

## Curriculum Vitae

Jon A. Souder

Department of Forest Engineering, Resources, and Management

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### EDUCATION

Ph.D. University of California - Berkeley. Wildland Resources Science with major in natural resources policy, economics and management. Dissertation title: "Economic Strategies for the Management of School and Institutional Trust Lands: A Comparative Study of Ten Western States." 1990.

M.S. Wildland Resource Science. University of California - Berkeley. 1987. Emphasis in forest management and economics.

B.S. Biology. Marlboro College, Marlboro, Vermont. 1973. Emphasis in limnology and ecology.

### PROFESSIONAL EXPERIENCE

- 10/2015 – Present      *Assistant Professor and Specialist, Forest Watershed Extension.*  
Department of Forest Engineering, Resources, and Management, Oregon State University, Corvallis, OR. (<http://ferm.forestry.oregonstate.edu/>).
- 1/2016 – 12/2018      *Director.* Watershed Research Cooperative. College of Forestry, Oregon State University, Corvallis, OR. ([www.watershedsresearch.org](http://www.watershedsresearch.org)).
- 7/2000 – 9/2015      *Executive Director.* Coos Watershed Association, Charleston, OR. ([www.cooswatershed.org](http://www.cooswatershed.org)).
- 6/1998 – 6/2000      *Associate Professor of Forest Policy and Economics.* School of Forestry, Northern Arizona University, Flagstaff, AZ.
- 6/1998 to 5/1999      *Expert Witness,* Lewis Co. v. Belcher (Washington DNR HCP). Washington Attorney General, Olympia, WA.
- 11/1993 to 6/1998      *Assistant Professor of Forest Policy and Economics.* School of Forestry, Northern Arizona University, Flagstaff, AZ.
- 9/1992 to 11/1993      *Ciriacy-Wantrup Post-Doctoral Fellow in Natural Resource Economics.* Haas School of Business, University of California, Berkeley.
- 12/1990 to 9/1992      *Director, State Lands Project.* Department of Forestry and Resource Management, University of California, Berkeley.
- 3/1988 to 11/1990      *Graduate Research Assistant: State and Sovereign Lands Management.* Dr. Sally K. Fairfax. Department of Forestry and Resource Management, University of California, Berkeley.

- 8/1987 to 2/1988 *Graduate Research Assistant: California Sustained Yield Timber Management Legislation.* Drs. Hank Vaux and Jeff Romm. Department of Forestry and Resource Management, University of California, Berkeley.
- 1/1992 to 2/1994 & 7/1986 to 9/1987 *Consultant: Regional Economics and Benefit/Cost Analyses.* Office of Endangered Species of the U.S. Fish & Wildlife Service Albuquerque, NM.
- 4/1984 to 7/1985 *Computer Specialist / Systems Analyst.* Office of Management, U.S. Fish & Wildlife Service. Albuquerque, NM.
- 10/1978 to 3/1983 *Fish & Wildlife Biologist / Water Resources Planner.* Ecological Services Field Office, U.S. Fish & Wildlife Service, Albuquerque, NM.
- 7/1977 to 10/1978 *Fisheries Biologist/Water Resources Planner.* Chicago District, U.S. Army Corps of Engineers, Chicago, IL.
- 9/1974 to 9/1976 *Extension Fisheries Biologist.* U.S. Peace Corps, Kathmandu, Nepal, South Asia.

#### **PEER-REVIEWED PUBLICATIONS AND BOOKS**

- Wright, Emily C. and Jon. A. Souder. 2018. "Using Applied Science for Effective Watershed Restoration and Coho Salmon Recovery in Coastal Oregon Streams." *Case Studies in the Environment.* DOI: 10.1525/cse.2017.000489.
- Souder, Jon A. 2013. "The human dimensions of stream restoration: Working with diverse partners to develop and implement restoration." Pp. 114 - 143 *In: Roni, P., and T. Beechie (eds.) Stream and Watershed Restoration: A Comprehensive Guide To Planning, Implementation and Evaluation.* Wiley-Blackwell. xvi + 300 pp.
- Souder, Jon A. 2007. "Analysis of Tide Gate Opening Sequences for Effectiveness Monitoring of Fish Passage Performance." *Proceedings of the West Coast Symposium on the Effects of Tide Gates on Estuarine Habitats and Fishes*, 10/31 – 11/2, 2006. Charleston, OR. 11 pp.
- Giannico, Guillermo R. and Souder, Jon A. 2005. "Tide Gates in the Pacific Northwest: Operations, Types, and Environmental Effects." Oregon Sea Grant, ORESU-T-05-001.
- Giannico, Guillermo R. and Souder, Jon A. 2004. "The Effects of Tide Gates on Estuarine Habitats and Migratory Fish." Oregon Sea Grant, ORESU-G-04-002. 9 pp.
- Souder, Jon A. and Sally K. Fairfax. 2000. "In Land We Trusted." *In: Geisler, Charles and Gail Daneker (eds.). Property and Values* (Covelo, CA: Island Press).
- Rice, Teresa A. and Jon A. Souder. 1998. "Pulp Friction and the Management of Oregon's State Forests." *Journal of Environmental Law and Litigation* 13: 209 - 273.
- Souder, Jon A., Sally K. Fairfax, Teresa A. Rice and Larry MacDonnell. 1998. "Is State Trust Land Timber Management 'Better' Than Federal Timber Management? A Best Case Analysis." *Hastings West-Northwest Journal of Environmental Law and Policy* 5(1): 143.

- Souder, Jon A. 1998. "Writing across the curriculum efforts at Northern Arizona University's School of Forestry," *Natural Resources and Environmental Issues*: Vol. 7, Article 32. Available at: <http://digitalcommons.usu.edu/nrei/vol7/iss1/32>.
- Souder, Jon A. and Sally K. Fairfax. 1997. "Arbitrary Administrators, Capricious Bureaucrats and Prudent Trustees: Does It Matter in the Review of Timber Salvage Sales?" *Public Land and Resources Law Review* Vol. 18: 165 - 212.
- Souder, Jon A. and Sally K. Fairfax. 1996. The State Trust Lands: History, Uses and Sustainable Management. Lawrence: University Press of Kansas (Development of Western Resources Series). 370 pp.
- Souder, Jon A. and Sally K. Fairfax. 1995. "State Trust Lands." *Different Drummer* 2(3): 36-41.
- Souder, Jon A. and Sally K. Fairfax. 1995. "State Forest Trust Lands." *Different Drummer* 2(3): 46-53.
- Souder, Jon A., Sally K. Fairfax, and Larry Ruth. 1994. "Sustainable Resources Management and State School Lands: The Quest for Guiding Principles." *Natural Resources Journal*. 33(2): 271-304.
- Souder, Jon A. 1993. "Chasing Armadillos Down Yellow Lines: Economics in the Endangered Species Act." *Natural Resources Journal*. 32(4): 1093- 1139.
- Fairfax, Sally K., Jon A. Souder, and Gretta Goldenman. 1992. "The School Trust Lands: A Fresh Look at Conventional Wisdom." *Law and Environment* 22(4): 797-910.

#### **SELECTED NON-REFEREED PUBLICATIONS AND REPORTS**

- Souder, Jon A., Londi Tomaro, Guillermo Giannico, and Jeff Behan. 2018. Ecological Effects of Tide Gate Upgrade or Removal: A Literature Review and Knowledge Synthesis. Report to Oregon Watershed Enhancement Board. Institute for Natural Resources, Oregon State University. Corvallis, OR. 140 pp. Submitted to Oregon Watershed Enhancement Board in fulfillment of grant #217-8500-14090. Oregon Sea Grant ORESU-T-18-001 (<https://seagrant.oregonstate.edu/sgpubs/ecological-effects-tide-gate-upgrade-or-removal-literature-review-and-knowledge-synthesis>).
- Souder, Jon A. and Don Ivy. 2017. "Population and Housing." *In: Partnership for Coastal Watersheds Data Source: Coos Bay Area Communities*. Charleston, OR 41 pp.
- Souder, Jon A. 2016. "Zoning and Land Use." *In: Partnership for Coastal Watersheds Data Source: Coos Bay Area Communities*. Charleston, OR 37 pp.
- Souder, Jon A. 2016. "Communities and Neighborhoods." *In: Partnership for Coastal Watersheds Data Source: Coos Bay Area Communities*. Charleston, OR 20 pp.
- Souder, Jon A. 2016. "An Overview of Watershed Science." *Northwest Woodlands* 30(1): 8-13.
- Souder, Jon A. 2015. "Schools and Education." *In: Partnership for Coastal Watersheds Data Source: Coos Bay Area Communities*. Charleston, OR 28 pp.

- Wright, Emily C. and Jon A. Souder. 2015. "Sustainability Tools for Assessing and Rating (STAR) Communities Report for the Coos Bay Area." *In: Partnership for Coastal Watersheds Data Source: Coos Bay Area Communities*. Charleston, OR 63 pp.
- Souder, Jon A. 2015. "Riparian Restoration: Lessons from the Field." *Western Forester* 60(5): 17, 23.
- Wright, Emily and Jon A. Souder. 2014. "Palouse and Larson Creeks: 35 Years of Watershed Restoration and Research." Coos Watershed Association, Charleston, OR 20 pp.
- Souder, Jon A. and Ed Hughes. 2014. "Restoring Bottom Creek 2008 – 2010." Final Project Completion Report, OWEB Grant # 209-2010-7203. Coos Watershed Association, Charleston, OR 51 pp.
- Souder, Jon A. 2014. "Coho Life History in Tide Gated Lowland Streams." Project Completion Report, OWEB Grant # 210-2071. Coos Watershed Association, Charleston, OR 60 pp.
- Pochart, Meredith and Jon A. Souder. 2010. "Restoring Willanch Creek: Fifteen Years of Cooperation Benefiting Salmon." Coos Watershed Association, Charleston, OR 12 pp.
- Souder, Jon A. 2007. "Coos Watershed Association: Model Watershed Program." Proposal Submitted to the Bonneville Environmental Foundation. Coos Watershed Association, Charleston, OR 28 pp.
- Jerald C. Mast and Jon A. Souder. 1999. "Determining Benefits From Wildflower Viewing." Final Report, Challenge Cost Share Project #CPSO-R9-0621, Task Agreement NAU-39, Cooperative Agreement No. CA-1268-1-9003T. Submitted to the Interagency Native Plant Conservation Initiative, National Park Service, Washington, D.C. 66 pp.
- Souder, Jon A. 1998. "How Does Livestock Grazing Fit Into the Larger Societal Uses of Wildlands? Methods For Determining Benefits and Their Application to the Kaibab Plateau." Pp. 284 – 308 *In: Proceedings of A Symposium on Environmental, Economic, and Legal Issues Related to Rangeland Water Developments*, Sponsored by the Center for the Study of Law, Science and Technology, Arizona State University, November 13 – 15, 1997, Tempe, AZ.
- Souder, Jon A. 1997. "Valuing Resources and Uses in the Central Winter Ecosystem Management Area of the North Kaibab Ranger District." Report prepared for the North Kaibab Ranger District, Kaibab National Forest, Fredonia, AZ.
- Souder, Jon A. and Elizabeth L. Taylor. 1997. "Report of the Facilitators: Central Winter Ecosystem Management Assessment." March 22 and May 16, 1997. Report prepared for the North Kaibab Ranger District, Kaibab National Forest, Fredonia, AZ.
- Souder, Jon A., Christine Allison, and Susan Burke. 1997. "Appendix A. Kachina Village Community Survey Results." Kachina Village Area Plan, Coconino County, Flagstaff, AZ. May, 1997. 25 pp.
- Hall, Jaelith and Jon A. Souder. 1997. "Putting Beneficiaries First? An Evaluation of the State

- Land Department's Management of Arizona's Higher Education Trust Lands." 25 pp.
- Mast, Jerald C. and Jon A. Souder. 1997. "Economic Benefits From Wildflower Viewing: Draft Literature Review." Submitted to the National Park Service, Project Number CPSO-R90621. February 18, 1997. 36 pp.
- Souder, Jon A. 1996 "Predicting Ponderosa Pine Mortality from Wildfire: Suggestions for Marking Prescription Guidelines." Submitted to the Kaibab National Forest, Williams, AZ. 10 pp.
- Souder, Jon A. and Elizabeth L. Taylor. 1996. "Kaibab Plateau Working Group: Report of the March 30th, 1996 Meeting." Submitted to the Kaibab National Forest, Williams, AZ. 4 pp.
- Souder, Jon A. and Elizabeth L. Taylor. 1996. "Research and Information Needs to Support Natural Resources Management on the Colorado Plateau: A Report from Client Day at the Third Biennial Conference of Research on the Colorado Plateau, October 17, 1995." Technical Report NPS/NAUCPRS/NRTR-96/10. National Biological Service, Flagstaff, AZ. 32 pp.
- Souder, Jon A. 1996. "The Endangered Species Act – Economic Impacts: The Perception and the Numbers." Paper presented at the *Biodiversity Protection: Implementation and Reform of the Endangered Species Act* conference sponsored by the Natural Resources Law Center, University of Colorado, Boulder, June 10-12, 1996. 12 pp.
- Souder, Jon A. 1995. Testimony for the U.S. Senate Committee on Energy and Natural Resources, Forests and Public Land Management Subcommittee. Washington, D.C., October 2, 1995.
- Souder, Jon A. and Elizabeth L. Taylor. 1995. "Report of the Facilitators: Stakeholder Field Trip to the North Kaibab Ranger District, September 9 & 10, 1995." Submitted to the Kaibab National Forest, Williams, AZ. 8 pp.
- Souder, Jon A. 1994. "Analysis of the Economic Impacts of Designating Critical Habitat for *Salix arizonica* (Arizona willow) Under the Endangered Species Act of 1973, as Amended 1982." Prepared under contract for the U.S. Department of Interior, Fish & Wildlife Service, Office of Endangered Species, Region 2, Albuquerque, New Mexico. 57 pp.
- Souder, Jon A. 1992. "Analysis of the Economic Impacts of Designating Critical Habitat for *Meda fulgida* (Spikedace) Under the Endangered Species Act of 1973, as Amended 1982." Prepared under contract for the U.S. Department of Interior, Fish & Wildlife Service, Office of Endangered Species, Region 2, Albuquerque, New Mexico. 63 pp.
- Souder, Jon A. 1992. "Analysis of the Economic Impacts of Designating Critical Habitat for *Tiaroga cobitis* (Loach minnow) Under the Endangered Species Act of 1973, as Amended 1982." Prepared under contract for the U.S. Department of Interior, Fish & Wildlife Service, Office of Endangered Species, Region 2, Albuquerque, New Mexico. 78 pp.
- Fairfax, Sally K. and Jon A. Souder. 1992. "Keeping the Trust." *Totem*, Vol. 34(2):6-7.
- Souder, Jon A. "The Trust Mandate: What the States Could Teach the Feds About Sustainable

Land Management.” Prepared for presentation at the 1992 Annual Meeting of the Western Political Science Association, March 18-22, 1992, San Francisco, CA. 30 pp.

Souder, Jon A. and Sally K. Fairfax. 1991. *State Trust Lands Management Project: Western States Survey Responses*. State Lands Project. Department of Forestry and Resource Management, University of California, Berkeley, CA. 141 pp.

Souder, Jon A. and Sally K. Fairfax. 1990. "Comparative State Trust Forestry Programs: Part 1. Management Context, Trust Responsibilities, and Management Strategies." Working Paper 90-2-A, State Lands Project. Prepared for presentation at the 25th Annual Western Forest Economists Meeting. May 8-9, 1990. Wemme, Oregon. 18 pp.

Souder, Jon A. and Sally K. Fairfax. 1990. "The State School Trust Lands" Working Paper 90-1, State Lands Project. Paper presented as part of panel on "Federalism as Little Laboratories: Yes, No, Maybe." 1990 Annual Meeting of the Western Political Science Association. March 22-24, 1990. Newport Beach, CA. 54 pp.

#### **REPORTS IN COLLABORATION WITH THE NATURAL RESOURCES LAW CENTER, UNIVERSITY OF COLORADO, BOULDER**

Rice, Teresa and Jon A. Souder. 1997. "Managing Oregon's Chapter 530 Lands: Report to the Oregon Board of Forestry." July, 1997. 57 pp.

"Report to the Colorado Department of Natural Resources and the State Board of Land Commissioners." October, 1995. 153 pp.

"Report to the Washington State Board of Natural Resources From the Independent Review Committee." June, 1995. 128 pp.

#### **WORKSHOPS, TRAINING and PRESENTATIONS**

Souder, J.A. "Ecological Effects of Tide Gate Upgrade or Removal: A Literature Review and Knowledge Synthesis." Tillamook Bay Watershed Council, Tillamook, OR. January 29, 2019. 1.5 hour talk and discussion.

Souder, J.A. "N.F. Coquille River/City of Myrtle Point Drinking Water Protection Plan." Coos Soil & Water Conservation District, Coquille, OR. January 23, 2019. 1 hour talk and discussion.

Souder, J.A. "Water Quality and Aquatic Habitat Impacts" and "Working with Watershed Councils and Soil & Water Conservation Districts: Financial Assistance". At: *Effective Forest Roads Workshop*, OSU Forestry & Natural Resources Extension, Douglas County, Umpqua, OR, December 1, 2018. 1.5 hour presentation; 3 hours field tour.

Souder, J.A. "Watershed Processes & Land Management" *Lane Master Woodland Manager Training*. Junction City, OR, November 15, 2018. 1.5 hour class; 3 hour field tour.

Souder, J.A. "Middle-Aged' Riparian Restoration Projects: Stand Development Through Competition and Disturbance." Symposium: Riparian, Wetland, and Floodplain Restoration and Planning at the Restoring Resilient Communities in Changing Landscapes - Society for Ecological Restoration & Pacific Northwest Chapter of the

Society of Wetland Scientists Joint Regional Conference, Spokane, WA, October 16, 2018.

Hughes, M. and J.A. Souder. “Historical synthesis of the drivers, objectives, and methods of riparian restoration in the U.S. Pacific Northwest: implications for practitioners and their supporting communities.” Symposium: Riparian, Wetland, and Floodplain Restoration and Planning at the Restoring Resilient Communities in Changing Landscapes - Society for Ecological Restoration & Pacific Northwest Chapter of the Society of Wetland Scientists Joint Regional Conference, Spokane, WA, October 16, 2018.

Souder, J.A. “Restoring & Maintaining Wooded Riparian Areas – Beginners.” At: *Lane Tree School*. OSU Extension Service, Lane Co., Pleasant Hill, OR. June 2, 2018. 1.5 hour presentation for each class.

Souder, J.A. “Effects of Intensively Managed Forestland Practices on Water Quality, Fisheries, and other Water Related Values.” Hood River Watershed Group, Mid-Columbia Agricultural Research and Extension Center, Hood River, OR, May 22, 2018.

Souder, J.A. “Water Quality and Aquatic Habitat Impacts” and “Working with Watershed Councils and Soil & Water Conservation Districts: Financial Assistance”. At: *Effective Forest Roads: Keep Legal, Reduce Costs, Protect Water Quality*, OSU Forestry & Natural Resources Extension, Klamath County, Bly, OR. May 11, 2018. 1.5 hours + 3 hour field tour.

Souder, J.A. “Concluding the Watershed Research Cooperative’s Three Paired Watershed Studies.” Curry Watersheds, Gold Beach, OR, April 20, 2018.

Souder, J.A. “Engaging Private Landowners in Riparian Restoration.” OCEAN Riparian Day, Seaside Convention Center, Seaside, OR, April 16, 2018.

Souder, J.A. “Restoring & Maintaining Wooded Riparian Areas – Beginners” and “Restoring and Maintaining Wooded Riparian Areas - Intermediate Level.” At: *Clackamas Tree School*. OSU Extension Service, Clackamas Co., Oregon City, OR. March 24, 2018. 1.5 hour presentation for each class.

Souder, J.A. “Ecological Effects of Tide Gate Upgrade or Removal: A Literature Review and Knowledge Synthesis.” Oregon Watershed Enhancement Board (OWEB) Meeting - January, 2018 Meeting, Florence, OR, January 30, 2018.

Souder, J.A. “Water Quality and Aquatic Habitat Impacts” and “Working with Watershed Councils and Soil & Water Conservation Districts: Financial Assistance”. At: *Forest Roads Workshop: Assessment, Maintenance, and Improvement*, OSU Forestry & Natural Resources Extension, Columbia County, St. Helens, OR, December 8, 2017. 1.5 hour presentation; 3 hours field tour.

Souder, J.A. “Life Cycles of Watershed Councils.” Calapooia Watershed Council Monthly Meeting, Brownsville, OR, November 8, 2017.

Souder, J.A. “Life Cycles of Watershed Councils.” Coquille Watershed Association Executive

Council Meeting, Coquille, OR, June 21, 2017.

Souder, J.A. Souder, J.A. “Water Quality and Aquatic Habitat Impacts” and “Working with Watershed Councils and Soil & Water Conservation Districts: Financial Assistance”. At: *Coastal Roads Workshop*, OSU Forestry & Natural Resources Extension, Lincoln County, Waldport, OR, June 2, 2017. 1 hour presentation; 3 hours field tour.

Souder, J.A. “Innovative Local Partnerships for Watershed Restoration and Monitoring, Sustainable Funding for Watershed Stewardship.” - Columbia Basin Watershed Network (Canada) Annual General Meeting, May 27, 2017. 1 hour talk.

Souder, J.A. “Water Quality and Aquatic Habitat Impacts” and “Working with Watershed Councils and Soil & Water Conservation Districts: Financial Assistance”. At: *Coastal Forest Roads Workshop: Assessment, Maintenance, and Improvement*, OSU Forestry & Natural Resources Extension, Coos & Curry County, Myrtle Point, OR, April 1, 2017. 1 hour presentation; 3 hours field tour.

Souder, J.A. and B. Withrow-Robinson. “Restoring and Maintaining Wooded Riparian Areas.” At: *Clackamas Tree School*. OSU Extension Service, Clackamas Co., Oregon City, OR. March 25, 2017. 1.5 hour presentation.

Souder, J.A. and G. Giannico. “‘Hands-on’ Watershed Restoration Prioritization Workshop.” Sponsored by the Coos Soil & Water Conservation District, Coos Bay, OR, November 3, 2016. 8 hours.

Souder, J.A. “Watershed Processes & Land Management.” At: *Jackson/Josephine Master Woodland Manager Course*, Jacksonville, January 18 - 19, 2017. 1 hour presentation; 4 hours field tour.

Souder, J.A. “Working with Industrial Timberland Owners: Lessons from 22 Years in the Coos Watershed.” At: Annual Meeting of the Upper Nehalem Watershed Council, Vernonia, OR. May 21, 2016. 2 hour presentation and discussion.

Souder, J.A. “Organizational Development for Watershed Councils: Managing Finances, Grants, and People.” Siuslaw Watershed Council Board and Staff, Mapleton, OR. July 13, 2016. 2 hour presentation and discussion.

Souder, J.A. “Watershed Research Cooperative Update.” At: *2016 Oregon Society of American Foresters Annual Meeting*, Coos Bay, OR. April 27, 2016. 1 hour.

Souder, J.A. “Thinking Restoration.” At: OFRI, *Fish Passage and Habitat Workshop - South Coast*. Coos Bay, OR. March 9, 2016. 1 hour presentation.

Giannico, G. and J.A. Souder. “Watershed Restoration Prioritization.” *Sea Grant Week 2016*, Newport, R.I. October 12, 2016. 3 hours.

Giannico, G., J.A. Souder, and P. Roni. “Watershed Restoration: How to Prioritize Restoration Actions and Develop Effectiveness Monitoring Programs.” Oregon State University, Corvallis, OR May 3 - 4, 2016. 16 hours.

Souder, J.A. “Thinking About A Restoration Project? A Quick Starter Guide.” At: *Klamath/Lake Master Woodland Manager Course*, Klamath Falls, OR, May 13 – 14, 2016 Klamath



Falls/Lakeview, OR. 2 hour presentation and discussion; 8 hour field tour.

## **COURSES TAUGHT**

***Oregon State University***, 2018 - Present

FE 460 Forest Operations Regulations and Policy Issues – 3 credits (WIC/ABET)

***Southwestern Oregon Community College***, 2012 – 2014

BI 140 Practical Ecology (Coho Field Studies) – 3 credits

BI 280 Field Experience (Internship) – 1 to 3 credits

***University of Washington***, 2010 – 2017 (biannually)

FSH 428 Watershed Restoration (2 sessions/class on Human Dimensions)

***Northern Arizona University***, 1993 – 1999

FOR 101 Introduction to Forestry (Freshman Intensive) – 3 credits

FOR 360 Natural Resources Policy (Semester B) – 3 credits

FOR 445 Wilderness Management – 3 credits

FOR 424C Forest Ecosystem Planning II [Implementation Module] – 3 credits

FOR 605 Natural Resources Policy Analysis – 3 credits

FOR 215 Writing In Forestry – 2 Credits [Developed course with English Department]

***University of California – Berkeley***, 1987 - 1993

ESPM 72 Introduction to Geographic Information Systems [1 Week Shortcourse].

ESPM 172 Photogrammetry and Remote Sensing [Teaching Assistant].

## **GRANTS HISTORY**

“Trees To Tap: Municipal Water Supply Study.” PI. Co-PIs: Lisa Gaines (INR); Kevin Bladon, Bogdan Strimbu. Jeff Behan (INR) Policy Analyst. Duration: 1/1/2018 – 6/30/2019. Funded through the Institute for Natural Resources from the Oregon Forest Resources Institute (OFRI). \$120,000.

“Increasing the Extent, Effectiveness, and Participation in Riparian Restoration in Oregon.” Role: PI, with Glenn Ahrens, Max Bennett, Paul Oester, and Brad Withrow-Robinson as Co-PIs. Duration: 1/13/2016 – 12/31/2017. USDA Renewable Resources Extension Act (RREA). \$20,000.

“Ecological Effects of Tide Gate Improvement or Removal: A Literature Review and Knowledge Synthesis.” Role: Co-PI, with Lisa Gaines (PI), Guillermo Giannico (Co-PI), and Jeff Behan (CO-PI). Duration: 12/1/2016 – 6/30/2017. Oregon Watershed Enhancement Board (OWEB). \$38,303.

“From chaos to consistency: Moving towards data stewardship and sharing for the Watershed Research Cooperative.” Duration: 7/1/2016 – 6/30/2017. Role: PI, with Kevin Bladon (CO-PI), Jeff Hatten (Co-PI), and Lisa Ganio (Co-PI). OSU College of Forestry Fish & Wildlife Habitat in

Managed Forests (FWHMF). \$24,274.

“Mobile Communications Technology as Tool for Understanding the Ecology and Management of Coho Salmon.” Role: Co-PI, with Karen Pringle (SWOCC, PI), Guillermo Giannico (Co-PI), Robert Fields (SWOCC, Co-PI), and Diana Schab (SWOCC, Co-PI). Duration: 4/2/2012 to 4/1/2013. AT&T Technology and Environment. \$25,000.

“Effects of tide gates on juvenile coho salmon movement and residence in estuary habitats.” Role: Co-PI, with Guillermo Giannico (PI). Duration: 9/1/2007 – 10/31/2010. Oregon Watershed Enhancement Board (OWEB). \$267,121.

“Restoration Planning for Lowland Tributary Streams in the Coos Bay Estuary, Oregon.” Role: Co-PI, with Guillermo Giannico (PI). Duration: 7/1/2004 - 2/28/2007. National Sea Grant Pilot Project. \$100,000.

In my position of Executive Director of the Coos Watershed Association I have personally written, and worked with a team to write, over \$20 million in successful grants for watershed assessment, restoration projects, and monitoring. Included in this total are nationally competitive grants to the National Oceanic and Atmospheric Agency, over \$350,000 in private foundation grants, and approximately \$1 million/year in restoration projects (grant + partner contributions).

Prior academic grants include:

"Effects of Political, Social, Economic and Land Use Changes on Biologically Sensitive Habitat in the Arizona-New Mexico Mountain Ecoregion." Duration: 5/99 - 5/00. The Nature Conservancy, Santa Fe, NM (with matching funds from the U.S. Forest Service Rocky Mountain Research Station and the U.S. Fish & Wildlife Service). \$32,000.

"Environmental History As a Foundation For Adaptive Management: Demonstration and Application To Southwestern Interior Forests." Duration: 4/99 - 3/02. U.S.D.A.-Forest Service, Rocky Mountain Research Station. \$109,021.

“Economic Benefits From Wildflower Viewing: A Pilot Study of Arizona.” Challenge Costshare Project of the Inter-agency Native Plant Conservation Initiative (National Park Service, Bureau of Land Management, and Forest Service). Submitted: 9/5/96. Duration: 10/1/96 - 9/30/98. \$46,000 (includes \$22,000 in direct state match for graduate assistantship).

“Ecosystem Management Facilitation.” Kaibab National Forest, U.S.D.A.-Forest Service. Coprincipal Investigator with Elizabeth L. Taylor. Submitted: 9/25/95. Duration: 10/1/95 - 9/30/97. \$28,225

“Colorado Plateau Research Needs Survey and Assessment.” Colorado Plateau Research Station, National Biological Service. Co-principal Investigator with Elizabeth L. Taylor. Submitted: 10/13/95. Duration: 10/15/95-11/15/96. \$6,800.

“Facilitate Forest Service Field Trip to North Kaibab Ranger District.” Kaibab National Forest, U.S.D.A.-Forest Service. Co-principal Investigator with Elizabeth L. Taylor. Submitted 8/28/95. Duration: 9/5/95 - 9/30/95. \$2,526.

“Measuring Forestry Sector Program Success in the Terai Region of Nepal.” U.S. Agency for International Development, Mission to Nepal. Funding to provide summer field research for a Thomas Jefferson Fellow. Submitted: 8/14/94. Duration: 5/15/95-9/15/95. \$5,200.

"Analysis and Interpretation of Mechanisms to Ensure Credible Commitments of Natural Resources Policies." School of Forestry Mission Research: Combination State and Federal McIntire-Stennis. Submitted: 4/29/94. Duration: 7/94 - 6/97. \$39,900.  
"Evaluation of the New Mexico Range Stewardship Incentive Program." New Mexico State Land Office. Matching Funds for Mission Research Project. Submitted: 7/29/94. Duration: 10/94-6/96. \$4,282.  
"Determining externalities resulting from natural resources protection." N.A.U. Organized Research Award for the 1995-96 academic year. \$4,000.

## **SERVICE, AWARDS, AND ACCOMPLISHMENTS**

Oregon State University, Vice-Provost's Award for Excellence: "Prioritization of Watershed Restoration Actions Involving Riparian Landowners." With Guillermo Giannico. April 17, 2017.

Oregon State University, Marine Studies Initiative, Outreach, Engagement, and Partnerships Working Group member, 2014 – 2015.

Oregon State University Extension Association, Cooperator of the Year Award (2012) in the Professional/Business Leader Category.

American Leadership Forum Senior Fellow – 2011 onwards.

Southwestern Oregon Community College, Forestry and Natural Resources Advisory Committee, 2001 – 2015.

Ford Institute Leadership Program (FILP) of The Ford Family Foundation, Roseburg, OR. FILP Graduate (2005), Community Trainer (2007, 2009), and Regional Program Organizer and Trainer (2011-12).

Southwestern Oregon Community College, Recognition of Coos Watershed Association as for Exemplary Partner for its student internship program, 2014.

Oregon State Land Board Partnership Award (2013) to the Partnership for Coastal Watersheds (PCW), a joint effort of the South Slough National Estuarine Research Reserve and the Coos Watershed Association.

Oregon Department of Geology and Mineral Industries (DOGAMI), Oregon Plan Award (2013) to Weyerhaeuser Company for efforts to improve site operations, protect water quality, and enhance fish and wildlife habitat for two Coos County quarries. Coos Watershed Association provided the designs, funding proposals, and implementation for the restoration components.

Acting Director, Native American Forestry Program, College of Forestry, Northern Arizona University, academic year 1997 – 1998.

Twice honored by NAU President Clara Lovett at the Senior Graduation Breakfast as the faculty member who had most influenced Ms. Jaelith Hall and Ms. Nicole Csaszar, *Outstanding Academic Achievement Award* winners.

My and Sally Fairfax's book, *State Trust Lands: History, Management, and Sustainable Use*, has been positively reviewed in the *American Political Science Review* (Vol. 91(1): 199), *Environmental History*, and *Western Historical Quarterly* (Spring, 1997), and nominated for the Forest History Society's Charles A. Weyerhaeuser Award.

My research findings on state land management have been used in two state Attorney General opinions. The Oregon Attorney General used my research to determine how Federal and state laws of general applicability effect management of state trust lands. Similarly, the Washington Attorney general used my work specify how the Washington Board of Natural Resources and the Washington Department of Natural Resources should comply with their trust mandate. The Arizona State Auditor extensively used the material in *State Trust Lands* in his Sunset review of the Arizona State Land Department.

I have been invited to testify before both the U.S. Senate (Committee on Energy and Natural Resources) and the U.S. House of Representatives (Committee on Resources).

My research work has been used in newspaper and magazine articles ranging from *The Economist* to *School Board News*.