## NAME: Milan J. Pavich

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# PROFESSIONAL PREPARATION

Ph.D. Geochemistry

 Johns Hopkins University, 1974

B.S. Biology

 Franklin and Marshall College, 1969

# AREAS of EXPERTISE/RESEARCH INTERESTS

Geomorphology and age dating of sediments and soils are my main research interests. I have extensive knowledge of geologic science, particularly in the fields of geomorphology and paleoclimatology, acquired over a 35-year professional career. I have been a research geologist at the U.S. Geological Survey (USGS) since 1974 and have conducted research in humid to arid environments in the U.S., Australia, and Europe. I have been project chief of numerous projects since first hired by USGS. I have authored and co-authored over 70 peer-reviewed publications and presented numerous invited talks. In 1982-1984 I received a USGS Gilbert Fellowship for pioneering research into geochemistry of 10Be in soils. I received the 1991 Kirk Bryan Award of the Geological Society of America, an honor awarded by the Quaternary Geology and Geomorphology section of GSA. I have recently demonstrated the application of optically stimulated luminescence (OSL) dating to estuarine sediments in measuring rates of sea level change over the past 100ky. I currently lead a cooperative research project with the National Park Service (NPS) on the history and restoration of Dyke Marsh, near Washington, D.C.

**RECENT EMPLOYMENT HISTORY**

**2006-Present:** USGS Research Geologist GS15 Grade Level, also

* Project Chief, Landscape Response to Climate Change and Mid-Atlantic Sea Level Variability Projects
* Member of the NSF/CRONUS review panel in 2008
* Member of program review for the NSF-funded Frontiers of Critical Zone Science research program in 2009.

### SELECTED PUBLICATIONS

Pavich. M.J. and Chadwick, O.A., 2004, Soils and the Quaternary Climate System, in: Gillespie, A.R., Porter, S.C., and Atwater, B.F., eds., The Quaternary Period in the United States, Elsevier Science Ltd., pp. 311-330.

Reusser, L.J., Bierman, P.R., Pavich, M.J., Zen, E.-a., Larsen, J., and Finkel, R., 2004, Rapid Late Pleistocene incision of Atlantic passive-margin river gorges: Science, v. 305, p. 499-502.

Poore, R.Z., Pavich, M.J., and Grissino-Mayer, H.D., 2005, Record of North American southwest monsoon from Gulf of Mexico sediment cores: Geology, v. 33, p. 209-212.

Markewich, H.W., Litwin, R.J., Pavich, M.J. and Brook, G.A., 2009, Late Pleistocene eolian features in southeastern Maryland and the Chesapeake Bay region-evidence for strong WNW-NW winds accompanying growth of the Laurentide Ice Sheet, Quaternary Research, 71, 409-425.

Pavich,M.J., Markewich, H.W., Litwin, R.J., Smoot, J., Brook, G., and Verardo, S., (USGS Director’s Approval 2009), OSL evidence for glacioisostatic deformation in Chesapeake Bay over the past two glacial cycles, submitted to Quaternary Science Reviews, 37 Ms pages, 11 figs.