

Peter Eugene Linehan

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Summary of Relevant Professional Experience and Graduate Education: At Penn State Mont Alto Designed and taught courses in Forest Mapping, GPS data collection and mapping Computers in Forestry, Remote Sensing, Geographic Information Systems, and Forest Management and Valuation for the Forest Technology Program. Research in forest economics, forest products markets and valuation, and the history of forestry in Pennsylvania.

At the University of Florida launched a new off-campus teaching program in Natural Resource Conservation. Designed and taught three required courses and three electives. Developed web-based interactive teaching tools to support courses. Carried out publicity program, recruiting, and student counseling. Conducted research in risk analysis models for forest economics and in evaluating recreational values in a State Forest.

Over nine years experience in international natural resource conservation consulting, both long-term and short-term assignments in West Africa.

Graduate education in forest resource economics. Course work emphasized natural resource economics, international trade, micro-economics, and operations research. Research in the development of knowledge-based systems for natural resource management.

Education Summary:

Ph.D. Forest Resources, University of Maine, May 1993.

M.S. Forest Economics, University of Maine, December, 1989.

B.S. Forest Utilization, University of Maine, May, 1979.

Experience Summary

Associate Professor, Penn State University, Mont alto Campus. May 2006 to present.

Assistant Professor, Penn State University, Mont Alto Campus. August 2000 to May 2006. Promoted to **Associate Professor**, effective July 2006.

Assistant Professor. University of Florida. Milton, Florida. August, 1994 to July, 2000.

Graduate Research Assistant, Instructor, and Assistant Professor, University of Maine, January, 1988 to December, 1993.

Forestry Advisor. International Science and Technology Institute. Thies, Senegal. September, 1985 to December, 1987.

Forest Surveying Instructor. USAID, Burkina Faso. November, 1981 to March, 1985

Peace Corps Volunteer. Burkina Faso. July, 1979 to July, 1981.

Consultancies Summary

Guest Instructor. University of Helsinki. September, 1998

Natural Resources Specialist. IRG, Ltd. Banjul Gambia, May, 1994.

Principal Trainer, Agroforestry. Labat-Anderson, Inc. Senegal, Mali, and Niger. December, 1989 to June, 1990.

Inside: *Foreign Languages, Publications, Contracts and Grants, Computer Skills, Professional Involvement, and Community Service.*

Education

University of Maine, Orono. **Ph.D.**, 1993. 85 Semester Hours. GPA: 3.7. Major: Forest Resources. Thesis Title: An Expert System for Timber Harvesting Decision Making in Maine's Commercial Timberlands. Graduate studies emphasized resource economics, operations research, simulation, natural resources policy analysis, and artificial intelligence computer programming.

University of Maine. Orono. **M.S.**, 1989. 41 Semester Hours. GPA: 3.7. Major: Forest Economics. Thesis Title: A Rule-Based Advisor System for Determining Physical and Legal Operability of Forest Lands for Timber Harvesting.

University of Maine. **B.S.**, 1979. 142 Semester Hours. GPA: 2.7. Major: Forestry Utilization. Major areas of study included forest management, wood technology, silviculture and forest ecology.

Work Experience

Assistant and Associate Professor of Forestry. Penn State University, Mont Alto Campus. August 2000 to present. Design and teach courses in Forest Mapping, Computers in Forestry, Remote Sensing, and Forest Valuation for the Forest Technology Program. Research in forest economics, forest products markets and valuation.

Assistant Professor Natural Resource Conservation. University of Florida. School of Forest Resources and Conservation. Milton, Florida. August, 1994 to July 2000. Implemented a new off campus, BS degree program in Natural Resource Conservation. (The program is a unique three way partnership among UF, Pensacola Junior College, and The University of West Florida to serve place bound and adult education students.) Established student support services system for linking Milton students with main campus. Designed and taught undergraduate courses in forest economics, integrated natural resource management, natural resource policy, international forestry, and natural resource seminar. Developed web-based teaching tools to improve courses and linkages to resources on the main campus. Advised students and marketed the program to prospective students and the local community. Conducting research in risk analysis models for forest economics and analyzing recreational values in a State Forest. Presented extension talks and in-service training programs in forest economics and management.

Assistant Professor of Forestry. University of Maine. Orono, Maine. July to December, 1993. Taught two sections of Introduction to Forest Resources Seminar for first year students. Course consisted of weekly readings on critical forestry and other natural resource issues, classroom discussions and written reports. Also conducted statistical analysis of wood property data to determine the transition between juvenile and mature wood in black spruce on selected sites.

Graduate Research Assistant. University of Maine. January, 1988 to June, 1993. Carried out development programs for Expert System, Computer Simulation and Quantitative Analysis Approaches to solving forest resource utilization problems with emphasis on the industrial forests of the United States. In February, 1992 planned and organized a two-day Forest Sciences

Graduate Research Conference (CONFOR92), for 35 participants from four universities. Edited articles for several proceedings of IUFRO Control and Planning of Forest Operations subgroup. Served as Instructor for a course in Forest Economics and Natural Resource Policy in Spring 1992.

Forestry Advisor. International Science and Technology Institute. Thiès, Senegal. September, 1985 to December, 1987. Served as technical advisor in a USAID sponsored, Agroforestry Pilot Program. Project to carry out reforestation, soil conservation, and agroforestry activities in 60 villages in Senegal's Peanut Basin. Advised lead Senegalese agency on village selection, village nursery management, and other technical aspects of the project. Developed a training program for project participants that included local and out-of-country activities. Helped coordinate input to the project of four participating agencies. Designed and supervised applied research projects for execution by local contractors.

Forest Surveying Instructor. Texas Agricultural Extension Service. November, 1981 to March, 1985. Assigned to the USAID Forestry Education and Development Project in Burkina Faso. Contributed to the development of a new curriculum for the National Forestry School of Burkina. Designed and taught courses in Forest Measurements and Surveying (in French). Developed a training manual in Forest Measurements for Burkinabè instructors. Assisted in the design and implementation of retraining programs for Forest Service field agents. Planned and led a series of field trips of up to 15 days each with up to 50 students and other faculty.

Peace Corps Volunteer. July, 1979 to July, 1981. Served in Burkina Faso. First year was responsible for establishing a tree seedling nursery for the Banfora Regional Development Organization. Reassigned the second year to work with the FAO National Forest Inventory Project, responsibilities included leading fieldwork teams in inventory sampling and assisting in the construction of volume tables for savanna trees. Also managed a field office of the National Fuelwood Consumption Survey Project.

Consultancies

Forestry Education Volunteer. December 2006 – January 2007. Volunteered at the Center for Environmental Education and Development in Pita, Guinea for the USAID Farmserve program. Assisted the school in designing a natural resources management course for the school.

Guest Instructor. University of Helsinki. September, 1998. Designed and taught a one week intensive course on expert systems technology in forest operations and management. Course developed for Ph.D. level graduate students from Scandinavian Universities.

Natural Resources Specialist. IRG, Ltd. Banjul Gambia, May, 1994. Provided technical assistance for forest revenues study for The Gambia, Ministry of Natural Resources. Surveyed Forest Service tax revenue collection procedures. Made twenty-year economic projections of supply and demand for fuelwood under various population and demand scenarios. Developed alternative scenarios for natural resource and land management options for policy makers.

Principal Trainer. Labat-Anderson, Inc. Agroforestry. Senegal, Mali, and Niger. December, 1989 to June, 1990. Developed and led a series of four two-week seminars, with twenty participants each, in French, on Agroforestry Extension and Village Based Natural Resource Management, for extension workers in government and NGO projects. Seminars held in Senegal, Mali, and Niger. Designed the program, selected training resources, and arranged for guest trainers in collaboration with local cooperating agencies. Areas covered included: Communications, Village Extension Methods, Agroforestry Diagnosis and Design, Agroforestry Plantation Types, and Soil and Water Conservation Techniques.

Publications

Linehan, P.E. Learning Geospatial Analysis Skills with Consumer-Grade GPS Receivers and Low Cost Spatial Analysis Software. *Journal of natural Resources & Life Sciences Education*. 35:95-100 (2006).

Linehan, P.E. 2005. Strategies for Forestry Success: Examples from the Early Years of the Pennsylvania Forestry Association. *Journal of Forestry*. Volume 103, Number 5, July/August 2005, pp. 224-229(6)

Linehan, P.E. and M. Jacobson. Forecasting Hardwood Stumpage Price Trends in Pennsylvania. *Forest Products Journal*. December 2005. Volume 55(12)47-52.

Linehan, P. E. “Start Telling the Success Story of Forestry with Children”. *The Allegheny News*. SAF Society Newsletter. Volume 13, no. 3. p.20-21.

Linehan, P. E., M. Jacobson, M. McDill. “Hardwood Stumpage Price Trends and Regional Market Differences in Pennsylvania.” *Northern Journal of Applied Forestry*. 20(3):124-130 (September, 2003).

Linehan, P.E. “Comparing Perceptions of Forest Issues Between the 19th Century and Today.” *Proceedings of the 2003 Society of American Foresters National Convention*. Buffalo NY. October, 2003. p.365-370.

Linehan, P.E. 2003. “Valuing the Forest in the Early Years of Pennsylvania Forestry.” *Pennsylvania Forests*. 94(2):8-9 (Summer 2003).

Linehan, P.E. and A. Giannoumis. “An Application of Spreadsheet-Based Monte Carlo Model to Evaluate Timber Harvesting Alternatives in Southeastern Pennsylvania.” In: *First Undergraduate Research Symposium Proceedings*. Division of Science, Commonwealth College, The Pennsylvania State University. Haiduke Sarafian, editor. October 25-26, 2002. p. 57-61. Also presented a research poster at the meeting.

Ellis, E.A.; Nair, P.K.R.; **Linehan, P.E.**; Beck, H.W.; Blanche, C.A. 2000. A GIS-based database management application for agroforestry planning and tree selection. *Computers and Electronics in Agriculture*. 27(2000)41-55.

Linehan, P.; Miller, D.M.; Jose, S. 2000. The Development of an Off-campus Natural Resource Conservation Program. *Journal of Forestry*. 98(4)24-30.

Linehan, P. 1999. Book Review of: *Tropical Moist Forest Silviculture and Management: A History of Success and Failure* by H.C. Dawkins and M.S. Philip. *Agroforestry Systems*. 46(107-110).

Jose, S. and **Linehan P.E.** 1999. Developing pecan based alley cropping systems for northwest Florida. 6th North American Agroforestry Conference, June, 12-17, Hot Springs, AR.

Ellis, E.A.; Nair, P.K.; Beck, H.C.; **Linehan, P.E.** 1999. Florida Agroforestry Decision Support System (FADSS): A GIS-Based Database Management Application for Agroforestry Planning and Tree Selection. Presented at The Application of Scientific Knowledge to Decisionmaking in Managing Forest Ecosystems. May 3-7, Asheville, North Carolina.

Linehan, P. and Miller, D.L. 1998. Off-Campus Natural Resource Education at the University of Florida. Poster Presentation. Natural Resources Forum '98: Linkages in Ecosystem Science, Management & Restoration. June 9-10. Gainesville, Florida. Proceedings pg.194.

Linehan, P. 1998. Computer Spreadsheets as a Teaching Tool for Risk Analysis in Forest Resource Economics Courses. In Proceedings: Southern Forest Economics Workers Annual Conference. March 25-27. Karen Lee, ed. Williamsburg, VA. pg.69-73.

Linehan, P. and Corcoran, T.J. 1994. An Expert System for Timber Harvesting Decision Making on Industrial Forest Lands, 1994. *Forest Products Journal*, 44(6):65-70.

Linehan, P. 1992. A Proposal for Evaluating Financial and Market Factors in an Expert System to Determine the Harvesting Operability of Commercial Timberlands. Abstracts (CONFOR 92): The Eighth Graduate Student Conference on Forestry, Environmental, and Wildlife Sciences. Maine Agricultural Experiment Station Miscellaneous Report 367, p. 9.

Linehan, P. and Corcoran, T.J. 1991. Timber Classification under Comparative Expert Systems, with Thomas J. Corcoran. In Proceedings: The Application of Information Technology in Forest Management Planning: IUFRO S4.04 Symposium, University College, Dublin, Ireland (3-7 Sept.) pp.61-73.

Linehan, P. 1991. An Expert System for Evaluating the Legal and Physical Components for Determining Operability of Commercial Forest Timberlands in Maine. Abstract in

Proceedings: CONFOR 91, University of New Brunswick, February 15-17. Fredericton, New Brunswick, Canada, p.19. IUFRO XIX World Congress Proceedings Subject Area S3:04, 5-11 August 1990, Montreal PQ, Canada. Edited by T. J. Corcoran, **P. Linehan**, and S. Liu, Maine Agricultural Experiment Station Miscellaneous Report No. 354. 296p.

Linehan, P. and Winterbottom, W. The Dinderesso Forestry School: Case Study of Extension Training in Burkina Faso, in Rural Africana, Fall 1985 - Winter 1986.

Grants and Contracts

- Pennsylvania Historical and Museum Commission. A Comparison of Natural Resource Issues at the Founding of The Pennsylvania State Forest Academy with Today. **\$5,000**. Completed October 2003.
- Penn State Office of Undergraduate Education course development and enhancement grant. \$3,000. May, 2001. For development of student community involvement in a local municipality's Shade Tree Commission.
- Penn State Commonwealth College Faculty Development Research Grant \$1,100. October 2000. For research in the Pennsylvania Timber Price Series.
- ADEC, Distance Learning Consortium. \$7,500. June, 1998. For the development of a web-supported course in Integrated Natural Resource Management.
- Univ. of Florida College of Agriculture Internal Teaching Grants. \$2,500. October, 1994. Distance Learning Equipment

Computer Skills

- Expert with Windows, DOS and Macintosh operating systems.
- Experienced with Microsoft Office and Corel Wordperfect office suites: word processing, database, spreadsheet, and presentation applications.
- Have developed natural resource management applications using: decision support system, expert system development, statistical analysis, and linear programming tools.
- Have developed several types of simulation models: discrete event (GPSS), systems analysis Powersim and Stella, and Monte Carlo (@Risk and Excel).
- Experienced in web page design and web based course development (using WebCT course development software and Microsoft Front Page).
- Experienced with GIS software including ArcView and fGIS.

Foreign Languages

Fluent in French, both written and verbal skills (near native).

Professional Organizations / Licenses

Member of Society of American Foresters since 1982. Served as SAF Florida Division Education chair - 1997. Panhandle Chapter Chair - 1998.

Member of the Institute for Operations Research and Management Sciences (INFORMS) State of Maine, Registered Professional Forester, no. 3021.

