

**Jason D. McClaughry, RG
Eastern Oregon Regional Geologist;
National Cooperative Geologic Mapping Program
(STATEMAP) Coordinator for Oregon**

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Current projects

**National Cooperative Geologic Mapping Program/ USGS
STATEMAP funded project**

2015-2016 – Geologic compilation of the southern Oregon Coast, California to Coos Bay; Geologic mapping in the Middle Columbia Basin.

2014-2015 – Geologic mapping on the southern Oregon Coast: Bill Peak, Coquille, Riverton, Bullards, Cape Arago 7.5-minute quadrangles in preparation.

Oregon Water Resources Department funded project

2014-2015 – Geologic mapping in the Dufur West and Postage Stamp Butte 7.5-minute quadrangles in preparation.

Oregon State Library grant

2015-2016 – Digitization of Baker City Office and Baker County Mine Files.

Recently completed projects

National Geological and Geophysical Data Preservation Program funded project

2014 – USGS Data Preservation project, Baker City Office Mine Maps

National Cooperative Geologic Mapping Program/ USGS STATEMAP funded projects



2013-2014 – Geologic mapping on the southern Oregon Coast, Port Orford to Bandon

2012-2013 – Geologic mapping on the southern Oregon Coast, Crook Point to Port Orford

2011-2012 – Geologic mapping in the Hood River Valley

2010-2011 – Geologic mapping in the Bear Creek Valley, Ashland and Medford

2007-2010 – Geologic mapping in the southern Willamette Valley, Eugene to Albany

2005-2007 – Geologic mapping in the Lower Crooked Basin near Prineville

USGS National Geochemical Survey funded project

2004-2005 – Stream sediment and soil sampling: USGS National Geochemical Survey

Background

2011– Present, Eastern Oregon Regional Geologist/STATEMAP coordinator for Oregon,

Oregon Department of Geology and Mineral Industries, Baker City OR

2004 – 2011, Field Geologist, Oregon Department of Geology and Mineral Industries,

Baker City OR

2000 – 2003, M. Sc., Department of Geology, Washington State University, Pullman WA

2000, Field methods, Western Ireland, Boston University, Boston MA

1996 – 2000, B. Sc., Department of Geology, The University of Puget Sound, Tacoma WA

Certificates

Registered Professional Geologist, #G2087

Honors

Norman R. Anderson Award, University of Puget Sound Outstanding Geology Major, 2000

Professional Societies

Geological Society of America

Geological Society of the Oregon Country

International Association of Volcanology and Chemistry of the Earth's Interior

Society for Sedimentary Geology

Sigma Xi

Research Interests

- Volcanic stratigraphy, processes, and geochemistry
- GIS as a tool to analyze and interpret spatial and temporal geologic relations
- Timing and development of volcanic provinces in the Pacific Northwest
- Sediment gravity flow initiation, transport, deposition, and deposit characterization

PUBLICATIONS

Articles

Seligman, A.N., Bindeman, I.N., McClaughry, J.D., Stern, R., and Fisher, C., 2014, The earliest low and high $\delta^{18}\text{O}$ caldera-forming eruptions of the Yellowstone plume: Implications for the 30–40 Ma Oregon calderas and speculations on plume-triggered delaminations: *Frontiers in Earth Science – Volcanology*, v. 2:34, p. 1-9. doi: 10.3389/feart.2014.00034.

<http://journal.frontiersin.org/Journal/10.3389/feart.2014.00034/abstract>

Ferns, M.L., and **McClaughry, J.D.**, 2013, Stratigraphy and volcanic evolution of the middle Miocene La Grande – Owyhee eruptive axis in eastern Oregon, *in* Reidel, S.P., Camp, V. Ross, M.E., Wolff, J.A., Martin, B.E., Tolan, T.L., and Wells, R.E., eds., *The Columbia River Flood Basalt Province: Geological Society of America Special Paper 497*, p. 401-427, doi:10.1130/2013.2497(16).

<http://specialpapers.gsapubs.org/content/497/401.abstract>

McClaughry, J.D., Ferns, M.L., Streck, M.J., Patridge, K.A., and Gordon, C.L., 2009, Paleogene calderas of central and eastern Oregon: Eruptive sources of widespread tuffs in the John Day

and Clarno Formations, *in* O'Connor, J.E., Dorsey, R.J., and Madin, I.P., eds., *Volcanoes to Vineyards: Geologic Field Trips through the Dynamic Landscape of the Pacific Northwest*: Geological Society of America Field Guide 15, p. 407–434, doi: 10.1130/2009.fl d015(20).

<http://fieldguides.gsapubs.org/content/15/407.abstract>

McClaghry, J.D., Gordon, C.L., and Ferns, M.L., 2009, Field trip guide to the middle Eocene Wildcat Mountain caldera, Ochoco National Forest, Crook County, Oregon: *Oregon Geology* v. 69, no. 1, p. 5-24. <http://www.oregongeology.org/pubs/og/OGv69n01.pdf>

McClaghry, J.D., Ferns, M.L., Gordon, C.L., and Patridge, K.A., 2009, Field trip guide to the Oligocene Crooked River caldera: Central Oregon's supervolcano, Crook, Deschutes, and Jefferson Counties, Oregon: *Oregon Geology* v. 69, no. 1, p. 25-44. <http://www.oregongeology.org/pubs/og/OGv69n01.pdf>

McClaghry, J.D., Ferns, M.L., and Gordon, C.L., 2009, Field trip guide to the Neogene stratigraphy of the Lower Crooked Basin and the ancestral Crooked River, Crook County, Oregon: *Oregon Geology* v. 69, no. 1, p. 45-60. <http://www.oregongeology.org/pubs/og/OGv69n01.pdf>

Ferns, M.L., **McClaghry, J.D.**, and Madin, I.P., 2007, Preliminary assessment of the extent of the leaf fossil beds at Wheeler High School, Fossil, Wheeler County, Oregon: *Oregon Geology* v. 68, no. 1, p. 34-41. <http://www.oregongeology.org/pubs/og/OGv68n01.pdf>

McClaghry, J.D., and Ferns, M.L., 2006, Field trip guide to the geology of the Lower Crooked River Basin, Redmond and Prineville Areas, Oregon: *Oregon Geology* v. 67, no. 1, p. 15-23. <http://www.oregongeology.org/pubs/og/OGv67n01.pdf>

McClaghry, J.D., and Gaylord, D.R., 2005, Middle Eocene sedimentary and volcanic infilling of an evolving supradetachment basin: White Lake Basin, southern British Columbia: *Canadian Journal of Earth Science*, v. 42, p. 49–66, doi:10.1139/e04-105. <http://www.nrcresearchpress.com/doi/abs/10.1139/e04-105#.VGDsXcm9YQg>

Geologic Maps

Wiley, T.J., **McClaghry, J.D.**, Ma, L., Mickelson, K.A., Niewendorp, C.A., Stimely, L.A., Herinckx, H.H., and Rivas, J., 2014, Geologic map of the southern Oregon coast between Port Orford and Bandon, Curry and Coos Counties, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-14-1, 66 p., 3 plates, scale 1:24,000. <http://www.oregongeology.org/pubs/ofr/p-O-14-01.htm>

McClaghry, J.D., Ma, L., Jones, C.B., Mickelson, K.A., and Wiley, T.J., 2013, Geologic map of the southwestern Oregon coast between Crook Point and Port Orford, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-13-21, 55 p., 4 plates, scale 1:24,000. <http://www.oregongeology.org/pubs/ofr/p-O-13-21.htm>

McCloughry, J.D., Ferns, M.L., Gordon, C.L., Patridge, K.A., Lite, K.E., and Conrey, R.C., **in review**, Digital Geologic Map of the north half of the Lower Crooked Basin, Crook, Deschutes, Jefferson, and Wheeler Counties, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-XX-XX, XXX p., scale 1:63,360.

McCloughry, J.D., Wiley, T.J., Conrey, R.C., Jones, C.B., and Lite, K.E., 2012, Digital Geologic Map of the Hood River Valley, Hood River and Wasco Counties, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-12-03, 142 p., scale 1:36,000. <http://www.oregongeology.org/pubs/ofr/p-O-12-03.htm>

Wiley, T.J., **McCloughry, J.D.**, and D'Allura, J., 2011, Geologic database and generalized geologic map of Bear Creek Valley, Jackson County, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-11-11, 75 p., scale 1:63,360. <http://www.oregongeology.org/pubs/ofr/p-O-11-11.htm>

McCloughry, J.D., Wiley, T.J., Ferns, M.L., and Madin, I.P., 2010, Digital Geologic Map of the Southern Willamette Valley, Benton, Lane, Linn, Marion, and Polk Counties, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-10-03, 121 p., scale 1:63,360. <http://www.oregongeology.org/pubs/ofr/p-O-10-03.htm>

McCloughry, J.D., 2009, Preliminary geologic map of the Sweet Home 7.5' quadrangle, Linn County, Oregon: Oregon Department of Geology and Mineral Industries, Open File report OFR O-09-11, scale 1:24,000.

Ferns, M.L., and **McCloughry, J.D.**, 2009, Preliminary geologic map of the Brownsville 7.5' quadrangle, Linn County, Oregon: Oregon Department of Geology and Mineral Industries, Open File report OFR O-09-04, scale 1:24,000.

Ferns, M.L., and **McCloughry, J.D.**, 2009, Preliminary geologic map of the Waterloo 7.5' quadrangle, Linn County, Oregon: Oregon Department of Geology and Mineral Industries, Open File report OFR O-09-10, scale 1:24,000.

Ferns, M.L., and **McCloughry, J.D.**, 2008, Preliminary geologic map of the Lebanon and One Horse Slough 7.5' quadrangles, Linn County, Oregon: Oregon Department of Geology and Mineral Industries Open File report OFR O-08-11, scale 1:24,000.

McCloughry, J.D., and Ferns, M.L., 2007, Preliminary geologic map of the Eagle Rock 7.5' quadrangle, Crook County, Oregon: Oregon Department of Geology and Mineral Industries, Open File report OFR O-07-10, scale 1:24,000.

McCloughry, J.D., and Ferns, M.L., 2007, Preliminary geologic map of the Stearns

Butte 7.5' quadrangle, Crook County, Oregon: Oregon Department of Geology and Mineral Industries Open File report OFR O-07-12, scale 1:24,000.

Ferns, M.L., and **McCloughry, J.D.**, 2007, Preliminary geologic map of the Hensley Butte and Salt Butte 7.5' quadrangles, Crook County, Oregon: Oregon Department of Geology and Mineral Industries, Open File report OFR O-07-11, scale 1:24,000.

McCloughry, J.D., and Ferns, M.L., 2006, Preliminary geologic map of the Prineville 7.5' quadrangle, Crook County, Oregon: Oregon Department of Geology and Mineral Industries Open File report OFR O-06-22, scale 1:24,000.

McCloughry, J.D., and Ferns, M.L., 2006, Preliminary geologic map of the Ochoco Reservoir 7.5' quadrangle, Crook County, Oregon: Oregon Department of Geology and Mineral Industries Open File report OFR O-06-23, scale 1:24,000.

Ferns, M.L., and **McCloughry, J.D.**, 2006, Preliminary geologic map of the Huston Lake 7.5' quadrangle, Crook County, Oregon: Oregon Department of Geology and Mineral Industries Open File report OFR O-06-21, scale 1:24,000.

Ferns, M.L., and **McCloughry, J.D.**, 2006, Preliminary geologic map of the Powell Buttes 7.5' quadrangle, Crook County, Oregon: Oregon Department of Geology and Mineral Industries Open File report OFR O-06-24, scale 1:24,000.

Miscellaneous Reports

Burns, W.J., Hughes, K.L.B., Olson, K.V., **McCloughry, J.D.**, Mickelson, K.A., Coe, D.E., English, J.T., Roberts, J.T., Lyles Smith, R.R., Madin, I.P., 2011, Multi-hazard and risk study for the Mount Hood region, Multnomah, Clackamas, and Hood River Counties, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-11-16, 180 p. <http://www.oregongeology.org/pubs/ofr/p-O-11-16.htm>

Meeting Abstracts and Presentations

Gaylord, D.R., **McCloughry, J.D.**, Felt, K.J., Ferns, M.L., Spall, B.N., and Cahoon, E., 2015, Stratigraphic and geochronologic confirmation of the middle Eocene Clarno Formation in NE Oregon: Geological Society of America Abstracts with Programs v. 47, no. X, p. X.

<https://gsa.confex.com/gsa/2015CD/webprogram/Paper254966.html>

Hammond, P.E., Scott, M.T., **McCloughry, J.D.**, Niem, A., Ferns, M.L., and Nelson, B., 2014, A possible dislocated track of the Yellowstone mantle plume in Oregon: Geological Society of America Abstracts with Programs v. v. 46, no. 6, p. 156.

https://gsa.confex.com/gsa/2014AM/finalprogram/abstract_242815.htm

Seligman, A.N., Bindeman, I.N., **McCloughry, J.D.**, Stern, R.A., and Fisher, C., 2014, Plume-triggered delaminations and the earliest low $\delta^{18}\text{O}$ caldera-forming eruptions of the Yellowstone plume:

Implications for large 30–40 Ma Oregon calderas: Geological Society of America Abstracts with Programs v. v. 46, no. 6, p. 826.

https://gsa.confex.com/gsa/2014AM/finalprogram/abstract_248368.htm

Rivas, J., **McClaghry, J.D.**, and Schwartz, J.J., 2014, Provenance of Late Jurassic to Late Cretaceous sandstones in southwest Oregon: Geological Society of America Abstracts with Programs v. v. 46, no. 6, p. 517.

<https://gsa.confex.com/gsa/2014AM/webprogram/Paper249937.html>

McClaghry, J.D., Ferns, M.L., and Gordon, C.L., 2014, Geologic evolution of the middle Eocene Wildcat Mountain caldera, central, Oregon, U.S.A.: Geological Society of America Abstracts with Programs v. v. 46, no. 5, p. 72.

<https://gsa.confex.com/gsa/2014RM/webprogram/Paper238515.html>

McClaghry, J.D., Wiley, T.J., Conrey, R.C., Jones, C.B., and Lite, K.E., 2013, The Hood River graben: A late Pliocene and Quaternary intra-arc half graben in the northern Oregon Cascade Range: Geological Society of America Abstracts with Programs v. v. 45, no. 6, p. 14.

<https://gsa.confex.com/gsa/2013CD/webprogram/Paper219572.html>

Wiley, T.J., and **McClaghry, J.D.**, 2012, Lidar-enhanced geologic mapping, examples from the Medford and Hood River areas, Oregon: American Geophysical Union Annual Meeting Abstract EP13C-0858.

<http://fallmeeting.agu.org/2012/eposters/eposter/ep13c-0858/>

Cahoon, E., Gaylord, D.R., Ferns, M.L., **McClaghry, J.D.**, Felt, K.J., 2012, The Tertiary record of explosive volcanism in the Paleogene, Clarno Formation-Deposits of the Greenhorn 7.5' quadrangle, Oregon: Geological Society of America Abstracts with Programs v. 44, no. 7, p. 561.

<https://gsa.confex.com/gsa/2012AM/webprogramadap/Paper210740.html>

Felt, K.J., Gaylord, D.R., **McClaghry, J.D.**, and Ferns, M.L., 2012, Paleotopographic and volcano-tectonic evolution of the upper Clarno Formation in the Pogue Point 7.5' quadrangle, NE Oregon: Insights from the middle Miocene Dinner Creek Tuff: Geological Society of America Abstracts with Programs v. 44, no. 7, p. 561.

<https://gsa.confex.com/gsa/2012AM/webprogram/Paper209193.html>

Cahoon, E., Gaylord, D.R., Felt, K.J., Ferns, M.L., and **McClaghry, J.D.**, 2011, Volcanism and sedimentation in Paleogene-Neogene deposits in the Greenhorn 7.5' quadrangle, OR: Geological Society of America Abstracts with Programs v. 43, no. 5, p. 601.

https://gsa.confex.com/gsa/2011AM/finalprogram/abstract_193838.htm

Felt, K.J., Gaylord, D.R., McClaughry, J.D., and Cahoon, E., 2011, Mapping and correlating enigmatic Paleogene to Neogene Volcanogenic Sedimentary and Volcanic Strata in NE Oregon: Geological Society of America Abstracts with Programs v. 43, no. 5, p. 601.

<https://gsa.confex.com/gsa/2011AM/webprogram/Paper193832.html>

Patridge, K.A., Wolff, J.A., and **McClaughry, J.D.**, 2010, Petrology and Tectonic Setting of A-type John Day Rhyolites, Central Oregon: American Geophysical Union Annual Meeting Abstract V11B-2267.

<http://adsabs.harvard.edu/abs/2010AGUFM.V11B2267P>

Lambert, D.P., Gaylord, D.R., Spall, B.N., Ferns, M.L., and **McClaughry, J.D.**, 2010, Cenozoic evolution of the Whitney Basin, NE Oregon, inferred from metamorphic Baker Terrane- and Clarno and John Day Formation-derived gravel deposits: Geological Society of America Abstracts with Programs v. 42, no. 5, p. 425.

https://gsa.confex.com/gsa/2010AM/finalprogram/abstract_178229.htm

Spall, B.N., Gaylord, D.R., Lambert, D.P., **McClaughry, J.D.**, and Ferns, M.L., 2010, Oligocene-Miocene sedimentation and volcano-tectonic evolution of the Whitney Basin, NE Oregon: Geological Society of America Abstracts with Programs, v. 42, no. 5, p. 429.

https://gsa.confex.com/gsa/2010AM/finalprogram/abstract_181738.htm

Streck, M.J., Ferns, M.L., Ricker, C., and **McClaughry, J.D.**, 2009, Forty Million Years of Rhyolite Volcanism in Eastern Oregon: Implications for Rhyolite Petrogenesis Beyond Oregon: Geological Society of America Penrose Conference, Low $\delta^{18}\text{O}$ rhyolites and crustal melting: Growth and redistribution of the continental crust, Twin Falls, Idaho.

McClaughry, J.D., and Ferns, M.L., 2009, Eocene and Oligocene rhyolite calderas in the John Day and Clarno Formations of central and eastern Oregon, USA: A northward extension of the "ignimbrite flare up" in the Great Basin?: Geological Society of America Abstracts with Programs v. 41, no. 7, p. 643.

https://gsa.confex.com/gsa/2009AM/finalprogram/abstract_162883.htm

Patridge, K.A., Wolff, J.A., and **McClaughry, J.D.**, 2009, Zircon saturation in Fe-rich A-type Rhyolites of the John Day Formation: Geological Society of America Abstracts with Programs v. 41, no. 7, p. 437.

https://gsa.confex.com/gsa/2009AM/finalprogram/abstract_163183.htm

Ferns, M.L., and **McClaughry, J.D.**, Roddey, J.D., and Schueller, D.E., 2009, From the Outcrop to the Capitol Windows, Using New Geologic Discoveries as Outreach Tools: Geological Society of America Abstracts with Programs v. 41, no. 7, p. 282.

https://gsa.confex.com/gsa/2009AM/finalprogram/abstract_164047.htm

Niewendorp, C.A., Ferns, M.L., **McCloughry, J.D.**, Brooks, D.E., and Mabey, M.A., 2009, Naturally Occurring Hazardous Materials in Oregon: Geological Society of America Abstracts with Programs v. 41, no. 7, p. 593.

https://gsa.confex.com/gsa/2009AM/finalprogram/abstract_162961.htm

Ferns, M.L., and **McCloughry, J.D.**, 2009, An Overview of Paleogene silicic volcanism in Oregon: Geological Society of America Abstracts with Programs v. 41, no. 7.

Spall, B.N., Gaylord, D.R., Lambert, D.P., **McCloughry, J.D.**, and Ferns, M.L., 2009, Eocene to Oligocene volcanogenic sedimentary and volcanic rocks exposed in the Whitney 7.5' Quadrangle, Oregon: implications for volcano-tectonic evolution: Geological Society of America Abstracts with Programs v. 41, no. 7, p. 642.

https://gsa.confex.com/gsa/2009AM/finalprogram/abstract_163459.htm

Lambert, D.P., Gaylord, D.R., **McCloughry, J.D.**, Spall, B.N., and Ferns, M.L., 2009, Sedimentology of Quaternary gravel deposits, Whitney 7.5' Quadrangle, NE Oregon: implications for exhumation of Tertiary Clarno and John Day volcanic and pre-Tertiary Blue Mountains Terrane rocks: Geological Society of America Abstracts with Programs v. 41, no. 7, p. 643.

https://gsa.confex.com/gsa/2009AM/finalprogram/abstract_164653.htm

Patridge, K.A., Wolff, J.A., and **McCloughry, J.D.**, 2008, Petrogenesis of age-equivalent ash-flows near Prineville, Oregon: American Geophysical Union, Fall Meeting, abstract, #T23B-2031.

<http://adsabs.harvard.edu/abs/2008AGUFM.T23B2031P>

McCloughry, J. D., and Ferns, M.L., 2007, The Crooked River Caldera: Identification of an early Oligocene eruptive center in the John Day Formation of central Oregon: Geological Society of America Abstracts with Programs, v. 39, no. 4, p. 10.

https://gsa.confex.com/gsa/2007CD/finalprogram/abstract_120471.htm

McCloughry, J. D., and Ferns, M.L., 2007, Neogene Basalt Flow Stratigraphy near Prineville, Oregon: Interaction with the Ancestral Crooked River: Geological Society of America Abstracts with Programs, v. 39, no. 4, p. 72.

https://gsa.confex.com/gsa/2007CD/finalprogram/abstract_120474.htm

McCloughry, J.D., and Gaylord, D.R., 2003, Middle Eocene sedimentary and volcanic infilling of an evolving supradetachment basin: White Lake Basin, southern British Columbia: AAPG Abstracts with Programs, v. 12, p. A115, SEPM Student Award Session.

http://www.searchanddiscovery.com/pdfz/abstracts/pdf/2003/annual/extend/ndx_78500.PDF.html

McCloughry, J.D., and Gaylord, D.R., 2001, Middle Eocene sedimentation and volcanism in the extensional White Lake Basin, British Columbia: Geological Society of America Abstracts with Programs, v. 33, 6.

https://gsa.confex.com/gsa/2001AM/finalprogram/abstract_26560.htm

McCloughry, J.D., and Brunstad, K.A., 2000, Reinterpretation of the Ohanapecosh Formation at Burnt Mountain, S. Washington Cascades. Geological Society of America Abstracts with Programs, Geological Society of America, Cordilleran Section Meeting, 32, 6.

Theses

McCloughry, J.D., 2003, Middle Eocene sedimentary and volcanic infilling of an evolving supradetachment basin: White Lake Basin, southern British Columbia [MS thesis]: Pullman, Washington State University, 143 p.

McCloughry, J.D., 2000, Reinterpretation of the Ohanapecosh Formation at Burnt Mountain, S. Washington Cascades [BS thesis]: Tacoma, University of Puget Sound, 93 p.

Interpretive pamphlets

McCloughry, J.D. and Gordon C.L., 2009, Parks and Recreation Areas in Oregon's Supervolcano – The Crooked River caldera, 2 p.

McCloughry, J.D., and Gordon C.L., 2009, The Wildcat Mountain caldera – gem of the Ochoco National Forest, 2 p.

Invited Presentations

2015

Oregon State University Extension Service

Climate Trends in Eastern Oregon Agricultural and Forested Lands, La Grande and Ontario

Title: "The application of geologic mapping and lidar-based mapping technology to groundwater studies"

2014

Powder Basin Watershed Council, 2014 Fall Tour

Title: *“Geology and mining history of northeast Oregon”*

Geological Society of the Oregon Country President’s Field Trip

Title: *“Tertiary sedimentary geology of the Oregon Cascades, west and east sides”*

Co-leader with Dr. William Orr, University of Oregon

Jefferson Public Radio, Interview

Title: *“Geology and geologic hazards along the southern Oregon coast”*

Rocky Mountain (66th Annual) and Cordilleran (110th Annual) Joint Meeting

The Early Tertiary Magmatic Firestorm of the U.S. and Canadian Cordillera: Geochemical, Petrological, and Tectonic Constraints

Title: *“Geologic evolution of the middle Eocene Wildcat Mountain caldera, central, Oregon, U.S.A.”*

Oregon Society of Soil Scientists Winter Meeting,

Earth-Fire-Water: The Crooked River caldera

Title: *“Geologic development of the Crooked River caldera, central Oregon’s supervolcano”*

2013

Hood River County Board of Commissioners

Title: *“Geology, geologic hazards, and resources of the Hood River Valley”*

University of Oregon Seminar Series – *“The origins of silicic magmas”*

Title: *“Stratigraphy and volcanic evolution of the middle Miocene La Grande – Owyhee eruptive axis in eastern Oregon”*

Title: *“Reassessing the ancestral Cascades: New insights into Eocene and Oligocene volcanism in Oregon”*

Portland State University Seminar Series

Title: *"Reassessing the ancestral Cascades: New insights into Eocene and Oligocene volcanism in Oregon"*

Oregon Water Resources Department Groundwater Commission

Title: "The application of geologic mapping to groundwater studies"

2012

U.S. Bureau of Reclamation Groundwater Workshop, Hood River, Oregon

Title: *"Geology and groundwater resources in the Hood River Valley"*

2009

Society for Range Management, Pacific Northwest Section

Title: *"Ancient Supervolcanoes in Central and Eastern Oregon"*

Crook County Historical Society/ AR Bowman Memorial Museum

Title: *"The Crooked River caldera: Central Oregon's supervolcano"*

Geological Society of the Oregon Country

Title: *"A tale of two calderas"*

Baker County Rotary Club

Title: *"The Road to Gold: A different view of the Oregon Trail"*

2008

Oregon Paleolands Institute

Title: *"Geology of the Oligocene Crooked River caldera"*

Crook County Board of Commissioners/City of Prineville

Title: *"Geology of the Lower Crooked Basin"*

2007

Crooked River Watershed Council

Title: *"Geology of the Lower Crooked Basin"*

2006

DOGAMI landslide forum

Title: *"Storm-induced alpine debris flows derived from Pleistocene glacial moraines, Blue Mountains province, N.E. Oregon" (poster)*

Student mentoring projects

2013 – 2016

Seligman, A., Tectonic and geochemical origins of Paleogene calderas in central and eastern Oregon: [PhD candidate]: Eugene, University of Oregon.

2013 – 2015

Herinckx, H.H., Volcanology and Sedimentology of the Dalles Formation in the Dufur West quadrangle, Oregon [B.S. candidate]: Portland, Portland State University.

2013 – 2014

Rivas, J., Detrital zircon geochronology of the Gold Beach Terrane, southwestern Oregon, [B.S. candidate]: Northridge, California State University.

2011-2013

Jones, C.B., Surface water – groundwater interactions in the Mosier Creek and Rowena Creek Watersheds, Mosier, Oregon [M.S. thesis]: Portland, Portland State University.

2011 – EDMAP, Geological Society of America Graduate Student Research Grant Funded projects

Cahoon, E., Volcanism and sedimentation in Paleogene-Neogene deposits in the Greenhorn 7.5' quadrangle, OR [MS candidate]: Pullman, Washington State University.

Felt, K.J., 2013, Trends in gravel clast lithology as a correlation tool for Eocene to Oligocene volcanogenic sedimentary and volcanic strata in NE Oregon [MS thesis]: Pullman, Washington State University.

2008-2011

Lambert, D.P., 2011, Cenozoic evolution of the Whitney Basin, NE Oregon, inferred from metamorphic Baker Terrane- and Clarno and John Day Formation-derived gravel deposits [MS thesis]: Pullman, Washington State University.

Spall, B.N., 2011, Oligocene-Miocene sedimentation and volcano-tectonic evolution of the Whitney Basin, NE Oregon [MS thesis]: Pullman, Washington State University.

2007 - 2010

Patridge, K.A., 2010, Geochemistry and petrogenesis of John Day ash flows near Prineville Oregon [MS thesis]. Pullman, Washington State University, 149 p.

2007-2010 EDMAP Funded project

Dooley, M.M., 2010, Geologic mapping and petrochemical stratigraphy of the southern Warner Valley, southern Oregon, USA [MS thesis]. San Diego, San Diego State University, 110 p.

Additional map and book contributions

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