

CURRICULUM VITAE

Terry W. Swanson

Birth date: 15 March, 1960

Citizenship: United States

Academic Training

Ph.D., 1994, Geological Sciences, University of Washington, Seattle Washington.

Ph.D. Dissertation: *Determination of ^{36}Cl Production Rates from the Deglaciation History of Whidbey and Fidalgo Islands, Washington.*

M.A., 1989, Geography, University of California, Davis, California.

M.A. Thesis: *The Quaternary Glacial History of the White Mountains, California and Regional Paleoclimatic Implications.*

Teaching and Research Positions Held

1999-Present: Senior Lecturer, Department of Earth and Space Sciences (Formerly Geological Sciences), University of Washington, Seattle, Washington. Responsible for teaching undergraduate courses in geological sciences. Courses taught include: Introductory Geology, Geology of the Pacific Northwest, Earthscapes (introduction to geomorphology), Great Ice Ages (Quaternary Environments), Environmental Geology, Glacial Geology and graduate-level instructional development seminar.

1994-1999: Lecturer, Department of Geological Sciences, University of Washington, Seattle, Washington. Responsible for teaching undergraduate courses in geological sciences. Courses taught include: Introductory Geology, Geology of the Pacific Northwest, Earthscapes (introduction to geomorphology), Great Ice Ages (introduction to glacial geology and paleoclimatology), Environmental Geology and graduate-level seminars of special topics.

1997-Present: Research Associate Scientist., Quaternary Research Center, University of Washington. Expertise in Quaternary Geology and Cosmogenic Isotope Dating.

1992-1994: Pre-doctoral Lecturer, Department of Geological Sciences, University of Washington, Seattle, Washington. Responsible for teaching introductory geology courses and supervising new teaching assistants in the introductory geology laboratory program.

1988-1992: Teaching and Research Assistant: Department of Geological Sciences, University of Washington, Seattle, Washington. Responsible for teaching the laboratory classes in introductory and advanced geology courses and conducting independent research in the earth sciences.

1987-1988: Soils consultant for the Stags Leap Appellation Committee in Napa Valley, California. Responsible for conducting field and laboratory analyses of soils within the Stags Leap Appellation of Napa County, California.

Research Awards

National Science Foundation Research Award (CO-P.I.) Grant is funded (\$287,554) CRONUS Undergraduate outreach (2005-2009).

National Science Foundation Research Award (P.I.), Grant was funded for \$250,000 (1996-2001).

National Science Foundation Research Award (co-P.I. with Dr. Stephen C. Porter), Grant is funded for \$181,000 (1992-1996).

National Science Foundation Undergraduate Supplemental Research Award (P.I.). 1994 and 1995. Supplemental awards funded for \$12,000 to enhance undergraduate research at the University of Washington.

Geological Society of America Research Award: UW, 1989 and 1990.

Mazamas Research Award: UW, 1989 and 1990.

Sigma Xi Research Award: UW, 1990.

Department of Geological Sciences Research Award: UW, 1990.

White Mountain Research Award: UC, Davis, 1987.

Honors and Fellowships

Awarded the UW Distinguished Teaching Award, 2007.

Awarded the Intrafraternity Council Excellence in Teaching Award 2007.

Awarded the Panhellenic Association of UW Excellence in Teaching Award 2007.

Nominated for the UW Distinguished Teaching Award UW 2002, 2003, 2004, 2005, 2006.

Received ESS Excellence in Teaching Award 2004

NASA Space Grant Fellowship: UW, 1990-1992.

Geology Faculty Fellowship: UW, 1991.

George E. Goodspeed Memorial Fellowship: UW, 1990.

David A. Johnston Memorial Fellowship: UW, 1989.

Nominated to Sigma Xi: UW, 1989.

California State Fellowship: UC, Davis, 1986-88.

University Scholarship: U.B.C., 1983.

Dean's High Honor List: Santa Rosa Junior College, 1979 and 1980.

Committees and K-12 Outreach

2005-2007: Scholarship and Awards committee, ESS, UW

2003-2005: Elected to the Faculty Senate, University of Washington.

2004: Elected to the Executive Council of the Faculty Senate, University of Washington.

1997-Present K-6 summer teaching training workshop (Seattle School District). Inquiry based learning workshop. Over the past four years I have trained Seattle School district teachers to teach their new third grade geology curriculum.

1994-Present: Volunteer guest speaker at local schools and scout troops in the Puget Sound region. Average 4-6 guest speakerships per quarter.

2003 Field Trip Chairperson for Geological Society of America National Meetings, Seattle, WA (November 2-6, 2003).

1998-2000 Curriculum Committee (Department of Geological Sciences)

1998 Curriculum Development Committee for Program on the Environment (UW)

1996-97 Mentor scientist for the TASK K-12 science education program, Department of Education, University of Washington, Seattle, Washington

1995 Consulting scientist at the WISESTEP K-12 science curriculum program, Department of Education, University of Washington, Seattle, Washington.

1994 Chairman of K-12 education program: Geological Society of America National Meeting, Seattle, Washington.

1994 Consulting scientist at the WISESTEP K-12 science curriculum program, Department of Education, University of Washington, Seattle, Washington.

1994 Co-chairman of Cosmogenic Isotope Symposium: Quaternary Research Center, University of Washington, Seattle, Washington.

Professional Organizations

Geological Society of America (Geomorphology Speciality Group)

American Geophysical Union

American Quaternary Association

International Union of Quaternary Research

Sigma Xi

Mazamas

Articles (Published)

Porter, S.C. and Swanson, T.W. In press. Surface exposure ages and paleoclimatic environment of [Middle and] Late Pleistocene glacier advances, northeastern Cascade Range, Washington. *American Journal of Science*.

- Swanson, T.W. and Caffee, M.L. (2005). Reply to comment by D.J. Easterbrook (Quaternary Research 2003, 59 #1, 132-134) on "Determination of ^{36}Cl production rates from the Deglaciation History of Whidbey and Fidalgo Islands, Washington." *Quaternary Research* **63**, 228-230.
- Swanson, T.W. (2003) Editor. "Geological Field Guide of the Western Cordillera and Adjacent Areas." Geological Society of America. 284 pp.
- Putkonen, J. and Swanson, T.W. (2003)..Accuracy of cosmogenic ages for moraines. *Quaternary Research* **59** (2), 255-261.
- Swanson, T.W., and Caffee, M.L. (2001). Determination of ^{36}Cl production rates from the Deglaciation History of Whidbey and Fidalgo Islands, Washington. *Quaternary Research*. **56**, 366-382.
- Briner, J.P., Swanson, T.W., and Caffee, M. (2001). Late Pleistocene cosmogenic ^{36}Cl chronology of the southwestern Ahklun Mountains, Alaska. *Quaternary Research*. **56**, 148-154.
- Porter, S.C., and Swanson, T.W. (1998) Advance and Retreat rate of the Cordilleran Ice Sheet in southeastern Puget Sound Region. *Quaternary Research* **50**, 205-213.
- Briner, J.P. and Swanson, T.W. (1998) Inherited Cosmogenic ^{36}Cl Constrains Glacial Erosion Rates of the Cordilleran Ice Sheet. *Geology*. **26**, 3-6.
- Swanson, T.W., Elliott-Fisk, D.L., and Southard, R.J. (1993). Soil development trends in the Chiatovich Creek Basin, White Mountains, CA-NV in the absence of a chronosequence. *Quaternary Research*. **39**, 186-200.

Abstracts

- Rogers, H.E. and Swanson, T.W. (2006). Quantitative Analysis of Holocene Shoreline Retreat in Unconsolidated Sediment within the northern Puget Lowland, WA. (Abs.) American Geophysical Union Abstracts with Programs., San Francisco, CA. H33B-1493.
- Swanson, T.W. and Porter, S.C. (2005). Cl-^{36} Dating of the Pleistocene Glacial Record in the Icicle Creek Drainage, Cascade Range, Washington. (Abs) *Geological Society of America Abstracts with Program* Vol. 37 No. 7 Salt Lake City, Utah.
- Mullen, M.M., Mano, R.S., Nelson, J. W. and Swanson, T.W. (2003). Till-fabric analyses of NE-SW trending flutes on northern Whidbey Island: Evidence of readvance of the Cordilleran Ice Sheet during the latest Vashon Stage of the Fraser Glaciation. (Abs) *Geological Society of America Abstracts with Program* Seattle, WA. 27-6.

- Nelson, C., Mohadjer, S., and Swanson, T.W. (2003). Comparative evaluations of deformation structures exposed in the Double Bluff stratigraphy of Whidbey Island, WA. *Geological Society of America Abstracts with Program* Seattle, WA. 27-5.
- Swanson, T.W. and Porter, S.C. (2000). ^{36}Cl Evidence for maximum Late Pleistocene glacier extent in the Cascade Range during Marine Oxygen Isotope Substage 5d. (Abs) *Geological Society of America Abstracts with Program* Reno, Nevada. A-472.
- Putkonen, J. and Swanson, T.W. (2000). Exposure age variation of surface boulders on moraines: quantifying the dating accuracy. (Abs) *Geological Society of America Abstracts with Program* Reno, Nevada. A-511.
- McCrumb, D.H. and Swanson, T.W. (2000). Using the Ring Creek lava flow to determine the effects of snow cover on Chlorine-36 production in Howe Sound, British Columbia. (Abs) *Geological Society of America Abstracts with Program* Reno, Nevada. A-472.
- Swanson, T.W. and Porter, S.C. (1999). Surface-Exposure Ages for Alpine Glaciation in the Southern North Cascade Range. (Abs.) American Geophysical Union Abstracts with Program. H12D-05.
- McCrumb, D.H., and Swanson, T.W. (1998). Cosmogenic Cl-36 Age Constraints on the Deglaciation History of the Cordilleran Ice Sheet from Howe Sound, British Columbia. (Abs) *Geological Society of America Abstracts with Program* Toronto, Ontario. A135.
- Porter, S.C., and Swanson, T.W. (1998) Advance and Retreat rate of the Cordilleran Ice Sheet in southeastern Puget Sound Region. (Abs) *Geological Society of America Abstracts with Program* Toronto, Ontario.
- Briner, J.P., Swanson, T.W., Kaufman, D.S., Caffee, M. (1998). Late Pleistocene Glacial Chronology of the Western Ahklun Mountains, SW Alaska. (Abs) *Geological Society of America Abstracts with Program* Toronto, Ontario.
- Swanson, T.W.* and Porter, S.C. (1997). New Cosmogenic Isotope Ages for the Last Glaciation in the Eastern North Cascade Range. (Abs) *Geological Society of America Abstracts with Program* Salt Lake City, Utah, A-109.
- Swanson, T.W.* (1996). Determination ^{36}Cl Production Rates from the Deglaciation History of Whidbey and Fidalgo Islands, Washington. Abstracts presented at the Santa Fe workshop on secular variations in production rates of cosmogenic nuclides on earth. *Radiocarbon* **38 (1)**, 172.

- Briner, J.P.* and Swanson, T.W. (1996) Using inherited cosmogenic ^{36}Cl to constrain the magnitude, rate and spatial distribution of glacial erosion. (Abs) *Geological Society of America Abstracts with Program* Denver, Colorado 433.
- Swanson, T.W.*, Caffee, M., Finkel, R., Harris, L., Southon, J. (1994). Application of ^{36}Cl isotopic dating based on the deglaciation history of the Cordilleran Ice Sheet in Washington and British Columbia. (Abs) *Geological Society of America Abstracts with Program* Seattle, Washington.
- Swanson, T.W.*, Caffee, M., Finkel, R., Harris, L., Southon, J., Zreda, M.G., Phillips, F.M. (1993). Establishment of new production parameters for Chlorine-36 dating based on the deglaciation history of Whidbey Island, Washington. (Abs) *Geological Society of America Abstracts with Program* **25**(6), p. 461.
- Swanson, T.W.*, Caffee, M., Finkel, R., Harris, L., and Southon, J. (1993). Application of the chlorine-36 isotopic dating method for discriminating late-glacial landforms, Fraser Lowland, British Columbia and Snoqualmie Pass, Washington. (Abs.) *IGCP 253 Abstracts with Programs*, Winnipeg, Manitoba, Canada.
- Swanson, T.W.* and Sharma, P. (1992). Chlorine-36 dating of glacial deposits from the Cordilleran ice sheet in the Puget Sound and Columbian Plateau regions and alpine glaciers in the eastern Cascades, WA.: implications for the nature and timing of deglaciation. (Abs.) *Geological Society of America Abstracts with Programs, Cordilleran Section*, Eugene, Oregon.
- Swanson, T.W.* and Hurley, Todd M.(1992). Evaluation of the linear diffusion equation for resolving and correlating moraine ages by differential slope evolution in the Pine Creek and Bloody Canyon drainages in the Sierra Nevada, CA. (Abs.) *Geological Society of America Abstracts with Programs, Cordilleran Section*, Eugene, Oregon.
- Swanson, T.W.*, Sharma, P., Phillips, F.M., and Zreda, M. (1992). Determination of Chlorine-36 production rates from the deglaciation history of Whidbey Island, WA (Abs.) *by invitation to the Symposium on Accelerator Mass Spectrometry: Applications of Rare Isotopes as Tracers in Science and Technology*, Division of Nuclear Chemistry and Technology, San Francisco, CA.
- Swanson, T.W. (1991). Late-glacial fluctuations in the western Cordillera: Evidence of a Younger Dryas Oscillation in Western North America? (Abs.) *XIIIth Congress of the International Union of Quaternary Research*, Beijing, China.
- Swanson, T.W.* (1990). Relative dating parameters and "good, old-fashioned" geology; implication for surface exposure-age dating in the Chiatovich Creek Basin, White Mountains, California-Nevada. (Abs.) *by invitation to the Penrose conference on surface exposure dating, Geological Society of America*, Mammoth Lakes, CA.

Swanson, T.W.*, Elliott-Fisk, D.L., Dorn, R.I. and Phillips, F.M. (1988). Quaternary glaciation of the Chiatovich Creek Basin, White Mountains, CA-NV: A multiple dating approach (Abs). *Geological Society of America Abstracts with Programs*, Denver, Colorado.

*denotes speaker