



Lee R. Stover
Partner and Lead Consultant
L & E Stover Enterprises

Areas of Experience:

- Physical properties of wood
- Mechanical properties of wood
- Wood anatomical structure
- Moisture movement in wood
- Kiln-drying of wood
- Wood-polymer composites
- Wood cement composites
- Chainsaw safety
- Precision timber falling
- Development of research equipment and techniques.

Formal education:

- Pennsylvania State University, University Park, PA 16802
Masters of Science in Material Sciences and Engineering
Graduated, 1974
- Pennsylvania State University, University Park, PA 16802
Bachelor of Science in Biophysics
Graduated, 1972
- Juniata Valley High School, Alexandria, PA 16611
Salutatorian in Vocational Agriculture/Academic
Graduated, 1967

Professional and research experience since 1974:

- *August 2010 – Present*, Partner and Lead Consultant
L & E Stover Enterprises, *Tyrone, PA*
- *July 1997- July 2010*, Senior Research Assistant
Penn State School of Forest Resources, *University Park, PA*
 - Extension (40%)
 - Teaching (40%)
 - Research (20%)



- 1987- July 1997, Research Assistant
Penn State School of Forest Resources, *University Park, PA*
 - Extension (15-25%)
 - Teaching (25-35%)
 - Research (50%)

- 1980- 1987, Project Research Assistant
Penn State School of Forest Resources, *University Park, PA*
 - Teaching (15%)
 - Research (85%)

- 1980- July 2010, Sole Proprietor
L. R. Stover Enterprises, *Tyrone, PA*

- 1974- 1980, Graduate Research Assistant
Penn State College of Earth and Mineral Sciences, *University Park, PA*

Courses, Workshops, & Short Courses Collaboratively Developed and/or Taught:

Undergraduate Courses

- Polymer Science 210
Introduction to Polymeric Materials
(3 credits)

- Materials Science 406
Introduction to Biomedical Materials
(3 credits)

- Wood Products 201
Introduction to Wood Products Industry with Macroscopic Wood Identification
(2 credits)

- Forest/Wood Products 203
Anatomical Properties of Wood with Macroscopic and Microscopic Wood Identification
(1 credits)

- Forestry 339
Timber Harvesting
(3 credits)



- Forestry 366
Forest Resources Inventory
(3 credits)

- Wood Products 417
Wood Products Manufacturing Systems and Products
(3 credits)

- Forestry 496
Special Problems Course: "Log and Lumber Grading", "Train the Trainer Chainsaw Safety", "Wildland Fire Power Saws S-212", etc.
(1-4 credits)

- Wood Products 496
Special Problems Course: "Kiln Drying", "Lumber Quality", "Wood Products Manufacturing", etc.
(1-4 credits)

- Forestry 497
Professional Chainsaw Safety, Maintenance, and Operation for the Chainsaw Safety Instructor
(2 credits)

Extension Teaching Activities

- *Dry Kiln Operators short course*

- *Hardwood Log and Lumber Grading Workshops and Short Courses*

- *Chain Saw Safety and Safe Tree Felling Workshops and Short Courses*

- *Hazard Recognition and Equipment Safety for Small Woodlot Management Workshops*

Refereed Publications:

1. Weyers, R. E., P. R. Blankenhorn, L. R. Stover, and D. E. Kline. 1978. Effects of Sterilization Procedures on the Tensile Properties of Polycarbonate. *Journal of Applied Polymer Science*, 22:2019-2024.

2. Weyers, R. E., P. D. Cady, P. R. Blankenhorn, and L. R. Stover. 1981. Evaluation of the Bond Durability of Low Slump and Latex-Modified Concrete Overlays on Polymer Impregnated Concrete. *American Concrete Institute*, SP-



69:169-178.

3. Gowen, W. H., L. R. Stover, V. E. Evans, G. R. Moore, P. R. Blankenhorn, and D. E. Kline. 1984. E. Coli Residues on the Surfaces of Sterilized Glass and Segmented Polyurethane: A Scanning Electron Microscope Study. *ASAIO (Journal of the American Society for Artificial Internal Organs)*, 7 (January/March):25-31.
4. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, G. L. Stimely, L. R. Stover and M. L. DiCola. 1988. Effects of Management Strategy and Site on Selected Properties of First Rotation *Populus* Hybrid NE-388. *Wood and Fiber Science*, 20(1):74-81.
5. Blankenhorn, P. R., P. Labosky, L. R. Stover and David Nicholls. 1989. Selected Chemical Modifications of Red Oak and Hard Maple Flakes for Flakeboard Manufacturing. *Wood and Fiber Science*, 21(2):169-176.
6. Bowersox, T. W., P. R. Blankenhorn, C. H. Strauss, and L. R. Stover. 1991. Height and Diameter Growth of Dense *Populus* Plantations in Response to Fertilization and Irrigation. *Biomass and Bioenergy* 1(2):111-117.
7. Doud, L. F., W. W. Johnson, P. R. Blankenhorn, L. R. Stover, and W. G. Luppold. 1992. A Description of the 1987 Kitchen Cabinet Industry in Pennsylvania. *Forest Products Journal* 42(4):33-39.
8. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, K. R. Kessler, L. R. Stover, W. R. Kilmer, and M. L. DiCola. 1992. Effects of Management Strategy and Site on Specific Gravity of a *Populus* Hybrid Clone. *Wood and Fiber Science* 24(3):274-279.
9. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, K. R. Kessler, L. R. Stover, and M. L. DiCola. 1992. Chemical Composition of Second Rotation *Populus* Hybrid NE-388. *Wood and Fiber Science* 24(3):280-286.
10. Bowersox, T. W., L. R. Stover, C. H. Strauss, and P. R. Blankenhorn. 1992. Advantages of an Effective Weed Control Program for *Populus* Hybrids. *Tree Planters Notes* 43(3):81-86.
11. Blankenhorn, P. R., P. Labosky, Jr., M. L. DiCola, and L. R. Stover. 1994. Compressive Strength of Hardwood-Cement Composites. *Forest Products Journal* 44(4):59-62.
12. Mahan, C. G., R. H. Yahner, and L. R. Stover. 1994. Development of remote-collaring techniques for red squirrels. *Wildl. Soc. Bull.* 22(2):270-273.



Articles Published in Conference Proceedings:

1. Bowersox, T. W., P. R. Blankenhorn, C. H. Strauss, and L. R. Stover. 1984. Irrigation and Fertilization Increases the Biomass Yield of Dense *Populus* Plantations. *Proceedings of the 17th Session of the International Poplar Commission*, FAO, Ottawa, Canada.
2. Doud, L. F., W. W. Johnson, P. R. Blankenhorn, L. R. Stover. 1990. Analysis of the 1987 Kitchen Cabinet Industry in Pennsylvania. Proceedings: 44th FPRS Annual Meeting, Salt Lake City, Utah.
3. Blankenhorn, P. R., P. Labosky, Jr., M. L. DiCola, and L. R. Stover. 1991. The Use of Eastern Hardwoods in the United States for the Production of Cement-Bonded Particleboard. Proceedings of Inorganic Bonded Wood and Fiber Composite Materials. 28-31.

Research Reports to Sponsor:

1. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, K. D. Oswald, S. C. Grado, and R. P. Long. 1981. Net Energy and Economic Analyses for Producing *Populus* Hybrid Under Four Management Strategies. Annual Report to U.S. DOE. 45 pp.
2. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, S. C. Grado, G. L. Stimley, R. P. Long, and M. L. DiCola. 1982. Net Energy and Economic Analyses for Producing *Populus* Hybrid Under Four Management Strategies. Annual Report to U.S. DOE. 103 pp.
3. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, S. C. Grado, C. A. Hornicsar, and M. L. DiCola. 1983. Net Energy and Economic Analyses for Producing *Populus* Hybrid Under Four Management Strategies. Annual Report to U.S. DOE. 162 pp.
4. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, S. C. Grado, C. A. Hornicsar, and M. L. DiCola. 1984. Net Energy and Economic Analyses for Producing *Populus* Hybrid Under Four Management Strategies. Annual Report to U.S. DOE. 183 pp.
5. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, S. C. Grado, G. L. Stimely, M. L. DiCola, and C. A. Hornicsar. 1984. Net Energy and Financial Analyses for Producing *Populus* Hybrid Under Four Management Strategies - First Rotation. 1984-1985 Annual Report to U.S. DOE. 239 pp.
6. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, S. C. Grado,



- M. L. DiCola, and B. E. Lord. 1985. Economic Analyses for Producing *Populus* Hybrid Under Four Management Strategies. 1984-1985 Annual Report to U.S. DOE, 85 pp.
7. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, S. C. Grado, G. L. Stimely, M. L. DiCola, C. Hornicsar, and B. E. Lord. 1985. Net Financial and Energy Analyses for Producing *Populus* Hybrid Under Four Management Strategies - First Rotation. *Final Report* to U.S. DOE, 284 pp.
 8. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, S. C. Grado, M. L. DiCola, and B. E. Lord. 1987. Economic Analyses for Producing *Populus* Hybrid Under Four Management Strategies. 1986-1987 Annual Report to U.S. DOE, 94 pp.
 9. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, S. C. Grado, K. R. Kessler, W. R. Kilmer, M. L. DiCola and B. E. Lord. 1988. Economic Analyses for Producing *Populus* Hybrid Under Four Management Strategies. 1987-1988 Annual Report to U.S. DOE, 100 pp.
 10. Blankenhorn, P. R., T. W. Bowersox, C. H. Strauss, L. R. Stover, S. C. Grado, K. R. Kessler, W. R. Kilmer, M. L. DiCola and B. E. Lord. 1989. Economic Analyses for Producing Populus Hybrid Under Four Management Strategies. 1988-1989 Annual Report to U.S. DOE, 127 pp.

Safety Fact Sheets:

1. Murphy, D.J., L.R. Stover, and W.C. Harshman. 2010. Safely Using Farm Tractors in the Woods. Pennsylvania State University, College of Agricultural Sciences, Agricultural and Biological Engineering, Safety Fact Sheet E50.

Consulting or Extension/Public Service:

- Beaver College - Greg Towers
- C. & C. Smith Lumber Company
- Centre County Woodland Owners Association
- Woodings Verona Tool Works
- The Mann and Parker Lumber Company
- Bradford Forestry Products
- Buehler Lumber
- Koppers Industries, Inc.
- Eastern Building Materials Dealers Association
- Perma Grain
- Rigidply Rafters
- RUTT Cabinetry



- Plain and Fancy Cabinetry
- Colyer Kilns
- Doc's Dry Kilns
- Timber Wolf Corporation
- Keystone Hardwood, Inc.
- Strict Corporation
- Elmwood Manufacturers
- Hall-Woolford Tank Co., Inc.
- Yorktowne Kitchens
- Geo Decisions, Inc.

Consulting or Extension/Public Service (continued):

- Irvington Moore, Forest Products Division
- North Museum, Lancaster
- Carnegie Museum of Natural History
- Keystone Stihl, Inc.
- Tyrone Area School District
- State College Area School District
- Centre County Vocational Technical School
- Huntingdon County Vocational Technical School
- Pennsylvania House Furniture Company
- Schaeffer's Wood Products and Mill Work
- U. C. Coatings Corporation
- Delmhorst Instrument Company
- Wood Mode Incorporated
- Elkay Manufacturing Company
- Play World Systems, Inc.
- Private individuals far too numerous to mention

Expert Witness Related Services:

- Mr. Scott A. Snider, PhD Engineering Consultant
- Mr. Walter W. Johnson, PhD Wood Products Consultant
- Mr. Todd W. Bowersox, PhD Forestry Consultant
- Mr. Kim Steiner, PhD Forestry Consultant
- Mr. David Webb, PhD Wood Products Consulting
- Mr. Paul R. Blankenhorn, PhD Wood Products Consulting
- Mr. William T. Rees, Jr Baltimore Gas & Electric Company. Re: Robinson vs. Baltimore Gas & Electric Company et al.
- Master, Weinstein & Schnoll, P.C. Re: clients: Keith Weasner & Bernard Hurley. D/I 10/4/97.



- Robert Lape, Jr. Attorney at Law. Re: Harold G. Yeckley and Rita Yeckley vs. Charles S. and Kathryn E. Stoltz et al. Case no. 3941 Eq 1995.
- Office of the District Attorney of Lehigh County Courthouse. Re: Commonwealth vs. Jose Bermudez #177/97, Commonwealth vs. Carlos Lugo, Jr. #242/97, Commonwealth vs. Alberto Isaza # 620/97.
- Mattioni, Mattioni, & Mattioni, LLP Counselors at Law. Re: Emigholz vs. Textron et al. File no. 11174-19599.
- Brown & Levicoff, P.C. Re: Walters vs. Biernesser and Raible et al. File no. 00363/902
- Steiner, Crum and Baker, Attorneys at Law. Re: Jasmin Bell et al. vs. BellSouth Telecommunications Inc. et al. Case no. CV-95-15.