

RESUME

Michael O. Hunt

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Education

B.S., Arts and Forestry, University of Kentucky, 1957
M.F., Wood Technology, Duke University, 1958
Ph.D., Wood Science, North Carolina State University,
1970
Dissertation Title: The Prediction of the Elastic
Constants of Particleboard by Means of a
Structural
Analogy.

Professional Experience

Management trainee, Gamble Brothers Inc., Louisville, KY,
1957.
Product engineer, Wood Products Div., Singer Co.,
Pickens, S.C. and Trumann, Ark., 1959-1960.
Assistant Professor of Wood Science and Extension
Specialist of Wood Utilization, Dept. of Forestry &
Conservation, Purdue University, W. Lafayette, IN,
1960-1968. 100% Extension.
Assistant Professor of Wood Science and Extension
Specialist of Wood Utilization, Dept. of Forestry &
Natural Resources, Purdue University, W. Lafayette,
IN, 1968-
1970. 80% extension and 20% research.
Associate Professor of Wood Science, Dept. of Forestry &
Natural Resources, Purdue University, W. Lafayette,
IN, 1970-1979. 60% research and 40% extension.
Professor of Wood Science, Dept. of Forestry & Natural
Resources, Purdue University, 1979-1982. 60%
research, 20% extension, and 20% teaching.

Director of Wood Utilization Research Program. Principal
Investigator and Chairman of the
Management/Operations Committee; Member of Policy

Committee (four members); and Leader of Wood Composite Materials Research Team. This was a unique cross-disciplinary program integrating members of the Department of Forestry and the Schools of Engineering into teams focusing on wood utilization research topics. 1985-1988.

Director of Wood Research Laboratory, and Professor, Dept. of Forestry & Natural Resources, Purdue University, 1982-2002.

Professor of Wood Science, Dept. of Forestry and Natural Resources, Purdue University. 1979-present.

Teaching Assignment

Wood-Base Composite Materials (dual senior/graduate level course).

Research Interest

- Structural Applications of Wood-Base Composite Materials
- Use, Reuse and Care of Wood in Historic Preservation and Restoration.

Citations in Biographical Works

Men of Achievement, Seventeenth Edition, International Biographical Centre
American Men and Women of Science
Who's Who in the Midwest
The Directory of Distinguished Americans
Personalities of America
Most Admired Men and Women of the Year
International Who's Who in Engineering
Who's Who in Technology
Who's Who in Science and Engineering
Who's Who in American Education
Who's Who in the World
Who's Who in America
Dictionary of International Biography

Honors

1984 Gottschalk Memorial Award, Forest Products Research Society
1991 Distinguished Service Award, Forest Products Research Society

Honorary Societies

Sigma Xi
Xi Sigma Pi
Lances, junior men's honorary, University of Kentucky

Memberships and Offices

Forest Products Society:

- Chair 1993 International Nominating Committee
- Past-President 1991-1992
- President 1990-1991
- President Elect 1989-1990
- Vice President 1988-89
- General Chairman, 1987 Annual Meeting
- Journal reviewer, Wood Award Judge, Trustee (Great Lakes Section), Technical Meeting Program Committee, Regional and International Nominating Committees, Program Committee; East North Central Region Member, Executive Board; Chair, Integration of the Restructuring of the Society Committee

Society of Wood Science and Technology:

- SAF/SWST Liaison Committee
- Journal reviewer.

American Society for Testing and Materials: 1970-2002

- Committee D7 on Wood, former Member-at-Large, Executive sub-committee
- Journal reviewer, ASTM Journal of Testing and Evaluation

Patent

Hunt, M. O., W. F. Lehmann, and D. A. Fergus. 1981.
U.S. Patent 4,246,310, Lightweight, high-performance structural particleboard. January 20, 1981.

Consulting

Automated Building Components; SOHIO; Jurus, Young, Hunter and Workman; Capital Machine Co.; Coppes, Inc.; ENM Corp.; Hillenbrand Associates; Schererville Lumber and Supply Co.; National Homes Corp.; International Paper Co.; Weyerhaeuser Co.; Alpine Structures Inc.; Barnes and Thornburg; Harmeson Mfg. Co.; North American Van Lines; Monon Corp.; Richard M. Cagen/Yosha Cline Farrell & Ladendorf; Thompson Industries; Union-Camp Corp.

Historic and Neighborhood Preservation

Offices and memberships

Wabash Valley Trust for Historic Preservation

Past Vice-president; chair of Historic Plaque Committee;
 chair of Campus Preservation Committee
 Historic Landmarks Foundation of Indiana
 Tippecanoe County Historical Association
 Historic Centennial Neighborhood Assn.
 Neighborhood Action Committee
 Lafayette Neighborhood Association Coalition

Awards

1993 Spirit of the Hill Award, Ninth Street Hill Assn.
 1994 Sandi Servaas Memorial Award, Historic Landmarks Foundation of Indiana
 (the following were awarded to Phyllis and M.O. Hunt)
 Historic Plaque for Hart, Beasley, Hunt House by Wabash Valley Trust for Historic Preservation
 1995 Silk Purse Award for Excellence in Historic Restoration
 Wabash Valley Trust for Historic Preservation
 1995 Pride of Centennial Award (for renovation of property), Centennial Neighborhood Association.
 1995 Center City Preservation Award, Greater Lafayette Chamber of Commerce and Downtown Business Center
 1997 Preservation Award, Tippecanoe County Historical Assn.
 1999 Harold Fannon Neighborhood Preservation Award - co-recipient
 2000 Johanna Downie Memorial Award, Wabash Valley Trust for Historic Preservation

Practical Implementation

Restored a badly deteriorated 1845 Greek Revival house to its original interior and exterior appearance. It is the residence of Phyllis and M.O. Hunt.

Funded Research

<u>Date</u>	<u>Agency</u>	<u>Title</u>	<u>Funding</u>
1975-76		Potential Use of Hardwood Particle-Products board for Heavy Industrial Flooring and Roof Decking	Forest Laboratory, USDA Forest Service
1976-77		Development of Thick Reconstituted Products Wood Panels for Potential Use as Roof Decking in Commercial and Industrial Buildings	Forest Laboratory, USDA Forest Service

1977-81	Testing Full-Size, Thick Hardwood Products Flakeboard Panels for Potential Use as Roof Decking in Flat-Roofed Buildings	Forest Laboratory, USDA Forest Service
1981-84	Design and Development of Composite Products Structural Panels from Mixed Hardwoods	Forest Laboratory, USDA Forest Service
1985-86	Center of Wood Utilization Research of	U.S. Dept. Agriculture
1985-87	Stochastic Prediction of the Mechanical Properties of a Structural Wood Composite Material	National Science Foundation
1991-92	Effect of 85 Years of Service on Mechanical Properties of Timber Roof Members	National Science Foundation
1994-96	Effect of Stochastic Damage Accumulation on Strength of Wood	USDA NRICGP
1996	Use, Reuse and Care of Wood in Historic Restoration and Preservation: Facade Restoration	Indiana Dept. of Natural Resources
1997 Forest Forest	Feasibility of Stress Wave Inspection of Wood Floors	U.S.D.A. Service, Products Laboratory
1997	Nondestructive Structural Evaluation of Wood Floor Systems in Historic Buildings	U.S. Dept. of the Interior National Park Service
2000-02 Forest Forest	In-place assessment of timbers	U.S.D.A. Service, Products Laboratory

Invited Papers

- 1969 Finite-element analysis of a flakeboard. Conference on Theory and Design of Wood and Fiber Composite Materials, University of Washington, Seattle, June 9-13.
- 1975 Mechanical properties of particleboard. Midwest Section Meeting of the Forest Products Research Society, Champaign, IL, April 3.
- 1977 Structural flakeboard roof decking. National Industry Liaison Meeting-Forest Products Research. USDA Forest Service, Forest Products Laboratory. Sept. 13-15. Madison.
- 1977 Structural composite products from hardwoods. Utilizing the Hardwood Resource Institute. Dept. of Engineering, University of Wisconsin-Extension, Oct. 3-4.
- 1977 Potential of hardwood structural particleboard for industrial/commercial decking. National Conference of Forest Products Utilization Research, USDA Forest Service, Forest Products Laboratory, Madison, WI, Oct. 25-27.
- 1978 Feasibility of manufacturing flakeboard roof decking from hardwoods. 12th International Particleboard Symposium, Washington State University, Pullman, WA, April 4-6.
- 1978 Hardwood structural particleboard for industrial/commercial roof decking. 85th National Meeting of the American Institute of Chemical Engineers, Philadelphia, June 4-8.
- 1978 Structural design with particleboard. 1978 Winter Meeting, American Society of Agricultural Engineers, Chicago, Dec. 18
- 1979 Structural particleboard for long span, roof decking. Annual Meeting of the American Society of Civil Engineers, Boston, April 1-6.
- 1979 Composites of oak: The product design process. 7th Annual Hardwood Symposium, Hardwood Research Council, Cashiers, NC.
- 1979 Thick flakeboard - design, fabrication and testing of full-size specimens. Forest Products Utilization Conference, USDA Forest Service, Forest Products Laboratory.
- 1980 Residential and farm building applications of particleboard. Farm Structures Day, University of Illinois.

- 1980 Manufacture of thick roof decking from oak particles. Symposium on Utilization of Low-Grade Southern Hardwoods-
- Feasibility Studies of 36 Enterprises, Nashville, TN.
- 1980 Red oak particleboard roof decking. Forest Products Utilization Research Conference, USDA Forest Service, Forest Products Laboratory.
- 1980 Thick aspen flakeboard for industrial/commercial roof decking. Canadian Waferboard Symposium, Ottawa.
- 1980 Structural particleboard update. Farm Builders Conference, W. Lafayette, IN.
- 1982 ASTM testing and material standards for structural wood-base composites. Eastern Canadian Section, Fall Meeting, Forest Products Research Society, North Bay, Ontario.
- 1982 Structural particleboard. 1982 Michigan Agricultural Buildings and Equipment Conference, Midland, MI.
- 1983 Structural flakeboard for industrial/commercial roof decking-- successes and problems to solve. International Particleboard/Composite Materials Symposium, Washington State University, Pullman, WA.
- 1984 A design approach for mixed hardwood structural flakeboard. Forest Products Research Society Conference on Structural Wood Composites, Minneapolis, MN, Nov. 14.
- 1987 Use of hardwoods in OSB and other reconstituted products. XV Annual Hardwood Symposium, Hardwood Research Council, Memphis, TN, May 12.
- 1997 Use, reuse and care of wood in historic preservation and restoration. Cornelius O'Brien Conf. On Historic Preservation, Lafayette, IN, Oct. 10.
- 1998 Use, reuse and care of wood in historic restoration. Restoration & Renovation Boston, 98.
- 2000 Weathering of painted wood construction: façade restoration, National Town Meeting on Main Street, Boston.

Publications

- Hunt, M. O. 1961. Wood utilization research in Indiana. The Northeastern Logger, 10(5):18-19, 46-49.

- Hunt, M. O. 1962. Particleboard industry--facts and references. Purdue Univ. Coop. Ext. Serv. Mimeo F-42, 12 pp.
- Hunt, M. O. and J. F. Senft. 1963. Machine grading of lumber. The Northeastern Logger, 11(11):21-27, 51.
- Hunt, M. O. 1963. The Cleveland Conference: building construction. The Northern Logger, 12(2):13, 37.
- Hunt, M. O. 1963. Physical properties of particleboard established by industry. Wood Working Digest, 65(9):27.
- Hunt, M. O. 1964. A wood reference list for industrial arts instructors. Purdue Univ. Coop. Ext. Serv. Mimeo F-44, 8 pp
- Hunt, M. O. and R. H. Perkins. 1964. Treated wood products for farm and home outdoor use. The Northern Logger 13(2):20, 42-43 and Purdue Univ. Coop. Ext. Serv. Mimeo F-45, 9 pp
- Hunt, M. O. 1964. Eastern white pine for poles. The Northern Logger 13(4):16, 44-46 and Purdue Univ. Coop. Ext. Serv. Mimeo F-46, 6 pp
- Hunt, M. O. and J. F. Senft. 1965. Derivation of stress grades of structural lumber. Purdue Univ. Coop. Ext. Serv. Mimeo F-50, 6 pp
- Jayne, B. A. and M. O. Hunt. 1969. Plane stress and plane strain in orthotropic and anisotropic media. Wood and Fiber 1(3):236-247.
- Perkins, R. H. and M. O. Hunt. 1969. The cold-soak preservative treatment of rough-sawn hardwood lumber. Purdue Univ. Agr. Exp. Sta. Res. Bull. 850. 8 pp
- Hunt, M. O. and S. K. Suddarth. 1970. Stiffness matrix for a rectangular plate element of anisotropic material. Purdue Univ. Agr. Exp. Sta. Res. Bull. 858. 9 pp
- Hunt, M. O. 1972. The durability of plywood structures. Purdue Univ. Agr. Exp. Sta. Res. Bull. 887. 16 pp
- Hunt, M. O. 1972. Finite-element analysis of flakeboard. Chap. 11 In B. A. Jayne (ed.). Theory and Design of Wood and Fiber Composite Materials. Syracuse Wood Science Series, Vol. 3, Syracuse University Press. pp. 287-298.
- Hunt, M. O., D. A. Fergus, and S. K. Suddarth. 1973. Improved graphic presentation of duration of load effect

- for wood. Purdue Univ. Coop. Ext. Serv. Mimeo F-65, 7 pp.
- Hunt, M. O. and S. K. Suddarth. 1974. Prediction of elastic constants of particleboard. Forest Products Journal 24(5): 52-57.
- Hunt, M. O. 1975. Structural particleboard for webs of composite beams. Forest Products Journal 25(2):55-57.
- Hunt, M. O. 1975. Mechanical characteristics of 21-year old weathered nail joints. Forest Products Journal 25(7):49-57.
- Hunt, M. O. and D. A. Matteson. 1976. Structural characteristics of weathered plywood. Journal of the Structural Div., Am. Society of Civil Engineers, Vol. 102, No. ST4:759-768.
- Hunt, M. O. 1976. Commentary on structural particleboard and structural reliability. Forest Products Journal 26(10): 48-49.
- Perkins, R. H. and M. O. Hunt. 1976. Field service tests of cold-soak preservative treated wood products. Purdue Univ. Agr. Exp. Sta. Res. Bull. 939. 9 pp
- Fergus, D. A., W. L. Hoover, M. O. Hunt, T. H. Ellis, G. B. Harpole, and E. L. Schaffer. 1977. Potential use of wood-base materials for commercial and industrial flooring and decking. Purdue Univ. Agr. Exp. Sta. Res. Bull. 942. 32 pp
- Percival, D. H., M. O. Hunt, Q. B. Comus, and S. K. Suddarth. 1977. Pilot test of four 16-foot, wood-base composite garage headers. Forest Products Journal 27(9):45-48.
- Hunt, M. O. 1977. Structural particleboard: a new construction panel product. Purdue Univ. Coop. Ext. Serv. FNR-75, 6 pp
- Fergus, D. A., W. L. Hoover, and M. O. Hunt. 1977. Wood flooring for the transportation industries. Wood and Wood Products 82(7):27-28.
- Harpole, G. B., W. F. Lehmann, M. O. Hunt, D. A. Fergus, and W. L. Hoover. 1977. Feasibility of manufacturing structural flakeboard roof decking from dense hardwoods in the United States. In: Proceedings of Panel Products Working Party, Meeting of International Union of Forestry Research Organizations, Oct. 3-7, Merida, Venezuela.

- Hunt, M. O., W. L. Hoover, D. A. Fergus, W. F. Lehmann, and J. D. McNatt. 1978. Red oak structural particleboard for industrial/commercial roof decking. Purdue Univ. Agr. Exp. Sta. Res. Bull. 954.
- Hunt, M. O. 1978. Moisture content effect on in-plane shear moduli of sheathing grade flakeboard and plywood. Forest Products Journal 28(12):48-50.
- Hunt, M. O., W. L. Hoover, D. A. Fergus, and W. F. Lehmann. 1978. Feasibility of manufacturing flakeboard roof decking from hardwoods. In: Proceedings of 12th International Particleboard Symposium, Washington State University.
- Hunt, M. O. 1978. Structural design with particleboard. Paper No. 78-4503, Am. Society of Agricultural Engineers.
- Hoover, W. L., M. O. Hunt, D. A. Fergus, and G. B. Harpole. 1979. Economic feasibility of red oak structural particleboard for industrial/commercial roof decking. Purdue Univ. Agr. Exp. Sta. Res. Bull. 958.
- Hunt, M. O., W. L. Hoover, D. A. Fergus, W. F. Lehmann, and J. D. McNatt. 1979. Red oak structural particleboard. Forest Products Journal 29(9):43-49.
- Hunt, M. O. 1979. Long-span roof decking of structural particleboard. Session 63, Am. Society of Civil Engineers Spring Convention.
- Fergus, D. A., M. O. Hunt, S. K. Suddarth, and C. D. Sutton. 1979. Experimental stress analysis of wood-base composite beams. Session 62, Am. Society of Civil Engineers Spring Convention.
- Hunt, M. O. and W. L. Hoover. 1979. Composites from oak: the product design process. In: Proceedings of 7th Annual Symposium of the Hardwood Research Council.
- Hunt, M. O., J. D. McNatt, and D. A. Fergus. 1980. Evaluation of new shear property test methods for thick particleboard. Forest Products Journal 30(2):39-42.
- Hunt, M. O. 1980. The new world of wood-base composites: high technology particleboard in structural applications. The Construction Specifier 33(3):46-53.
- Hunt, M. O., W. L. Hoover, D. A. Fergus, and W. F. Lehmann. 1980. Thick aspen structural flakeboard for industrial/commercial roof decking. In: Proceedings of the 1980 Canadian Waferboard Symposium, Ottawa. pp. 239-259.

- Hunt, M. O. 1980. New wave of structural wood panel products. Automation in Housing & Systems Building News 17(11).
- Cassens, D. L., M. O. Hunt, and W. L. Hoover. 1980. Eds. Opportunities and constraints in the utilization of the hardwood resources. In: Proceedings of the 1980 John S. Wright Forestry Conference, Purdue University.
- Hoover, W.L., M.O. Hunt, and G.B. Harpole. 1980. Manufacture of thick roof decking from oak particles. In: Proceedings of the Utilization of Low-Grade Southern Hardwoods: Feasibility Studies of 36 Enterprises Symposium, Nashville, TN.
- McNatt, J. D. and M. O. Hunt. 1982. Creep of thick structural flakeboards in constant and cyclic humidity. Forest Products Journal 32(5):49-54.
- Geimer, R. L., W. L. Hoover, and M. O. Hunt. 1982. Design and construction of large-scale reconstituted wood roof decking. Purdue Univ. Agr. Exp. Sta. Res. Bull. 973.
- Wolfe, R. W. and M. O. Hunt. 1982. Structural evaluation of red oak flakeboard panels for potential use as roof decking. USDA Forest Products Laboratory unpublished Wood Engineering Research Technical Note, File No. COM2-5J.
- Hunt, M. O., W. L. Hoover, and G. B. Harpole. 1983. Hardwood structural flakeboard for industrial/commercial roof decking: successes and problems to solve. In: Proceedings of 17th International Particleboard Symposium, Washington State University.
- Hunt, M. O., W. L. Hoover, R. C. Lattanzi, and J. A. Youngquist. 1985. A design approach for mixed hardwood structural flakeboard. In: Proceedings of Conference on Structural Wood Composites, Forest Products Research Society, Madison, WI.
- Hunt, M. O., W. L. Hoover, and D. A. Fergus. 1985. Thick aspen structural flakeboard. Forest Products Journal 35(4):33-39.
- Hoover, W. L., M. O. Hunt, R. C. Lattanzi, T. M. Maloney, and J. A. Youngquist. 1985. Implications of a design approach for mixed hardwood structural flakeboard. In: Proceedings of 19th Washington State University International Particleboard/Composite Materials Series Symposium. Pullman, WA.

- Hunt, M. O. 1986. Solid wood base composite materials. Furniture Design and Manufacturing 58(5).
- Percival, D. and M. O. Hunt. 1986. Structural Panels. D7.2. Council Notes Vol. 8, No. 2, University of Illinois at Urbana - Champaign, Small Homes Council - Building Research Council.
- Hunt, M. O. 1987. Use of hardwoods in OSB and other reconstituted products. In Proceedings of XV Annual Hardwood Symposium, Hardwood Research Council, Memphis, TN.
- Narayan, R., C. J. Bierman, M. O. Hunt and D. P. Horn. 1988. Cellulose Graft Copolymers for Potential Adhesive Applications: Bonding of Plastics to Wood. ACS Symp. Ser. No. 385, Chapter 24.
- Hunt, M. O., M. H. Triche, G. P. McCabe and W.L. Hoover. 1989. Tensile properties of yellow poplar veneer strands. Forest Products Journal. Forest Products Journal 39(9):31-33.
- Bateman, J. H., M. O. Hunt and C. T. Sun. 1990. New interlaminar shear test for structural wood composites. Forest Products Journal. 40(3):9-14.
- Hoover, W.L., M.O. Hunt, R.C. Lattanzi, J.H. Bateman, and J.A. Youngquist. 1992. Modeling mechanical properties of single-layer, aligned, mixed-hardwood strand panels. Forest Products Journal. 42(5):12-18.
- Hunt, M.O., S.R. Shook, and J.P. Bradtmueller. 1993. Longitudinal shear strength of LVL via five-point bending test. Forest Products Journal. 43(7/8):39-44.
- Triche, M.H. and M. O. Hunt. 1993. Modeling of parallel aligned wood strand composites. Forest Products Journal. 43(11/12)
- Bradtmueller, J. P., M. O. Hunt, K. J. Fridley, and G. P. McCabe. 1994. Development of the five-point bending test to determine shear moduli of wood composites. Forest Products Journal. 44(5):18-26.
- Mitchell, J. B., K. J. Fridley, M. O. Hunt, and J. F. Senft. 1994. Evaluation of 85-year old roof-trusses. In Proceedings from the Wood Engineering Division Sessions at the 1993 Meeting of Forest Products Society, Madison, WI.
- Mitchell, J. B., K. J. Fridley, M. O. Hunt, and J. F. Senft. 1994. Load duration effects in 85 year old timber

- structure. In Proceedings, 1994 ASCE Structures Congress, Atlanta, GA.
- Fridley, K. J., J. B. Mitchell, M. O. Hunt, and J. F. Senft. 1994. Evaluation of load-duration effects in 85 year old roof timbers. In Proceedings of the 1994 Pacific Timber Engineering Conference, Vol. 2, 162-167.
- Fridley, K. J., M. O. Hunt, and J. F. Senft. 1995. Historical perspective of duration-of-load concepts. Forest Products Journal. 45(4):72-74.
- Rosowsky, D. V. and M. O. Hunt. 1995. Increasing the competitiveness of structural wood composites using probabilistic methods. Forest Products Journal. 45(11/12):83-86.
- Fridley, K. J., J. B. Mitchell, M. O. Hunt, and J. F. Senft. 1996. Effect of 85 years of service on mechanical properties of timber roof members, Part 1: experimental results. Forest Products Journal. 46(5):72-78.
- Fridley, K. J., J. B. Mitchell, M. O. Hunt, and J. F. Senft. 1996. Effect of 85 years of service on mechanical properties of timber members, Part 2: cumulative damage analysis. Forest Products Journal. 46(6):85-96.
- Cai, Z., J. P. Bradtmueller, M. O. Hunt, K. J. Fridley and D.V. Rosowsky. 1996. Fatigue behavior of OSB in shear. Forest Products Journal. 46(10):81-86.
- Cai, Z., M. O. Hunt, K. J. Fridley and D. V. Rosowsky. 1996. Use of phase-plot to evaluate damping of free vibration in wood-based materials. In Proceedings of the International Society for Optical Engineering Conference on Nondestructive Evaluation of Aging Infrastructure Materials and Composites.
- Cai, Z., M. O. Hunt, K. J. Fridley and D. V. Rosowsky. 1997. New technique for evaluating damping of longitudinal free vibration in wood-based materials. Journal of Testing and Evaluation (ASTM). 25(4):456-460.
- Bradtmueller, J. P., M.O. Hunt, K.J. Fridley, and G.P. McCabe. 1997. Mechanical properties of OSB via five-point bending test. Forest Products Journal. 47(9):70-77.
- Fridley, K. J., M. O. Hunt and J. F. Senft. 1998. Effect of 85 years of service on mechanical properties of timber roof members. Part III. Reliability study. Wood and Fiber Science 30(1):72-80.

- Bradtmueller, J. P., M. O. Hunt and S. M. Shook. 1998. Mechanical properties of laminated veneer lumber via five-point bending test. *Journal of Testing and Evaluation (ASTM)*. 26(2):132-137.
- Cai, Z., G. P. McCabe, M. O. Hunt, J. P. Bradtmueller, K. J. Fridley, and D.V. Rosowsky. 1998. Predicting strength of matched sets of test specimens, *Wood and Fiber Science*. 30(4):396-404.
- Cai, Z., M. O. Hunt, R. J. Ross and L. A. Soltis. 2000. Static and vibration moduli of elasticity of salvaged and new joists. *Forest Products Journal*. 50(2):35-40.
- Cai, Z., D. V. Rosowsky, M. O. Hunt and K. J. Fridley. 2000. Comparison of actual vs. simulated failure distributions of flexural wood specimens subject to five-day load sequences. *Forest Products Journal*. 50(1):74-80.
- Soltis, L. A., M. O. Hunt, R. J. Ross, X. Wang and Z. Cai. 2000. Nondestructive structural evaluation of wood floor systems in historic buildings. In Proceedings 12th International Symposium on Nondestructive Testing of Wood. Sopron, Hungary.
- Ross, R. J. and M. O. Hunt. 2000. Stress wave timing nondestructive evaluation tools for inspecting historic structures: a guide for use and interpretation. USDA Forest Service Products Laboratory General Technical Report FPL-GTR-119.
- Ross, R. J., M. O. Hunt, X. Wang and L. A. Soltis. 2001. Floor vibration: a possible assessment method for historic buildings. *APT Bulletin XXXII*, No. 2-3:23-25.
- Cai, Z., R. J. Ross, M. O. Hunt and L. A. Soltis. 2002. Pilot study to examine NDE for assessing floor systems. *Forest Products Journal*. 52(1):89-93.
- Soltis, L.A., X. Wang, R.J. Ross and M. O. Hunt. 2002. Vibration testing of timber floor systems. *Forest Products Journal*. 52(10):75-81.
- Ross, R.J., X. Wang, M. O. Hunt, L. A. Soltis. 2002. Transverse vibration technique to identify deteriorated wood floor systems. *Experimental Techniques*. July/August 2002:28-30.
- Cai, Z., K. J. Fridley, M. O. Hunt, and D. V. Rosowsky. 2002. Creep and creep recovery models for wood under high stress levels. *Wood and Fiber Science*. 34(3):425-433.

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Nondestructive structural evaluation of wood floor
systems with a vibration technique. In, Proceedings of
the 2002 Society of Experimental Mechanics Annual
Conference and Exposition on Experimental and Applied
Mechanics, June 10-12, 2002, Milwaukee, WI. Pp. 260-262.
- Hunt, M. O., A.J. O'Malley, W.C. Feist, G. P. McCabe, J. Evans
and D. L. Cassens. 2003 Weathering of painted wood
construction: façade restoration. Forest Products
Journal. In Press.