

View Report



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Professional Summary

Most of my work involves earth movements of one kind or another—landslides, rockslides, debris flows, land subsidence, earth fissures, and other geologic hazards—that occur either naturally or as the result of human activities. I'm interested in both characterization of existing conditions and using process-based models to understand how they came to be. I also use modern technology like geographic information system (GIS) software, airborne laser scanning, finite element and finite difference models, image processing, and digital photogrammetry to solve practical (and sometimes impractical) problems in engineering geology, hydrogeology, structural geology, and geomorphology.

My field experience includes projects throughout the United States (including Cincinnati area landslides), Canada, Papua New Guinea, Nepal, and the Indian Himalaya. If you'd like to see some of the places I've worked and traveled, you're welcome to visit my photography web pages at www.billhaneberg.com.

Before leaving to establish my consulting practice in 1999, I was Assistant Director and Senior Engineering Geologist with the New Mexico Bureau of Mines and Mineral Resources. I have also worked as a petroleum geologist and held adjunct faculty appointments at New Mexico Tech and Portland State University.

Research Support

Grant #60027727 \ GRT00021239 Haneberg, William 08/04/2011 02/04/2013 Federal Highway Administration Probabilistic use of Light Detection And Ranging (LiDAR) Data to Detect and Characterize Landslides Role:PI \$64,697.00 Closed Federal

Publications - Abbrev

23 W.C. Haneberg, 2004, Computational Geosciences with Mathematica: Berlin: Springer. Author 978-3540402459

- 66 N. Gurung, W.C. Haneberg, G.V. Ramana, M. Datta, 2010, Engineering geology and stability of the Laprak landslide, Gorkha District, Nepal: Environmental & Engineering Geoscience. Co-Author
- 6 W.C. Haneberg, 2008, Elevation errors in a LIDAR digital elevation model of West Seattle and their effects on slope stability calculations. in eds. R.L. Baum, J. Godt, L. Highland, Landslides and Engineering Geology of the Greater Seattle Area, Washington: Boulder, Colorado: Geological Society of America, p. 55-66. Author
- 22 E. Weppner, J. Hoyt, W.C. Haneberg, 2009, Comparison of slope stability models derived from 1-m LIDAR DEM, Freshwater Creek and Ryan Slough watershed, Humboldt County, California: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 678. Co-Author
- 17 W.C. Haneberg, 2009, Improved optimization and visualization of drilling directions for rock mass discontinuity characterization: Environmental & Engineering Geoscience, v. 15, p. 107-113. Author DOI:10.2113/gseegeosci.15.2.107
- 22 W.C. Haneberg, 2009, Airborne LiDAR as a practical tool for high resolution geologic mapping—a decade of lessons learned and potential revealed: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 431. Author
- 23 J. Ehlen, W.C. Haneberg, R.L. Larson, 2006, Humans as Geologic Agents: Boulder, Colorado: Geological Society of America. Co-Editor 978-0813741161
- 17 W.C. Haneberg, W.F. Cole, G. Kasali, 2009, High-resolution LiDAR-based landslide hazard mapping and modeling, UCSF Parnassus Campus, San Francisco, USA: Bulletin of Engineering Geology and the Environment, v. 68, p. 273-286. Author DOI:doi: 10.1007/s10064-009-0204-3
- 22 W.C. Haneberg, 2009, A Mathematica package for equal area projection and analysis of rock mass discontinuity orientations: AEG News, v. 52, no. Program with Abstracts, 2009 Annual Meeting, p. 75-76. Author
- 23 W.C. Haneberg, P.S. Mozley, J.C. Moore, L.B. Goodwin, 1999, Faults and Subsurface Fluid Flow in the Shallow Crust: Washington, DC: American Geophysical Union. Editor 978-0875900964
- 17 B. Adam, C. Dietsch, L.A. Owen, M.W. Caffee, J.A. Spotila, W.C. Haneberg, 2009, Exhumation and incision history of the Lahul Himalaya, northern India, based on (U-Th)/He thermochronometry and terrestrial cosmogenic nuclide dating techniques: Geomorphology, v. 107, p. 285-299. Co-Author DOI:10.1016/j.geomorph.2008.12.017
- 23 W.C. Haneberg, S.A. Anderson, 1995, Clay and Shale Slope Instability: Boulder, Colorado: Geological Society of America. Editor 978-0813741109
- 22 W.C. Haneberg, 2009, Virtual mapping as a practical engineering geology tool— brave new paradigm or more new clothes for the emperor?: AEG News, v. 52, no. (Program with Abstracts, 2009 Annual Meeting), p. 75. Author
- 17 J.M. Dortch, L.A. Owen, W.C. Haneberg, M.W. Caffee, C. Dietsch, U. Kamp, 2009, Nature and timing of large landslides in the Himalaya and Transhimalaya of northern India: Quaternary Science Reviews, v. 28, p. 1037-1054. Co-Author DOI:10.1016/j.quascirev.2008.05.002
- 17 W.C. Haneberg, 2009, Simplified analysis of vibration induced rock toppling: Environmental & Engineering Geoscience, v. 15, p. 41-45. Author DOI:10.2113/gseegeosci.15.1.41
- 17 W.C. Haneberg, 2008, Using close range terrestrial digital photogrammetry for 3-D rock slope modeling and discontinuity mapping in the United States: Bulletin of Engineering Geology and the Environment, v. 67, p. 457-469. Author DOI:10.1007/s10064-008-0157-y
- 17 W.C. Haneberg, 2006, Effects of digital elevation model errors on spatially distributed seismic slope stability calculations: an example from Seattle, Washington: Environmental & Engineering Geoscience, v. 12, p. 247-260. Author DOI:doi: 10.2113/gseegeosci.12.3.247
- 17 W.C. Haneberg, 2004, A rational probabilistic method for spatially distributed landslide hazard assessment: Environmental & Engineering Geoscience, v. 10, p. 23-47. Author DOI:10.2113/10.1.27

17 W.C. Haneberg, A.Ö. Gökce, 1994, Rapid water-level fluctuations in a thin colluvium landslide west of Cincinnati, Ohio: U.S. Geological Survey Bulletin, v. 2059-C, p. 1-16. Author

17 W.C. Haneberg, 1991, Observation and analysis of short-term pore pressure fluctuations in a thin colluvium landslide complex near Cincinnati, Ohio: Engineering Geology, v. 31, p. 159-184. Author

Honors and Awards

2009 -2010 Samuel Mayfield Distinguished Lecturer in Geology, Bowling Green State University Monetary Recipient Department

2006 Claire P. Holdredge Award, Association of Environmental & Engineering Geologists Presented for the book Computational Geosciences with Mathematica Recognition Recipient National

2006 Visiting Scholar, Western Michigan University Monetary Recipient Department

2002 Editor's Citation for Excellence in Scientific Refereeing, American Geophysical Union Recognition Recipient National

1995 Fellow, Geological Society of America Recognition Geological Society of America Recipient National

2010 -2011 AEG-GSA Richard H. Jahns Distinguished Lecturer in Engineering Geology Association of Environmental & Engineering Geologists and Geological Society of America (Engineering Geology Division) Recipient International Other

Service

The Hillside Trust Board of Trustees Member Community Service Local 2010 10W

Education

Institution:University of Cincinnati Cincinnati PhD 1989 Geology: geomechanics

Institution:University of Cincinnati Cincinnati M.S. 1985 Geology: structural geology

Institution:Bowling Green State University Bowling Green, Ohio B.S. cum laude 1982 Geology

Research and Practice Interests

Geomechanics, structural geology, engineering geology, physical hydrogeology, computational geology, GIS applications, and the use of geologic information to support planning and policy decision making.

Keywords

landslide, debris flow, mudflow, mudslide, rockfall, rockslide, land subsidence, environmental geology, groundwater, geologic hazards, computational geology, engineering geology, hydrogeology


Courses Taught

15-GEOL-204 STRUCTURAL GEOLOGY Actual Enroll:27 Level:Undergraduate

15-GEOL-699 GEOLOGY COLLOQUIUM

Preferred Information

Adjunct Professor William C. Haneberg <http://www.haneberg.com> Degrees: Ph.D., L.E.G., L.Hg.

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