

FREDERICK J. SWANSON

Research Geologist
Ecosystem Team
Pacific Northwest Research Station
USDA Forest Service
Corvallis, OR 97331
Telephone: (541) 750 7355
E-mail: fswanson@fs.fed.us

Contribution to this IGERT: mentor for IGERT internships at the USFS-PNW; field study of biophysical processes (landslides, wildfire, windthrow) in forested landscapes; their interaction with human activities (forest harvest, roads); forest and stream resource management and policy

Education

Ph.D., 1972, University of Oregon, Geology
BS, 1966, Pennsylvania State University, Geological Sciences

Professional Experience

Ecosystem Team Leader, Pacific Northwest Research Station, US Forest Service, 1991-2001

Professor (Courtesy), Depts of Forest Science and Geosciences, Oregon State University, 1989-

Project Leader, Pacific Northwest Research Station, USDA Forest Service, 1988-91

Principal Investigator, Andrews Forest Long-Term Ecological Research Program, 1986-1999

Research Geologist, USDA Forest Service, 1979-

Assistant Professor (Courtesy), Department of Geology, Oregon State University, 1978-89

Research Support

H.J. Andrews Long-Term Ecological Research project, NSF DEB. 2002-08. (co-PI) \$4.7 million.

H.J. Andrews Long-Term Ecological Research project, NSF DEB. 1996-2002. (PI) \$3.4 million.

H.J. Andrews Long-Term Ecological Research project, NSF DEB. 1990-1996. (PI) \$3.3 million.

Publications (5 most relevant to IGERT)

Wemple, B.C., F.J. Swanson and J.A. Jones. 2001. Forest roads and geomorphic process interactions,

Cascade Range, Oregon. *Earth Surface Processes and Landforms* 26: 191-204.

Johnson, K.N., F. Swanson, M. Herring and S. Greene, eds. 1999. *Bioregional assessments: science at the*

crossroads of management and policy. Washington, DC: Island Press. 395 p.

Cissel, J.H., F.J. Swanson and P.J. Weisberg. 1999. *Landscape management using historical fire regimes:*

Blue River, Oregon. *Ecological Applications* 9(4): 1217-1231.

Swanson, F.J., S.L. Johnson, S.V. Gregory and S.A. Acker. 1998. *Flood disturbance in a forested*

mountain landscape. *BioScience* 48(9): 681-689.

Swanson, F.J., J.A. Jones and G.E. Grant. 1997. *The physical environment as a basis for managing*

ecosystems. In: Kohm, K.A. and J.F. Franklin, eds. *Creating a forestry for the 21st century*.

Washington, DC: Island Press: 229-238.

Synergistic Activities

Principal Investigator, 1987-1999, Andrews Forest Long-Term Ecological Research program. Currently co-PI.

Leader, Synthesis volume on 50 years of ecosystem research at the H.J. Andrews.

Co-coordinator of Bioregional Assessments Conference, leading to publication of book (Johnson, et al., eds. 1999, see citation above).

Co-leader of Forest Service effort to coordinate ecological studies at Mount St. Helens and co-editor of

20-year synthesis volume on research at Mount St. Helens