

Vitae

Dr. John J. Garland, PE
Affiliate Professor in the Department of
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Professor Emeritus, Forest Engineering, Resources & Management, Oregon State University
and
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Providing forest engineering expertise to industry, governments, tribal enterprises, and litigants in areas of forest operations, safety and health, accident assessments, technical and business training and education, new technologies, and operational efficiency since 1974.

List of Consultancies and Clients available on request. Dr. Garland has served in 85 matters of litigation with 75 attorneys that have prevailed in trial or settlement.

Public Service

North and South American Deputy Coordinator, Ergonomics 3.03, International Union of Forestry Research Organizations, 2010-2014
International Achievement Award, 2008. Lifetime achievement award from the Council on Forest Engineering (highest professional award)
Forestry Subcommittee Chair, National Occupational Research Agenda (NORA), research strategy for National Institute of Occupational Safety and Health Administration for Agriculture, Forestry and Fishing Sectors, 2006-2012 Member at present
Forest Activities Advisory Code Review Committee, Oregon Occupational Safety and Health Administration, 1998 to present
National Academies of Science, Research Review of NIOSH Ag, For, Fishing Research, 2007.
Forest Engineering Professional Examination Question provider/Grader. 2011 to present.

2009-present Affiliate Professor in the Department of Environmental and Occupational Health Sciences, Pacific Northwest Agricultural Safety and Health Center, University of Washington

2006-present Professor Emeritus, Forest Engineering, (current department named Forest Engineering, Resources, and Management) College of Forestry, Oregon State University

1973-2006

Professor and Timber Harvesting
Extension Specialist 1973-2006
Oregon State University
College of Forestry
Department of Forest Engineering

DEGREES

BS, with Honors, Forest Engineering, Oregon State University, 1970

MS, Forest Management, University of Minnesota, 1972

PhD, Forest Engineering, Oregon State University, 1990

TEACHING EXPERIENCE

Oregon State University, 1968-70

Laboratory Instructor, Tree Identification,

Introduction to Forestry

Assistant in Teaching Research, Forestry Self-Learning Center

University of Minnesota, 1970-72

Teaching Assistant, Forest Management

Assistant Director, Learning Resources Center

Oregon State University, 1973 to present

Timber Harvesting Extension Specialist

Oregon State University Extension Service,

Initiative Coordinator, "Improving Oregonians' Decisionmaking Skills", 1986 to 1989

Special Assignment, Cooperative States Research Education and Extension Service,

Washington, DC, Sustainable Forestry Initiative, 1995.

National Coordinator, Capacity Building for Logger Education in the CSREES-Cooperative

Extension Service, 1995 to 2002

Oregon State University, 2002 to 2006, course FE460/560 Forest Operations Regulations and

Policy Issues, Various Reading & Conference courses & special lectures

Oregon State University, 2015, FE 480 Forest Engineering Principles and Practices, Seniors

RESEARCH EXPERIENCE

National Science Foundation Research Fellowship, Univ. of Minnesota

Labor Market, Training, and Apprenticeship Documentation of Woodworking Training

Program, Bureau of Apprenticeship and Training, USDOL, 1978-79

Assessing Gains from Logger Training, Forest Research Lab, Oregon State University,

1979-81

The Forestry Workforce, Center for Wood Utilization Research Forest Engineering Dept., 1985 to

2002

Bucking Improvement Project, Center for Wood Utilization Research, Forest Engineering Dept.

1986 to 1996.

Optimal Bucking on the Warm Springs Indian Reservation, 1993-1994

Sort Yard Decision Project on the Warm Springs Reservation, 1996

Norwegian Forest Research Institute, 1989-90

Future of the Forestry Workforce, Oregon Economic Development Department, 1993.

Comprehensive Harvest Planning Protocol, Tanzania, PhD Major Professor, 1994 to 1997

Implementing harvest planning and introduction of cable yarding—Sokoine University of

Agriculture Training Forest, Tanzania, 1997 to 2000

Using synthetic rope to replace wire rope as a means to reduce workloads in logging. OR-OSHA

grant to OSU, 1999 to 2001

Synthetic rope to replace wire rope in logging: Field Applications, OR-OSHA grant to OSU,

2001-2004

Synthetic rope to replace wire rope in logging: Running Lines and End Connectors, OR-OSHA grant to OSU, 2001-2004
Using loggers and logging equipment to fight wildland fires, USDA Southern Forest Exp. Station grant, 2003 to 2006
Improving Primary Production with New Technologies: Synthetic Rope Applications, 2004-2006 Idaho Timber Workforce Development Project, 2008
Reducing workloads for older loggers in physically demanding logging tasks with synthetic rope, 2009 to 2012
Safety and Health of Latino Immigrant Forestry Services Workers in the Pacific Northwest NIOSH/CDC 2014-2017
Protecting the Logging Workforce: Development of Innovative Logging Techniques for a Safer Working Environment. National Institute of Occupational Safety and Health. 2016-2019 Principal Investigator.

INDUSTRIAL EXPERIENCE

Engineering Technician, Weyerhaeuser Co. & City of Coos Bay 1966-70
Field Engineer, Weyerhaeuser Co., 1972
District Engineer, Weyerhaeuser Co., 1973
Logging Training Analyst, Weyerhaeuser Co., 1980-81
Consultant to Industry and Government with current firm 1974- present
{ **Summary of consulting experiences & clientele available on request** }

FIELD OF SPECIALIZATION

Forest Engineering, Industrial Engineering, Woodworker Selection, Training, Motivation, and Safety & Health, Ergonomics in Forestry, Forest Regulations and Policy

INTERNATIONAL ACTIVITIES

FAO Consultant on Training in Developing Countries, Kotka, Finland, 1989 and 1990.
Norwegian Research Council sabbatical grant for year in Norway at Norwegian Forest Research Institute. 1989-90
International Labor Organization Consultant, Geneva
Consultant to Asociación Chilena de Seguridad to develop strategy to improve safety in the forestry sector of Chile. 1991-92.
Keynote Speaker, First International Meeting on Work on the Forestry Sector, 17-19 August, Concepción, Chile, 1993.
FAO/IUFRO Experts Meeting on Codes of Forest Harvesting Practices, Feldafing, Germany, Dec., 1994.
Comprehensive Harvest Planning and Introducing Cable Harvesting in Tanzania, 1997 to present
Selection, Training and Motivation Workshop, Sabie, South Africa, 1997.
Sector-wide review of workforce issues in Chile. Corporación Chilena de Madera (CORMA). 1997. October 14-November 14.
Keynote Speaker, Third International Meeting on Work on the Forestry Sector, Nov.14-15 Concepción, Chile, 1997.
Strategies to improve safety. 1997. Workshop with Asociación Chilena de Seguridad. Nov. 15th, Concepción, Chile.

Workshops on Extension, technology transfer, & research implementation and Certification of people, products and processes. Instituto Forestal (Chilean research institute). Valdivia and Santiago, Chile. Nov. 16-22, 1997.

Conference on Plantation Forestry for the forestry sector of Uruguay. 1998. Sponsored by the World Bank. Montevideo, Uruguay. September 24-25, 1998.

Visiting Professor, NOVA Course for PhD Students of the Nordic (and Baltic) Countries on Forest Operations. Umeå, Sweden. June 1999

Professor Assessor, Selection of Professor of Forest Operations Planning, Swedish University of Agricultural Sciences, Uppsala, Sweden, 1999

Professor Assessor, Selection of Professor of Adjunct Professor of Work Science and Working Life, Swedish University of Agricultural Sciences, Umeå, Sweden, 2000

International Opponent, Doctoral Thesis, Swedish University of Agricultural Sciences, Umeå, Sweden, 2001

Special assignment, Best Management Practices in the Developing Forestry Sector of Uruguay. Sponsored by the World Bank. Montevideo, Uruguay. April-July, 2000.

Research Reviewer, the Research Council of Norway, 2007.

Research Reviewer and PhD Advisor, Skog og Landskap, Norway, 2013.

Consultant, Forest Management, Food and Agriculture Organization of the United Nations, to produce guidance on Forestry Accident Reporting and Analysis, 2015.

Consultant, Forest Management, Food and Agriculture Organization of the United Nations, to produce guidance on Occupational Safety and Health, 2016.

Countries visited or countries of work assignments: Argentina, Australia, Austria, Brazil, Chile, Canada, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Japan, Kenya, Malaysia, Mexico, New Zealand, Norway, Romania, South Africa, Sweden, Switzerland, Tanzania and Uruguay.

Fulbright Fellowship, 2018, Chile, Trajectories of Development in Safety and Health in the Forestry Sector

PROFESSIONAL SOCIETIES

Forest Engineering Professionals Association, Society of American Foresters, Council on Forest Engineering

ACADEMIC OR HONORARY SOCIETIES

Phi Eta Sigma, Xi Sigma Pi, Phi Kappa Phi, Epsilon Sigma Phi (resigned)

PROFESSIONAL ACHIEVEMENTS AND RECOGNITION

Distinguished Military Graduate, Oregon State Univ., 1970

National Chairman, Student Affairs Committee, SAF 1971-72

US Delegate to Seventh World Forestry Congress, Buenos Aires, Argentina, 1972

Licensed Forest Engineer in Oregon

Land Surveyor in Oregon 1976 (not active at present)

Nominated for USDA Superior Service Award from Oregon Extension Service in 1979 and 1980.

Review Committee, Oregon Forest Activities Safety Code, APD, WCB 1978-88, OR-OSHA 1978-present

Logging Health and Safety Action Planning Committee appointed by Oregon State Department of Insurance and Finance, 1988-89.

OSU Extension Association, Experienced Staff Award, 1986.

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OSU Extension Association, Search for Excellence Award, 1987
Woodland Workbook Writing Award, OSU Forestry Extension, 1986
Designated Examiner in the field of Logging Engineering for Oregon Board of Engineering Examiners 1985 - 1988.
Designated Examiner in the field of Logging Engineering for Washington Board of Engineering Examiners 1986
E.R. Jackman Award for Excellence in Extension Education from Oregon State University College of Agriculture (cash award)
Society of American Foresters National Technology Transfer and Extension Award 1990.
Deputy Leader, Ergonomics Research Unit, International Union of Forest Research Organizations. 1995-2000.
Leader, Ergonomics Research Unit, International Union of Forest Research Organizations. 2000-2005.
Dean's Award for National and International Excellence of Forestry Extension Team and Cooperation Among Agents, Specialists and Interdepartmental Faculty, (cash award), 1991.
U.S. Department of Agriculture 20 Year Service Appreciation Award, 1993.
Awesome Force Award 1994. Peer award from Forestry Extension Specialists and Agents. College of Forestry, Oregon State University.
National Woodland Owners Association Publications Award 1998 for Timber Harvesting: How we see it. (OSU/OFRI publication) Extension Foresters Meeting, Society of American Foresters Annual Meeting in Traverse City, Michigan.
Twenty-Five Year Club of Oregon State University
External Advisor, Pacific Northwest Agricultural Safety and Health Center, U. Washington, 2001-present
Founder and Executive Vice-President, Forest Engineering Professionals Association, 2001.
U.S. Department of Agriculture 30 Year Service Appreciation Award, 2004.
Service Appreciation Award, January 21, 2006. Presented to Dr. John Garland, In appreciation for your dedication and service to members of the Associated Oregon Loggers, Inc., Thank you for your commitment to improve logging efficiency, the development of innovative technology and workforce safety. Your efforts have made us a better industry.
Forestry Committee Chair & Forestry Sector Representative, Agriculture, Forestry & Fishing National Occupational Research Agenda Council, Centers for Disease Control, National Institute for Occupational Safety & Health, 2006 to present.
International Achievement Award, 2008. Lifetime achievement award from the Council on Forest Engineering (highest professional award)
North American Deputy Coordinator, Ergonomics 3.03, International Union of Forestry Research Organizations, 2010-2014
Elected as Fellow in the Society of American Foresters 2011
Society of American Foresters Mary's Peak Chapter, Fellow Nominating Committee, 2013
Fulbright Fellowship to Chile 2018

RECENT GRADUATE STUDENT THESES & PAPERS

Bielecki, Christopher S., 2004. Using loggers and logging equipment to fight wildland fires. Master of Forestry, Forest Engineering Department, Oregon State University, CD format.
Hartter, Joel N., 2004. Investigation of synthetic rope end connections and terminations in timber harvesting applications. Master of Science, Forest Engineering Department, Oregon State University, CD format.
Garland vitae, 10-2022

- Leonard, Jared. 2003. Applications for synthetic rope in logging. Master of Forestry, Forest Engineering Department. Oregon State University CD format.
- Cornell, Jennie L. 2003. Aerial forest operations: Mineral amendments project.. Master of Forestry, Forest Engineering Department. Oregon State University CD format.
- Shemwetta, Dunstan T. K., 1997. Comprehensive harvest planning protocol for plantations on difficult terrain: Sokoine University of Agriculture Training Forest Tanzania. Doctor of Philosophy. Oregon State University Library.

PUBLICATIONS

Major Reports, Invited Papers, Refereed Journal Articles

- Woodam Chung, Brett Morrisette, Preston Green, Brennan Garrelts, Ben Leshchinsky, Francisca Belart, John Sessions, Jeff Wimer, John Garland. 2022. Effects of Pre-Bunching Trees With a Tethered Feller-Buncher on Cable Logging Productivity and Costs: A Case Study in Southern Oregon. *Forest Science*, Volume 68, Issue 3, June 2022, Pages 325–333.
- Green, P., W. Chung, B. Leshchinsky, F. Belart, J. Sessions, S. Fitzgerald, J. Wimer, T. Cushing, and J. Garland. 2020. Insight into the Productivity, Cost and Soil Impacts of Cable-assisted Harvester-forwarder Thinning in Western Oregon. *Forest Science* 66(1): 82-96.
- Garland J., Cedergren J., Eliasson L., van Hensbergen, H., McEwan, A. and Wästerlund, D. 2020. Occupational safety and health in forest harvesting and silviculture – A compendium for practitioners and instructors. Forestry Working Paper No. 14. Rome, FAO.
<https://doi.org/10.4060/ca8773en> 126p.
- Green, Preston & Chung, Woodam & Leshchinsky, Ben & Belart, Francisca & Sessions, John & Fitzgerald, Stephen & Wimer, Jeffrey & Cushing, Tamara & Garland, John. (2019). Insight into the Productivity, Cost and Soil Impacts of Cable-assisted Harvester-forwarder Thinning in Western Oregon. *Forest Science*. 66. 10.1093/forsci/fxz049.
- John Garland³, Francisca Belart¹, Robert Crawford¹, Woodam Chung¹, Tamara Cushing¹, Stephen Fitzgerald², Preston Green², Laurel Kincl², Ben Leshchinsky¹, Brett Morrisette¹, John Sessions¹, and Jeff Wimer¹. Safety in Steep Slope Logging, *Journal of Agromedicine*, DOI: 10.1080/1059924X.2019.1581115
- Matthew Keifer, Vanessa Casanova, John Garland, Mathew Smidt & Tim Struttman (2019) Foreword by the Editor-in-Chief and Guest Editors, *Journal of Agromedicine*, 24:2, 119-120, DOI: 10.1080/1059924X.2019.1596697
- FAO. 2019. Accident analysis in forestry: A practical field guide. Rome. Licence: CC BY-NC-SA 3.0 IGO. <http://www.fao.org/3/i9180en/I9180EN.pdf>
- Garland, J.J. 2018. Accident reporting and analysis in forestry: guidance on increasing the safety of forest work. Forestry Working Paper No. 2. Rome, FAO. 97p.
- Garland, J. 2017. North American Trajectories of Development in Final Harvests, Proceedings Keynote address. Joint Regional Meeting of IUFRO RG3.03.00 and RG3.06.00 in Asia Matsuyama and Kochi, Japan: 24th-28th July 2017. p 21-38.
- Yamada, Yozo with Efi Yuliati Yovi, Dianne Staal Wästerlund, John J. Garland, Janusz M. Sowa. 2013. The Concept of the Ergonomic Spectrum. *Open Journal of Forestry*. Vol. 3 No. 1, January 2013 .p 8-11.
- Garland, J. 2012. Workload Reduction for Younger and Older Workers with Synthetic Rope. International Ergonomic Workshop of IUFRO RG3.03: Ergonomic Challenges in Future Forest and Forestry, October 1-4, 2012, Nagoya, Japan. 8p.
- Garland, J. 2011. Understanding the Idaho Timber Workforce. Paper 11-06. 2011 National Symposium on Agriculture, Forestry and Fishing Safety and Health. International Society for

- Agriculture Safety and Health & National Institute for Occupational Safety and Health. Boise, ID. June 26-30, 2011. 14p.
- Garland, J. 2008. Four Reports on the Idaho Timber Workforce Development Project: Comprehensive Idaho Timber Workforce Overview, Report of a Survey of Idaho Timber Workforce Issues, and Report on the Idaho Timber Workforce Summit. Project sponsored by Idaho Forest Products Commission, the Associated Logging Contractors of Idaho, and the Intermountain Forest Association. Available at www.idahoforests.org. various pages.
- Bielecki, Chris, Rummer, R. and J. Garland. 2005. Issues of using modified logging machinery to fight wildfires. *International Journal of Forest Engineering*. Submitted. 16p.
- Hartter, Joel and J. Garland, 2006. Synthetic rope end connections for use in timber harvesting. *International Journal of Forest Engineering*. Vol 17 No. 1, p39-51.
- Hartter, J., Leonard, J., Garland, J. and Pilkerton, S. 2006. Research on synthetic rope and its future in timber harvesting. *New Zealand Journal of Forestry*. August, 2006, p23-30.
- Garland, J. 2004. Multiple Benefits of Technology Improvements: Workers, Firms and Forestry Sectors. Conference on "Of Men and Machines." Canadian Woodlands Forum and Forest Research Institute of Canada. DEMO 2004. September 14-15, 2004, Quebec, Canada. 9p.
- Garland, J., Pilkerton, S., and J. Hartter. 2004. Final Report Worksite Redesign Program Oregon Occupational Safety and Health Administration: Running Lines and End Connectors for Synthetic Rope to Reduce Logging Workloads. 71p. Available from Forest Engineering Department, Oregon State University, Corvallis, OR or www.orosha.org
- Garland, J., Pilkerton, S., and J. Leonard. 2004. Final Report Worksite Redesign Program Oregon Occupational Safety and Health Administration: Field Testing of Synthetic Rope in Logging Applications to Reduce Workloads. 63p. Available from Forest Engineering Department, Oregon State University, Corvallis, OR or www.orosha.org
- Garland, J. 2004. Diez conceptos claves para reducir riesgos en faenas forestales. *Forestal Mundial*. Assoc. Ingenieros Forestales Chileno. Marzo. P 32-34.
- Garland, J.J. , Sessions, J., Pilkerton, S. & B. Stringham. 2002. Using Synthetic Rope to Reduce Workloads in Logging. Final Report Worksite Redesign Program Oregon Occupational Safety and Health Administration. Forest Engineering Department Oregon State University. Corvallis, Oregon. 28p. plus appendices.
- Garland, J.J. 2001. Special issue of *FORWORKNET* dealing with Ergonomics. *FORWORKNET* is a special publication of the International Labor Office, United Nations, Geneva. It is available by subscription and published on the ILO web site at www.ilo.org . Dr. Garland as contributing editor wrote several articles and edited the solicited submissions. 28p.
- Garland, J.J. 2001. The basis for productivity improvement in cable harvesting from human resources. FAO/ECE/ILO Joint Committee Seminar on New Trends in Cable Harvesting for Sustainable Forest Management in Mountainous Regions. Ossiach, Austria. June 18-22, 2001. Food and Agriculture Organization of the United Nations. Rome, Italy. 8p.
- Garland, J.J. 2001. The human factor in forest operations research. International Union of Forestry Research Organizations. Proceedings of Division 3.0 at the IUFRO World Congress. Kuala Lumpur, Malaysia. CD ROM publication. IUFRO, Vienna, Austria.
- Mochida, Haruyuki, Garland, J. and M. Sunasaka, 2000. Characteristics of Loggers in Oregon in the early 1990's. *Journal of Forest Economics (Japan)* Vol. 46, No. 2. p. 17-24.
- Sessions, J. and J. Garland, 1999. Logging, in: McGraw-Hill Encyclopedia of Science and Technology.
- Sessions, J. and J. Garland, 1999. Forest Engineering, in: McGraw-Hill Encyclopedia of Science and Technology.
- Garland, J.J. 1999. Trajectories of development for individuals, firms, and the forestry sector in a country. In *Forest Operations of the Future* Joint, FAO/ECE/ILO Committee Seminar held in Bordeaux, France, September 20-24, 1999. Afocel, Soud- Ouest, p. 329-338.
- Garland vitae, 10-2022

- Garland, J.J. and J. Sessions. 1998. Plantation forests: Opportunities for optimizing harvest operations. Presented at Conference on Plantation Forestry for the forestry sector of Uruguay. World Bank. Montevideo. 11p.
- Garland, J. 1998. Some Thoughts on Certification, the Environment, and Sustainable Forest Management in Chile. Report to Instituto Forestal (Chilean Research Institute), Santiago, Chile, 6p.
- Garland, J. 1998. Timber harvesting: how we see it. Produced under an interagency agreement with Oregon Forest Resources Institute. College of Forestry. Forest Research Lab. 16p.
- Garland, J. 1997. Sector review on Chilean workforce. Report to Committee on Safety, CORMA, Chilean forest companies and Asociación Chilena de Seguridad. 26p.
- Garland, J.J. 1997. Contractors in forest harvesting and silviculture: Oregon and the United States. *Labor Education*, 106-107, 78-88.
- Garland, J. 1997. Connections of workforce improvement efforts to individuals, the firm and the sector. 3rd Brazilian Symposium on Timber Harvesting and Forest Transportation. Society for Forestry Research and University of Vicosa. Vitoria, ES, Brazil. 12p.
- Garland, J. 1997. Following a trajectory of development for individuals, firms, and the forestry sector of Chile. *Terceras Jornadas Internacionales El Trabajo en el Sector Forestal*. Asociación Chilena de Seguridad. Concepción, Chile. 10p.
- Garland, J. 1997. Players in the Policy Process. *J. Forestry*. 95(1):13-15.
- Garland, J. 1997. Chapter 10. Contractors in forest harvesting and silviculture: Oregon and the US. In *Contract Labor: Looking at the Issues*. Int. Labor Office. Geneva, p. 78-88.
- Garland, J.J. and J. Sessions. 1996. Warm Springs sort yard project report. Submitted to Confederated Tribes of the Warm Springs Reservation, OR. 31 p.
- Garland, J.J. 1996. Status of accreditation, certification and licensing of the U.S. harvesting workforce. Proceedings CPPA/IUFRO Conference "Certification-Environmental implications for forest operations. Sept. 9-11, Quebec, Canada. E111-E118.
- Garland, J.J. 1995. Best management practices on your woodlands. American Forest and Paper Association. Washington, DC. 20036. 12 p.
- Garland, J.J. 1995. The future of the forestry workforce: An interview with Dr. John Garland. Timber Harvesting Extension Specialist. *Western Forester*. November, 1995.
- Garland, J.J. 1995. Understanding the educational design process: Components of a successful educational/outreach program. Southern Regional Forestry Conference, Education and Communication Applications in Natural Resource Management. September 27-29, 1995. Athens, GA.
- Garland, J.J. 1994. Improving logging safety: What seems to work. Keynote address. Northwest Regional Logging Safety Conference. Kalispell, MT. November 19, 1994.
- Garland, J.J. 1994. Enhancing forest diversity and conservation through forest harvesting (Aprovechamientos forestales para mejorar la biodiversidad y conservacion) Primera Reunion de Ecologia Aplicada en los Aprovechamientos Forestales Maderables. Universidad Autonoma Chapingo, Division de Ciencias Forestales. Chapingo, Mexico. November 24-25, 1994. 8 p.
- Garland, J.J. 1994. Understanding technology and progress in forest harvesting (Entendimiento tecnologia y progreso en aprovechamientos forestales) Primera Reunion de Ecologia Aplicada en los Aprovechamientos Forestales Maderables. Universidad Autonoma Chapingo, Division de Ciencias Forestales. Chapingo, Mexico. November 24-25, 1994. 14 p.
- Garland, J.J. 1994. Job design and workforce improvement using task analyses. VIII Seminar on Harvesting and Wood Transportation, Dept. of Silviculture and Management, SCA, UFPR. Curitiba, Brazil, May 8-13, 1994. 11p.

- Garland, J.J. 1994. Forestry jobs of the future: Matching forest needs with workforce knowledge, skills, abilities, and risks. Project report to Oregon Economic Development Department. Forest Engineering Dept., OSU. 204p.
- Garland, J.J. 1993. Trajectories for development for the forestry workforce in the world. First International Meeting on Work in the Forestry Sector. August 17-18, 1993. Asociación Chilena de Seguridad, FAO, ILO, CORMA. Concepción, Chile. 12 p.
- Garland, J.J. 1992. The Future of the Forestry Work-force. Two articles. "Important Prospects", Vol. 19, No. 1, Spring 1992. "Editorial Comment." Vol. 19, No. 2, Summer, 1992. Environmental Conservation.
- Garland, J.J. 1992. Conditions necessary to improve ergonomics in forestry operations in western North America. Presented at 100 Year Celebration of the International Union of Forestry Research Organizations, Berlin, Germany. September, 1992. 11 p.
- Olsen, E., S. Pilkerton, J. Garland and J. Sessions. 1992. Computer Aided Bucking on a Mechanized Harvester. J. Forest Engineering. 2(2):25-32.
- Garland, J. and P. Adams. 1992. Coordinated tactical program planning among specialists and agents: The Oregon Extension Forestry experience. Journal of Natural Resources Life Sciences Education. 21(1):64-69.
- Garland, J. 1991. A strategy for safety in the forestry sector of Chile. Asosiacion Chilena de Seguridad. Report to the Director, Dec. 7, 1991, 31 p.
- Olsen, E., S. Pilkerton and J. Garland. 1991 Evaluating timber sale bids using optimal bucking technology. Applied Engineering in Agriculture. 7(1) p. 131-136.
- Olsen, E., S. Pilkerton, J. Garland and J. Sessions. 1990. Extending Strategies for Optimal Bucking to Harvesting and Site Preparation. Western Journal of Applied Forestry, 5(2):12-15.
- Garland, J.J. 1990. Assessing Gains from Woodworker Training: A Methodology. Int. Jour. Industrial Ergonomics. (5) 1990. P. 227-242.
- Garland, John J., J. Sessions and E. Olsen. 1989. Manufacturing logs with computer-aided bucking at the stump. Forest Products Journal. 9(3):62-66.
- Olsen, E., J. Garland and J. Sessions. 1989. Value Loss Measurement Error in Computer-Aided Bucking at the Stump. Applied Engineering in Agriculture, 5(2). p. 283-285.
- Sessions, J., J. Garland and E. Olsen. 1989. Testing computer-aided bucking at the stump. Journal of Forestry. 87(4):43-46.
- Sessions, J., E. Olsen and J. Garland. 1989. Tree bucking for optimal stand value with log allocation constraints. Forest Science, 35:271-276.
- Garland, John J. 1989. Timber Harvest Trends in the West. Timber Harvesting. July, p. 18-19.
- Garland, J., A Modeler's Day in Court. Journal of Forestry. 86(4), 1988.
- Garland, J. Workshop Report: Strategies to Improve Logging Safety. Workshop held May, 1988. 12 p.
- Sessions, J. J. Garland, and E. Olsen. 1988. Buck: A computer program for optimal bucking. The Compiler. Vol. 6, No. 3, p. 10-13.
- Garland, John J. 1987. Aspects of Practical Management in the Streamside Zone. P. 277-288 in Proceedings, Streamside Management: Forestry and Fishery Interactions. University of Washington, Seattle. Inst. of Forest Resources, Contribution No. 57.
- Garland, J.J., D.D. Studier, and C.J. Hoefler. 1986. Logging Planning with the Hewlett-Packard 41-C Series Calculator. Forest Research Laboratory. Oregon State University. 151 p.
- Garland, John J. 1985. Perspectives on the Logging Labor Force: Selection, Training and Motivation. in People and Productivity: Keys to a Successful Harvesting Operation, FPRS/CPPA Harvesting Conference, Thunder Bay, Ontario, FPRS Proceedings.
- Garland, John J. 1981. Log Loader Operator Training: Leader's Guide. Weyerhaeuser Company (proprietary).

- Garland, John J., editor, 1980. Proceedings of the Fourth Northwest Skyline Symposium School of Forestry, OSU, 162p.
- Garland, J.J. 1979. A Look At Logger Training. Loggers Handbook Vol. XXXIX, 6p.
- Sorensen, Gary, Paula Bible, & John J. Garland. 1979. A Documentation of the Labor Markets, Training and Apprenticeship Dimensions of a Woodworker Training Program, Final Report to BAT, USDL, 217p.
- Dykstra, Dennis P. & John J. Garland. Log Trucking in Oregon A Survey. ASAE Transactions 21 (4), 4 p. 1978.
- Dykstra, Dennis P. & John J. Garland. 1977. Log Hauling on Public Roads in Oregon, prepared for 1977 Oregon Legislature, Senate Transportation Committee at request of timber industry and Oregon Highway Division.
- James, Lee M., Donald D. Crews, & John J. Garland. 1972. Attracting Talented Students. In Proceedings VII World Forestry Congress. Buenos Aires, Argentina.
- Garland, John J. 1971. Innovations in Forestry Education: A Student's Viewpoint. J. Forestry 69(9)

Extension Publications

- Garland, John J. 1997. Hauling Logs From Woodland Properties. Ext. Circ. 1140. 8p.
- Elwood, N., A. Campbell, S. Clements, R. Duddles, M. Kramer, P. Oester, S. Fitzgerald, R. Fletcher, J. Garland, K. Kavanagh, and S. Bowers, 1997. How to manage your timber sale: Proven steps to success. Ext. Circular 1487. OSU Ext. Service. 26 p.
- Garland, J. and D. Jackson. 1996. Felling and bucking technologies for woodland owners. EC 1124. OSU Ext. Serv. 16 p.
- Garland, John J. and David J. Jackson. 1996. Planning Woodland Roads. Ext. Circ. 1118. OSU Ext. Serv. 6p.
- Garland, John, C. Bubl and P. Sunderland. 1993. Insights on the philosophy of Extension education at Oregon State University. Oregon State University Ext. Serv. 12p.
- Garland, John J. 1987. The Woodland Owner Curriculum. 24"x36" Poster. Oregon State University Ext. Serv.
- Garland, John J. 1986. The Woodland Owner Curriculum. Special Report 784. OSU Ext. Serv. 67p.
- Garland, John J. 1985. Increasing Values Through Bucking Practices: Manufacturing Logs. Ext. Circ. 1184. 16p.
- Garland, John J. and Marvin Rowley. 1985. Gathering Fuelwood for Home Heating. Ext. Circ. 847. OSU Ext. Serv. 6p. 1974 Third Rev.
- Garland, John J. 1996. Timber Harvesting Options. Ext. Circ. 858. OSU Ext. Serv. 4p. 1975. Rev. Reprinted, 1997.
- Garland, John J. 1983. Logging Woodland Properties. Ext. Circ. 956. OSU Ext. Serv. 4p. 1978. Rev.
- Garland, John J. 1983. Designated Skidtrails Minimize Soil Compaction. Ext. Circ. 1110. OSU Ext. Serv. 6p.
- Garland, John J. 1983. Designing Woodland Roads. Ext. Circ. 1137. OSU Ext. Serv. 24p.
- Garland, John J. 1983. Road Construction on Woodland Properties. Ext. Circ. 1135. OSU Ext. Serv. 12p.
- Garland, John J. 1983. Felling and Bucking Techniques for Woodland Owners. Ext. Circ. 1124. 12p.
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 3. Safe and effective chainsaw use
 4. The meaning of "in the clear"
 5. Hazards at the landing
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 7. Chokersetting techniques
 8. Rigging crew hazards
 9. Basic felling techniques
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MEDIA PRODUCTION

Ten training cards on Division 7 Forest Activities Code Requirements in English and Spanish, Oregon Occupational Safety and Health Administration. Training Grant. available at www.orosha.org or from Forest Engineering department, Oregon State University, Corvallis, OR on CD.

Training for safe & effective logging	Guias de Capacitación
Orienting new employees	Orientación de trabajadores nuevos
The meaning of “in the clear”	El significado de “fuera el peligro”
Potential failure zone	Zona de fracaso potencial
Straps and rigging	Correa y aparejo
Operating on steep slopes	Operaciones con máquinas en pendientes
Stabilizing tail trees and intermediate support trees	Estabilizar árboles de cola y árboles de apoyo intermedio
Rigging crew hazards	Riesgos de la cuadrilla de aparejos
Hazards at the landing	Riesgos de la cancha
Your obligations as a supervisor for safety and health	Sus obligaciones como supervisor por seguridad y salud

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Garland, John J. 2002. Using synthetic rope in logging. 15 mins. Video. Forest Engineering Department, Oregon State University. Corvallis, OR.

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Beaulieu, M., E. Olsen, J. Garland, J. Hino. Tackling Productivity in Mechanized Logging. 19 mins. video, Forestry Media Center. 1989.

Garland, John J. Productivity Training Cards. For. Media Center. 1989. Five pocket sized training cards in a set, illustrated, plastic-coated.

1. The idea of "Self-Supervision"
2. Productivity Tips for Efficient Skidding
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4. Mechanized Harvesting Productivity
5. Log Truck Driver Safety

Adams, Paul, Garland, John, and Mellem, Stacy. Using Designated Skidtrails. For. Media Ctr., OSU. slide-tape, 124 slides. 27 mins. 1987.

Garland, John J. Logging Training Cards. Ten pocket sized logging training cards, illustrated, plastic coated. For. Media Ctr. OSU. 1987.

Adams, Paul, Andrus, Chip, Froehlich, Henry, Garland, John and Hino, Jeff. Tilling Compacted Soils. For. Media Ctr., OSU slide-tape, 113 slides. 25 mins. 1985.

Garland, John J., Paul Adams, Tom Luba, Hank Froehlich. Soil Compaction on Forest Lands. For. Media Ctr., OSU. 16mm film, color, sound, 24 mins. 1983.

Garland, John J. & Mediatek. Safety in Tree-Length Logging. Weyerhaeuser Co.(proprietary) 3/4 inch, 40mins. 1982.

Garland, John J. Log Loader Operator Training. Weyerhaeuser Co.(proprietary) 10 video tapes on operator training. 3/4 inch. narration on 8 tapes. 1981.

Garland, John J. Skylines of the Northwest. For. Media Ctr. OSU, 16mm film, color, sound, 19 mins. 1979.

Garland, John J. Timber Harvesting Options. For. Inst. Serv. Ctr. slide-tape. 58 slides, 20 mins. 1978.

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- Garland, John J., Dennis P. Dykstra, and Ext. Comm. Aerial Logging Systems. For. Inst. Serv. Ctr. 16mm film, color, sound, 14 mins. 1976.
- Garland, John J. Dellwood Timber Tipper. For. Inst. Serv. Ctr. slide-tape. 58 slides, 18 mins. 1975.

COMPUTER MEDIA

- Garland, John J. Logging Planning Pac. 16k Read Only Memory (ROM) application for the Hewlett-Packard 41C series calculator. Contains 14 of the most commonly used programs. price \$100. For. Media Ctr. OSU. 1986.

CONFERENCES, WORKSHOPS, SYMPOSIA AS DIRECTOR/DESIGNER

- 2019 Safety Summit for Consultants to the Logging Industry, Eugene, OR
- 2013 Forestry Workforce Review and Assessment, Washington, DC
- 2008 Idaho Timber Workforce Development Summit, Post Falls, Idaho
- 2007 Mechanized Harvesting Operations & Safety, Rapid City, South Dakota (proprietary)
- 2007 Mechanized Harvesting Operations, Orem, Utah (proprietary)
- 2007 Understanding Forest Operations Costs and Pricing Practices, Orem, Utah (proprietary)
- 2007 Understanding Forest Operations Costs and Pricing Practices, Warm Springs, OR (proprietary)
- 2006 Understanding Forest Operations Costs and Bidding Practices, Coeur d'Alene, ID (proprietary)
- 2006 Understanding Forest Operations Costs and Bidding Practices, Lewiston, ID (proprietary)
- 2006 Understanding Forest Operations Costs and Pricing Practices, Delta, CO (proprietary)
- 2005 Understanding Forest Operations Costs and Bidding Practices, LaGrande, OR
- 2005 Synthetic Rope in Logging: Applications: Research and Developments, Corvallis, OR
- 2004 Rigging Demonstrations as training for Division 7, Forest Activities Code Changes (Corvallis, Springfield, Roseburg, Astoria)
- 2004 Roads in the Black Hills of South Dakota (Spearfish & Hill City)
- 2003 Accident Analysis Workshop: Forestry/Logging Operations (proprietary, Montana)
- 2003 Forestry for Professional Log Haulers (Salem)
- 2003 Visual Management for Woodland Owners (Oregon City)
- 2002 Logger Education to Advance Professionalism (LEAP): Visual Management for Logging Contractors (Sweet Home)
- 2002 Logger Education to Advance Professionalism (LEAP): Understanding Logging Costs and Bidding Practices (Corvallis)
- 2002 Logger Education to Advance Professionalism (LEAP): Ecology and Silviculture Series (Corvallis)
- 2001 Visual Management for Woodland Owners, (Toledo, Beaverton)
- 2001 Logger Education to Advance Professionalism (LEAP): Visual Management for Logging Contractors (Eugene)
- 2000 Logger Education to Advance Professionalism (LEAP): Understanding Logging Costs and Bidding Practices (Corvallis)
- 2000 Logger Education to Advance Professionalism (LEAP): Ecology and Silviculture Series (Central Point, Corvallis)
- 1999 Logger Education to Advance Professionalism (LEAP): Understanding Logging Costs and Bidding Practices (Eugene, Aurora, LaGrande OR)
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1999 Logger Education to Advance Professionalism (LEAP): Ecology and Silviculture Series (Astoria)

1997 Terceras Jornadas Internacionales: El Trabajo en el Sector Forestal (Third International Meeting: Work in the Forestry Sector) (Concepción, Chile)

1997 Strategies to improve safety. Workshop with Asociación Chilena de Seguridad. (Concepción, Chile.)

1997 Workshops on Extension, technology transfer, & research implementation and Certification of people, products and processes. Instituto Forestal (Chilean research institute). (Valdivia and Santiago, Chile)

1997 Selection, Training and Motivation of the Forestry Workforce (Sabie, South Africa)

1997 Logger Education to Advance Professionalism (LEAP): Understanding Logging Costs and Bidding Practices (2 workshops in Corvallis)

1997 Logger Education to Advance Professionalism (LEAP): Selection, Training and Motivation of the Forestry Workforce (Aurora, OR)

1997 Logger Education National Workshop (Louisville, KY)

1996 Logger Education Regional and National Forums (Indianapolis, Atlanta)

1996 Logger Education to Advance Professionalism (LEAP): Ecology and Silviculture Series (Mehama, Newport, McMinnville, Klamath Falls, Pendleton)

1995 Logger Education to Advance Professionalism (LEAP): Ecology and Silviculture Series (Tillamook, Medford, John Day)

1995 Standing Up for Oregon's Woodlands: woodland owners providing leadership (Salem)

1995 Using Yarders as Draglines (proprietary, Salem)

1994 Logger Education to Advance Professionalism (LEAP): Ecology and Silviculture Series (Drain, LaGrande)

1994 Managing Your Timber Sale (Corvallis, LaGrande, Wilsonville, Coos Bay)

1993 Logger Education to Advance Professionalism (LEAP): Ecology and Silviculture Series (Bend, Beavercreek, Roseburg)

1993 Train-the-Trainer Conference, Logger Education to Advance Professionalism (LEAP) (Springfield, OR)

1993 Primeras Jornadas Internacionales: El Trabajo en el Sector Forestal (First International Meeting: Work in the Forestry Sector) (Concepción, Chile)

1992 Future of the Forestry Workforce (International, OSU)

1992 Future of Oregon's Forestry Workforce (Salem, OR)

1991 Mechanized Harvesting Workshop (OSU)

1989 The Logging Labor Force: Training and Motivation (Incentives). (proprietary, Tacoma, WA.)

1988 Strategies to Improve Logging Safety in Oregon

1988 International Mountain Logging Conference and Northwest Skyline Symposium (Portland)

1987 Designated Skidtrails for Warm Springs/BIA (contract)

1985 Road Construction Practices (OSU)

1984 Forest Roads Conference (OSU)

1984 BLM Logging Training (contract, Eugene)

1984 Hardwoods of the Northwest

1983 John Deere Forestry Training(proprietary, Vancouver, WA)

1982-88 Designated Skidtrails (15 locations in OR, WA, ID)

1981 Small Wood Harvesting Research Review (OSU)

1980 Use & Maintenance of Wire Rope (McDonald Forest)

1978 Fourth Northwest Skyline Symposium (Portland)

1977 Two Contract Training Courses for Forest Practices Officers, Ore. Dept. of For. (OSU)

1977 Sort Yards of the Northwest (OSU)

1976 Logging Woodland Properties (Eugene, Oregon City)
1975 Cable Logging in Partial Cuts (Bend)
1975 Chipping in the Woods (OSU)
1974 Production Planning & Quantitative Analysis (Eugene, OSU)

DECISION AIDS

Garland, John J. The Woodland Stick. Measurement stick for trees and logs in western Oregon for use by Master Woodland Managers. OSU Extension Service. 1988. Revised, 1991. Reprinted 1996. Reprinted 2000.

PUBLIC SERVICE

Since 1978 Dr. Garland has served on Oregon Occupational Safety and Health Committees to revise the regulations covering the forest activities safety code in Oregon. He has been the engineering expert on the four revisions in the past to help produce the exemplary logging safety code in the US. He is continuing to provide expertise as Oregon addresses new technologies such as tethered logging machines.

Dr. Garland has served as Examination Preparer and Examination Team Question Provider for the Forest Engineering Professional Examination (formerly Logging Engineering) in Oregon and Washington. He continues to support professional engineering licensing in this capacity.