

**GERALD H. GRONDIN**  
**RESUME--CURRICULUM VITAE**

**NAME:** Gerald H. Grondin

**ADDRESS:** Oregon Water Resources Department 503-986-0848  
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**EDUCATION:** 2014 – M.A. University of Portland (Theology [Pastoral Ministry])  
1987 - M.S. University of Arizona (Hydrology [Groundwater])  
1983 - M.A. Ohio University (Development Studies [International Development])  
1978 - B.S. Oregon State University (Geology)  
1978 - B.S. Oregon State University (History)

**TRAINING:** 2008 – 15 to 16 January OWRD ArcGIS 9.2 (ArcMap)  
2007 – 4 to 7 September EMS-i GMS (Groundwater Modeling System)  
2007 – 29 to 30 May OWRD Columbia River Basalt  
1999 –18 to 21 October USGS MODFLOW 2000  
1991 – 25 March to 7 June Portland State University Chemical Hydrogeology  
1990 – 19 to 23 March IGWMC MODFLOW and MOC  
1989 – 3 to 4 August University of Wisconsin HELP Model  
1988 – 7 to 17 March USGS MODFLOW

**PROFESSIONAL MEMBERSHIPS:** American Geophysical Union  
The Geological Society of America

**PROFESSIONAL REGISTRATIONS:** Oregon Registered Geologist (registration number G2162)

**PROFESSIONAL COMMITTEES:**

Technical Advisory Committee to the Pacific Northwest Regional Water Quality Program Team, 2007 through 2011, (The program and team were a partnership of land grant universities and water research institutes in Alaska, Idaho, Oregon, and Washington, U.S. EPA Region 10, USDA NRCS, and CSREES, it stopped when USDA funding ended)

Conference Steering Committee for “Water in the Columbia Basin: Sharing a Limited Resource”, 2 to 4 November 2011, Skamania Lodge, Stevenson, Washington

Conference Steering Committee for “Water and Land Use in the Pacific Northwest: Integrating Communities and Watersheds”, 4 to 6 November 2009, Skamania Lodge, Stevenson, Washington

Conference Steering Committee for “Water in the Pacific Northwest: Moving Science into Policy and Action”, 7 to 9 November 2007, Skamania Lodge, Stevenson, Washington

Conference Steering Committee for “Groundwater Under the Pacific Northwest: Integrating Research, Policy & Education--2005”, 1 to 3 November 2005, Skamania Lodge, Stevenson, Washington

**PROFESSIONAL EXPERIENCE:**

9/95 –present Hydrogeologist, Groundwater and Hydrology Section, Oregon Water Resources Department, Salem, Oregon.

Hydrogeologist for the Groundwater Resource Assessment Program. Currently designing and leading a groundwater resource investigation of the 5,200 square-mile Harney Basin after conducting an analysis that indicates annual groundwater demand may exceed the resource capacity. Reviewed and commented on draft administrative rules for the basin. Previously designed and conducted groundwater resource investigation in the 920 square-mile Lost River sub-basin in southeast Klamath County. Wrote the investigation report used by the Department and the Oregon Water Resources Commission to determine the fate of groundwater permits and future groundwater use. Conduct periodic groundwater model use and review of applications to use groundwater.

- 8/90-9/95 Hydrogeologist, Groundwater Section, Oregon Department of Environmental Quality, Portland, Oregon
- Hydrogeologist and project team leader for coordinating and conducting an interagency, area-wide groundwater contamination investigation in the 550 square mile Lower Umatilla Basin Groundwater Management Area in northern Morrow and Umatilla Counties. Co-author of investigation report. Project results used by state agencies and a Citizens Committee to develop an Action Plan to correct the groundwater problem. Periodic groundwater model use. Permit review for groundwater protection rule compliance.
- 8/89-7/90 Hydrogeologist/Modeler, International Groundwater Modeling Center, Holcomb Research Institute, Butler University, Indianapolis, Indiana
- Acquire, test, evaluate, document, distribute and support groundwater models and related software. Collect, analyze, store, retrieve and disseminate groundwater model information. Assist research staff with information, data collection, and analysis. Assist in model testing and application. Coordinate, provide technical assistance and teach IGWMC groundwater modeling training programs. Act as technical contact person for IGWMC groundwater modeling transfer.
- 5/86-7/89 Hydrogeologist, Groundwater Section, Oregon Water Resources Department, Salem, Oregon
- Hydrogeologist for the Groundwater Resource Assessment Program which was established to identify, evaluate and quantify the groundwater resources in Oregon. Conducted comprehensive hydrogeologic field investigations and data analysis: determined the geometry of groundwater flow systems, aquifer hydraulic properties, groundwater/surface water relationships, annual recharge/discharge and water chemistry. Wrote results and resource management recommendations in published reports. Knowledge about groundwater modeling and assisted in the construction of models. Worked with federal, state, county, and municipal agencies and the general public. Conducted and participated in public hearings. Testified in court.
- 9/87-12/87 Hydrogeology Instructor, Science Division, Mount Hood Community College, Gresham, Oregon
- Taught Hydrogeology as a part-time instructor. Course topics included: principles of saturated and unsaturated flow, flow nets, coefficients of aquifer properties, aquifer tests, influence of boundaries, well interference, geothermal resources, groundwater quality, and groundwater pollution.
- 8/85-12/85 Teaching Assistant, Department of Hydrology and Water Resources Administration, University of Arizona, Tucson, Arizona
- Assisted in the instruction of Hydrology of Unsaturated Media by explaining lecture and text material, by assigning and correcting homework, and by helping the instructor correct exams.
- 9/84-12/85 Research Assistant, Department of Microbiology, University of Arizona, Tucson, Arizona
- Conducted batch, survival, and transport experiments with MS-2 and f2 bacteriophage for thesis. Thesis investigated the adequacy of solute-transport equations to describe virus transport by groundwater. Thesis work referenced in "Regional Ground-Water Quality" textbook edited by W.M. Alley (1993, John Wiley & Sons Inc).
- 5/84-8/84 Hydrologist/Lab Assistant, National Park Service Water Resources Field Support Lab, Colorado State University, Fort Collins, Colorado
- Coordinated water quality study (bacteria, giardia, and stream discharge) on two high elevation watersheds at Rocky Mountain National Park. Coordinated the activities of the Microbiology, Pathology and Natural Resources Departments and two graduate students.
- 11/81-4/82 Geologist/Inspector, Paul Weber and Associates, Seattle, Washington
- Monitored until completion the construction of the internal bracing and the earth wall stability of a 70 foot excavation for a 27 story hotel in downtown Seattle. Used an electronic inclinometer and direct observations to detect wall movement.

7/78-9/81 U.S. Peace Corps, Ghana, West Africa

Taught high school level math and physics (July 1978 to July 1980). Served as training coordinator for incoming health related volunteers (July 1980 to September 1980). Served as periodic trainer (primarily First Aid, May 1979, September 1979, July 1981, and September 1981). Extended contract to serve as a health project coordinator setting up a primary health care program for a hospital serving 150 villages (November 1980 to August 1981).

6/75-6/78 Park Technician (summer seasonal fire control), U.S. National Park Service, Lava Beds National Monument, Tulelake, California

Fire control and management, fire lookout, public safety and rescue, assist interpretative and maintenance staff, assist explanation of local history and volcanic geology.

#### **OTHER EMPLOYMENT:**

U.S. National Forest Service, OSU Marine Science Center, dormitory resident assistant, service industry work.

#### **PUBLICATIONS:**

Grondin, G.H. 2013. Geologic framework influence on managing groundwater interference with surface water, a Lost River sub-basin example, Upper Klamath River Basin, Oregon. American Water Resources Association 2013 Annual Water Resources Conference, Session 70, Portland, Oregon, 4-7 November 2013.

Grondin, G.H. 2010. Water supply and quality issues related to groundwater-surface water interaction in the upper Lost River Sub-basin, Klamath County, Oregon. USGS, NOAA, USFWS Klamath Basin Science Conference, Medford, Oregon, 1-5 February 2010, poster presentation.

Witter, R.C., G.H. Grondin, and J.C. Allan. 2009. Flooding of historical buildings at Oregon's Jessie M. Honeyman Memorial State Park linked to decadal-scale variations in precipitation. Geological Society of America 2009 Annual Meeting, Topical Session 179, Paper 179-4, Portland, Oregon, 18-21 October 2009.

Witter, R.C., G.H. Grondin, and J.C. Allan. 2008. Geomorphic and hydrologic assessment of historical water level changes at Cleawox Lake, Jessie M. Honeyman Memorial State Park, Lane County, Oregon. Open File Report O-08-05, Oregon Department of Geology and Mineral Industries.

Grondin, G.H. 2005. Water supply and quality issues related to groundwater-surface water interaction at Bonanza Big Springs, Town of Bonanza, Klamath County, Oregon. Groundwater under the Pacific Northwest, integrating research, policy, and education, Skamania Lodge, Stevenson, Washington, 1 to 3 November 2005, poster presentation.

Grondin, G.H., 2004. Ground Water in the Eastern Lost River Sub-Basin, Langell, Yonna, Swan Lake, and Poe Valleys of Southeastern Klamath County, Oregon. Ground Water Report 41, Oregon Water Resources Department, Salem, Oregon.

(View at [http://www.wrd.state.or.us/OWRD/GW/gw\\_pubs.shtml](http://www.wrd.state.or.us/OWRD/GW/gw_pubs.shtml), see groundwater report no. 41)

Grondin, G.H., K.C. Wozniak, D.O. Nelson, and I. Camacho. 1995. Hydrogeology, Groundwater Chemistry, and Land Uses in the Lower Umatilla Basin Groundwater Management Area, Northern Morrow and Umatilla Counties (Final Review Draft). Oregon Department of Environmental Quality, Portland, Oregon, Oregon Water Resources Department, Salem, Oregon, and Oregon Health Division, Portland, Oregon.

(view at: <http://www.deq.state.or.us/wq/groundwater/lubgwma.htm#rpts>, see "1995 Report on Hydrogeology, Groundwater Chemistry and Land Uses in the Lower Umatilla Basin Groundwater Management Area")

Grondin, G.H., M. Gannett, P.K.M. van der Heijde, and R.O. Patt. 1990. Critical Errors that Hydrogeologic Professionals Can Make With Computer Programs. In: AWRASymposium Proceedings on Transferring Models to Users.

- Grondin, G.H., and K.E. Lite. 1990. Numerical Model Uses and Limitations for Ground Water Management. In: AWRA Symposium Proceedings on Transferring Models to Users.
- Bales, R.C., C.P. Gerba, G.H. Grondin and S.L. Jensen. 1989. Bacteriophage Transport in Sandy Soil and Fractured Tuff. *Applied and Environmental Microbiology* 55(8):2061-2067.
- Lite, K.E., and G.H. Grondin. 1988. Hydrogeology of the Basalt Aquifers Near Mosier. Oregon: A Ground Water Resource Assessment. Ground Water Report 33, Oregon Water Resources Department, Salem, Oregon.  
(View at: [http://www.wrd.state.or.us/OWRD/GW/gw\\_pubs.shtml](http://www.wrd.state.or.us/OWRD/GW/gw_pubs.shtml), see groundwater report no. 33)
- Gerba, C., R.C. Bales, G.H. Grondin, S.R. Yates, M.V. Yates. 1987. Factors Controlling Virus Transport in the Subsurface. Division of Environmental Chemistry, American Chemical Society, Denver, Colorado.
- Lite, K.E., and G.H. Grondin. 1987. The Impact Upon Pressure Head When Wells Penetrate Multiple Basalt Aquifers Near Mosier, Oregon. In: Proceedings of the NWWA Focus Conference on Northwestern Ground Water Issues.
- Grondin, J., and C.P. Gerba. 1986. Virus Dispersion in a Coarse Porous Medium. In: Hydrology and Water Resources in Arizona and the Southwest, Proceedings of the 1986 Meetings of the Arizona Section AWRA, Hydrology Section of the Arizona-Nevada Academy of Science, and the Arizona Hydrological Society.

**SKILLS:**

Word processors, spreadsheets, databases, power point, GIS ArcMap, numerical models, calculators, computers, laboratory equipment, stereoscope, fluxgate magnetometer, photography, surveying, electronics, audio-visual equipment.