LEON H. LIEGEL, Short Professional CV – 18 June 2016

E-mail liegell@oregonstate.edu
Languages Bilingual in Spanish since 1970
Education B.S., Forestry, Univ. Wisconsin, Stevens Point, 1970; M.S., World Forestry, SUNY Syracuse, 1973; Ph.D., Co-majors in Forestry/Soil Science, North Carolina State Univ., Raleigh, 1981

Current Position Summer 2006 to present: Developer/instructor of Ecampus natural resource and soil courses at Oregon State University's College of Forestry and Crop and Soil Science Dept, Corvallis, OR; teach SNR 533 since 2007; co-developer with two colleagues---one in State of Oregon Agricultural Extension, the other at NC State's Dept of Soil Science---to develop SOIL 511, *Soil: A Natural and Societal Resource*, scheduled for its first online offering in winter or spring term, 2017.

Previous Position (Sept 2001 to December 2007) Research Associate, Forest Science Department, and Coordinator, Sustainable Forests Partnership, Oregon State Univ. Corvallis, OR 97331-5752.

USDA Forest Service Positions (1973-2001) Pacific Northwest Research (**PNW**) Station, 3200 SW Jefferson Way, Corvallis, OR 97331-8550: June 1998 to August 2001, GS-460-14 Research Forester; Jan. 1993-June 1998, GS-460-13/14 Team Leader, Forest Health Monitoring; May 1985-Dec. 1992, GS-470-13 Research Soil Scientist [May 1985-Sept 1991, worked via interagency agreement with the US Environmental Protection Agency, 200 SW 35 St., Corvallis, OR, 97333]. Institute of Tropical Forestry, Rio Piedras, PR: 1979-85, GS-470-11/12 Research Soil Scientist; 1975-78, GS-460-09/11 Research Forester; 1973-74, GS-462-09 Supervisory Forestry Research Technician.

Other Positions Puerto Rico Area of Natural Resources, San Juan, PR: 1971-73, Natural Resources Specialist (land use inventory); USDA Soil Conservation Service, Bayamón, PR: 1970 (2 months), GS-460-05 Forester.

Overseas Forestry/Natural Resource Experience Brazil, 1 wk, 1980; Colombia, 2 wks, 1971; Costa Rica, 10 wks, 1971-90; United Kingdom, 2 wks, 1975-90; Germany, 4 wks, 1975; Haiti, 2 wks, 1982; Honduras, 2 wks, 1971; Jamaica, 4 wks, 1979-83; Puerto Rico, 14 yrs, 1970-98; Surinam, 1 wk, 1979; Trinidad, 4 wks, 1979-84; Venezuela, 5 wks, 1979-93.

OREGON STATE UNIVERSITY (OSU) – SUSTAINABLE FORESTRY

1 Jan. 2004 to 31 Dec 2007: Coordinator, OSU Sustainable Forests Partnership and member, National Sustainable Forests Partnership; July 2002 to 1 Jan. 2004: Co-Principal Investigator with Steve Radosevich and others for a $250K competitive grant from the National Commission on Science for Sustainable Forestry: "Survey Lessons Learned About…Forest Biodiversity…"; Sept. 2001 to Dec. 2003, via the OSU Sustainable Forestry Partnership: co-developer for a $10K OSU Critical Issues grant to create curriculum for a 14-week Sustainable Natural Resources Graduate Certificate Program for summer 2006; as courtesy Associate Professor, 1986-2002: give guest lectures, seek grant funds, and exchange information with students and faculty; 1996-1997: coordinated an $8K competitive grant to prepare a U.S. Man and the Biosphere (**US-MAB**) teaching case study on human and natural resource sustainability; 1993-1997, coordinated a $51K competitive grant from the US-MAB Program with five regional scientists to study the biological, sociocultural, and managerial concerns of commercial and recreational harvesting of chanterelle mushrooms on the Olympic Peninsula--13 publications including Do's and Don'ts of Poster Displays, 1989 (http://www.ncsu.edu/project/posters/); AMBIO Special Report No. 9, 1998; and 3 posters.

FOREST HEALTH MONITORING (FHM)

July 1998-August 2001: Resource Analyst to report and interpret FHM field data and other resource databases; Jan. 1993-June 1998: Team Leader for regional FHM activities in CA, OR, and WA with a $250K to $1.1 million annual budget: supervised baseline detection monitoring field plot establishment; conducted personal research to identify mensuration, damage, crown, soil, and other "indicators" of forest (health) conditions for diverse regional and national ecosystems; member of a 6-person core team that administered an annual $3-5 million FHM National Program in the United States--22 publications, 4 posters.

CULTURE AND BIOLOGY OF FOREST PLANTS

Oct. 1991-Dec. 92: Part of a 5-member team that investigated conservation biology of Pacific yew (Taxus brevifolia). Personal contribution was determining effects of stand density, soils, and other variables on individual tree and stand growth across dry, moist, and wet landscapes in Oregon--2 publications.

WHOLE-WATERSHED STUDIES AND GLOBAL CLIMATE CHANGE RESEARCH

May 1985-Sept. 1990: Managerial Soil Scientist and member of a 14-person multidisciplinary team that made regional predictions about acidic deposition effects on 262 lake/stream watersheds in the eastern United States; supervised contractor projects; analyzed, interpreted, and published data about effects of land use on soil physical and chemical properties and lake water chemistry. Oct. 1990-Sept. 1991: Evaluated the potential of forest practices to sequester greater carbon in temperate and tropical ecosystems--9 publications, 3 posters.

TROPICAL ECOSYSTEMS RESEARCH

June 1973-May 1987: Conducted independent/cooperative research in Puerto Rico/Latin America on land use, silviculture, genetics, growth, ecology, and nutrient cycling of plantation and natural forests. Grants: A.E. Lugo and L.H. Liegel, 1980, Nutrient dynamics of tropical tree plantations in a Biosphere Reserve--a $50K competitive US-MAB grant; L.H. Liegel, 1983-87, Principal investigator for a US-AID $150K study to predict growth and site response of Pinus caribaea across Costa Rica, Jamaica, Puerto Rico, Trinidad, and Venezuela--46 publications, 1 poster.

Significant Publications for Select Professional Subject Areas

OREGON STATE UNIVERSITY, SUSTAINABLE FORESTRY, AND NATURAL RESOURCES

Smidt, M., Finley, J., Liegel, LH., Reed, AS., Brinker, R., Pereira, C. 2005. Applying experience from research, outreach, and instruction in forestry to the Montreal Process Criteria and Indicators. One of seven papers summarizing *Multiple Perspectives on the National Report on Sustainable Forests 2003*, as requested by the Roundtable on Sustainable Forests. [Liegel and Reed reviewed perspectives from the western United States.]

Radosevich S., Fletcher, R., Kerkvliet, K., Liegel, L., Smidt, M., Jacobson, M., Finley, J., Luloff, A. 2003. Final Report: Survey the lessons learned about managing forests for biodiversity and sustainability based on practical experiences. Results of a $250K competitive grant funded by the National Commission on Science for Sustainable Forestry (**NCSSF**), 2002-2003.

Liegel, L; Pilz, D; Love, T; Jones, E. 1998. Integrating biological, socioeconomic, and managerial methods and results in the MAB Mushroom Study. AMBIO Special Report No. 9: 26-33. [Liegel was Compiler and contributed to four other articles in the AMBIO report.]

FOREST HEALTH MONITORING (FHM)

Kerns, B.K., Liegel, L., Pilz, D., Alexander, S.J. 2002. Biological inventory and monitoring. pgs. 237-269. *In* Nontimber Forest Products in the United States. Eric T. Jones, Rebecca J. McLain, James Weigand (Eds.). University Press of Kansas, Lawrence. 424 p.

Liegel, L; Busing, R; Rios, J. 1996. Forest health detection monitoring results, 1992-95. Pg. 37-46 and Appendix B In: California forest health in 1994 and 1995. US Dep. Agric. For. Serv. Report R5-FPM-PR-002. San Francisco: US Department of Agriculture, Forest Service, Pacific Southwest Region. 63 p.

Busing, RT; Liegel, LH; LaBau, VJ. 1996. Overstory mortality as an indicator of forest health in California. Environmental Monitoring and Assessment 42: 285-295.

CULTURE AND BIOLOGY OF FOREST PLANTS

Bailey, JD; Liegel, LH. 1998. Pacific yew (Taxus brevifolia Nutt.) growth and site factors in western Oregon. Northwest Science 72(4): 283-292.

WHOLE-WATERSHED STUDIES AND GLOBAL CLIMATE CHANGE RESEARCH

Liegel, LH. 1993. Potential effects of global climate change on forest resources and management mitigation options. Pages 183-202 In: Memorias del Primer Simposio Nacional, Agricultura Sostenible: Una Opción para el Desarrollo sin Deterioro Ambiental. Comisión de Estudios Ambientales, Colegio de Postgraduados. Montecillo, México. 392 p.

Liegel, L; Cassell, D; Church, R; Stevens, D; and Shaffer, P. 1991. Characteristics of land use in Northeast and Southern Blue Ridge Province: Associations with acid rain effects on surface-water chemistry. Environmental Management 15: 269-279.

TROPICAL ECOSYSTEMS RESEARCH

Liegel, LH. (Compiler). 1991. Growth and site relationships of Pinus caribaea across the Caribbean Basin. US Dep. Agric. For. Serv. Gen. Tech. Rept. SO-83. New Orleans: US Department of Agriculture, Forest Service, South. For. Exp. Stn. 70 p. [Summarizes growth and yield field data across diverse soils in Costa Rica, Jamaica, Puerto Rico, Trinidad, and Venezuela]

Liegel, LH; Venator, CR. 1987. A technical guide to forest nursery management in the Caribbean and Latin America. US Dep. Agric. For. Serv. Gen. Tech. Rep. SO-67. New Orleans: US Department of Agriculture, Forest Service, South. For. Exp. Stn. 156 p.

Liegel, LH; Balmer, WE; Ryan, GW. 1985. Honduras pine spacing trial results in Puerto Rico after 18 to 20 years. Southern Journal of Applied Forestry 9(2): 69-75.

Liegel, LH. 1984. Effect of adding magnesium nitrate before dry-ashing on phosphorus in Honduras pine foliage. J. Agric. Univ. Puerto Rico. 68(2): 219-221.

Liegel, LH. 1984. Results of 5-to 6-year-old provenance trials of Pinus oocarpa Schiede on eight sites in Puerto Rico. *Silvae Genetica* 33(6): 223-230

Liegel, LH. 1983. Effect of dry-heat sterilization on chemical properties of Puerto Rican soils. Commun. Soil Sci. Plant Anal. 14(4): 277-286.