong, S., A.C. Ashworth, D.P. Schwert, and S.M. Totten. 1996. Fossil beetle evidence for a short, interval near 40,000 yr B.P. at Titusville, Pennsylvania. *Quaternary Research*, 45:216-225
- Reiss, R.A., D.P. Schwert, and A.C. Ashworth. 1995. Field preservation of Coleoptera for molecular genetic analyses. *Environmental Entomology*, 24(3):716-719.

List of Collaborators During the Last 48 Months

Richard Baker, University of Iowa; E.A. Bettis, Iowa Geological Survey; Clarke Garry, University of Wisconsin-River Falls; Ed Murphy and John Hoganson, North Dakota Geological Survey; Allan Ashworth, Alan White, Paul Juell, Bernhardt Saini-Eidukat, Phillip McClean, and Brian Slator, North Dakota State University;.

Graduate Students and Post-Doctoral Students

The Department of Geosciences does not have a graduate program.

Graduate and Postgraduate Advisors

Dr. Daniel L. Dindal, SUNYCES&F at Syracuse University; Dr. Alan V. Morgan and Dr. Paul F. Karrow, University of Waterloo.

Other Relevant Information

Dr. Schwert teaches courses in physical geology, geomorphology, structural geology, and glacial geology. He also coordinates North Dakota's major www geologic information site, with access being particularly aimed toward the K-12 community. Schwert is active in the campus-wide www development effort at NDSU and is currently working on developing an outreach training course for North Dakota earth science teachers. Schwert is North Dakota coordinator for the Upper Midwest Aerospace Consortium's EdParc project, which introduces ArcView software/databases into the K-12 curriculum. Schwert has been PI on ten Eisenhower grants for K-12 teacher training, including one awarded for 1999.

Dr. Schwert's research interests have been in the application of insect remains in paleoclimatic and paleoenvironmental modeling. His studies have been primarily supported through NSF, NSF-EPSCoR, and EPA-EPSCoR. In 1991, the North Dakota Science Teachers Association awarded Schwert its "Friend of Science Award," in 1992 he was recipient of NDSU's top award for teaching,, in 1997 he was recipient of his college's top award for teaching, and in 1998 he was co-recipient of his college's top award for service.