

# DANIEL GIRARD GAVIN

## Curriculum Vitae

Department of Geography  
1251 University of Oregon  
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### EDUCATION

- Ph. D. University of Washington, Division of Ecosystem Sciences, College of Forest Resources. 2000.
- M.S. University of Washington, Division of Ecosystem Sciences, College of Forest Resources. 1997.
- B.A. Dartmouth College, Department of Biological Sciences. 1992.

### PROFESSIONAL EMPLOYMENT

- Assistant Professor, Department of Geography, University of Oregon 2006–
- Research Associate, Department of Botany and Agricultural Biochemistry, University of Vermont 2005–2006
- Postdoctoral Associate, Department of Plant Biology, University of Illinois at Urbana-Champaign. 2001–2005

### AREAS OF PROFESSIONAL INTEREST AND EXPERTISE

1. Biogeographical responses to climate change since the last glacial maximum.
2. Paleoeology, paleoclimatology, disturbance ecology, and fire history, with a focus on forests of the Pacific Northwest.
3. Projecting impacts of climate change on biodiversity.

### SOCIETY MEMBERSHIPS

American Geophysical Union Ecological Society of America  
American Quaternary Association International Biogeography Society  
Association of American Geographers Northwest Scientific Association

### TEACHING

#### Courses

C:\MyPlanet (Freshman Interest Group, College Connections). 2009,2010  
Advanced Biogeography: Dendrochronology (GEOG 423/523) 2009  
Long-term Environmental Change (GEOG 430) 2008,2010  
Fire and Natural Disturbances (GEOG 433/533) 2009  
Fire in the Environment (GEOG 410) 2007  
Advanced Biogeography: Species Range Limits (GEOG 423/523) 2007  
The Natural Environment (GEOG 141) 2007–  
Biogeography (GEOG 323) 2007–

Biogeography (University of Vermont)	2004
Weather and Climate (University of Vermont)	2003
General Ecology (Seattle University, two semesters)	2000-2001

## PUBLICATIONS

### *Refereed Journal Articles*

- Gavin, D.G.**, A.C.G. Henderson, K.S. Westover, S.C. Fritz, I.R. Walker, M. Leng and F.S.Hu. 2011. Abrupt Holocene climate change and potential response to solar forcing in western Canada. *Quaternary Science Reviews*. In Press.
- Colombaroli, D. and **D.G. Gavin**. 2010. Highly episodic fire and erosion regime over the past 2000 years in the Siskiyou Mountains, Oregon. *Proceedings of the National Academy of Sciences of the United States of America* 107: 18909-18914.
- Higuera, P.E., **D.G. Gavin**, P.J. Bartlein and D.J. Hallett. 2010. Peak detection in sediment-charcoal records: impacts of alternative analytical methods on fire-history interpretation. *International Journal of Wildland Fire* 19:996-1014.
- Gavin, D.G.** 2009. The coastal-disjunct mesic flora in the inland Pacific Northwest of USA and Canada: refugia, dispersal, and disequilibrium. *Diversity and Distributions* 15:972-982.
- Gavin, D.G.**, F.S. Hu, I.R. Walker, and K.S. Westover. 2009. The northern inland temperate rainforest of British Columbia: Old forests with a young history? *Northwest Science* 83:70-78.
- Marlon, J.R., P.J. Bartlein, C. Carcaillet, **D.G. Gavin**, S.P. Harrison, P.E. Higuera, F. Joos, M.J. Power, and I.C. Prentice. 2008. Climate and human influences on global biomass burning over the past two millennia. *Nature Geoscience* 1:697-702.
- Gavin, D.G.**, B. Beckage, and B. Osborn. 2008. Forest dynamics and the growth decline of red spruce and sugar maple on Bolton Mountain, Vermont: a comparison of modeling methods. *Canadian Journal of Forest Research* 38:2635-2649.
- Beckage B., B. Osborne, **D.G. Gavin**, C. Pucko, T. Siccama, and T. Perkins. 2008. A rapid upward shift of a forest ecotone during 40 years of warming in the Green Mountains of Vermont. *Proceedings of the National Academy of Sciences of the United States of America* 105:4197-4202.
- Chase, M., C. Bleskie, I.R. Walker, **D.G. Gavin**, and F.S. Hu. 2008. Midge-inferred Holocene summer temperatures in southeastern British Columbia, Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology* 257: 244-259.
- Power, M. and 84 others. 2007. Changes in fire regimes since the Last Glacial Maximum: an assessment based on a global synthesis and analysis of charcoal data. *Climate Dynamics*. DOI 10.1007/s00382-007-0334-x.
- Bigler, C., **D.G. Gavin**, C. Gunning, and T.T. Veblen. 2007. Drought induces lagged tree mortality in a subalpine forest in the Rocky Mountains. *Oikos* 116: 1983-1994.
- Gavin, D.G.**, D. Hallett, F.S. Hu, K. Lertzman, S.J. Prichard, K.J. Brown, J.A. Lynch, P. Bartlein, and D.L. Peterson. 2007. Forest fire and climate change: insights from sediment charcoal records. *Frontiers in Ecology and the Environment* 5: 499-506.

- Higuera, P.E., M.E. Peters, L.B. Brubaker, and **D.G. Gavin**. 2007. Understanding the origin and analysis of sediment-charcoal records with a simulation model. *Quaternary Science Reviews* 26:1790-1809.
- Gavin, D.G.**, and F.S. Hu. 2006. Spatial variation of climatic and non-climatic controls on species distribution: the range limit of *Tsuga heterophylla*. *Journal of Biogeography* 33:1384-1396.
- Gavin, D.G.**, F.S. Hu, K. Lertzman, and P. Corbett. 2006. Weak climatic control of stand-scale fire history during the late Holocene. *Ecology* 87:1722-1732.
- Hu, F.S., L.B. Brubaker, **D.G. Gavin**, P.E. Higuera, J.A. Lynch, T.S. Rupp, and W. Tinner. 2006. How climate and vegetation influence the fire regime of the Alaskan boreal biome: the Holocene perspective. *Mitigation and Adaptation Strategies for Global Change* 11:829-846.
- Clegg, B.F., W. Tinner, **D.G. Gavin**, and F.S. Hu. 2005. Morphological differentiation of *Betula* (birch) pollen in northwest North America and its palaeoecological application. *Holocene* 15:229-237.
- Gavin, D.G.**, L.B. Brubaker, J.S. McLachlan, and W.W. Oswald. 2005. Correspondence of pollen assemblages with forest zones across steep environmental gradients, Olympic Peninsula, Washington, USA. *Holocene* 15:648-662.
- Foit, F.F., **D.G. Gavin**, and F.S. Hu. 2004. The tephra stratigraphy of two lakes in south-central British Columbia, Canada and its implications for mid-late Holocene volcanic activity at Glacier Peak and Mount St. Helens, Washington, USA. *Canadian Journal of Earth Sciences* 41:1401-1410.
- Gavin, D.G.** 2003. Forest soil disturbance intervals inferred from soil charcoal radiocarbon dates. *Canadian Journal of Forest Research* 33:2514-2518.
- Gavin, D.G.**, L.B. Brubaker, and K.P. Lertzman. 2003. An 1800-year record of the spatial and temporal distribution of fire from the west coast of Vancouver Island, Canada. *Canadian Journal of Forest Research* 33:573-586.
- Gavin, D.G.**, L.B. Brubaker, and K.P. Lertzman. 2003. Holocene fire history of a coastal temperate rain forest based on soil charcoal radiocarbon dates. *Ecology* 84:186-201.
- Gavin, D.G.**, W.W. Oswald, E.R. Wahl, and J.W. Williams. 2003. A statistical approach to evaluating distance metrics and analog assignments for pollen records. *Quaternary Research* 60:356-367.
- Oswald, W.W., L.B. Brubaker, F.S. Hu, and **D.G. Gavin**. 2003. Pollen-vegetation calibration for tundra communities in the Arctic Foothills, northern Alaska. *Journal of Ecology* 91:1022-1033.
- Lertzman, K., **D. Gavin**, D. Hallett, L. Brubaker, D. Lepofsky, and R. Mathewes. 2002. Long-term fire regime estimated from soil charcoal in coastal temperate rainforests. *Conservation Ecology* 6(2): 5. [online]
- Gavin, D.G.** 2001. Estimation of inbuilt age in radiocarbon ages of soil charcoal for fire history studies. *Radiocarbon* 43:27-44.
- Gavin, D.G.**, J.S. McLachlan, L.B. Brubaker, and K.A. Young. 2001. Postglacial history of subalpine forests, Olympic Peninsula, Washington, USA. *Holocene* 11:177-188.

- Gavin, D.G.**, and L.B. Brubaker. 1999. A 6000 year soil pollen record of sub-alpine meadow vegetation in the Olympic Mountains, Washington, USA. *Journal of Ecology* 87:106-122.
- Gavin, D.G.**, and D.R. Peart. 1999. Vegetative life history of a dominant rain forest canopy tree. *Biotropica* 31:288-294.
- Gavin, D.G.**, and D.R. Peart. 1997. Spatial structure and regeneration of *Tetramerista glabra* in peat swamp rain forest in Indonesian Borneo. *Plant Ecology* 131:223-231.
- Gavin, D.G.**, D.R. Peart, and M. Leighton. 1996. Canopy gaps in peat swamp forest in West Kalimantan, Indonesia. *Tropical Biodiversity* 3:243-249.
- Gavin, D.G.**, and D.R. Peart. 1993. Effects of beech bark disease on the growth of American beech (*Fagus grandifolia*). *Canadian Journal of Forest Research* 23:1566-1575.

### **Articles in Preparation**

- Gavin, D.G.**, et al. *In Preparation*. Climate controls of broad-scale vegetation patterns in northwestern North America: projections of the climatic water balance and no-analog climates.

### **Non-Refereed Articles and Book Reviews**

- Gavin, D.G.** 2011. Biogeography. 21<sup>st</sup> Century Geography. Sage. *In Press*.
- Mote, P.W., **D. Gavin**, and A. Huyer. 2010. Chapter 1 – Climate Change in Oregon’s Land and Marine Environments. *in*, Oregon Climate Assessment Report, K.D. Dello and P.W. Mote (eds). Oregon Climate Change Research Institute, College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, OR. [<http://www.occri.net/ocar>]
- Higuera, P.E., **D.G. Gavin**, P. Henne, and M.E. Peters. 2010. Recent advances in the analysis and interpretation of sediment-charcoal records. PAGES Newsletter.
- Gavin, D.G.** 2010. Ecological complexity at the forest-grassland transition revealed by lake sediment records. *Frontiers of Biogeography* 2(1) [[http://www.biogeography.org/html/fb/FBv2i1/FBv02i01p02\\_Gavin.pdf](http://www.biogeography.org/html/fb/FBv2i1/FBv02i01p02_Gavin.pdf)]

### **AWARDS**

- |   |      |
|---|------|
| William S. Cooper Award, Ecological Society of America (with Linda Brubaker and Ken Lertzman).                                    | 2005 |
| Second Place among student presentations, Ecology and Environmental Sciences Section, AAAS Pacific Division Meeting, Ashland, OR. | 2000 |
| Woods Scholarship, College of Forest Resources, University of Washington.   | 2000 |
| Edward S. Deevey Award for Excellence in Paleoecology, Ecological Society of America Annual Meeting, Spokane, WA.                 | 1999 |
| Xi Sigma Pi Forestry Honor Society, University of Washington.   | 1995 |

## **EXTRAMURAL FUNDING**

- National Geographic Society, Committee for Research and Exploration. “The Inland Temperate Rainforest of the Pacific Northwest: Old Forests with a Young History?” \$22,165. 2010-2012
- Cooperative Ecosystem Studies Unit. “Paleoenvironmental Overview of the Olympic National Park.” \$50,000. 2010-2012
- National Science Foundation. J. Roering and D.G. Gavin. “Climatic and biotic controls on late Quaternary erosion in the Oregon Coast Range.” \$324,000. 2010-2013
- Joint Fire Science Program. D.G. Gavin, E.K. Heyerdahl, and R. Parsons. “Interactive effects of insects, fire and climate on fuel loads and fire behavior in mixed conifer forest.” \$266,000. 2009-2012
- U.S. National Committee for Quaternary Science and the National Academies. Travel Fellowship to the XVII Congress of the International Union for Quaternary Research, Cairns, Australia. 2007
- United States Geological Survey. D.G. Gavin. Software development for analysis of lake sediment charcoal records. \$5000. 2005
- National Science Foundation. F.S. Hu and D.G. Gavin. “Climatic and ecological controls on the Holocene range expansion of western hemlock and western redcedar in the interior Pacific Northwest”. \$330,000. 2002–2005
- Global Forest Foundation, Vancouver, B.C. D.G. Gavin, K.P. Lertzman and P. Corbett. “Disturbance regimes of subalpine forests in the West Kootenays” CDN\$30,000. 2000–2003
- Science Council of British Columbia, Forest Renewal BC. K.P. Lertzman (PI), L.B. Brubaker, D.G. Gavin, and E. Nelsen. “Long-term fire histories in coastal temperate rainforest” CDN\$227,810. 1996–2000

## **INTERNAL FUNDING**

- University of Oregon Junior Professorship Development Award. \$750. 2010
- Rippey Innovative Teaching Award, College of Arts and Sciences, University of Oregon. 2008
- University of Oregon Junior Professorship Development Award. \$1000. 2007
- College of Forest Resources, University of Washington. Research Improvement Grant. \$2,200. 1998

## **PAPERS PRESENTED (2000-2010) (\* INVITED SPEAKER)**

- Gavin, D.G.** and E.M. Herring. 2011. Reconstructing a putative cryptic northern mesic refugia: Paleoclimate reconstructions and topoclimatic downscaling. Biennial meeting of the International Biogeography Society, Heraklion, Greece.

- Herring, E.M. and **D.G. Gavin**. 2010. A first glance into the Clearwater Refugium of northern Idaho: a preliminary pollen record from Dismal Lake. Ecological Society of America, Pittsburgh, PA.
- Flower, A., **D.G. Gavin**, E.A. Heyerdahl, and R.A. Parsons. 2010. Western spruce budworm outbreak, climate, and fire interactions in the mixed conifer forests of the interior Pacific Northwest. Association of American Geographers, Washington, D.C.
- Gavin, D.G.**, E.M. Herring, and A. Flower. 2010. Climate and fire controls of broad-scale vegetation patterns in northwestern North America: projections of the climatic water balance and no-analog climates. Association of American Geographers, Washington, D.C.
- Deligne, N.I., K.V. Cashman, **D.G. Gavin**, and J.J. Roering. 2010. Reforestation of Collier Cone lava flow, central Oregon Cascades. Goldschmidt 2010. Knoxville, TN.
- Gavin, D.G.**, et al. 2009. Multiple abrupt shifts in the early Holocene climate of western Canada. Association of American Geographers. Las Vegas, NV.
- \***Gavin, D.G.** 2009. Biogeographic implications of fire regimes through the Holocene in the Pacific Northwest (USA and British Columbia). Boreal Forest Fire Symposium, Lac Duparquet, Québec. Keynote Speaker.
- \***Gavin, D.G.** and F.S. Hu 2008. The potential role of Pleistocene refugia in the Holocene development of the interior wet-belt forests of the Pacific Northwest, USA. International Palynological Congress, Bonn, Germany.
- \***Gavin, D.G.** 2008. Paleoeological evidence of the controls of forest composition and the late Holocene development of the interior wet-belt forests of eastern British Columbia. Botany 2008 (Botanical Society of America/Canadian Botanical Society), Vancouver, BC.
- \***Gavin, D.G.** and P.J. Bartlein. 2008. The “Quaternary conundrum” and postglacial biogeography in the inland Pacific Northwest. Ecological Society of America, Milwaukee, WI.
- Colombaroli, D. and **D. Gavin**. 2008. Long-term interaction between fire and vegetation: 2000 years of variability in the fire regime of the Siskiyou Mountains (SW Oregon, USA). Ecological Society of America, Milwaukee, WI.
- Gavin, D.G.** 2008. Assembling the biota of the interior wet belt: separate lines of evidence from paleoecology, phylogeography, and climate models. BC’s Inland Rainforest – Conservation and Community. University of Northern British Columbia, Prince George, BC.
- \***Gavin, D.G.** 2008. Assembling the biota of northern Idaho: separate lines of evidence from paleoecology, genetics, and climate models. American Society for Environmental History. Boise, ID.
- Gavin, D.G.** and F.S. Hu 2007. History of disjunct species distributions in the Pacific Northwest. Congress of the International Union for Quaternary Research, Cairns, Australia.
- Gavin, D.G.** and B. Beckage 2007. The roles of climate and disturbance in the decline of sugar maple and red spruce in northern New England. Association of American Geographers, San Francisco, CA.

- \***Gavin, D.G.**, F.S. Hu, K.P. Lertzman, and D.J. Hallett. 2006. Holocene fire-climate relationships in eastern British Columbia-and adjacent areas. American Quaternary Association, Bozeman, MT.
- \***Gavin, D.G.**, F.S. Hu, K.P. Lertzman, and D.J. Hallett. 2006. Forest fires in space and time: comparing long records of forest fires to understand their climatic controls. American Statistical Association, Seattle WA.
- Gavin, D.G.** and F.S. Hu. 2005. Bioclimatic models of species ranges using Gaussian mixture distributions and multiscale segmentation. Ecological Society of America, Montréal, QC.
- \***Gavin, D.G.** and F.S. Hu. 2004. Scale-dependent controls of late-Holocene forest fires in British Columbia: insights from intra-regional paleorecord comparisons. American Geophysical Union, San Francisco, CA.
- Higuera, P., **D. Gavin** and M. Peters. 2004. When does a charcoal peak represent a fire? Insights from a simple statistical model. Ecological Society of America. Portland, OR.
- Gavin, D.G.** and F.S. Hu. 2003. Climatic vs. non-climatic control of western hemlock distribution in its coastal and interior ranges. Ecological Society of America, Savannah, GA.
- Gavin, D.G.** and F.S. Hu. 2002. Late Holocene range expansion of western hemlock and western redcedar in the interior Pacific Northwest. Ecological Society of America, Tucson, AZ.
- Gavin, D.G.** and K.P. Lertzman. 2001. Rates of windthrow-caused soil disturbance inferred from soil charcoal radiocarbon dates. Ecological Society of America, Madison, WI.
- Gavin, D.G.** 2000. Holocene fire history in a coastal temperate rain forest, Vancouver Island. Ecological Society of America, Spokane, WA.

## **PROFESSIONAL SERVICE**

### ***Major activities and responsibilities***

- Workshop organizer: Developing and interpreting fire histories from sediment charcoal records. Ecological Society of America, Pittsburgh, PA. 2010.
- Vice President for Conferences, International Biogeography Society. (Organizing scientific program for the 2013 biennial meeting of the IBS).
- Associate Editor. *Frontiers of Biogeography: The magazine of the International Biogeography Society*. 2009–
- Lab host for two summer research assistants through Undergraduate Catalytic Outreach and Research Experiences (UCORE), 2009.
- National Science Foundation; Panelist. 2008.
- Graduate Admissions Committee, Department of Geography. 2008-2010.
- Developer of analytical and statistical software used by the paleoecological community (<http://geography.uoregon.edu/gavin/software.html>)
- Symposium organizer: “Severe insect outbreaks in North American forests: recent trends, long-term recurrence and the role of climate.” Annual Meeting of the Ecological Society of America, Savannah, GA. 2003.

Workshop organizer: "The future of paleoecology". Annual Meeting of the Ecological Society of America, Savannah, GA. 2003.

Chair, Paleoecology Section, Ecological Society of America. 2002-2003.

Ad-Hoc referee for the following professional journals (40 reviews completed during 2007-2010). Canadian Journal of Forest Research; Ecology; Ecosystems; Environment, Development and Sustainability; Global Change Biology; Global Environmental Change; The Holocene; Journal of Biogeography; Journal of Ecology; Journal of the Torrey Botanical Society; Journal of Tropical Ecology; Journal of Vegetation Science; Mitigation and Adaptation Strategies for Global Change; Oecologia; Physical Geography; Quaternary Research; Quaternary Science Reviews; Trees: Structure and Function.

External reviewer of proposals for the following granting agencies: National Science Foundation; Natural Sciences and Engineering Research Council (Canada); Agence Nationale de la Recherche (France); George Melendez Wright Climate Change Fellowships.

### ***Invited departmental seminars***

University of Minnesota, Quaternary Paleoecology Short Course. May 2010.

Oregon State University, Department of Geosciences. February 2010.

Washington State University, Vancouver, WA. December 2009.

University of Oregon, Fireside Conversations on Global Warming. November 2008.

University of Oregon, Department of Geological Sciences. November 2008.

University of Oregon, Center for Ecology and Evolutionary Biology. February 2008.

University of Oregon, Center for Ecology and Evolutionary Biology. February 2007.

Oregon State University, College of Forestry, Corvallis, OR. November 2006.

Middlebury College, Department of Biology, Middlebury, VT. November 2005.

University of Vermont, Department of Botany, Burlington, VT. April 2005.

Harvard Forest, Petersham, MA. December 2003.

Dartmouth College, Department of Biological Sciences. November 2002.

University of Illinois at Urbana-Champaign, Program in Ecology and Evolutionary Biology. January 2002.

University of Minnesota, Department of Ecology, Evolution, and Behavior. March 2001.

United States Forest Service, Rocky Mountain Research Station Fire Sciences Lab, Missoula, MT. February 2001.

University of Washington, Quaternary Research Center. 2000.

### ***Workshops***

Global Paleofire Working Group, Totnes, UK. October 2007.

Fire History Workshop, Flagstaff, AZ. May, 2005.

NOAA-PAGES Fire and Climate Workshop, Tucson, AZ. April 2002.

The role of science in management decisions in Clayoquot Sound, Clayoquot Biosphere Project, Tofino, B.C. January 1998.

### ***Outreach seminars***

Osher Life-Long Learning, Eugene OR. 2009.

Freshman Honors Science Colloquium (University of Oregon). 2008-2009.

Crow High School science class presentations. 2007.

Washington County Small Woodlands Association. 2007.

## **SUPERVISED DISSERTATIONS, THESIS AND UNDERGRADUATE THESES**

### Ph.D. Dissertations

- Underway Erin M. Herring, Geography. *Postglacial Biogeography of the Inland Temperate Rainforest in the Pacific Northwest* (Chair)
- Underway Aquila Flower, Geography. *Interactions of Forest Defoliator Outbreaks and Fire* (Chair)
- Underway Daniele McKay, Geological Sciences. *Mafic Holocene Eruptions in the Oregon Cascades* (Member)
- Underway Jill Marshall, Geological Sciences. *Climatic variation in the late Quaternary: Controls on ecosystems and erosion rates over millennial time scales in the Pacific Northwest*
- Underway Gabriel Yospin, Biology. *Land Use, Climate Change and Restoration Effects on Fire Regimes and Forest Successional Dynamics in Former Oak Savanna in the Willamette Valley, Oregon* (Member)
- Underway Natalia Deligne, Geological Sciences. (Member)
- Underway Kenji Izumi, Geography. *Dynamic Global Vegetation Models* (Member)
- Underway Adriana Martinez, Geography. (Member)
- 2010 Suzanne Walther, Geography. (Member)
- 2010 Paul Blanton, Geography. *The Distribution and Impact of Roads and Railroads on the River Landscapes of the Coterminous United States* (Member)
- 2008 Jennifer Marlon, Geography. *The Geography of Fire, A Paleo Perspective* (Member)
- 2006 Phil Higuera, University of Washington. *Late Glacial and Holocene Fire History in the Southcentral Brooks Range, Alaska: Direct and Indirect Impacts of Climatic Change on Fire Regimes* (Member)

### M.S. Theses (all Geography Department)

- Underway Ian David Crickmore, *Correlates of Fire Severity of a Large Fire in the Oregon Cascades* (Chair)
- Underway Jennifer Kusler, *Salmon Population Reconstruction from Multiple Proxies in Lake Sediments* (Chair)
- Underway Amanda Reinholtz
- 2010 Jaime Dexter, *Plant Exploitation in Arid Upland Environments: Quantitative Data from the Erin's Cave Archaeological Site, SE Oregon* (Member)
- 2010 Matt Millett, *Map Communication, Map Cognition, and Egocentric Map Behavior* (Member)

### Undergraduate Theses

- 2009 Thea Evenstead, Honor's College. *Restoration Ecology and Invasive Species: Managing Reed Canary Grass (*Phalaris arundinacea*) in the Southern Willamette Valley* (Member)
- 2007 Christopher Carlson, Honor's College. *Derivation of a fuel potential index in Hawaii using remotely sensed data* (Member)
- 2007 Kathryn L. Argo, Geography and Environmental Studies. *The Relation of Precipitation and Annual Tree-Ring Growth of Douglas-fir in Stands of Different Ages in the Western Oregon Cascade Range* (Chair)