

Appointment: 60% Research/40% Extension

Requested Action: Promotion to the Rank of Professor

Research Activities – Todd F. Shupe, September 1, 2005

1. Listing of research publications (published items only)

Note underlined names are T. Shupe's graduate students)

Refereed journal articles (52)

- Piao, C., **T.F. Shupe**, V.J. Gopu, and C.Y. Hse. 2005. Theoretical modeling and experimental analyses of laminated wood composite poles. *Wood and Fiber Science*. 37(4): 662-672
- Via, B.K., **T.F. Shupe**, M. Stine, C.L. So, and L.H. Groom. 2005. Tracheid length prediction in *Pinus palustris* by means of near infrared spectroscopy: the influence of age. *Holz als Roh- und Werkstoff*. 63:231-236.
- Shupe, T.F.**, F.X. Aguilar, R.P. Vlosky, M. Belisle, and A. Chavez. 2005. Wood properties of selected lesser-used Honduran wood species. *Journal of Tropical Forest Science*. 17(3):349-357.
- Via, B.K., I.D. Hartley, **T.F. Shupe**, S.Y. Lee, and B.G. Lee. 2005. The swelling response of loblolly pine (*Pinus taeda*) juvenile wood to water submersion. *Korean Journal of Wood Science and Technology*. 33(2):17-23.
- Via, B.K., Q. Wu, I.D. Hartley, **T.F. Shupe**, S.Y. Lee, and B.G. Lee. 2005. Theoretical sensitivity of warp to varying layer thickness in 5-layer plywood. *Korean Journal of Wood Science and Technology*. 33(2): 24-28.
- Via, B.K., C. So, **T.F. Shupe**, M. Stine, and L.H. Groom. 2005. Capability of near infrared spectroscopy to monitor air-dry density distribution and variation of wood. *Wood and Fiber Science*. 37(3):394-402.
- Piao, C., **T.F. Shupe**, R.C. Tang, and C.Y. Hse. 2005. Finite element analyses of wood laminated composite poles. *Wood and Fiber Science*. 37(3): 535-541.
- Pugel, A.D., E. W. Price, C. Y. Hse, and **T.F. Shupe**. 2004. Composites from southern pine juvenile wood part 3: Juvenile and mature wood furnish mixtures. *Forest Products Journal*. 54(1):47-52.
- Catallo, W.J., **T.F. Shupe**, and R.P. Gambrell. 2004. Hydrothermal treatment of CCA- and penta-treated wood. *Wood and Fiber Science*. 36(2):152-160.
- Via, B.K. and **T.F. Shupe**. 2004. Diagnostic analysis of board foot to ton ratio for a small sawmill. *Forest Products Journal*. 53(11/12):88-94.
- Li, W., **T.F. Shupe**, and C.Y. Hse. 2004. Leaching of flakeboard produced from recycled CCA-treated wood into deionized water. *Forest Products Journal*. 54(3):38-41.
- Via, B.K., M. Stine, and **T.F. Shupe**, C.L. So, and L.H. Groom. 2004. Genetic improvement of fiber length and coarseness based on paper product performance and material variability -- A review. *International Association of Wood Anatomists Journal*. 25(4):401-414.
- Li, W., **T.F. Shupe**, and C.Y. Hse. 2004. Physical and mechanical properties of flakeboard from recycled CCA-treated wood. *Forest Products Journal*. 54(2):89-94.
- Vlosky, R.P. and **T.F. Shupe**. 2004. U.S. home builder perceptions about treated wood. *Forest Products Journal*. 54(10):41-48.
- Via, B.K., **T. F. Shupe**, L.H. Groom, M. Stine, and C.L. So. 2004. Multivariate modeling of density, strength, and stiffness from near infrared spectra for mature, juvenile, and pith wood of longleaf pine (*Pinus palustris*). *Journal of Near Infrared Spectroscopy* 11(5):365-378.
- Vlosky, R.P. and **T.F. Shupe**. 2004. An exploratory study of home builder, new-home owner, and real estate agent perceptions and attitudes about mold. *Forest Products Journal*. 54(12):289-295.

- Lee, S.Y., **T.F. Shupe**, and C.Y. Hse. 2004. Utilization of Chinese tallow tree and bagasse for medium density fiberboard. *Forest Products Journal*. 54(12):71-76.
- Vlosky, R.P. and **T.F. Shupe**. 2004. Buyer perceptions and purchasing patterns related to treated wood use in children's playground equipment. *Forest Products Journal*. 54(12):307-312.
- Li, X., **T.F. Shupe**, and C.Y. Hse. 2004. Wettability of three Honduran bamboo species. *Journal of Bamboo and Rattan*. 3(2):159-167.
- Piao, C., **T.F. Shupe**, and C.Y. Hse. 2004. Mechanical properties of small-scale wood laminated composite poles. *Wood and Fiber Science*. 36(4):536-546.
- Li, X., **T.F. Shupe**, and C.Y. Hse. 2004. Physical and mechanical properties of medium density fibreboards from bamboo and tallow fibres. *Journal of Bamboo and Rattan*. 3(4):383-392.
- Dunn, M.A., **T.F. Shupe**, and R.P. Vlosky. 2003. Homebuilder attitudes and preferences regarding southern yellow pine. *Forest Products Journal*. 53(4):36-41
- Catallo, W.J. and **T.F. Shupe**. 2003. Hydrothermal treatment of creosote-impregnated wood. *Wood and Fiber Science*. 35(4):524-531.
- Donkor, B.N., S. Kallioranta, R. P. Vlosky, and **T. F. Shupe**. 2003. A regional comparison of U.S. homeowner perceptions about treated wood. *The Forestry Chronicle* 79(5):967-975.
- Vlosky, R.P. and **T.F. Shupe**. 2002. Homeowner attitudes and preferences for building materials with an emphasis on treated wood products. *Forest Products Journal*. 52(7/8):90-95.
- Shupe, T.F.**, Q. Wu, and I.D. Hartley. 2002. Moisture meter correction factors for several southern hardwood species. *Forest Products Journal*. 52(7/8):59-62.
- Shupe, T.F.**, C.Y. Hse, and E.W. Price, and. 2001. Technical feasibility of structural flakeboard made from mixed hardwoods and cypress from north Florida. *Forest Products Journal*. 51(1):62-64.
- Shupe, T.F.**, S.T. Lebow, E.T. Choong, and M. Xiong. 2001. Inadequate re-drying linked to dimensional instability of CCA-treated southern pine lumber. *Forest Products Journal* 51(5):59-62.
- Choong, E.T., P.N. Peralta, and **T.F. Shupe**, and. 2001. Effect of hardwood vessels on longitudinal moisture diffusion. *Wood and Fiber Science*. 33(2):159-165.
- Shupe, T.F.**, C. Y. Hse and W. H. Wang. 2001. An investigation of selected factors that influence hardwood wettability. *Holzforschung* 55(5):541-548.
- Shupe, T.F.**, C.Y. Hse, and E.W. Price. 2001. Flake orientation effects on physical and mechanical properties of sweetgum flakeboard. *Forest Products Journal* 51(9):38-43.
- Roliadi, H, C.Y. Hse, E.T, Choong, and **T.F. Shupe**. 2000. Gluability of out-of-service utility poles. Decay resistance of out-of-service utility poles as related to the distribution of residual creosote content. *Forest Products Journal*. 50(10):76-81.
- Dunn, M.A., R.P. Vlosky, and **T.F. Shupe**. 2000. The pallet industry in the southern United States. *Forest Products Journal*. 50(10):30-34.
- Roliadi, H, C.Y. Hse, E.T, Choong, and **T.F. Shupe**. 2000. Decay resistance of out-of-service utility poles as related to the distribution of residual creosote content. *Forest Products Journal* 50(11/12):64-68.
- Shupe, T.F.**, C.Y. Hse, E.T. Choong, and L.H. Groom. 1999. Effect of silvicultural practice and wood type on loblolly pine particleboard and medium density fiberboard properties. *Holzforschung* 53(2)215-222.
- Choong, E.T., **T.F. Shupe**, and Y. Chen. 1999. Effect of steaming and hot-water soaking on extractive distribution and moisture diffusivity in southern pine during drying. *Wood and Fiber Science* 31(2)143-150.
- Shupe, T.F.**, E.T. Choong and M.D. Gibson, G.A. Grozdits, and O.V. Harding. 1998. The effects of previous drying on shrinkage and moisture content of some southern bottomland hardwoods. *Wood and Fiber Science* 30(3):273-280.

- Shupe, T.F.**, C.Y. Hse, E.T. Choong, and L.H. Groom. 1998. Effect of wood type and veneer side on loblolly pine veneer wettability. *Forest Products Journal* 48(6):95-97.
- Shupe, T.F.**, O.V. Harding, E.T. Choong and R.H. Mills. 1997. Effect of two drying schedules on spruce pine lumber defects. *Forest Products Journal* 47(1):57-60.
- Shupe, T.F.**, C.Y. Hse, E.T. Choong, and L.H. Groom. 1997. Differences in some chemical properties of innerwood and outerwood from five silviculturally different loblolly pine stands. *Wood and Fiber Science* 29(1):91-97.
- Shupe, T.F.**, C.Y. Hse, L.H. Groom and E.T. Choong. 1997. Effect of silvicultural practice and veneer layup on some mechanical properties of loblolly pine LVL. *Forest Products Journal* 47(9):63-69.
- Shupe, T.F.**, C.Y. Hse, G.A. Grozdits and E.T. Choong. 1997. Effect of silvicultural practice and veneer layup on some mechanical properties of loblolly pine plywood. *Forest Products Journal* 47(10):101-106.
- Shupe, T.F.**, C.Y. Hse, E.T. Choong and L.H. Groom. 1997. Effect of silvicultural practice and moisture content on the mechanical properties of loblolly pine veneer strips. *Forest Products Journal* 47(11/12):92-96.
- Harding, O.V., **T.F. Shupe**, E.T. Choong and R.H. Mills. 1997. Potential of two processing methods to reduce sweetgum and sassafras lumber defects. *Holz als Roh- und Werkstoff* 55(6):361-364.
- Shupe, T.F.**, E.T. Choong, D.D. Stokke and M.D. Gibson. 1996. Effect of fertilization treatments on cell dimensions and fibril angle of two even-aged loblolly pine plantations. *Wood and Fiber Science* 28(2):268-275.
- Chow, P., G.L. Rolfe, and **T.F. Shupe**. 1996. Analysis of some chemical properties of ten-year-old American sycamore and black locust grown in Illinois. *Wood and Fiber Science* 28(2):186-193.
- Shupe, T.F.**, E.T. Choong and C.H. Yang. 1996. The effects of silvicultural treatments on the chemical composition of loblolly pine wood. *Wood and Fiber Science* 28(3):295-300.
- Shupe, T.F.**, E.T. Choong and M.D. Gibson. 1996. The effects of previous drying and extractives on shrinkage of outerwood, middlewood, and corewood of two sweetgum trees. *Forest Products Journal* 46(9):94-97.
- Shupe, T.F.** and P. Chow. 1996. The effects of various relative humidities on the adsorption and desorption and equilibrium moisture content of Kempas (*Koombassia malacensis*) wood. *Forest Products Journal* 46(10):94-96.
- Shupe, T.F.**, E.T. Choong and M.D. Gibson. 1995. Differences in moisture content and shrinkage between outerwood, middlewood, and corewood of two yellow-poplar trees. *Forest Products Journal* 45(9):85-90.
- Shupe, T.F.**, E.T. Choong and M.D. Gibson. 1995. Differences in moisture content and shrinkage between innerwood and outerwood of a single cottonwood tree. *Forest Products Journal* 45(10):89-92.
- Shupe, T.F.**, E.T. Choong and M.D. Gibson. 1995. Shrinkage of outerwood, middlewood and corewood of two sweetgum trees. *Wood and Fiber Science* 27(4):384-388.

Refereed Conference Proceedings (3)

- Vlosky, R.P., M.A. Dunn, A. Chavez, P.A. Monroe, **T.F. Shupe**, and D. Vlosky. 2003. Participatory forest sector economic development: from conceptual framework to application in Honduras. Proceedings of the XII World Forestry Congress. Québec, Canada. Paper #0208-A1. September 21-28, 2003. <http://www.fao.org/DOCREP/ARTICLE/WFC/XII/0208-A1.HTM>
- Shupe, T.F.**, C.Y. Hse and E.T. Choong. 1996. Effects of veneer grade layup on bending properties of loblolly pine LVL. In: V.K.A. Gopu (editor). Proceedings of the International Wood Engineering Conference '96. October 28-31, 1996. New Orleans, LA. pp. (2)526-530.

Choong, E.T., Y. Chen, and **T.F. Shupe**. 1996. Effect of steaming and hot-water soaking on the movement of moisture in hardwoods during drying. 5th International IUFRO Wood Drying Conference. Quality Wood Drying Through Process Modeling and Novel Technologies. August 13-17, 1996. Québec City, Québec, Canada pp. 419-426.

Refereed Abstracts (5)

Via, B.K., M. Stine, **T.F. Shupe**, and L.H. Groom. 2005. The covariance between mechanical and chemical properties for longleaf pine (*Pinus palustris*). In: The International Forestry Review. Forests in the balance: Linking tradition and technology. XXII IUFRO World Congress. Brisbane, Australia. August 8-13, 2005. p. 170.

Via, B.K., **T.F. Shupe**, L.H. Groom, C.L. So, and M. Stine. 2003. The modeling of longleaf pine traits for a partial diallel genetics study using near infrared spectroscopy. IAWA J. 24(3):332.

Shupe, T.F., L.H. Groom, and M. Stine. 2003. Genetic influences on longleaf pine wood properties assessed using near infrared spectra. IAWA J. 24(1):101.

Shupe, T.F., L.H. Groom, and M. Stine. 2003. Genetic influences on longleaf pine wood properties assessed using near infrared spectra. IUFRO All Division 5 Conference. March 11-16, 2003. Rotorua, New Zealand. p. 55.

Shupe, T.F., E.T. Choong and C.H. Yang. 1995. The effects of cultural treatments on the chemical composition of loblolly pine wood. IAWA Journal 16(1):18.

Feature Articles (not refereed) (4)

So, C.L., B.K. Via, L.H. Groom, L.R. Schimleck, **T.F. Shupe**, S.S. Kelley, and T.G. Rials. 2004. Near infrared spectroscopy in the forest products industry. Forest Products Journal. 54(3):6-16.

Freeman, M.H., **T.F. Shupe**, R.P. Vlosky, and H.M. Barnes. 2003. Past, present, and future of preservative-treated wood. Forest Products Journal 53(10):8-15.

Chavez, A., M. Dunn, P. Monroe, **T. Shupe**, L. Velupillai, R. Vlosky, D. Ashbaugh-Vlosky. 2001. After the hurricane: Forest sector reconstruction in Honduras. Forest Products Journal 51(11/12):18-24.

Shupe, T.F. and M.A. Dunn. 2000. The Formosan subterranean termite in Louisiana: Implications for the forest products industry. Forest Products Journal. 50(5):10-18.

Refereed Book Chapters (2)

Shupe, T.F. and C.Y. Hse. 2003. Delamination due to outdoor exposure of southern yellow pine plywood. In: (H.H. Lee and S.S. Jang, eds.). Better Utilization of Wood for Human, Earth and Future. International Conference on Forest Products. April 21-24, 2003. Daejeon, Korea. Vol. 1:332-338. (ISBN : 89-87603-01-6-94540). The Korean Society of Wood Science and Technology. Seoul, Korea.

Chow, P., G.L. Rolfe, and **T.F. Shupe**. 2003. Chemical constituents of juvenile paulownia, silver maple, and Eastern cottonwood species. In: (H.H. Lee and S.S. Jang, eds.). Better Utilization of Wood for Human, Earth and Future. International Conference on Forest Products. April 21-24, 2003. Daejeon, Korea. Vol. 1:588-592. (ISBN : 89-87603-01-6-94540). The Korean Society of Wood Science and Technology. Seoul, Korea.

Books (not refereed) (2)

Shupe, T.F. and M.A. Dunn. (eds.) 2005. Louisiana Natural Resources Symposium Proceedings. LSU AgCenter. ISBN 0-9763632-1-6. Baton Rouge, LA. 160 p.

Shupe, T.F. and W.R. Smith. (eds.) 2004. Pallet phytosanitation for international trade. USDA Forest Service and Limestone Bluffs RC&D. ISBN: 0-9763632-0-8. Princeton, WV. 70 p.

Non-refereed Publications (49)

(Note: research publications only are listed. Extension publications are listed in Section 5 of the Extension section of this document.)

- Wu, Q., **T.F. Shupe**, and J. Curole. 2005. Strength tests for treated and untreated southern pine samples. Final Sport Report to WoodSmart Solutions, Inc. 6 p.
- Shupe, T.**, Q. Wu, J. Curole, and M. Voitier. 2005. Formosan subterranean termite resistance to ten WoodSmart Solutions samples plus southern yellow pine control. Final Sponsor Report. WoodSmart Solutions. 5 p.
- Shupe, T.**, Q. Wu, J. Curole, and M. Voitier. 2005. Investigation of WoodSmart solutions sill plate samples resistance to Formosan subterranean termite attack and tubing. Final Sponsor Report. WoodSmart Solutions. 8 p.
- Gaston, C., R.P. Vlosky, **T.F. Shupe**, F.X. Aguilar, S.M. Kallioranta, B.N. Donkor. 2005. Attitudes and awareness about treated wood products: The U.S. South homeowner perspective. Louisiana Forest Products Development Center Working Paper #68. April 17.
- Shupe, T.F.** and R. Bogren. 2005. Recycling preservative-treated wood. LSU AgCenter Fact Sheet. 2 p.
- Bush, R., J.P. Armstrong, and **T.F. Shupe**. 2005. Report of the Society of Wood Science and Technology reaccreditation visiting team. Society of Wood Science and Technology. 9 p.
- Shupe, T.F.** 2005. The Louisiana pulp and paper industry. Request by Gov. Blanco for State of Louisiana. 2 p.
- Shupe, T.F.** and W.R. Smith. 2005. Final report - A regional educational program to increase awareness of wood packaging phytosanitary requirements for international trade. Limestone Bluffs RC&D. 8 p.
- So, C.L., L.H. Groom, and **T.F. Shupe**. 2005. The application of NIRVANA to silvicultural studies. In: 13th Biennial southern silvicultural research conference. February 28-March 4, 2005. Memphis, TN.
- Vlosky, R.P. and **T.F. Shupe**. 2005. Attitudes toward treated wood. Louisiana Agriculture 48(3): 24-25.
- Bogren, R. and **T.F. Shupe**. 2005. Keeping treated wood out of landfills. Louisiana Agriculture 48(3): 25.
- Vlosky, R.P. and **T.F. Shupe**. 2005. Implications for the future of treated wood from the perspective of four U.S. demand sectors. In: American Wood Preservers Association Annual Meeting. New Orleans, LA. May 15-17, 2005.
- Shupe, T.F.** and W.R. Smith. 2005. A regional educational program to increase awareness of wood packaging phytosanitary requirements for international trade. Limestone Bluffs RC&D and Wood Education & Resource Center, USDA Forest Service. 8 p.
- Shupe, T.F.** and R.P. Vlosky. 2004. A comparison of U.S. home builder-new home homeowner perceptions and concerns about mold. In: Conference on Wood-Frame Housing Durability and Disaster Issues. Forest Products Society October 4-6, 2004. Las Vegas, NV. pp. 191-200.
- Piao, C., **T.F. Shupe**, C.Y. Hse, and R.C. Tang. 2004. Nondestructive test of Young's moduli of full-size wood laminated composite poles by free transverse vibration. In: Y. Hua (ed.). 7th Pacific Rim Bio-based Composites Symposium. Oct. 31- Nov. 2, 2004. Nanjing, P.R. China. Nanjing Forestry University. Vol. 2. pp. 291-298.
- Piao, C., **T.F. Shupe**, C.Y. Hse. 2004. Effects of a new caul system on strength and stability of structural flakeboard. In: Y. Hua (ed.). 7th Pacific Rim Bio-based Composites Symposium. Oct. 31- Nov. 2, 2004. Nanjing, P.R. China. Nanjing Forestry University. Vol. 2. pp. 316-326.
- Piao, C., **T.F. Shupe**, C.Y. Hse, and J. Tang. 2004. Bio-composites made from pine straw. In: Y. Hua (ed.). 7th Pacific Rim Bio-based Composites Symposium. Oct. 31- Nov. 2, 2004. Nanjing, P.R. China. Nanjing Forestry University. Vol. 1. pp. 288-296.
- Shupe, T.F.** 2004. Development of high value-added products to reduce forest fuel loading in Louisiana forests. Sponsor report. Louisiana Department of Agriculture and Forestry. 14 p.

- Vlosky, R.P., C. Gaston, **T.F. Shupe**, F.X. Aguilar, S.M. Kallioranta, and B.N. Donkor. 2004. Potential for Increased treated wood products in U.S. South residential construction. Sponsor report. Forintek Canada Corp. 116 pages.
- Vlosky, R.P. and **T.F. Shupe**. 2004. Is mold an issue for home builders and home owners? Engineered Wood Journal. Spring. p. 27.
- Li, X., **T.F. Shupe**, and C.Y. Hse. 2004. Specific gravity and bending properties of bamboo (*Phyllostachys pubescens*) grown in central Louisiana. In: 4th Regional Coordination Council of Wood Science (RCCWS) International Symposium. Wood Structure, Properties, and Quality '04. October 13-16, 2004. St. Petersburg, Russia. pp. 269-271.
- Hse, C.Y., C. Piao, **T.F. Shupe**, and R.C. Tang. 2004. Development of bamboo-like structural wood composite poles: A finite element analysis. In: 4th Regional Coordination Council of Wood Science (RCCWS) International Symposium. Wood Structure, Properties, and Quality '04. October 13-16, 2004. St. Petersburg, Russia. pp. 387-389.
- Vlosky, R.P., C. Gaston, F. Aguilar, S. Kallioranta, and **T.F. Shupe**. 2004. Potential for increased borate treated wood products in US South residential construction. Final sponsor report. 116 p.
- Dunn, M.A., **T.F. Shupe**, D. Reed, and H. Dozier. 2003. Extension natural resources our outreach to Louisiana. School of Renewable Natural Resources Newsletter. Spring. pp. 1-2.
- Shupe, T.F.**, L.H. Groom, M. Stine, and C.L. So. 2003. Genetic influences on longleaf pine wood properties assessed using near infrared spectra. IUFRO All Division 5 Conference. March 11-15, 2003. Rotorua, New Zealand. p. 55.
- Shupe, T.F.**, L.H. Groom, M. Stine, and B. Via. 2003. Genetic influences of longleaf pine wood properties assessed using near infrared spectra. IAWA J. 24(1):101.
- Hse, C.Y., **T.F. Shupe**, L. Lin, and C. Piao. 2003. A complete closed-loop CCA-treated wood recycling system. In: (A. Kenderes, ed.). Managing the treated wood resource II. 99th Annual Meeting American Wood Preservers' Association. Boston, MA. April 27-29, 2003. pp. 57-63.
- So, C.L., S. Lebow, L. Groom, and **T. Shupe**. 2003. Evaluation of the use of near infrared spectroscopy to identify preservative treated wood. In: (A. Kenderes, ed.). 99th Annual Meeting American Wood Preservers' Association. Boston, MA. April 27-29, 2003. pp. 39-47.
- Shupe, T.F.**, and C.Y. Hse. 2003. Recycling of decommissioned CCA-treated wood into value-added engineered wood products. In: SWANA-Solid Waste Association of North America 3rd Annual Special Waste Conference. December 10-12, 2003. New Orleans, LA. pp. 73-78.
- Shupe, T.F.**, C. Piao, and C.Y. Hse. 2002. Value-added manufacturing potential for Honduran bamboo. USAID Report. Forest Sector Development in Honduras/ALIANZA. USAID Agreement No. 522-G-00-01-00202-00. 21 p.
- Shupe, T.F.** 2002. Can decommissioned CCA-treated wood be used for structural flakeboard? Louisiana Forest Products Laboratory Newsletter. Spring. p. 5.
- Vlosky, R.P. and **T.F. Shupe**. 2002. Perceptions of consumers of treated wood products. American Wood Preservers Association 98th Annual Meeting. April 21-24, 2002. Memphis, TN. 98:141-146.
- Shupe, T.F.** and C.Y. Hse. 2002. Decay resistance and bonding properties of structural flakeboard. In: Proceedings of 33rd Annual Meeting of International Research Group on Wood Preservation Proceedings. Cardiff, Wales, U.K. May 12-17, 2002. IRG/WP 02-40233.
- deHoop, N., M. Dunn, **T. Shupe**, R. Smith, R. Vlosky, and Q. Wu. 2002. Value-added forest products: Opportunities for growth. Louisiana Agriculture. 45(4):24-25.
- Vlosky, R. and **T. Shupe**. 2002. Home owner perceptions about treated wood. Forests & People 52(3):17, 23.
- Hse, C.Y. and **T.F. Shupe**. 2002. Utilization of agricultural waste for composite panels. In: 6th Pacific Rim Bio-Based Composites Symposium. November 10-13, 2002. Portland, OR. Vol. 1. pp. 164-170.

- Vlosky, R. and **T. Shupe**. 2002. U.S. home builder perceptions about treated wood. Final Sponsor Report.
- Smith, W.R., D.R. Ring, G. Henderson, Q. Wu, **T.F. Shupe**, and M.A. Dunn. 2001. The Formosan subterranean termite in Louisiana: present situation and future implications. *Louisiana Agriculture* 44(2):9-10.
- Shupe, T.F.** and C.Y. Hse. 2001. Properties of flakeboard from recycled CCA-treated wood. In: A. M. Kenderes (ed.). *Proceedings of managing the treated wood resource: recycle and reuse of treated wood*. May 19, 2001. American Wood Preservers Association Annual Meeting. Minneapolis, MN. pp. 1-9.
- Shupe, T.F.** and R.P. Vlosky. 2001. Consumer attitudes and preferences for home building methods as related to livability. Final report submitted to sponsors.
- Stine, M., J. Roberds, C.D. Nelson, D.P. Gwaze, **T. Shupe**, and L. Groom. 2001. Quantitative trait inheritance in a forty-year-old longleaf pine partial diallel test. In: *Proc. 26th Southern Forest Tree Improvement Conference*. Athens, GA. 26:101-103.
- Hse, C.Y., **T.F. Shupe** and J. Wang. 2001. Mechanical and physical properties of composite products from bagasse and rice husks. In: (C. Mei, X. Zhou, D. Sun, Y. Zheng, X. Xu) eds. *Proceedings of Symposium on Utilization of Agricultural and Forestry Residues*. October 31 – November 3, 2001. Nanjing Forestry University. Nanjing, Jiangsu, China. p. 187-192
- Shupe, T.F.** 2001. Wood preservation with borates – A information packet. Extension Natural Resources. LSU AgCenter.
- Vlosky, R.P., M.A. Dunn, **T.F. Shupe**, P.A. Monroe, D. Ashbaugh-Vlosky, and A. Chavez. 2001. Honduras forest sector strategic prioritization meeting report. Presented to FIDE (Fundacion Para La Inversion Y Desarrollo De Exportaciones). N. Garcia, Exec. Dir. Forest Development Project. Cooperative Agreement No: 522-G-00-01-00202-00. USAID.
- Shupe, T.F.**, C.Y. Hse, and E.T. Choong. 1999. An overview of silvicultural influences on loblolly pine veneer-based panel properties. In: S.Y. Wang, M.C. Yeh (eds.). *International Conference on Effective Utilization of Plantation Timber – Timber and Wood Composites for the Next Century*. May 21-23, 1999. Chi-Tou, Taiwan. pp. 22-25.
- Shupe, T.F.**, C.Y. Hse, W.H. Wang. 1999. An investigation of some factors affecting wettability of some southern hardwoods. In: A.W. Christiansen and L.A. Pilato (eds.). *International Contributions to Wood Adhesion Research. Proceedings of Gluing TIG Technical Session at Forest Products Society Annual Meeting*. Mérida, Yucatán, México July 21 – 24. Forest Products Society. Madison, WI. pp. 132-136.
- Shupe, T.F.** 1999. Intensive silviculture effects on plywood, LVL, and OSB properties. In: *Juvenile wood and plantation management: Supply issues, production and quality challenges. Identify next steps and action plan to address issues.* American Plywood Association – The Engineered Wood Association. Engineered Wood Research Foundation Info Forum. Shreveport, LA. September 17-18, 1998.
- Dunn, M.A., R.P. Vlosky, and **T.F. Shupe**. 1999. Survey: labor, capitol key expansion plans: Poll of manufacturers in Southeast also underscores importance of customer relationships and service. *Pallet Enterprise*. October. p. 41.
- Shupe, T.F.**, E.T. Choong and C.H. Yang. 1995. The effect of cultural treatments on the chemical composition of plantation grown loblolly pine wood. Abstract in: “Caring for the forest: Research in a changing world.” IUFRO XX World Congress. Tampere, Finland. IUFRO Secretariat. Vienna, Austria. August 6-12, 1995. Vol. 2. pp. 157-158.

2. Listing of other publications accepted for publication but not yet published

Refereed Journal Articles (4)

- Via, B.K. and **T.F. Shupe**. 2005. Relationship of species and season to sawmill by-product production: A case study. *Forest Products Journal*. 55(7/8). (in press).
- Mejía, M.A., R.P. Vlosky, **T.F. Shupe**, and F. X. Aguilar. 2005. Análisis participativo de las fortalezas, oportunidades, debilidades y amenazas de la pequeña y mediana industria transformadora de la madera en Siguatepeque y San Pedro Sula, Honduras. *Recursos Naturales y Ambiente*. (Costa Rica). (Accepted).
- Shupe, T.F.** and W.J. Catallo. 2005. Hydrothermal processing of Chinese tallow tree (*Triadica sebifera* syn. *Sapium sebiferum*) biomass. *Wood and Fiber Science*. 37(4).
- Vlosky, R.P. and **T.F. Shupe**. 2005. Manufacturers perceptions about using treated wood in children's playground equipment. *Forest Products Journal*. Accepted.
- Lee, S., **T. F. Shupe**, and C. Y. Hse. 2005. Mechanical and physical properties of agro-based fiberboard. *Holz als Roh- und Werkstoff*. Accepted.

Refereed Book Chapters (2)

- Via, B.K., **T.F. Shupe**, L. Groom, M. Stine, and C. So. 2005. Variation in kink and curl of longleaf pine (*Pinus palustris*) fibers. In: (D.D. Stokke, and L.H. Groom, eds). *Characterization of the cellulosic cell wall*. Grand Lake, CO. August 25-27, 2003. (ISBN 0-8138-0439-6). Blackwell Publishing, Ames, IA. (in press).
- Shupe, T.F.** and C.Y. Hse. 2005. Recycling of preservative- treated wood using chemical extraction technologies. In: (T. Townsend and H. Solo-Gabriele, eds.). *Environmental impacts of preservative-treated wood*. CRC Press. Boca Raton, FL. (in press).

Book Chapters (non-refereed) (2)

- Piao, C., **T.F. Shupe**, and C.Y. Hse. 2005. Dynamic control of moisture during hot pressing of wood composites. In: (T.F. Shupe, ed.): *Recent developments in the particleboard, fiberboard, and molded wood products industry*. Forest Products Society. Madison, WI. (in press).
- Lee, S.Y., **T.F. Shupe**, and C.Y. Hse. 2005. Properties of bio-based medium density fiberboard. In: (T.F. Shupe, ed.): *Recent developments in the particleboard, fiberboard, and molded wood products industry*. Forest Products Society. Madison, WI. (in press).

Refereed Conference Proceedings (1)

- Pan, H., **T.F. Shupe**, and C.Y. Hse. 2005. Mechanical and physical properties of bio-composites from wood fiber and liquefied wood/phenol/formaldehyde co-condensation resin. At: *Wood Adhesives 2005*. Nov. 2-4, 2005, San Diego, CA.

Non-refereed Conference Proceedings (3)

- Vlosky, R.P. and **T.F. Shupe**. 2006. What do playground equipment manufacturers think about using treated wood? In: *Wood Protection 2006*. New Orleans, LA, USA. March 21-23, 2006.
- Vlosky, R.P., **T.F. Shupe**, J.M. Fannin, R. Kleiner, and Wade Camp. 2006. A survey of the U.S. treated wood manufacturing industry. At: *Wood Protection 2006*. New Orleans, LA. March 21-23, 2006.
- Pan, H., **T.F. Shupe**, and C.Y. Hse. 2005. Mechanical and physical properties of bio-composites from wood fiber and liquefied wood/phenol/formaldehyde co-condensation resin. In: *Wood Adhesives 2005*. Nov. 2-4, 2005, San Diego, CA.

Refereed Abstracts (2)

Via, B.K., M. Stine, **T.F. Shupe**, C.L. So, L.H. Groom, and J. Roberds. 2005. The covariance between mechanical and chemical properties for longleaf pine (*Pinus palustris*). In: XXII IUFRO World Congress. Brisbane, Australia. August 8-13, 2005. (in press).

Shupe, T.F., R.C. Tang, and C.Y. Hse. 2005. Lightweight wood composite panels made from a fast-growth species – Paulownia. In: XXII IUFRO World Congress. Brisbane, Australia. August 8-13, 2005. (in press).

Books (1)

Shupe, T.F. (ed.). 2005. Composite industry in transition. Forest Products Society. Madison, WI. ISBN 1-892529-40-8. Madison, WI. (accepted).

3. Other creative and artistic contributions

Gratis Teaching (Academic Appointment: 60% Research, 40% Extension)

Documentation of teaching activities

Courses Taught

Semester: Fall 2005

Class: RNR 7029 Advanced Topics in Forestry (3 hr.)

Class: RNR 8000 Thesis Research

Class: RNR 8900 Research Problems in Natural Resources (3 hr.)

Class: RNR 9000 Dissertation Research

Semester: Summer 2005

Class: RNR 9000 Dissertation Research

Class: RNR 8900 Research Problems in Natural Resources (3 hr.)

Semester: Spring 2005

Class: RNR 7071 Forestry Seminar (1 hr.)

Class: RNR 8900 Research Problems in Natural Resources (3 hr.)

Class: RNR 9000 Dissertation Research

Semester: Fall 2004

Class: RNR: 4061 Selected or Assigned Forestry Problems (3 hr.)

Class: RNR 7071 Forestry Seminar (1 hr.)

Semester: Summer 2004

Class: RNR 9000 Dissertation Research

Class: RNR 8900 Research Problems in Natural Resources (3 hr.)

Semester: Spring 2004

Class: RNR 4061 Selected or Assigned Forestry Problems (4 hr.)

Class: RNR 7071 Forestry Seminar (1 hr.)

Class: RNR 8000 Thesis Research

Class: RNR 8900 Selected or Assigned Forestry Problems (3 hr.)

Class: RNR 9000 Dissertation Research

Semester: Fall 2003

Class: RNR 4061 Selected or Assigned Forestry Problems (2 hr.)

Class: RNR 7029 Advanced Topics in Forestry (3 hr.)

Class: RNR 7071 Forestry Seminar (1 hr.)

Class: RNR 8000 Thesis Research

Semester: Summer 2003

Class: RNR 4061 Southern yellow pine wood quality (2 hr.)

Class: RNR 8000 Thesis Research

Class: RNR 9000 Dissertation Research

Semester: Spring 2003

Class: RNR 4061 Tropical Wood Quality (3 hr.)

Class: RNR 7029 Advanced Topics in Forestry (3 hr.)

Class: RNR 7071 Forestry Seminar (1 hr.)

Class: RNR 8900 Selected or Assigned Forestry Problems (3 hr.)

Class: RNR 9000 Dissertation Research

Semester: Fall 2002

Class: RNR 4061 Southern yellow pine wood quality (2 hr.)

Class: RNR 8900 Thesis Research

Class: RNR 9000 Dissertation Research

Semester: Summer 2002

Class: RNR 8000 Thesis Research

Class: RNR 9000 Dissertation Research

Semester: Spring 2002

Class: RNR 8000 Thesis Research

Class: RNR 8900 Thesis Research

Class: RNR 9000 Dissertation Research

Semester: Fall 2001

Class: RNR 8000 Thesis Research

Class: RNR 9000 Dissertation Research

Semester: Summer 2001

Class: RNR 8000 Thesis Research

Class: RNR 9000 Dissertation Research

Semester: Spring 2001

Class: RNR 4061 Special Problems (3 hr.)

Class: RNR 7029 Advanced Topics in Forestry (3 hr.)

Class: RNR 8000 Thesis Research

Class: RNR 9000 Dissertation Research

Semester: Fall 2000

Class: FOR 8000 Thesis Research

Class: FOR 4061 Special Problems

Semester: Summer 2000

Class: FOR 8000 Thesis Research

Courses Assisted with Instruction

- FOR 3038 Field Studies in Timber Harvesting, Summer 1995
- Forestry 3039 Field Studies in Wood Utilization , Summer 1995, 1996
- Forestry 2043 Wood Science and Forest Products, Fall 1995, 1996; Guest lectures 1997-present

RNR 7071 – Graduate Seminar in Forestry

Semester	Number of students	College Mean	School of RNR Mean	Instructor Score
Spring 03	6	4.03	4.54	4.40
Fall 03	7	4.12	4.43	4.94
Spring 04	9	4.12	4.47	4.66
Fall 04	5	4.09	4.23	3.70
Spring 05	8	4.10	4.25	4.30

Note: 5 = highest possible rating.

Published Abstracts (56)

So, C.L., L.H. Groom, and **T.F. Shupe**. 2005. NIRVANA - an automated on-line system for NIR spectra collection and property determination of increment cores. At: 13th Biennial southern silvicultural research conference. February 28-March 4, 2005. Memphis, TN. p. 58.

Vlosky, R.P. and **T.F. Shupe**. 2005. Playground equipment manufacturer perceptions and use of treated wood. In: 59th Forest Products Society Annual Meeting. June 19-22, 2005, Québec City, Québec, Canada.

Vlosky, R.P., **T.F. Shupe**, and M.A. Dunn. 2005. The Louisiana Forest Products Development Center outreach initiative. In: 59th Forest Products Society Annual Meeting. June 19-22, 2005, Québec City, Québec, Canada.

Lee, S., **T.F. Shupe**, L.H. Groom, and C.Y. Hse. 2005. Droplet behavior and shape analysis of an adhesive on the wood surface. In: 59th Forest Products Society Annual Meeting. June 19-22, 2005, Québec City, Québec, Canada.

Aguilar, F.X., H.J. Kingre, S.J. Leach, J.R. Meyers, R.P. Vlosky, **T.F. Shupe**, and C. Gaston. 2005. A multivariate comparison of homebuilder and homeowner perceptions of treated wood in the U.S. South. In: 59th Forest Products Society Annual Meeting. June 19-22, 2005, Québec City, Québec, Canada.

Steele, A. and **T.F. Shupe**. 2005. Bob Dylan was right, "The times they are a changin':" Developing adaptive responses to globalization. Society of American Foresters Annual Convention. Oct. 19-23, Dallas, TX.

Shupe, T.F. and R.P. Vlosky. 2004. The U.S. home builder-new home owner dyad: Convergence or divergence on perceptions and concerns about mold? In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 50.

- Liu, Y., **T.F. Shupe**, and C.Y. Hse. 2004. Comparison of the termiticidal compounds in the callus and seedlings of Eastern red cedar. In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 50.
- Piao, C., **T.F. Shupe**, and C.Y. Hse. 2004. Finite element analysis of tapered wood laminated composite poles. In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 52.
- Lee, S., **T.F. Shupe**, and C.Y. Hse. 2004. Utilization of Chinese tallow tree and bagasse for medium density fiberboard (MDF). In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 46.
- Li, X., **T.F. Shupe**, and C.Y. Hse. 2004. Some physical, chemical, and mechanical properties of *Phyllostachys bambusoides* and its utilization in fiberboard manufacturing. In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 46.
- Via, B.K., **T.F. Shupe**, M. Stine, L.H. Groom, and C.L. So. 2004. The ability of near infrared spectroscopy to monitor wood density. In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 43.
- Lee, S., **T.F. Shupe**, and C.Y. Hse. 2004. The effect of fiber sizes and panel types on the mechanical and physical properties of bio-based composites. In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 46.
- Shupe, T.F.** and R.P. Vlosky. 2004. A comparison of U.S. home builder-new home homeowner perceptions and concerns about mold. In: Conference on Wood-Frame Housing Durability and Disaster Issues. Forest Products Society October 4-6, 2004. Las Vegas, NV. pp. 191-200.
- Piao, C., **T.F. Shupe**, C.Y. Hse, and R.C. Tang. 2004. Nondestructive evaluation of Young's moduli of full-size wood laminated composite poles. At: X. Xhou, C. Mei, J. Jin, and X. Xu. (Eds.). 7th Pacific Rim Bio-based Composites Symposium. Oct. 31- Nov. 2, 2004. Nanjing, P.R. China. Nanjing Forestry University. pp. 291-298.
- Piao, C., **T.F. Shupe**, C.Y. Hse. 2004. Effects of a new caul system on strength and stability of structural flakeboard. At: X. Xhou, C. Mei, J. Jin, and X. Xu. (Eds.). 7th Pacific Rim Bio-based Composites Symposium. Oct. 31- Nov. 2, 2004. Nanjing, P.R. China. Nanjing Forestry University. pp. 316-326.
- Piao, C., **T.F. Shupe**, C.Y. Hse, and J. Tang. 2004. Bio-composites made from pine straw. At: X. Xhou, C. Mei, J. Jin, and X. Xu. (Eds.). 7th Pacific Rim Bio-based Composites Symposium. Oct. 31- Nov. 2, 2004. Nanjing, P.R. China. Nanjing Forestry University. pp. 288-296.
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- Shupe, T.F.** and C.Y. Hse. 2003. Delamination due to outdoor exposure of southern yellow pine plywood. In: Better Utilization of Wood for Human, Earth and Future. International Conference on Forest Products, 30th Anniversary of the Korean Society of Wood Science and Technology. April 21-24, 2003. Daejeon, Korea.
- Chow, P., G.L. Rolfe, and **T.F. Shupe**. 2003. Chemical constituents of juvenile paulownia, silver maple, and eastern cottonwood species grown in Illinois. In: Better Utilization of Wood for Human, Earth and Future. International Conference on Forest Products, 30th Anniversary of the Korean Society of Wood Science and Technology. April 21-24, 2003. Daejeon, Korea.
- Hse, C.Y., **T.F. Shupe**, L. Lin, and C. Piao. 2003. A complete closed-loop CCA-treated wood recycling system. In: (A.M. Kenderes, ed.). Managing the Treated Wood Resource II. AWPA, USWAG. Boston, MA. April 27-29, 2003. pp. 57-64.

- Via, B.K., T.F. Shupe, and I.D. Hartley. 2003. A proposed model to predict fiber saturation point as a function of lignin, cellulose, and hemicellulose percent for extractive free wood. In: 57th Forest Products Society Annual Meeting. June 22-25, 2003. Bellevue, WA. p. 34.
- Piao, C., T.F. Shupe, C.Y. Hse, and R.C. Tang. 2003. A finite element analysis of wood laminated composite poles. In: 57th Forest Products Society Annual Meeting. June 22-25, 2003. Bellevue, WA. p. 32.
- Vlosky, R.P. and **T.F. Shupe**. 2003. U.S. home builder perceptions about treated wood. In: 57th Forest Products Society Annual Meeting. June 22-25, 2003. Bellevue, WA. p. 14.
- Shupe, T.F.**, and C.Y. Hse. 2003. Recycling of decommissioned CCA-treated wood into value-added engineered wood products. In: SWANA-Solid Waste Association of North America 3rd Annual Special Waste Conference. December 10-12, 2003. New Orleans, LA.
- Shupe, T.F.** and R.P. Vlosky. 2002. Homeowners perceptions of treated lumber. Southern Forest Products Association Annual Meeting. April 17, 2002. New Orleans, LA.
- Vlosky, R.P. and **T.F. Shupe**. 2002. Perceptions of consumers of treated wood products. American Wood Preservers Association 98th Annual Meeting. April 21-24, 2002. Memphis, TN.
- Smith, W.R., D. Ring, **T. Shupe**, G. Henderson, and Q. Wu. 2002. Louisiana and the Formosan subterranean termite: An update. American Wood Preservers Association 98th Annual Meeting. April 21-24, 2002. Memphis, TN. p. 41.
- Shupe, T.F.** and C.Y. Hse. 2002. Decay resistance and bonding properties of structural flakeboard. IRG/WP 02-40233. In: Proceedings of 33rd Annual Meeting International Research Group on Wood Preservation. Cardiff, United Kingdom. May 12-17, 2002.
- Dunn, M, **T. Shupe**, and R. Vlosky. 2002. U.S. home builder perceptions of southern yellow pine. 56th Forest Products Society Annual Meeting. June 23-26, 2002. Madison, WI. p. 36.
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- Smith, W.R., D. Ring, **T.F. Shupe**, Q. Wu, and M. Votier. 2002. Louisiana and the Formosan subterranean termite: An update. 56th Forest Products Society Annual Meeting. June 23-26, 2002. Madison, WI. p. 41.
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- Hse, C.Y., **T.F. Shupe** and J. Wang. 2001. Mechanical and physical properties of composite products from bagasse and rice husks. Presented by T.F. Shupe at Symposium on Utilization of Agricultural and Forestry Residues. October 31 – November 3, 2001. Nanjing Forestry University. Nanjing, Jiangsu, China.
- Lee, S., Q. Wu, and **T.F. Shupe**. 2000. Selected engineering properties of southern hardwoods. Abstract in: 54th Forest Products Society Annual Meeting. Lake Tahoe, NV. June 18-21. p. 50.
- Shupe, T.F.**, C.Y. Hse, and W.H. Wang. 1999. Wettability differences of 22 southern hardwoods. Abstract in: Proceedings of International Conference on Effective Utilization of Plantation Timber – Timber and Wood Composites for the Next Century. May 21-23, 1999. Chi-Tou, Taiwan.
- Shupe, T.F.** and C.Y. Hse. 1999. Effect of synthesis variables on tack in phenol-formaldehyde resin. Abstract in: 53rd Forest Products Society Annual Meeting. Boise, ID. June 27-30. p. 38.
- Dunn, M.A., **T.F. Shupe**, and R.P. Vlosky. 1999. Characterizing the pallet industry in the southeastern United States. Abstract in: 53rd Forest Products Society Annual Meeting. Boise, ID. June 27-30. p. 51.
- Shiekkariem, A.R., C.Y. Hse, E.T. Choong, and **T.F. Shupe**. 1999. Properties of particleboards from selected agricultural residues bonded with modified urea formaldehyde resin adhesive. Abstract in: 53rd Forest Products Society Annual Meeting. Boise, ID. June 27-30. p. 39.
- Gibson, M.D., **T.F. Shupe**, and G.A. Grozdits. 1999. Fiber morphology and properties of hardwoods, softwoods, and juvenile wood. Abstract in: 53rd Forest Products Society Annual Meeting. Boise, ID. June 27-30. p. 29.
- Shupe, T.F.**, C.Y. Hse, W.H. Wang. 1998. An investigation of some factors affecting wettability of some southern hardwoods. Abstract In: Proceedings of 52nd Forest Products Society Annual Meeting. Mérida, Yucatán, México July 21– 24. p. 30.
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- Shupe, T.F.** and P. Chow. 1996. Sorption, shrinkage, and fiber saturation point of Kempas (*Koompassia malacensis*). Abstract In: Proceedings of 50th Forest Products Society Annual Meeting. Minneapolis, MN. June 23-26, 1996. p. 35.
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- Shupe, T.F.**, E.T. Choong and M.D. Gibson. 1995. The effects of previous drying and extractives on shrinkage of outerwood, middlewood and corewood of sweetgum. Abstract In: Proceedings of 49th Forest Products Society Annual Meeting. Portland, OR. June 25-28, 1995. p. 5.
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- Shupe, T.F.**, E.T. Choong and C.H. Yang. 1995. The effect of cultural treatments on the chemical composition of plantation grown loblolly pine wood. Abstract in: "Caring for the forest: Research in a changing world." IUFRO XX World Congress. Tampere, Finland. IUFRO Secretariat. Vienna, Austria. August 6-12, 1995. Vol. 2. pp. 157-158.
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- Shupe, T.F.**, P. Chow, M. Raheel and P.H. Geil. 1993. Some chemical properties of plantation-grown hardwood biomass from Illinois. Abstract In: Proceedings of 47th Forest Products Society Annual Meeting. Clearwater Beach, FLA. June 20-23, 1993. p. 33.

LSU AgCenter Impact Reports (6)

- **Shupe, T.F.** 2005. Preservative-treated wood recycling program.
- **Shupe, T.F.** and M. Stine. 2004. Influence of genetic variance of on wood properties assessed using near infrared spectra.
- **Shupe, T.F.** 2004. Recycling of decommissioned preservative-treated wood.
- Vlosky, R.P. and **T.F. Shupe**. 2004. U.S. Homebuilder Perceptions of Treated Wood.
- **Shupe, T.F.** 2002. Enhancement of the secondary wood products industry in Louisiana.
- **Shupe, T.F.** 2003. Value-added wood products extension programming.

Internet Publications (22)

- Shupe, T.F.** 2005. A new web site titled pallet phytosanitation - information for international trade has recently been launched. Southern Regional Extension Forestry web site.
- Shupe, T.F.** and R. Bogren. 2005. LSU AgCenter recycling could keep treated wood out of landfills.
- Shupe, T.F.** 2005. Iron stain in wood. AgCenter CMS.
- Shupe, T.F.** 2004. First memorial lecture features first grad student. LSU AgCenter, SRNR, ENR, and LFPDC web sites.
- Dunn, M.A., **T.F. Shupe**, and R.P. Vlosky. 2004. Builders perceptions of southern yellow pine quality. LSU AgCenter ENR Project – USDA RREA Projects.
- Vlosky, R.P. and **T.F. Shupe**. 2004. Consumer perceptions of preservative treated wood. LSU AgCenter ENR Project – USDA RREA Projects.
- Dunn, M.A., **T.F. Shupe**, and R.P. Vlosky. 2004. The results of a recent survey of Southeastern United States pallet producers. LSU AgCenter ENR Project – USDA RREA Projects.
- Dunn, M.A., **T.F. Shupe**, and R.P. Vlosky. 2004. Homebuilder attitudes and preferences regarding southern yellow pine. LSU AgCenter ENR Project – USDA RREA Projects.
- Shupe, T.F.** and R.P. Vlosky. 2004. U.S. home builder perceptions about treated wood: Summary. LSU AgCenter ENR Project – USDA RREA Projects.
- Vlosky, R.P. and **T.F. Shupe**. 2004. Buyer perceptions and purchasing patterns related to treated wood use in children’s playground equipment. LSU AgCenter ENR Project – USDA RREA Projects.
- Vlosky, R.P. and **T.F. Shupe**. 2004. An exploratory study of home builder, new-home owner and real estate agent perceptions and attitudes about mold. LSU AgCenter ENR Project – USDA RREA Projects.
- Vlosky, R.P. and **T.F. Shupe**. 2004. Buyer perceptions and purchasing patterns related to treated wood use in children’s playground equipment. LSU AgCenter ENR Project – USDA RREA Projects.
- Vlosky, R.P. and **T.F. Shupe**. 2004. An exploratory study of home builder attitudes about mold, Part I. Industry Insights. Madison, Publications, LLC. December 23.
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- Vlosky, R.P., M.A. Dunn, A. Chavez, P. Monroe, **T. Shupe**, D. Vlosky. 2003. Participatory forest sector economic development: From conceptual framework to application in Honduras. Louisiana Forest Products Development Center Working Paper No. 59. Baton Rouge, LA. 8 p.
- Shupe, T.F.** 2003. Infrared lights way in timber. SRNR Web Feature Story.
- Shupe, T.F.** 2003. Louisiana Dry Kiln Club Newsletter. 7(3/4): 12 p.
- Shupe, T.F.** 2002. Wood Products Section on LSU AgCenter Extension Natural Resources Web Site. 2002-present.
- Vlosky, R.P. and **T.F. Shupe**. 2002. What do US home owners think about treated wood? Industry Insights. Madison, Publications, LLC.
- Vlosky, R. and **T. Shupe**. 2002. What homeowners think about treated wood. Building Products Digest. October.
- Vlosky, R.P. and **T.F. Shupe**. 2001. What do home builders really think about southern yellow pine? Industry Insights. Madison, Publications, LLC. October 12.

Visiting Scientists Hosted (19)

- Mr. Liu Jun, Assistant Professor, Heilongjiang University, Harbin, China. 6/05 – 11/05.
- Ms. Langling Lin, Assistant Professor, Chinese Academy of Forestry. 06/2005-12/2005.
- Mr. Liu Jun, Assistant Professor, Heilongjiang University, Harbin, China. 6/2005 – 11/2005.
- Ms. Animin Huang, Assistant Professor, Chinese Academy of Forestry. 06/2005-12/2005.
- Ms. Wenjing Guo, Assistant Professor, Chinese Academy of Forestry. 06/2005-12/2005.
- Dr.Chuande Xu, Assistant Professor. Chinese Academy of Forestry. 10/2004-4/2005.
- Dr.Zhong Yang, Assistant Professor; Chinese Academy of Forestry. 8/2004-4/2005.
- Dr.Zhengjun Sun, Associate Professor; Chinese Academy of Forestry. 8/2004-8/2005.
- Dr.Ge Wang, Associate Professor; Chinese Academy of Forestry. 10/2004-4/2005.
- Dr.Rongjun Zhao, Associate Professor; Chinese Academy of Forestry. 11/2004-4/2005.
- Dr. Huaqiang Yu, Assistant Professor; Chinese Academy of Forestry. 11/2004-4/2005.
- Dr. Doachun Qin, Assistant Professor, Chinese Academy of Forestry. 12/2004-6/2005.
- Dr.Yurong Wang, Assistant Professor; Chinese Academy of Forestry. 12/2004-6/2005.
- Dr. Lin Ying, Professor, South China University of Technology. 12/2004-2/2005.
- Dr. Wenji Yu. Principal Wood Scientist, Chinese Academy of Forestry Science. 1/2004-6/2004.
- Dr. Ximing Wang. Associate Dean, Department of Forestry, Inner Mongolia University. 1/004.1-6/2004.
- Ms. Song Hongzhu. Research Associate. Deputy Chief, Department of Technology & Science, State Forestry Administration, P.R.China (SFA), 2002.
- Dr. Lin Lianzhen. Post Doctoral Researcher. TokScientist. 2002 – 2004.
- Mr. Zhou Jianren. 2000. Deputy Chief, Department of Technology & Science, the State Administration of Forestry. People's Republic of China.

Postdoctoral Scientists and Research Associates (4)

- Dr. Chi-Leung So. Postdoctoral Researcher. 2002-present.
- Dr. Cheng Piao. Postdoctoral Researcher. 2003-present.
- Mr. Sangyeob Lee. Research Associate. 2003.
- Dr. Stacy Crevello. Postdoctoral Researcher. 2003.

4. Participation in professional meetings, symposia, workshops, and conferences (other than artistic performances)

(Also see “Published Abstracts” under Section 3 in the Research section.)

Invited Presentations (49)

- Shupe, T.F.** 2005. Southeastern pole conference. At: Southern Pressure Treaters Annual Meeting. January 21-22, 2005. Destin, FL.
- Lee, S. **T.F. Shupe**, L.H. Groom, and C.Y. Hse. 2005. Heterogeneous nucleation on the fiber surface of a semicrystalline polymer. At: 59th Forest Products Society Annual Meeting. June 19-22, 2005, Québec City, Québec, Canada.
- Via, B.K., M. Stine, **T.F. Shupe**, C.L. So, L.H. Groom, and J. Roberds. 2005. The phenotypic covariance between mechanical and chemical properties for longleaf pine (*Pinus palustris*). In: XXII IUFRO World Congress. Brisbane, Australia. August 8-13, 2005.
- Shupe, T.F.**, R.C. Tang, and C.Y. Hse. 2005. Lightweight wood composite panels made from a fast-growth species – Paulownia. In: XXII IUFRO World Congress. Brisbane, Australia. August 8-13, 2005. (in press).
- Vlosky, R.P. and **T.F. Shupe**. 2005. Implications for the future of treated wood in five U.S. demand sectors. At: American Wood Preservers Association Annual Meeting. New Orleans, LA. May 15-17, 2005.
- Hse, C.Y., **T.F. Shupe**, and D.R. Arnold. 2005. Cost analysis of a new CCA recovery system for spent CCA-treated wood. At: American Wood Preservers Association Annual Meeting. New Orleans, LA. May 15-17, 2005.
- Schimleck, L., C.L. So, D. Jones, L.H. Groom. R.F. Daniels. A. Clark III, G. Peter, and **T.F. Shupe**. 2005. Infrared spectroscopy for the rapid assessment of wood properties. At: 48th Annual Convention Society of Wood Science and Technology. Québec, Canada. June 19, 2005.
- Shupe, T.F.** LSU AgCenter treated wood recycling initiative. Louisiana Senate Agriculture, Forestry, Aquaculture, and Rural Development Committee. June 7, 2005.
- Vlosky, R.P., **T.F. Shupe**, J.M. Fannin, R. Kleiner, and Wade Camp. A survey of the U.S. treated wood manufacturing industry. At: Wood Protection 2006. New Orleans, LA. March 21-23, 2006.
- Shupe, T.F.** 2004. New developments in the wood preservation industry. Florida Parishes Forestry Forum. March 12, 2004. Hammond, LA.
- Lee, S., **T.F. Shupe**, C.Y. Hse. 2004. Properties of bagasse fiberboard combined with wood and bamboo. In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 15.
- Piao, C., **T.F. Shupe**, and C.Y. Hse. 2004. Dynamic control of moisture in hot pressing of wood composites. In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 16.
- Vlosky, R.P. and **T.F. Shupe**. 2004. Are home builders, new-home owners, and real estate agents worried about mold? In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 11.

- Shupe, T.F.** 2004. Enhancement of the wood products industry in Louisiana. In: 58th Forest Products Society Annual Meeting. June 27-30, 2004, Grand Rapids, MI. p. 27.
- Shupe, T.F.** 2004. An overview of wood products research at LSU. At: Southern Pressure Treaters Association Annual Meeting. June 18-19, 2004. New Orleans, LA.
- Shupe, T.F.** 2004. Recycling of decommissioned preservative-treated wood. At: Southern Pressure Treaters Association Annual Meeting. June 18-19, 2004. New Orleans, LA.
- Shupe, T.F.** 2004. Potential of waste preservative-treated wood to be used for OSB production. At: Langdale Forest Products Co. October 13, 2004. Valdosta, GA.
- Shupe, T.F.** 2004. Silvicultural and genetic influences on wood quality. At: Joseph W. Jones Ecological Research Center at Ichauway. October 12, 2004. Newton, GA.
- Shupe, T.F.** 2004. Wood quality research findings. At: Research Institute of Wood Industry, Chinese Academy of Forestry. November 8, 2004. Beijing, China.
- Shupe, T.F.** 2004. A closed loop treated wood research program. At: Research Institute of Wood Industry, Chinese Academy of Forestry. November 8, 2004. Beijing, China.
- Shupe, T.F.** 2004. Wood quality research findings. At: Research Institute of Wood Industry, Chinese Academy of Forestry. November 5, 2004. Xian, China.
- Shupe, T.F.** 2004. A closed loop treated wood research program. At: Research Institute of Wood Industry, Chinese Academy of Forestry. November 5, 2004. Xian, China.
- Shupe, T.F.** 2004. Treated wood recycling options. At: recertification conference for pesticide applicators certified in Category 2c: Wood Processing. November 16, 2004. Baton Rouge, LA.
- Shupe, T.F.** 2004. New generation of wood preservatives. At: Commercial pesticide application, Category 2c: Wood processing. November 16, 2004. Baton Rouge, LA.
- Shupe, T.F.** 2003. U.S. homeowner preferences and attitudes about treated wood. In: Forest Products Machinery & Equipment Exposition 2003. Southern Forest Products Association and APA – The Engineered Wood Association. June 25-27, 2003. Atlanta, GA.
- Shupe, T.F.** 2003. What do U.S. homebuilders think about southern yellow pine? In: Forest Products Machinery & Equipment Exposition 2003. Southern Forest Products Association and APA – The Engineered Wood Association. June 25-27, 2003. Atlanta, GA.
- Via, B.K., T.F. Shupe, L. Groom, M. Stine, and C.L. So. 2003. Variation in kink and curl for longleaf pine (*Pinus palustris*). In: Characterization of the cellulosic cell wall. Grand Lake, CO. August 25-27, 2003. Southern Research Station, University of Iowa, and Society of Wood Science and Technology.
- Shupe, T.F.** 2003. Delamination due to outdoor exposure of Southern Yellow Pine Plywood. In: Forest Products Society Mid-South Section Meeting. Softwood Utilization: Current Status and Strategies for the Future. November 5-6, 2003. The Arlington Resort Hotel Hot Springs, Arkansas
- Shupe, T.F.**, and C.Y. Hse, and C. Piao. 2003. Recycling of decommissioned CCA-treated wood into value-added engineered wood products. In: SWANA-Solid Waste Association of North America 3rd Annual Special Waste Conference. December 10-12, 2003. New Orleans, LA.
- Vlosky, R.P. and **T.F. Shupe**. 2002. Perceptions of consumers of treated wood products. Louisiana Forestry Association Board Meeting. February 5, Alexandria, LA.
- Shupe, T.F.** and R.P. Vlosky. 2002. Ascertaining the perceptions of U.S. homebuilders regarding SYP lumber. SFPA EXPO 2003. June 25-27, Atlanta, GA.
- Shupe, T.F.** 2001. Properties of flakeboard from recycled CCA-treated wood. In: A. M. Kenderes (ed.). Proceedings of managing the treated wood resource: recycle and reuse of treated wood. May 19, 2001. American Wood Preservers Association Annual Meeting. Minneapolis, MN.

- Shupe, T.F.** 2001. The relationships between silviculture, genetics, and wood quality. Nanjing Forestry University. SWST Invited Lecture. November 2, 2001. Nanjing Forestry University. Nanjing, Jiangsu, China.
- Shupe, T.F.** 2001. The recycling potential of decommissioned preservative-treated wood. SWST Invited Lecture. November 2, 2001. Nanjing Forestry University. Nanjing, Jiangsu, China.
- Hse, C.Y. and **T.F. Shupe**, and J. Wang. 2001. Mechanical and physical properties of composite products from bagasse and rice husks. Symposium on Utilization of Agricultural and Forestry Residues. October 31-November 3, 2001. Nanjing Forestry University. Nanjing, Jiangsu, China.
- Shupe, T.F.** 2000. Research update – recycling CCA treated wood for flakeboard. American Wood Preservers Institute CCA Council/State Issues Meeting. Radisson Hotel-Orlando Airport Orlando, FL. December 21, 2000
- Shupe, T.F.**, C.Y. Hse, and E.T. Choong. 1999. An overview of silvicultural influences on loblolly pine veneer-based panel properties. In: S.Y. Wang, M.C. Yeh (eds.). International Conference on Effective Utilization of Plantation Timber – Timber and Wood Composites for the Next Century. May 21-23, 1999. Chi-Tou, Taiwan. p. 22-25
- Shupe, T.F.**, C.Y. Hse, and W.H. Wang. 1999. Wettability differences of 22 southern hardwoods. In: S.Y. Wang, M.C. Yeh (eds.). International Conference on Effective Utilization of Plantation Timber – Timber and Wood Composites for the Next Century. May 21-23, 1999. Chi-Tou, Taiwan.
- Gibson, M.D., **T.F. Shupe**, and G.A. Grozdits. 1999. A brief description and comparison of fiber morphology and some other properties of softwoods, hardwoods and corresponding juvenile wood. In: Pulp and Paper and Biology joint TIG “Is it changing fiber resources or changing resource requirements for the pulp and paper industry?” 53rd Forest Products Society Annual Meeting. Boise, ID. June 27-30. Abstract on p. 29 of Biographies and Abstracts.
- Shupe, T.F.** 1999. Introduction to Wood Science, Structure, Decay, and preservation. Seminar to Albemarle Co. April 22. Baton Rouge, LA 20 attendees.
- Shupe, T.F.** 1999. Value-added opportunities for forest landowners. Lincoln Parish Forestry Association. Ruston, LA. May 25. 10 attendees.
- Shupe, T.F.** 1999. Advances in wood composites and wood quality research. University of Minnesota Department of Wood and Paper Science. St. Paul, MN. May 3. 20 attendees.
- Shupe, T.F.**, M.D. Gibson, E.T. Choong, and C.Y. Hse. 1998. Effects of intensive silviculture on loblolly pine chemical properties. Presented at “Forest fiber biology, its control with silviculture and the effects on wood-based products.” Biology/Pulp and Paper joint technical session. 52nd Forest Products Society Annual Meeting. Mérida, Yucatán, México July 21 – 24. Abstract on p. 8 of Biographies and Abstracts.
- Gibson, M.D., **T.F. Shupe**, G.A. Grozdits, and T.R. Clason. 1998. Effects of intensive silviculture on loblolly pine fiber properties – a Louisiana perspective. Presented at “Forest fiber biology, its control with silviculture and the effects on wood-based products.” Biology/Pulp and Paper joint technical session. 52nd Forest Products Society Annual Meeting. Mérida, Yucatán, México July 21 – 24. Abstract on p. 8 of Biographies and Abstracts.
- Shupe, T.F.** 1998. Intensive silviculture effects on plywood, LVL, and OSB properties. Presented at “Juvenile wood and plantation management: Supply issues, production and quality challenges. Identify next steps and action plan to address issues.” American Plywood Association – The Engineered Wood Association. Engineered Wood Research Foundation Info Forum. Shreveport, LA. September 17-18, 1998.
- Shupe, T.F.** 1996. Silvicultural influences on wood properties. Louisiana Cooperative Extension Service. Baton Rouge, LA.

Choong, E.T., Y. Chen, and **T.F. Shupe**. 1996. Effect of steaming and hot-water soaking on the movement of moisture in hardwoods during drying. 5th International IUFRO Wood Drying Conference. Quality Wood Drying Through Process Modeling and Novel Technologies. August 13-17, 1996. Québec City, Québec, Canada pp. 419-426.

Shupe, T.F. 1995. Dimensional stability problems and solutions for tropical hardwood flooring. Firebird International Co. Portland, OR.

Shupe, T.F. and P. Chow. 1993. Effects of site and tree origin on some chemical properties of hardwood biomass grown in Illinois. Forest Products Society Midwest Section Fall Meeting. Madison, WI.

5. Other scholarly or creative activities or other contributions to the profession

U.S. Patents (1 awarded, 2 pending)

Shupe, T.F. and W.R. Smith. 2005. A method to increase surface hardness of wood baseball bats. Under LSU AgCenter review.

Smith, W.R. and **T.F. Shupe**. 2005. Pallet heat treatment indicator. Under LSU AgCenter review.

Lin, L., C.Y. Hse, and **T. F. Shupe**. 2004. A process for detoxification of CCA-treated wood and recycling of chromated copper arsenate and the detoxified wood. U.S. Serial No. 10/434,529 - filed May 9, 2003. Pub. No. US 2004/0225173 A1.

Japanese Patents (1)

Lin, L., C.Y. Hse, and **T.F. Shupe**. 2004. A process to convert cellulose to methanol.

6. Other awards, lectureships, or prizes that show recognition of scholarly or artistic achievement

- I have been recently asked to provide guidance for a new LSU AgCenter research program area at the Calhoun Research Station that will expand on research on closed loop recycling of treated wood developed cooperatively between the Louisiana Forest Products Development Center and the USDA Forest Service, Southern Research Station. I will provide leadership in drafting the position descriptions, interviewing candidates, and assisting the successful candidates to initiate their research program in early 2006.
- LSU Agricultural Center delegate to People's Republic of China. August, 1999. Participated in the drafting of a Memorandum of Understanding between Chinese Academy of Forestry and the LSU Agricultural Center regarding collaborative wood science research projects. Invited by LSU Agricultural Center to spend 2 weeks in Beijing, Nanjing, and Shanghai.
- Member of USAID Forestry/Forest Products Development Project in Honduras. 2000 – present. A Forestry/Forest Products sector project, part of the Louisiana Alliance/Presidential Program for Investors in Honduras (ALIANZA), was conducted by a team from the School of Renewable Natural Resources and the School of Human Ecology. This project, primarily a technical transfer effort, focused on forest products utilization and processing, economic and rural development, marketing and business development and value-added wood processing. To accomplish this, the LSU team of specialists worked with counterparts in Honduras in each of these areas.

- Member of 2004/2005 Edition of the Empire Who's Who Executive and Professional Registry.
- Chair (elected). MidSouth Section, Forest Products Society. 2004.
- President (elected) of LSU Chapter of the Honor Society of Phi Kappa Phi. 2004-2005.
- Primary Associate Editor for Wood Products Utilization in Southern Regional Extension Forestry Journal. 2004.
- Merit Award Winner for Research. 2005. LSU Chapter of Gamma Sigma Delta.
- Invited committee member for National Natural Science Award, P.R. China. 2004.
- Exceptional programming in international project. 2003. Honduras Hurricane Forestry and Wood Products Relief Efforts. Sponsored by the Southern Region of the Cooperative Extension Service.
- Exceptional programming in journal publication. 2003. After the Hurricane: Forest sector reconstruction in Honduras. Sponsored by the Southern Region of the Cooperative Extension Service.
- Elected Fellow of the Institute of Wood Science. 2003.
- Exceptional programming in journal publication. 2001. The Formosan subterranean termite in Louisiana: implications for the forest products industry. Sponsored by the Southern Region of the Cooperative Extension Service.
- Board of Directors. Society of Wood Science and Technology. 2001-2002.
- Exceptional programming in wood science journal publications 1999. Sponsored by the Southern Region of the Cooperative Extension Service.
- Exceptional programming in wood products technology transfer 1999. Sponsored by the Southern Region of the Cooperative Extension Service.
- Exceptional programming in administrative service in continuing forestry education 1999. Sponsored by the Southern Region of the Cooperative Extension Service.
- USDA Award for Individual Extension Program Excellence 1998

Honors and Awards for Graduate Students and Postdoctoral Researchers

- George Marra Research Award (Honorable Mention). Chi So. 2005. Postdoctoral Researcher.
- Wood Award. Cheng Piao. 2003. Graduate Research Assistant.

7. Research support/grant activities

Total research grants/contracts received: \$1,503,309

(Note – Research related only is listed, Extension grants are listed under item 9 in the Extension section)

Vlosky, R.P. J.M. Fannin, and **T.F. Shupe**. 2005. A strategic analysis of the U.S. treated wood industry. \$23,287 of \$46,745. Southern Forest Products Association.

Shupe, T.F. and S. Lee. 2005. Heterogeneous nucleation on the fiber surface of a semicrystalline polymer. \$6,102. National Science Foundation EPSCoR Links with Industry, Research Centers, and National Laboratories (LINK) and Louisiana Board of Regents.

Shupe, T.F. 2005. Long-term wood decay and rot testing. CraftMaster. \$5,000.

Shupe, T.F. 2005. An international assessment of an internet-based technology transfer program on wood pallet phytosanitation. West Virginia University. \$12,000.

Shupe, T.F. 2005. Near infrared investigation of wood quality factors. USDA Forest Service. \$79,629.

Shupe, T.F. and Q. Wu. 2005. Wood durability testing. Bayer Corp. \$8,500.

Shupe, T.F. and Q. Wu. 2005. Wood durability testing. Louisiana Pacific Corp. \$9,500.

Shupe, T.F. and Q. Wu. 2005. Wood durability testing. Kop-Coat Inc. \$2,500.

Shupe, T.F. and Q. Wu. 2005. Formosan subterranean termite wood durability research. Status: accepted. LSU AgCenter Special Grant. \$29,000.

Vlosky, R.P. and **T.F. Shupe**. 2005. Spatial mapping and analysis of Louisiana forest products manufacturers. Louisiana Department of Agriculture and Forestry. \$12,000.

Wu, Q. and **T.F. Shupe**. 2005. Wood durability testing. Trus Joist. \$9,500.

Shupe, T.F. and Q. Wu. 2005. Wood durability testing. MeadWestvaco. \$16,100.

Shupe, T.F. 2005. Long term wood decay and rot testing. CraftMaster. \$11,500.

Shupe, T.F. and Q. Wu. 2005. Wood durability testing. WoodSmart Solutions. \$4,500.

Shupe, T.F. and Q. Wu. 2005. Wood durability testing. Quality Borate. \$4,000.

Shupe, T.F. 2004. Long-term wood decay and rot testing. CraftMaster. \$5,000.

Shupe, T.F. 2004. Special grant – equipment. LSU AgCenter. \$5,810.

Shupe, T.F. 2004. Wood quality research. USDA Forest Service. \$79,321.

Hse, C.Y., D. Arnold, and **T.F. Shupe**. 2004. Development of closed loop recycling system for preservative-treated wood – A process for converting spent treated wood into molded products. USDA Forest Service, US DOE Agenda 2020. \$67,000.

Shupe, T.F. and W.R. Smith. 2004. Moisture meter correction factors for ACQ treated wood. Elder Wood Preserving Co. \$5,000.

Shupe, T.F. 2004. 3-D engineered fiberboard project. \$65,065. USDA Forest Service, Forest Products Laboratory.

Shupe, T.F. 2004. FST preservatives from cedar wood extractives. \$10,000. USDA Forest Service.

Shupe, T.F., W.R. Smith, and Q. Wu. 2004. Termite research. \$29,000. Special Grant, State of Louisiana.

Shupe, T.F. 2004. Library and Scientific Equipment Fund. \$2,144. LSU AgCenter.

Shupe, T.F. 2004. ASOMA XRF device. \$30,000. Arnold Forest Products Corp.

Vlosky, R.P. and **T.F. Shupe**. 2003. Home builder, new-home owner and realtor perceptions and attitudes about mold. Multi-client industry sponsors. \$12,500.

Shupe, T.F. 2003. Long-term wood decay and rot testing. CraftMaster. \$10,000.

Shupe, T.F. 2003. Wood quality assessment using near infrared scanning. USDA Forest Service. \$77,121.

Shupe, T.F. 2003. Wood quality assessment using near infrared scanning. USDA Forest Service. \$2,000.

Hse, C.Y. and **T.F. Shupe**. 2003. Mold testing of OSB panels. Huber Corp. \$6,000.

Smith, W.R., **T.F. Shupe**, and Q. Wu. 2003. Formosan subterranean termite wood durability research. LSU AgCenter Special Grant. \$29,000.

Smith, W.R., **T. Shupe**, Q. Wu, and R. Vlosky. 2003. Enhancement of wood-based durability facilities at the Louisiana Forest Products Development Center. LSU Board of Regents. \$105,540 of \$323,000.

Vlosky, R.P. and **T.F. Shupe**. 2003. Treated wood use in home framing: A study of US homebuilders and homeowners. Forintek Canada Corporation. \$29,187.

- Smith, W.R., **T.F. Shupe**, and Q. Wu. 2002. Formosan subterranean termite wood durability research. LSU AgCenter Special Grant. \$29,000
- Smith, W.R. and **T.F. Shupe**. 2001. Leaching resistance of selected Aventis treated wood products. Aventis Corp. \$10,000
- Shupe, T.F.** 2002. FST preservatives from cedar wood extractives. Louisiana Agricultural Experiment Station. \$15,000.
- Shupe, T.F.** 2002. Wood quality assessment using near infrared scanning. USDA Forest Service. \$145,777.
- Hse, C.Y., B.S. Bryant, and **T.F. Shupe**. 2002. Development of formaldehyde-based wood adhesives with co-reacted phenol/soybean flour. USDA Forest Service. \$67,000.
- Shupe, T.F.** 2002. Development of high value-added products to reduce forest fuel loading in Louisiana forests. USDA Forest Service. \$85,101.
- Shupe, T.F.** and R.P. Vlosky. 2002. Wood products industry issues – Gaining the competitive advantage. Capitol Resources Conservation and Development Council. \$1,500.
- Vlosky, R.P. and **T.F. Shupe**. 2002. Home builder perceptions of treated wood. Various industry sponsors. \$7,500.
- Shupe, T.F.** and R.P. Vlosky. 2002. Wood products industry issues – Gaining the competitive advantage. Capitol Resources Conservation and Development Council. \$1,500.
- Hse, C.Y., L. Lin, **T.F. Shupe** and D. Arnold. 2002. Development of a closed-loop recycling system for spent CCA treated wood. USDA. \$56,000.
- Shupe, T.F.** 2001. To support recycling treated wood research. American Wood Preservers Institute. \$1,000.
- Shupe, T.F.** 2001. Travel grant. Louisiana State University Board of Regents. \$1,000.
- Shupe, T.F.** 2001. Research support. Batelle Memorial Institute. \$25,000.
- Dunn, M.A. and **T.F. Shupe**. 2001. Establishing a holistic wood species reference site for the internet. Capital Resource Conservation and Development, U.S.D.A. \$2,000.
- Shupe, T.F.** 2001. Travel grant to Asia. Society of Wood Science. \$800.
- Shupe, T.F.** 2001. Mechanical properties of composite transmission poles from plantation-grown wood and recycled poles. McIntire Stennis Cooperative Forestry Research Program. \$1,000.
- Smith, W.R., **T.F. Shupe**, and Q. Wu. 2001. Formosan subterranean termite wood durability research. LSU AgCenter Special Grant. \$29,000
- Choong, E.T. and **T.F. Shupe**. 2000-2005. Mechanical properties of composite transmission poles from plantation-grown wood and recycled poles. McIntire Stennis Cooperative Forestry Research Program. \$1,000.
- Shupe, T.F.** and M. Stine. 2000-2001. Genetic influences on longleaf pine wood properties. McIntire Stennis Cooperative Forestry Research Program. \$1,000.
- Crawford, D.M., S. Lebow, and **T.F. Shupe**. 2000-2001. Improved treatment of SPF species used in home framing construction. University of Melbourne (Australia) and USDA. \$5,000.
- Shupe, T.F.** 2000. Technical feasibility of oriented strand board (OSB) production from recycled CCA-treated wood. American Wood Preservers Institute. \$6,600.
- Shupe, T.F.**, M. Stine, and L. Groom. 2001-2003. Influence of genetic variance on wood properties assessed using near infrared spectra. National Research Initiative. \$129,955. Agreement No. 2001-35103-10908.
- Shupe, T.F.** and R.P. Vlosky. 2000-2001. Consumer perceptions of treated wood. Multi-client study. \$8,000.
- Shupe, T.F.** 1990-1991. The effects of various relative humidities on the dimensional stability and fiber saturation point of Kempas (*Koompassia malaccensis*) wood. University of Illinois, College of Agriculture, Jonathon Baldwin Turner Undergraduate Competitive Research Program. \$1,000.

Pending (\$45,109)

Shupe, T.F. 2004. Development of a vacuum-perforated platen hot press system. Status: pending. \$45,519. Private industry.

Grants/contracts participant (\$600,00)

Shupe, T.F. (participant). 2002. Advanced wood science and technology for the 21st century – 948 Project. Ministry of Forestry of People’s Republic of China. Status: approved. \$600,000.

Funding Sources

- Adsil Corp.
- Albermarle Corp.
- American Wood Preservers Institute
- Arch Wood Protection
- Arnold Forest Products Corp.
- Aventis Corp.
- Bayer
- Boise Cascade
- Capital Resource Conservation and Dev. Council USDA
- Chemical Specialties, Inc.
- CraftMaster
- Elder Wood Preserving Company
- Fairfield Residential LLC
- Forintek Canada Corporation
- Georgia-Pacific Corporation-Gypsum
- Hickson Corporation
- Kop-Coat, Inc.
- Limestone Bluffs RC&D
- LSU AgCenter
- LSU Board of Regents
- LSU School of Renewable Natural Resources
- Louisiana Agricultural Experiment Station
- Louisiana Cooperative Extension Service
- Louisiana Department of Agriculture and Forestry
- Louisiana Forestry Association
- Louisiana Pacific Corp.
- Louisiana Society of American Foresters
- Martha Abshire
- McIntire Stennis Coop. Forestry Res. Program
- MeadWestvaco
- Microban Products Co.
- Ministry of Forestry of People’s Republic of China
- National Research Initiative
- National Science Foundation EPSCoR Links with Industry, Research Centers, and National Laboratories (LINK) and Louisiana Board of Regents.
- Norboard Industries

- Osmose, Inc.
- Quality Borate
- Roy O. Martin Co.
- Society of Wood Science
- Southern Forest Products Association
- Southern Regional Extension Forester
- State of Louisiana
- The Nature Conservancy
- Trust Joist – A Weyerhaeuser Company
- US Borax
- University of Illinois
- University of Maine
- University of Melbourne
- USAID
- USDA Forest Service, Forest Products Laboratory
- USDA Forest Service
- USDA Forest Service, Southern Research Station
- USDA RREA
- West Virginia University
- Wood Promotion Network
- WoodSmart Solutions

8. Theses/dissertations directed (numbers only)

- 2 – Ph.D. dissertations (completed)
- 4 – Ph.D. dissertations (on-going)
- 3 – M.S. theses (completed)
- 1 – M.S. theses (on-going)

9. Major areas of research interest

- Closed loop recycling of decommissioned preservative treated wood.
- Wood quality assessment using near infrared spectroscopy.

10. Outreach – field days, trade-shows, direct clientele contact

- Assisted with the establishment and expansion of numerous portable and stationary sawmill companies, value-adding secondary firms, and small dry kiln operators.
- Visited over 300 primary and secondary forest products companies in Louisiana.
- Reached scores of homeowners through on-site visits, personal communication, and other forms of communication.

Conferences, Workshops and Short Courses Organized - Forest Products (35)

- Drying lumber for quality and profit. August 17-19, 2005. Louisiana Cooperative Extension Service and Louisiana Forest Products Laboratory. Baton Rouge, LA.
- Sustainable Use of Forests for Non-Timber Values and Products. Grant Walker 4-H Educational Center. Pollock, La. February 12, 2004.
- Solar Drying Wood for Hobbyists. Grant Walker 4-H Educational Center. Pollock, La. May 6, 2004.
- Advanced Hardwood Lumber Drying. Grant Walker 4-H Educational Center. Pollock, La. May 7, 2004.
- Sawing, Edging, and Trimming of Hardwood Lumber. Grant Walker 4-H Educational Center. Pollock, La. May 8, 2004.
- Session Co-Chair. 5.01.00 Wood Quality. IAWA / IUFRO - All Division 5 Conference, Rotorua, New Zealand, 11-15 March 2003.
- Emerging Technologies for the Particleboard, Fiberboard, and Molded Wood Products Industry. Particleboard, Fiberboard, and Molded Wood Products Industry TIG. Forest Products Society Annual Meeting. June 23, 2003, DoubleTree Hotel, Bellevue/Seattle, WA.
- Wood Science in the BioBased Economy. Society of Wood Science and Technology Annual Meeting. CoSponsors: LSU AgCenter, USDA Forest Service, and Iowa State University. Bellevue, WA. June 22, 2003.
- Softwood Utilization: Current Status and Strategies for the Future. Forest Products Society Mid-South Section Meeting. November 5-6, 2003. The Arlington Resort Hotel Hot Springs, AR.
- Martco Lumber Drying Workshop. November 21, 2003. Lemoyen, LA.
- Quality control. CUPROFOR. San Pedro Sula, Honduras. USAID funded post-Hurricane Mitch development project. February 25, 2002.
- Wood finishing. CUPROFOR. San Pedro Sula, Honduras. USAID funded post-Hurricane Mitch development project. February 26, 2002.
- Basics of hardwood lumber drying. Lomax Hall, Louisiana Tech University Ruston, LA. March 12th-14th, 2002.
- Forest products. Site Coordinator - Master Tree Farmer. Monroe, LA. March 12, 2002.
- Wood products industry business issues – Gaining the competitive advantage. Camp Grant Walker. Pollock, LA. April 9, 2002.
- What's new (with particleboard, fiberboard, and molded products) in 2002. 2002. Particleboard, Fiberboard, and Molded Wood Products Industry TIG. Forest Products Society Annual Meeting. Monona Terrace Convention Center. June 25, 2002, Madison, WI.
- New technologies for the southern wood products industry. Biloxi, MS. October 17-18, 2002. Forest Products Society MidSouth Section Annual Meeting.
- Wood Is Today. Baton Rouge, LA. Southern Forest Products Association and APA – The Engineered Wood Association. October 16, 2002.
- Wood properties and wood processing/lumber drying. CUPROFOR. San Pedro Sula, Honduras. USAID funded post-Hurricane Mitch development project. May 1, 2001.
- Wood gluing. CUPROFOR. San Pedro Sula, Honduras. USAID funded post-Hurricane Mitch development project. August 28, 2001.
- Lumber drying. Tegucigalpa, Honduras. USAID funded post-Hurricane Mitch development project. October 25, 2001.
- Current research in wood-based panels. 2001. Particleboard, Fiberboard, and Molded Wood Products Industry TIG. Forest Products Society Annual Meeting. June 27, 2001. Wyndham Baltimore Inner Harbor Hotel. Baltimore, MD.
- 4th Annual drying lumber for quality and profit. March 1-3, 2000. Louisiana Cooperative Extension Service and Louisiana Forest Products Laboratory. Baton Rouge, LA.

Practical wood identification. Louisiana Cooperative Extension Service. May 18, 2000. Ruston, LA. .

Solar drying wood for hobbyists. Louisiana Cooperative Extension Service. September 27, 2000. Pollock, LA.

Advanced hardwood lumber drying. Louisiana Cooperative Extension Service. September 28, 2000. Pollock, LA.

3rd Annual drying lumber for quality and profit. February 1999. Louisiana Cooperative Extension Service and Louisiana Forest Products Laboratory. Baton Rouge, LA.

Improving wood utilization for small wood products business. Louisiana Cooperative Extension Service. January, 1998. Lake Charles, LA.

2nd Annual drying lumber for quality and profit. February 1998. Louisiana Cooperative Extension Service and Louisiana Forest Products Laboratory. Baton Rouge, LA.

Improving wood utilization for small wood products business. Louisiana Cooperative Extension Service. March, 1998. Shreveport, LA.

Juvenile wood and plantation management: Supply issues, production and quality challenges. Identify next steps and action plan to address issues. American Plywood Association – The Engineered Wood Association. Engineered Wood Research Foundation Info Forum. Shreveport, LA. September 17-18, 1998. (Co-organized with T. Kerwood).

Tips for secondary producers of wood products. November 1998. Ruston, LA., Lomax Hall.

Strategies on starting or improving a small wood products business. Louisiana Cooperative Extension Service. February 1997. Winnfield, LA.

Practical wood identification. Louisiana Cooperative Extension Service. February 1997. Baton Rouge, LA.

Drying lumber for quality and profit. February 1997. Louisiana Cooperative Extension Service and Louisiana Forest Products Laboratory. Baton Rouge, LA.

Workshops and Short Courses Organized and Co-organized – Continuing Forestry Education (27)

2000 Schedule (9)

- February 15. Improving Your Tax Position. Shreveport, LA
- April 18. Forest Measurement Techniques. Ruston, LA
- May 9. Wetlands Issues in Forestry. Hammond, LA
- July 18. Forest Herbicides Application and Use. Ruston, LA
- August 1. Basic Computer Applications. Pineville, Louisiana
- Cancelled. Hardwood Management and Silviculture. Woodworth, LA
- September 12. Wildlife Management. Shreveport, LA
- October 10. New trends in Forestry. Alexandria, LA
- October 17. Geographic Information Systems Short Course. Ruston, LA

1999 Schedule (13)

- April 22. Wildlife Techniques for Foresters. Pollock, LA
- May 13. Global Positioning Systems – A Hands On Approach. Pollock, LA
- May 27. Media Relations for Forestry Professionals. Hammond, LA
- June 10-11. Forest Pesticide Training and Certification. Monroe, LA
- June 24. Forest Insects and Diseases. Ruston, LA
- July 19. Media Relations for Forestry Professionals. DeRidder, LA
- August 12. Media Relations for Forestry Professionals. Alexandria, LA
- September 23. Media Relations for Forestry Professionals. Shreveport, LA

- October 4. Leadership for Forestry Professionals. Pollock, LA
- October 12. Media Relations for Forestry Professionals. Ruston, LA
- October 28. Forest Investment Analysis. Shreveport, LA
- November 9. Forest Investments. Shreveport, LA
- November 18. Wetlands Issues in Forestry. Ruston, LA

1998 Schedule (5)

- March 12. Global Positioning Systems for Foresters. Pollock, LA
- May 21. Computer Applications in Growth and Yield, Forest Finance and Forest Inventory. Shreveport, LA
- July 15. Wetlands Forest Management. Woodworth, LA
- August 11-12. Forest Economics, Taxes, and Estate Planning. Ruston, LA
- September 24. Developing a Competitive Advantage Through Leadership. Shreveport, LA

Continuing Forestry Education Advisory Committee Meetings Organized - 1997-2000. Alexandria, LA. (4)

Symposia Organized (1)

- Louisiana Natural Resources Symposium. July 18-20, 2005. Lod Cook Conference Center and Hotel. Baton Rouge, LA.

Public Seminars and Lectures (59)

(Also see the following sections in the Research portion: Published Abstracts under Section 3 and Nonrefereed Publications under Section 1 p. 7).

- Pan, H., T.F. Shupe, and C.Y. Hse. 2005. Mechanical and physical properties of bio-composites from wood fiber and liquefied wood/phenol/formaldehyde co-condensation resin. At: Wood Adhesives 2005. Nov. 2-4, 2005, San Diego, CA.
- Shupe, T.F. 2005. 2004 research and outreach. At: LFPDC advisory meeting. March 2, 2005. Baton Rouge, LA.
- Shupe, T.F. 2005. Closed loop recycling program for the Calhoun Research Station. At: Louisiana Forestry Association Board Meeting. August 2, 2005.
- Shupe, T.F. 2004. Wood quality research findings. At: Northwest Agriculture and Forestry University. November 5, 2004. Yangling, China.
- Shupe, T.F. 2004. A closed loop treated wood research program. At: Northwest Agriculture and Forestry University. November 5, 2004. Yangling, China.
- Shupe, T.F. 2004. Wood quality research findings. At: Research Institute of Wood Industry, Chinese Academy of Forestry. November 8, 2004. Beijing, China.
- Shupe, T.F. 2004. A closed loop treated wood research program. At: Research Institute of Wood Industry, Chinese Academy of Forestry. November 8, 2004. Beijing, China.
- Shupe, T.F. 2004. New product development. Louisiana Forest Products Development Center Steering Committee. March 3, 2004. Baton Rouge, LA.
- Shupe, T.F. 2004. Research update and lab tour. Louisiana Forestry Association Annual Meeting. September 1, 2004. Baton Rouge, LA.

- Shupe, T.F. 2003. New product development. At: Roy O. Martin Co. Endowed Professorship Meeting. January 24, 2003. Baton Rouge, LA.
- Shupe, T.F. 2003. New Product development. At: LFPDC Awareness Initiative. February 14, 2003. Baton Rouge, LA.
- Shupe, T.F. 2003. Development of cost effective and high performance bagasse composite panels. At: American Sugar Cane League Research Advisory Committee Meeting. February 19, 2003. Thibodaux, LA.
- Host and Presentation Co-Author. Baton Rouge. Cabinda, Angola delegation including Vice-Governor, Director of the Provincial Cabinet and Director of Industry, Commerce and Tourism. Tour of Louisiana Forest Products Development Center facilities and presentation "Forest Sector Team Skills, Experience, and Approach." School of Renewable Natural Resources, LSU AgCenter. October 31, 2003. Baton Rouge, LA.
- Shupe, T.F. 2003. Extension component of the LFPDC. At: Extension Regional Meetings: Building Relationships Between the Louisiana Forest Products Development Center and Louisiana Stakeholders. South Central Region. July 15, 2003. Alexandria, LA.
- Shupe, T.F. 2003. Extension component of the LFPDC. At: Extension Regional Meetings: Building Relationships Between the Louisiana Forest Products Development Center and Louisiana Stakeholders. South Central Region. August 12, 2003. St. Gabriel, LA.
- Vlosky, R.P., T.F. Shupe, Q. Wu, N. deHoop, and R. Smith. 2003. The Louisiana Forest Products Development Center: A nexus for sustainable forest sector development in Louisiana. At: Environmental State of the State Conference VIII. October 10, 2003. New Orleans, LA.
- Shupe, T.F. 2003. Wood anatomy effects on lumber drying. Martco Lumber Drying Workshop. November 21, 2003. Lemoyen, LA.
- Shupe, T.F. 2003. Quality control. Martco Lumber Drying Workshop. November 21, 2003. Lemoyen, LA.
- Shupe, T.F. 2002. Quality control. At : Basics of hardwood lumber drying. March 12-14, 2002. Ruston, LA.
- Shupe, T.F. 2002. Air drying of lumber. At: Basics of hardwood lumber drying. March 12-14, 2002. Ruston, LA.
- Shupe, T.F. 2002. Relationship of EMC, temperature, and RH. At : Basics of hardwood lumber drying. March 12-14, 2002. Ruston, LA. Wood properties and wood processing. Lecturer. At "Wood Science Workshop." San Pedro Sula, Honduras. USAID funded post-Hurricane Mitch development project. May 1, 2001.
- Lumber drying. Lecturer. At "Wood Science Workshop." San Pedro Sula, Honduras. USAID funded post-Hurricane Mitch development project. May 1, 2001.
- Kiln types and schedules. Co-lecturer with Q. Wu. At "Fundamentals of Lumber Drying Workshop." Tegucigalpa, Honduras. USAID funded post-Hurricane Mitch development project. October 25, 2001.
- The role of research. At "Structures for Successful Forest Sector Development Workshop." Tegucigalpa, Honduras. USAID funded post-Hurricane Mitch development project. February 19, 2002.
- Hse, C.Y., T.F. Shupe and J. Wang. 2001. Mechanical and physical properties of composite products from bagasse and rice husks. At: Proceedings of Symposium on Utilization of Agricultural and Forestry Residues. October 31 – November 3, 2001. Nanjing Forestry University. Nanjing, Jiangsu, China. p. 187-192.
- Wood composites. Lecturer. At "Wood Composites and Adhesives Workshop." San Pedro Sula, Honduras. USAID funded post-Hurricane Mitch development project. August 28, 2001.

Gluing of wood and wood products. Lecturer. At “Wood Composites and Adhesives Workshop.” San Pedro Sula, Honduras. USAID funded post-Hurricane Mitch development project. August 28, 2001.

Wood structure. Lecturer. At “Fundamentals of Lumber Drying Workshop.” Tegucigalpa, Honduras. USAID funded post-Hurricane Mitch development project. October 25, 2001.

Wood-moisture-shrinkage. Lecturer. At “Fundamentals of Lumber Drying Workshop.” Tegucigalpa, Honduras. USAID funded post-Hurricane Mitch development project. October 25, 2001.

Air and solar drying. Lecturer. At “Fundamentals of Lumber Drying Workshop.” Tegucigalpa, Honduras. USAID funded post-Hurricane Mitch development project. October 25, 2001.

Shupe, T.F. 2001. Silvicultural and genetic influences on southern yellow pine wood properties. Warnell School of Forest Resources. University of Georgia, Athens, GA. August 2, 2001.

Wood anatomy. At: (T.F. Shupe and Q. Wu. Co-chairmen). 4th Annual drying lumber for quality and profit. Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. March 1-3, 2000. Baton Rouge, LA.

Statistical quality control. At: (T.F. Shupe and Q. Wu. Co-chairmen). 4th Annual drying lumber for quality and profit. Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. March 1-3, 2000. Baton Rouge, LA. 17 attendees.

Wood quality research. At: Southern Industrial Forestry Research Council Meeting. School of Forestry, Wildlife, and Fisheries. Louisiana State University Agricultural Center. May 10, 2000. Baton Rouge, LA.

Fundamentals of wood anatomy and identification. At: Practical wood identification. Cooperative Extension Service Workshop. May 18, 2000. Ruston, LA.

Forest management practices and wood quality. At: Agricultural Leadership Development Program Seminar. LSU AgCenter. October 10, 2000. Baton Rouge, LA.

Shupe, T.F. 2000. Research update – recycling CCA treated wood for flakeboard. American Wood Preservers Institute CCA Council/State Issues Meeting. Radisson Hotel-Orlando Airport Orlando, FL. December 21, 2000.

An overview of forest products economic development outreach programs in Louisiana. At: Forestry and forest products economic development outreach programs in Louisiana” for 25 delegates from State Forestry Administration of People’s Republic of China. January 21, 1999. Baton Rouge, LA.

Wood anatomy. At: (T.F. Shupe and Q. Wu. Co-chairmen). 3rd Annual drying lumber for quality and profit. Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. February 1999. Baton Rouge, LA.

Statistical quality control. At: (T.F. Shupe and Q. Wu. Co-chairmen). 3rd Annual drying lumber for quality and profit. Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. February 1999. Baton Rouge, LA.

Value added opportunities for forest landowners. At: Part-time sawmilling for full-time landowners. Lincoln Parish forestry association meeting. Sanderlin Sawmill Operations. March 1999. Dubach, LA.

Proposed research program. At: Louisiana Forest Products Laboratory Annual Steering Committee Meeting. June 1999. Ruston, LA.

Overview of the Louisiana forest products industry. At: Urban Forestry class from Southern University visiting LSU. October 1999. Baton Rouge, LA

Selecting a dry kiln. At: Improving wood utilization for small wood products business. Louisiana Cooperative Extension Service. January, 1998. Lake Charles, LA.

Wood anatomy. At: (T.F. Shupe and Q. Wu. Co-chairmen). 2nd Annual drying lumber for quality and profit. Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. February 1998.

Statistical quality control. At: (T.F. Shupe and Q. Wu. Co-chairmen). 2nd Annual drying lumber for quality and profit. Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. February 1998. Baton Rouge, LA.

Selecting a dry kiln. At: Improving wood utilization for small wood products business. Louisiana Cooperative Extension Service. March, 1998. Shreveport LA.

Proper drying and storage of lumber. At: Greater Baton Rouge Area Lumber Wholesalers Association meeting. June, 1998. Baton Rouge, LA.

Wood composites and adhesives. At: Some tips for secondary producers of wood products. Louisiana Cooperative Extension Service. November 19, 1998. Ruston, LA.

Pros and cons of different dry kilns. At: (T.F. Shupe Chairman). Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. Strategies on starting or improving a small wood products business. February 1997. Winnfield, LA.

Effect of wood structure on lumber drying. At: (T.F. Shupe and Q. Wu. Co-chairmen). Drying lumber for quality and profit. Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. February 1997.

Afternoon Moderator. Southern Forests Growing in Positive Directions. 13th Annual ARK-LA-TEX Forestry Forum. February 1997. Shreveport, LA.

Dry kiln selection. At: (T.F. Shupe and Q. Wu. Co-chairmen). Drying lumber for quality and profit. Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. February 1997.

Statistical quality control. At: (T.F. Shupe and Q. Wu. Co-chairmen). Drying lumber for quality and profit. Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. February 1997.

Understanding wood structure and identification. At: (Q. Wu and R.H. Mills Co-Chairman). Louisiana State University. Cooperative Extension Service and Forest Products Laboratory Workshop. Basics of lumber drying. October 1996. Baton Rouge, LA.

Differences in moisture content and shrinkage between outerwood, middlewood, and corewood of two yellow-poplar trees, Louisiana State University. School of Forestry, Wildlife, and Fisheries Seminar Series. March 1995. Baton Rouge, LA.

Wood anatomy and identification through light microscopy. Louisiana State University. School of Forestry, Wildlife, and Fisheries Seminar Series. April 1994. Baton Rouge, LA.

Some of the chemical properties of 12-year-old hardwood biomass grown in Illinois. University of Illinois, Department of Forestry Seminar and M.S. thesis defense. November 1993. Urbana, IL.

The effects of various relative humidities on the adsorption and desorption and equilibrium moisture content of Kempas (*Koompassia malacensis*) wood. University of Illinois, Department of Forestry Seminar. October 1992. Urbana, IL.

11. Cooperative/collaborative efforts with other faculty

A USDA NRI grant was completed in conjunction with Dr. M. Stine (Co-PI) from the LSU SRNR. Several collaborative projects have been completed and are on-going with other members of the LFPDC.

12. Community involvement (as it relates to the AgCenter mission)

Media Feature Interviews/Articles (7)

- Consumer views of wood preservatives studied by LSU. The Piney Woods Journal. August, 2004. p. 16.
- Alabama Forest Land Owners Association. Wood quantity versus quality. February 18, 2003. Conference phone call and live internet broadcast.
- SFPA Gearing Up for CCA Transition. 2002. Southern Lumberman. May. p. 8-9.
- Survey bodes well for treated industry. Random Lengths. 2002. Vol. 58, Issue 22. p. 1-2.
- Alabama Forest Land Owners Association. Wood quality. August, 14 2002. Conference phone call and live internet broadcast.
- KALB, NBC Channel 5. Alexandria, LA. June 5, 1999.
- KRRV, 100.3, FM. Alexandria, LA. June 5, 1999

Other Service

Member of St. Andrew's Methodist Church, American Humane Society, Society for the Prevention of Cruelty to Animals, Woodland Ridge Homeowners Association, LSU Alumni Association, LSU College of Agriculture Alumni Association, University of Illinois Alumni Association, LSU Forestry, Wildlife, and Fisheries Alumni Association (Executive Secretary, 2003-present)

13. Overall program impact

This research program has largely had two major areas of focus: (1) closed loop recycling of preservative-treated wood and (2) wood quality. Both research areas have received extramural funding, resulted in refereed journal articles, and supported graduate students, research associates, and postdoctoral research scientists. In addition, both areas are addressing issues that are critical for the long-term viability of the forest products industry and have environmental stewardship benefits as well.

Large volumes of preservative-treated wood are decommissioned each year. Historically, the most common treatment options for this material were either incineration or landfilling. Neither option is particularly economically viable or without potential adverse environmental consequences. Thus, recycling options, both removal of the toxic preservatives from the preservative-treated wood and recycling of the detoxified preserved wood are of great importance to those concerned with the life cycle management of treated wood. Moreover, there is great economic development potential if a cost effective recycling system can be successfully developed. The closed loop recycling program area has steadily developed over the years to a comprehensive, multiple-product, closed loop recycling program for the major wood preservatives. The program area has established the technical feasibility of using decommissioned preservative-treated wood waste for engineered wood composite panels and composite poles. A recent doctoral student won first place in the 2003 Wood Award Completion from the Forest Products Society for a paper based on the composite pole technology. Additional research in this area has focused on the use of liquefaction and supercritical water technology to remove residual preservatives from decommissioned preservative-treated wood. Current results of the liquefaction technology are showing that over 99% of all three metals (Cr,

Cu, and As) in CCA-treated wood can be removed. The economic feasibility is currently being explored in a collaborative USDA SBIR project with a Louisiana wood treater. Since liquefaction of wood is a method by which wood can be rapidly liquefied in the presence of an organic solvent at mild temperatures (120 - 250 °C) using an acid as the catalyst, the economic viability of the process is high. The industry cooperator is prepared to hire additional personnel and expand current treating operations based on the early success of the project.

The wood quality research program is using state-of-the art technology in the form of near infrared (NIR) spectroscopy to model mechanical, physical, anatomical, and chemical properties of longleaf pine wood. The volume of longleaf pine in southern U.S. forests has steadily decreased over the years. However, longleaf pine offers unique ecological benefits that are not possessed by other SYP species. Longleaf pine originally was found on a diverse range of habitats from flatwoods to dry sandy hills, and as such, it is associated with many plants and animals, including the federally listed red-cockaded woodpecker (RCW), gopher tortoise, and bobwhite quail, the later of which is an important game species. These species all benefit from either longleaf pine itself, as in the case of RCW which requires mature longleaf pine with red heart disease for nest cavities, or the plant communities associated with frequently burned longleaf pine ecosystems (gopher tortoises and quail). Many of the current problems in SYP forests, from the decline of RCW, gopher tortoises, and quail, to the increase in bark beetle outbreaks and the increase incidence in fusiform rust, can partially be attributed to the conversion of longleaf pine forests to loblolly and other SYP. Indeed, activities that can facilitate an increase in longleaf pine planting will have a positive impact on the environment. The relationships between the NIR spectra and wood properties established from this work have allowed for the rapid and accurate assessment of numerous longleaf pine wood properties. This information can be used to assist future tree improvement programs for longleaf pine and facilitate increased planting of this species.

A portion of this research explored the use of NIR for process control of wood density for a paper mill that needed to maximize pulp yield without compromising paper strength properties. Models were developed from the absorbance at wavelengths in the NIR region to provide density histograms. The fiber supply personnel can now rapidly and accurately monitor chip density variation as the chips enter the mill. This program area also examined the effect of blue stain on NIR spectra. An understanding of how blue stain influences the absorbance at different wavelengths is critical when modeling wood properties. Recent research has developed modeling techniques to accurately account for the presence of blue stain on an increment core. Recent research also developed a theoretical model to predict the relationship between microfibril angle and lignin content at the Angstrom (Å) level.

Service Activities

- 1. Organizations advised**
- 2. Recruitment of students and faculty**

Graduate Students

1999 - Participated in 10 day trip to Beijing, Nanjing, and Shanghai, China to participate in Memorandum of Understanding with Chinese Academy of Forestry and recruited former M.S. student (Ms. Wei Li). Also, high quality graduate students are constantly recruited at professional meetings.

Undergraduate students

School of RNR recruiting presentation. Scotlandville Middle School. Baton Rouge, LA. July 7, 2003.

Volunteered and participated in Tiger Day on September 14, 2002 to assist in new student recruitment to the School of RNR.

Faculty

Search committee chair for two new faculty positions for Preservative-Treated Wood Closed Loop Recycling Program at the Calhoun Research Station. 2005.

Served on search committee for the selection process of an Assistant/Associate Specialist of Forest Ecology and Silviculture for LCES and SRNR. 2001.

3. University service (department, region, station, parish, committees, etc.)

Professional Service

AgCenter

Service Unit Advisory Committee Member for Sponsored Programs and Accounting Services. 2005 – 2007.

Shupe, T.F. LSU AgCenter treated wood recycling initiative. Senate Agriculture and Forestry Committee. June 7, 2005.

External unit reviewer and Chair for promotion and tenure for Drs. M. Abbington-Cooper (4H), and external unit pre-tenure review for Dr. M. Blazier, LSU AgCenter (Hill Farm Research Station). 2005.

Search committee chair for two new faculty positions for Preservative-Treated Wood Closed Loop Recycling Program at the Calhoun Research Station. 2005.

LaHouse Core Committee Member. 2005 – present.

LSU AgCenter Faculty Council. 2004-2006, Executive Committee 2004.

Ag Magic guide. April, 2004.

Accounting Services Advisory Committee. 2004-present.

Organized meeting on August 17, 2004 at Pollock, LA to develop plan for 4H agents to attract Forest Service funds for local programming.

Selected by Executive Vice Chancellor to 2002 LSU AgCenter's Chancellor's Evaluation with LSU System President

LSU AgCenter Spring Picnic Planning Committee. 2002.

LCES Continuing Natural Resources Education Committee. 2001-present.

Ag Center Oversight Committee. 2001-present.

LaFete Committee 1999, 2004. Participated in LaFete at State Capitol to educate state legislators on the value of the LSU AgCenter, SFWF, and natural resources to the State.

Coordinator of the annual Louisiana 4-H forestry summer camp program. Approximately 8,000 youths attend each year. 1996-2001.

Chair of Louisiana Cooperative Extension Service, Continuing Forestry Education Committee. 1997 – 1999.

College of Agriculture

Alternate Member of Faculty Senate. 2002.

School of RNR

See gratis teaching under "3. Other creative and artistic contributions."
Committee member of Standard V: Students for 2005. SAF accreditation.
Assisted with establishment of the Norwin Linnartz Memorial Scholarship, helped raise over \$25,000.
2004.
Established the Elvin Choong Memorial Lecture Series, raised over \$10,000. 2004.
Executive Secretary of FWF Alumni Association. 2003 – present.
School of RNR recruiting presentation. Scotlandville Middle School. Baton Rouge, LA. July 7, 2003.
Volunteered and participated in Tiger Day on September 14, 2002 to assist in new student recruitment to the School of RNR.
Continuing Education. 2000-present.
Member of Gilbert Fellowship. 2002.
Member of Undergraduate Advising. 2002-present.
Seminar and Lecture, Community of Scholars. 2002-present.
Elvin Choong Memorial Garden. 2002.
Academic Advising. 2002-present.
Scholarship. 2004-present.
SRNR Faculty Representative. Fall 2001, Spring 2003, Spring 2004 Commencement Ceremony.
Coordinator of Choong Endowed Lecture Series. 2001-present
Guest lectured at Dr. Don Deckard's Forest Economics class at Louisiana Tech University regarding graduate opportunity at SFWF. October 15, 1999.
SFWF Xi Sigma Pi Nu Chapter President (Forester). 1995-1996. Created new plaques and restored old plaques to honor each new Nu Chapter yearly initiates and outstanding sophomore award winners.
Frequent guest lecturer in RNR 2043 (Forest Products and Wood Science)

University

Member of Gamma Sigma Delta Distinguished Service to Agriculture Committee. 2003.
Chair of Phi Kappa Phi Non-Tenured Faculty Award: Natural and Physical Sciences Award Committee;
Member of Graduate Fellowship Award Committee 2003.
Member of The Honor Society of Phi Kappa Phi Graduate Fellowship Committee. 2003.
Secretary/Treasurer of The Honor Society of Phi Kappa Phi 2002-2003.
Gamma Sigma Delta Distinguished Service to Agriculture Committee. 2002-2005.
Vice President of LSU Chapter, The Honor Society of Phi Kappa Phi. 2002-2003.
President of LSU Chapter, The Honor Society of Phi Kappa Phi. 2003-2004.

Other Service

See Section 12 in the Extension section.

4. Professional service

1st Vice Chair of Particleboard, Fiberboard, and Molded Products Technical Interest Group. Forest Products Society. 2002-2005.
International Nominating Committee. Forest Products Society. 2006.
Division Coordinator. Composites and Manufactured Products. 2005-2008, Fundamental Disciplines. 1999-2001.

Oversight Committee Member. Master Kiln Operator Program. National Hardwood Lumber Association. 2005.

Book Chapter Reviewer. Developing Wood Preservative Systems and Molds in Homes. T.P. Schultz and D.D. Nicholas. 2005. American Chemical Society.

Outside reviewer for promotion and tenure of Dr. Terry Conners (University of Kentucky, 2004), Dr. Laurie Schimleck (University of Georgia, 2005).

Chair of Education Committee. Louisiana Society of American Foresters. 2004.

Program Chair and Session Moderator for Academic Education. Louisiana Society of American Foresters Annual Meeting. Woodworth, LA. June 9-11, 2004.

Technical Advisory Committee Member. USDA Forest Service. Wood Utilization Project. Pineville, LA. 2004.

Environmental and Regulatory Session Moderator. 2004. "Forestry: 2004 and Beyond" Forest Sector Summit and Issues Prioritization Forum. Hosted by the Louisiana Forestry Association. February 4, 2004. Alexandria, LA.

Education Committee Chair. Southern Pressure Treaters Association. 2004-present.

Session Chair/Moderator. New Method II. November 2. At: The 7th Pacific Rim Bio-Based Composites Symposium. Nanjing, China. October 31 – November 2, 2004.

Awards Committee for Southern Extension Forest Resource Specialists. 2004.

Planning Committee Member. Wood Products Recent Developments. Southern Regional Extension Forestry Workshop. 2005.

Session Chair. Particleboard, Fiberboard, and Molded Wood Products TIG Session. Forest Products Society. 2002-2005.

Session Chair. 5.01.00 Wood Quality. IAWA / IUFRO - All Division 5 Conference, Rotorua, New Zealand, 11-15 March 2003.

Session Chair. Korea. In: Better Utilization of Wood for Human, Earth and Future. International Conference on Forest Products, 30th Anniversary of the Korean Society of Wood Science and Technology. April 21-24, 2003. Daejeon, Korea.

Session Organizer and Chair. IAWA meeting Pan-American Regional Group Meeting of IAWA, Portland, Oregon, USA 13-17 July 2003.

IUFRO Deputy Working Group Leader of S5.01.02, Natural Variations in Wood Quality, 2001 – present.

Industry Committee of the Louisiana Ground Water Management Advisory Task Force. 2001 – present.

Book Chapter Reviewer "Silviculture and Wood Quality" J.G. Haygreen and J.L. Bowyer Rubin Shmulsky. 2002. Forest Products and Wood Science - An Introduction.

Elected Vice Chair. Forest Products Society. MidSouth Section. 2002.

American Wood Preservers' Association Committees - T-3 Piles and Ties, T-8 Composites, N-5 Composites Wood Products, S-3 Treated Wood Use, Handling and Disposal/Recycle. 2001 – present.

Special Adviser to State Sen. Romero (D-CA) for Senate Bill – 1393 regarding hazardous wood waste, playground equipment, and arsenical preservatives at Request of AWPI. 2002.

Member of Capital Regional Competitive Strategy Forest Products Cluster. 2002.

Member of Louisiana Department of Economic Development Secondary Wood Products Industry Cluster. 2002.

Chair for the Regional Programs Committee, one of eight new Strategic Issues Standing Committees (SISCs) in the Forest Products Society. 2002-2005.

Grant reviewer – (1) USDA National Research Initiative (NRI) Competitive Grants Program. Improved Utilization of Wood and Wood Fiber, (2) USDA Small Business Innovation Research for Rural and Community Development Competitive Research Grants.

Panel Member. USDA Small Business Innovation Research for Rural and Community Development Competitive Research Grants. 2003, 2004.

Louisiana Forestry Association. Committee member of --- 1997 Sustainable Forestry Initiative (SFI) Committee, 1999 Public Information Committee, 1999 – present Editorial Committee for Forests and People magazine.

Member of Louisiana Commissioner of Agriculture and Forestry task force on subterranean termites. Member of lumber, engineered wood products, and economic impact subcommittees. 1999.

Society of Wood Science and Technology committees. Annual Meeting 2000, Student Poster Judge 2002, Education 1999-2005; Constitution and Bylaws 1998-2001, International Relations 1998-2001, Chair of Education Subcommittee - Financial Support for Student Poster Competition 2000, Publication Policy 2001 – 2004, Critical Issues Committee Member on USDA NRICGP 2004-2005, Accreditation 2005, Member of University of Idaho Accreditation Visit Team 2005.

Session Co-chair and Moderator of “Forest fiber biology, its control with silviculture and the effects on wood-based products.” Biology/Pulp and Paper joint TIG at Forest Products Society/Society of Wood Science and Technology Annual Meeting. June 21, 1998. Mérida, Yucatán, México.

Session Co-Chair of “Is it changing fiber resources or changing resource requirements for the pulp and paper industry?” Pulp and Paper/Biology joint TIG at Forest Products Society Annual Meeting. June 30, 1999. Boise, ID.

Session Chair of “New developments in particleboard, fiberboard, and molded wood products.” Particleboard, fiberboard, and molded wood products TIG at Forest Products Society/Society of Wood Science and Technology Annual Meeting. June 22-25, 2003. Bellevue, WA. Approximate attendees: 30

Manuscript reviewer – Bioresource Technology, Canadian Journal of Forestry Research, Journal of Tropical Forest Products, Forest Products Journal, International Journal of Wood Anatomists, Holzforschung, Forest Ecology and Management, Journal of Applied Polymer Science, Waste Management, Environmental Science and Technology, Wood and Fiber Science, Resources Conservation and Recycling Journal, Biotechnology Progress, Journal of Applied Polymer Science.

Chair of Biology Technical Interest Group. Forest Products Society. 1996 -1999.

Technical session moderator - Wood and fiber structure: New Insights and Techniques. Forest Products Society/Society of Wood Science and Technology Annual Meeting. June 23, 1996. Minneapolis, MN.

3rd Vice Chair of Particleboard, Fiberboard, and Molded Products Technical Interest Group. Forest Products Society. 1998-1999.

2nd Vice Chair of Particleboard, Fiberboard, and Molded Products Technical Interest Group. Forest Products Society. 1999-2000.

5. Other external and community service

See Section 12 of the Extension section.

Extension Activities – Todd F. Shupe, August 1, 2005

1. Documentation of major program areas and initiatives

1. I have led the *Wood Products Extension Program* from 1996-present. A comprehensive and cooperative educational program has been developed to target individuals that are involved in the processing as well as in-service utilization of wood and wood products. The program has targeted Louisiana companies and home owners. However, interested parties from outside Louisiana and the U.S. frequently receive educational information. The major thrust of this program is on value-added wood processing. The first step in adding value to wood is correctly identifying the species of wood. Drying schedules and end-use options of wood are largely governed by the species of wood. Therefore, wood identification workshops have been held and several wood specimens are identified for interested parties each year. Fundamental in adding value to wood is kiln drying. Accordingly, several lumber drying workshops have been held throughout the state in cooperation with the Louisiana Forest Products Development Center, LSU School of Renewable Natural Resources, Louisiana Tech University, University of Kentucky, University of Tennessee, Roy O. Martin Lumber Co., Louisiana Forestry Association, and dry kiln manufacturers. A newsletter that highlights wood-moisture relationships such as lumber drying and wood decay is published quarterly that researches a growing audience of over 3,000 individuals throughout Louisiana and North America. The program also educates wood business owners on sound business practices such as record keeping and marketing. In addition, home-owners are educated on proper end-use utilization of wood and wood products in and around the home, farm, or ranch. The key component of this program is to educate home owners on causes and control of wood-moisture problems.
2. I coordinated the *Continuing Forestry Education (CFE)* program for the Louisiana Cooperative Extension Service (LCES) from 1998-2000. This initiative was developed in response to a need identified by the five areas forestry agents as well as direct input from stake holder groups throughout the state.

For a listing of specific workshops, conferences organized, see section 10 of Research document - Outreach – field days, trade-shows, direct clientele contact.

3. I coordinated the *forestry 4H activities* for LCES from 1996-2001. During this time, I developed the educational program for 4H Summer Camp, recruited program delivery volunteers, established weekly schedules for instructors, and obtained all educational program delivery materials. The camp last for 10 weeks and attracts youth from all over the state with as many as 300-500 youths attending each week. I also was actively involved with the forestry component of 4H short course, now known as 4H University.

2. Advisory process and critical issue responsiveness

The CFE program had an engaged steering committee that met annually following a Louisiana Forestry Association Board Meeting. The Wood Products Extension Program has received advisory input in conjunction with the annual steering committee meeting of the Louisiana Forest Products Development Center.

The development of the CFE program was in response to an identified critical need from stakeholders and field faculty.

The entire Wood Products Extension program is geared at increasing value-added Louisiana. This is a response to a critical issue because Louisiana has continues to lag behind other southern states in terms of value-added wood processing.

3. Innovative teaching methods, knowledge and application of new technology

WebMaster of Extension Natural Resources (ENR) web site.

<http://www.lsuagcenter.enr>

The site contains research-based educational information from campus and field faculty in the Extension Natural Resources Project covering a wide array of topics from urban forestry, wildlife, forest management, and wood products.

WebMaster of Pallet Phytosanitation web site.

<http://www.agctr.lsu.edu/enr/pallelsanitation/index.asp>

The objective of this website is to increase awareness of ISPM 15 for wood packaging phytosanitary requirements for international shipments. In this educational website you will find technical information and new technologies for manufacturers and others involved in manufacturing wood packaging for international shipments. It also provides projects focused on showcasing existing technologies to wood packaging manufacturers and others dealing with phytosanitary compliance issues. This website provides audio of PowerPoint presentations and technical papers in pdf format that summarize various research projects and allows individuals to submit questions that will be sent to the web masters. All questions and answers will ultimately be placed on the web site. All information presented here can also be obtained via a DVD from the web master.

Shupe, T.F. 2005. Iron stain in wood. AgCenter Content Management System (CMS)

4. Program delivery effectiveness demonstrated by evaluation, change, and adoption

A comprehensive survey of workshop attendees in 2002 revealed that the average LCES wood products extension workshop was valued at \$10,000 and approximately 2/3 of attendees were planning business expansions in the form of hiring additional employees or adding additional equipment and/or facilities. Subsequent follow-ups revealed that approximately 1/2 of those originally indicating expansions actually had followed through and completed expansions one year after receiving educational programming. The average value of the workshops was assessed again in 2004. Again, approximately 2/3 of the participants planned business expansions and 60% of those planning expansions had done so one year later.

5. Development and presentation of research-based materials (28)

(Note: extension publications only are listed.)

Shupe, T.F. and R. Bogren. 2005. Recycling preservative-treated wood. LSU AgCenter Fact Sheet. 2 p.

Shupe, T.F. 2005. The Louisiana pulp and paper industry. Request by Gov. Blanco for State of Louisiana.

Shupe, T.F. 2004. Manufacturing extension partnership of Louisiana. Louisiana Forest Products Development Center Newsletter. Spring. p. 11.

- Shupe, T.F.** 2004. Development of high value-added products to reduce forest fuel loading in Louisiana forests. Sponsor report. Louisiana Department of Agriculture and Forestry. 14 p.
- Shupe, T.F.** 2004. Properties of bagasse fiberboard studied. Louisiana Forest Products Development Center Newsletter. Winter. p. 7.
- Shupe, T.F.** 2004. Natural resources symposium set for July. Louisiana Forest Products Development Center Newsletter. Winter. p. 8.
- Shupe, T.F.** 2004. Elder Wood honored at lantern awards ceremony. Louisiana Forest Products Development Center Newsletter. Winter. p. 9.
- Dunn, M.A., **T.F. Shupe**, D. Reed, and H. Dozier. 2003. Extension natural resources our outreach to Louisiana. School of Renewable Natural Resources Newsletter. Spring. pp. 1-2.
- Vlosky, R., **T. Shupe**, Q. Wu, N. DeHoop, M. Gibson, G. Grozdits and R. Smith. 2003. Louisiana Forest Products Development Center: Creating Value for the Wood Products Industry. Louisiana Forest Products Development Center Promotional Brochure. 12 p.
- Dozier, H., M. Dunn, J. Horst, B. LeBlanc, D. Reed, L Shilling, and **T. Shupe**. 2003. An overview of the LSU AgCenter extension natural resources program. Louisiana Forest Products Development Center Newsletter. Fall 2003. p. 4.
- Vlosky, R.P. and **T.F. Shupe**. 2003. Treated wood research series. Louisiana Forest Products Development Center Newsletter. Fall 2003. p. 8.
- Shupe, T.F.**, C. Piao, and C.Y. Hse. 2002. Value-added manufacturing potential for Honduran bamboo. USAID Report. Forest Sector Development in Honduras/ALIANZA. USAID Agreement No. 522-G-00-01-00202-00. 21 p.
- Shupe, T.F.** 2002. Can decommissioned CCA-treated wood be used for structural flakeboard? Louisiana Forest Products Laboratory Newsletter. Spring. p. 5.
- Shupe, T.F.** 2001. Wood preservation with borates – A information packet. Extension Natural Resources. LSU AgCenter.
- Vlosky, R.P., M.A. Dunn, **T.F. Shupe**, P.A. Monroe, D. Ashbaugh-Vlosky, and A. Chavez. 2001. Honduras forest sector strategic prioritization meeting report. Presented to FIDE (Fundacion Para La Inversion Y Desarrollo De Exportaciones). N. Garcia, Exec. Dir. Forest Development Project. Cooperative Agreement No: 522-G-00-01-00202-00. USAID.
- Vlosky, R.P., M.A. Dunn, **T.F. Shupe**, P.A. Monroe, D. Ashbaugh-Vlosky, and A. Chavez. 2001. Informe de la Reunión de priorización estratégica del sector forestal de Honduras. USAID Report.
- Shupe, T.F.** 2001. La Madera su naturaleza y propiedades para la carpintería. Pub. No. 2582. LSU AgCenter. 18 p. (Spanish).
- Shupe, T.F.** 2001. Procesos de secado para evitar defectos en la Madera verde. Pub. No. 2642. LSU AgCenter. 22 p. (Spanish).
- Shupe, T.F.** 2000. Solar lumber drying. Louisiana State University Agricultural Center. Cooperative Extension Service.
- Shupe, T.F.** and B. Odom. Louisiana's primary forest products industries. 1999. Louisiana State University Agricultural Center. Cooperative Extension Service. Pub. No. 2751.
- Shupe, T.F.**, R.H. Mills, D. Ring, L. Hannaman, and K. Whitam. 1998. Causes and control of wood decay, degradation, and stain. Louisiana State University Agricultural Center. Cooperative Extension Service. 26 p.
- Shupe, T.F.** and W.R. Smith. 1998. Woods of Louisiana (revision). O.V, Harding and W.R. Smith (original authors). Louisiana State University Agricultural Center. Cooperative Extension Service and Louisiana Forest Products Laboratory. Pub. No. 2592. 31 p.
- Shupe, T.F.** and R.P. Vlosky. 1998. How and why to market wood products. Louisiana State University Agricultural Center. Cooperative Extension Service. Pub. No. 2702. 10 p.

- Shupe, T.F.** and R.H. Mills. 1997. Seasoning to prevent defects in green wood. Louisiana State University Agricultural Center. Cooperative Extension Service. Pub. No. 2642. 31 p.
- Shupe, T.F.** 1997. Stabilizing and bending of wood for the hobbyist. Louisiana State University Agricultural Center. Cooperative Extension Service. Pub. No. 2643. 11 p.
- Shupe, T.F.** 1997. Glues and gluing wood (revision). O.V. Harding (original author). Louisiana State University Agricultural Center. Cooperative Extension Service. Pub. No. 2587. 15 p.
- Shupe, T.F.** 1997. O.V. Harding (original author). Wood – Its nature and properties for woodworking (revision). Louisiana State University Agricultural Center. Cooperative Extension Service. Pub. No. 2582. 18 p.
- Shupe, T.F.** 1997-present. Louisiana Dry Kiln Club Newsletter. Issued quarterly. Highlights current research efforts and educational workshops on understanding the effect of moisture on wood decay and physical properties. Louisiana State University Agricultural Center. Cooperative Extension Service

6. Publications (print and electronic)

(Also see Section 1 in the Research section.)

Newsletter and Mass Media Articles (39)

- Vlosky, R.P. and **T.F. Shupe**. 2005. Treated wood awareness could help improve market. The Piney Woods Journal 8(8):4-7.
- Shupe, T.F.** 2005. Natural resources symposium reappearing. The Piney Woods Journal. 8(9):18.
- Shupe, T.F.** 2005. Lumber drying workshop set for August at LSU. The Piney Woods Journal. 8(10):22.
- Shupe, T.F.** 2005. Lumber drying workshop in B.R. Aug. 17-19. Forests and People. 55(1):34.
- Shupe, T.F.** 2005. Louisiana natural resources symposium. The Bayou Forester. Louisiana Society of American Foresters Newsletter. 22(1):7.
- Gaston, C., R.P. Vlosky, **T.F. Shupe**, F.X. Aguilar, S.M. Kallioranta, B.N. Donkor. 2005. Attitudes and awareness about treated wood products: The U.S. South homeowner perspective. Louisiana Forest Products Development Center Working Paper #68. April 17.
- Shupe, T.F.** 2005. Lumber drying workshop. SWST Newsletter. March/April. p. 4.
- Shupe, T.F.** 2005. The LSU AgCenter will be hosting the Louisiana Natural Resources Symposium. SWST Newsletter. March/April. p. 4.
- Shupe, T.F.** 2004. Annual meeting minutes. School of Renewable Natural Resources Newsletter. Winter. p. 7.
- Shupe, T.F.** 2004. School and alumni look together toward future. School of Renewable Natural Resources Newsletter. Winter. p. 7.
- Shupe, T.F.** 2004. Norwin Linnartz memorial scholarship. School of Renewable Natural Resources Newsletter. Winter. p. 4.
- Shupe, T.F.** 2004. Wood products 4H module for 4th – 8th grade. Louisiana Cooperative Extension Service. 4 p.
- Shupe, T.F.** 2004. Linnartz scholarship awarded at LSU. Forests and People. 54(3):28.
- Shupe, T.F.** 2004. School to offer lumber workshops in May. School of Renewable Natural Resources Newsletter. Winter. p. 8.
- Shupe, T.F.** 2004. LSU AgCenter offers lumber workshops. Southern Lumberman. 265(4):8-9.
- Shupe, T.F.** 2004. Wood handling conferences at Pollock Center. Piney Woods Journal. 7(11):23.
- Shupe, T.F.** 2004. Manufacturing extension partnership of Louisiana. Louisiana Forest Products Development Center Newsletter. Spring. p. 11.

- Shupe, T.F.** 2004. Linnartz scholarship endowed. LFA News. 19(4):2. Louisiana Forestry Association.
- Shupe, T.F.** 2004. Choong lecture series Oct. 22. LFA News. 19(4):2. Louisiana Forestry Association.
- Shupe, T.F.** 2004. Properties of bagasse fiberboard studied. Louisiana Forest Products Development Center Newsletter. Winter. p. 7.
- Shupe, T.F.** 2004. Natural resources symposium set for July. Louisiana Forest Products Development Center Newsletter. Winter. p. 8.
- Shupe, T.F.** 2004. First memorial lecture features first grad student. Louisiana Forest Products Development Center Newsletter. Winter. p. 9.
- Shupe, T.F.** 2004. Elder Wood honored at lantern awards ceremony. Louisiana Forest Products Development Center Newsletter. Winter. p. 9.
- Shupe, T.F.** 2004. Norwin Linnartz memorial scholarship funded. School of Renewable Natural Resources Newsletter. Winter. p. 9.
- Shupe, T.F.** 2004. Chung Hse receives forest service chief's honor award. School of Renewable Natural Resources Newsletter. Winter. p. 11.
- Dunn, M.A., **T.F. Shupe**, D. Reed, and H. Dozier. 2003. Extension natural resources our outreach to Louisiana. School of Renewable Natural Resources Newsletter. Spring. pp. 1-2.
- Vlosky, R., **T. Shupe**, Q. Wu, N. DeHoop, M. Gibson, G. Grozdits and R. Smith. 2003. Louisiana Forest Products Development Center: Creating Value for the Wood Products Industry. Louisiana Forest Products Development Center Promotional Brochure. 12 p.
- Shupe, T.F.** 2003. LFPDC has first and second place wood award winners. Louisiana Forest Products Development Center Newsletter. Fall 2003. p. 1.
- Shupe, T.F.** 2003. Wood products extension programming. Louisiana Forest Products Development Center Newsletter. Fall 2003. p. 2.
- Shupe, T.F.** 2003. LSU AgCenter to offer three lumber workshops. Louisiana Forest Products Development Center Newsletter. Fall 2003. p. 3.
- Shupe, T.F.** 2003. RNR has wood award winners. School of Renewable Natural Resources Newsletter. Spring. p. 6.
- Dozier, H., M. Dunn, J. Horst, B. LeBlanc, D. Reed, L Shilling, and **T. Shupe**. 2003. An overview of the LSU AgCenter extension natural resources program. Louisiana Forest Products Development Center Newsletter. Fall 2003. p. 4.
- Vlosky, R.P. and **T.F. Shupe**. 2003. Treated wood research series. Louisiana Forest Products Development Center Newsletter. Fall 2003. p. 8.
- Shupe, T.F.** 2002. Can decommissioned CCA-treated wood be used for structural flakeboard? Louisiana Forest Products Laboratory Newsletter. Spring. p. 5.
- Shupe, T.F.** 2002. The use of near infrared spectra to predict longleaf pine wood and genetic properties. Louisiana Forest Products Laboratory Newsletter. October. Fall. p. 3.
- Shupe, T.F.** 2002. Update on Choong lecture series. Louisiana Forest Products Laboratory Newsletter. October. Fall. p. 8.
- Shupe, T.F.** 2002. Elvin Choong lecture series update. Fall. p. 2.
- Shupe, T.F.** 1999. Worked with 4-H Division to revise 4-H Forestry and Forest Products Junior and Senior Work Books.

7. Mass media

LSU AgCenter Communications News Releases (29)

Date	Title - 2005
02/01/05	LSU AgCenter To Host Lumber Drying Workshop
07/01/05	Lumber Drying Workshop Set For Aug. 17-19
06/27/05	Natural Resources Symposium Set For July 18-20 In Baton Rouge
05/25/05	LSU AgCenter Recycling Could Keep Treated Wood Out Of Landfills
7/21/05	Experts Say Forest Management Requires Environmental Component
9/13/05	Forestry Experts Say Katrina Losses Exceed \$600 Million
Date	Title - 2004
05/19/04	Seminar Participants Told Lumber Drying Adds Value To The Project
Date	Title - 2003
09/18/03	LSU AgCenter Offers Lumber Drying Workshops
01/22/03	Workshop To Focus On Competitive Advantage In Wood Products Business
09/18/03	LSU AgCenter Offers Wood-related Workshops
Date	Title - 2002
09/25/02	LSU AgCenter Announces Workshop for Wood Products Businesses
09/25/02	Treated Lumber to Highlight Meeting, Says LSU AgCenter Forest Products Professor
02/01/02	LSU AgCenter Forester Announces Lumber Drying Workshop
Date	Title - 2000
1/20/2000	Lumber Drying Workshop Set for March 1-3
7/20/2000	Advanced Hardwood Lumber Drying, Solar Wood Drying Topics of Workshops
8/10/2000	LSU AgCenter to Offer Series of Educational Programs on Hardwood Management
4/13/2000	Building Homes to Resist Termites To Be Topic of Two-day Conference
Date	Title - 1999
1/14/1999	Drying lumber for quality, profit workshop scheduled for Feb. 24-26 in Baton Rouge
Date	Title - 1998
2/5/1998	Improving wood utilization focus of workshop
4/9/1998	LSU Ag Center offers course on computer applications in forestry
9/10/1998	Ag Center offers course on leadership skills
4/16/1998	LSU Ag Center to sponsor workshop on forested wetlands management
2/5/1998	Global positioning systems can be used in forestry
8/20/1998	LSU Ag Center sponsors wood products workshop Nov. 19 in Ruston
8/6/1998	Understanding lumber grade marks helps you make proper selection
Date	Title - 1997
5/22/1997	Wood ID Workshop Registration Under Way
7/17/1997	Learn to Identify Woods at Aug. 7-8 Workshop
12/11/1997	LSU Ag Center to Host Lumber Drying Workshop

Date	Title - 2005
5/29/1997	Club Expected to Increase Lumber Drying in State
11/6/1997	Extension Service Schedules Workshop on Improving Utilization of Wood

Web Page Development and Maintenance (2)

- WebMaster of Extension Natural Resources (ENR) web site. <http://www.lsuagcenter.enr>
- WebMaster of Pallet Phytosanitation web site.
<http://www.agctr.lsu.edu/enr/palletsanitation/index.asp>

8. Cooperation/collaboration with other faculty

The Wood Products, CFE, and 4H program have all been developed and implemented with assistance of field faculty (area forestry agents and county agents) in LCES. The Wood Products program enjoys a close relationship with faculty in the Louisiana Forest Products Development Center at LSU and Louisiana Tech. The CFE program utilized numerous faculty members from the LSU School of Renewable Natural Resources as instructors. For example, I organized a meeting with LCES field faculty on August 17, 2004 at 4H Camp Grant Walker in Pollock, La to develop plan for 4H agents to attract Forest Service funds for local programming. I have successfully recruited industry, government, NGOs, etc. to participate in 4H forestry program delivery. Feedback from youths and volunteers has been very positive.

9. External funding, material support and grants (\$150,550)

(Note – Extension related only is listed. Research grants are listed under Section 7 of Research section)

- Shupe, T.F.** 2005. Louisiana natural resources symposium sponsorship. Louisiana SAF. Status: approved. \$300.
- Shupe, T.F.** 2005. Louisiana natural resources symposium sponsorship. Louisiana Forestry Association. Status: approved. \$300.
- Shupe, T.F.** 2005. Louisiana natural resources symposium sponsorship. Boise Cascade. Status: approved. \$500.
- Shupe, T.F.** 2005. Louisiana natural resources symposium sponsorship. Southern Regional Extension Forester. Status: approved. \$2,500.
- Shupe, T.F.** 2005. Louisiana natural resources symposium sponsorship. The Nature Conservancy. Status: approved. \$500.
- Shupe, T.F.** 2005. Louisiana natural resources symposium sponsorship. Louisiana Cooperative Extension Service. Status: approved. \$1,000.
- Shupe, T.F.** 2005. Louisiana natural resources symposium sponsorship. The LSU School of Renewable Natural Resources. Status: approved. \$3,000.
- Shupe, T.F.** 2005. Louisiana natural resources symposium sponsorship. The USDA Forest Service, Southern Research Station. Status: approved. \$5,000.
- Shupe, T.F.** and R.P. Vlosky. 2005. Wood products research gift. Martha Abshire. \$1,500.
- Shupe, T.F.**, W.R. Smith, and R.P. Vlosky. 2004. A regional educational program to increase awareness of wood packaging phytosanitary requirements for international trade. USDA Forest Service Wood Education and Resource Center and Limestone Bluffs RC&D, Inc. \$45,000.

- Shupe, T.F.** and R.P. Vlosky. 2003. Market potential for high value-added products manufactured from forest fuels from Louisiana forests. USDA RREA. \$6,000.
- Smith, W.R., **T.F. Shupe**, and Q. Wu. 2003. Lumber drying audit and workshop. Roy O. Martin Corp. \$5,000.
- Shupe, T.F.** and R.P. Vlosky. 2003. Market potential for high value-added products manufactured from forest fuels from Louisiana forests. USDA RREA. \$6,000.
- Smith, W.R., **T.F. Shupe**, and Q. Wu. 2003. Lumber drying audit and workshop. Roy O. Martin Corp. \$5,000.
- Shupe, T.F.** and R.P. Vlosky. 2002. Wood products industry issues – Gaining the competitive advantage. Capitol Resources Conservation and Development Council. Status: approved. \$1,500.
- Shupe, T.F.** and R.P. Vlosky. 2002. Wood products industry issues – Gaining the competitive advantage. Capitol Resources Conservation and Development Council. Status: approved. \$1,500.
- Dunn, M.A. and **T.F. Shupe**. 2001. Establishing a holistic wood species reference site for the internet. Capital Resource Conservation and Development, U.S.D.A. Status: accepted. \$2,000.
- Shupe, T.F.** and R.P. Vlosky. 2000. Consumer attitudes and preferences for home building methods as related to livability. USDA CSREES RREA. \$6,500.
- Dunn, M.A., **T.F. Shupe**, and R.P. Vlosky. 1999. Characterization of the southern pallet industry. USDA CSREES RREA. \$5,000.
- Shupe, T.F.** 1999. Extension forest products donation. Albemarle Corporation. Baton Rouge, LA. \$500.
- Shupe, T.F.** 1999. Donation to Extension Forestry Donors Account. Albemarle Corporation. Baton Rouge, LA. \$500.
- Shupe, T.F.** and Q. Wu. 1999. Moisture meter correction factors for several southern hardwood species. In kind contribution of lumber and labor. Fred Netterville Lumber Co., Woodville, MS and Marionneaux Lumber Co., Inc., Livonia, LA. \$5,000.
- Shupe, T.F.** 1996-present. Wood products workshops. Industry and individual sources. \$20,150.
- Shupe, T.F.** 1996-present Continuing forestry education workshops and symposia. Industry, government agencies, and individual sources. \$26,800.

Pending (\$251,320)

- Vlosky, R.P. and **T.F. Shupe**. 2005. Forest Sector Development in Nicaragua. USAID. Status: pending. \$251,320.

Grants/contracts participant (\$422,000)

- Choong, E.T. and **T. Shupe** (preproposal authors). Forestry/forest development: Educational program towards a sustainable forest products industry in Honduras. Preproposal authored. LSU AgCenter International Programs. 2000-2001. USAID. Status: approved. \$422,000. Agreement No. 522-G-00-01-00202-00.

10. Refereed journal articles

(See Section 1 of Research section)

11. Presentations at professional and clientele targeted conferences

Also, see following sections in the Research section: Published Abstracts under Section 3, Invited Presentations under Section 4, and Public Seminars and Lectures under Section 10.

12. Participation in and leadership of professional organizations/committees

(Also see Section 4 Professional Service under Service Activities of Research document, p. 35.)

Membership in professional societies and honorary fraternities

- American Society for the Advancement of Science*
- American Wood Preservers' Association*
- Alpha Lambda Delta
- Alpha Zeta
- Association of Natural Resources Extension Professionals*
- Forest Products Society*
- Gamma Sigma Delta*
- Golden Key
- International Association of Wood Anatomists*
- International Network of Bamboo and Rattan*
- International Research Group on Wood Preservation*
- International Society of Tropical Foresters*
- International Union of Forest Research Organizations*
- Japan Wood Research Society*
- Louisiana Forestry Association*
- National Association of County Agricultural Agents*
- Phi Kappa Phi*
- Phi Eta Sigma
- Renewables Council of Louisiana*
- Sigma Xi*
- Society of American Foresters*
- Society of Wood Science and Technology*
- Southern Pressure Treaters Association*
- Structural Board Association*
- Technical Association of Paper and Pulp Industry*
- Xi Sigma Pi*

*Denotes currently an active member.

13. Continued coursework, in-service training, sabbaticals, professional improvement

- Extension Education 7122 (1 hr.) - Program Development. Fall, 2000.
- Professional improvement is obtained by active participation in many of the professional societies and organizations listed above. I also attend local, regional, national, and international meetings and conferences to present my extension and research findings and interact and learn from others as well.
- Leadership Development for the Louisiana Cooperative Extension Service. November 20, 2000. Efferson Hall. Baton Rouge, LA
- Leadership Development. March 23, 2001. Plaquemine, LA. LSU AgCenter.
- January 26, 2001. Strategic Planning/Group Dynamics Facilitator Workshop. Lod Cook Alumni Center. Baton Rouge, LA

14. Participation in public policy and community issues

The majority of my participation in public policy and community issues has been related to preservative-treated wood recycling and consumer perceptions. Specific examples are as follows.

- Appeared before Louisiana Senate Agriculture, Forestry, Aquaculture, and Rural Development Committee to discuss treated wood recycling. June 7, 2005.
- Environmental and Regulatory Session Moderator. 2004. “Forestry: 2004 and Beyond” Forest Sector Summit and Issues Prioritization Forum. Hosted by the Louisiana Forestry Association. February 4, 2004. Alexandria, LA.
- Vlosky, R.P. and T.F. Shupe. 2002. Perceptions of consumers of treated wood products. Louisiana Forestry Association Board Meeting. February 5, Alexandria, LA.
- LaFete Committee 1999, 2004. Participated in LaFete at State Capitol to educate state legislators on the value of the LSU AgCenter, SFWF, and natural resources to the State.
- Special Adviser to State Sen. Romero (D-CA) for Senate Bill – 1393 regarding hazardous wood waste, playground equipment, and arsenical preservatives at Request of AWPI. 2002.
- Member of Louisiana Commissioner of Agriculture and Forestry task force on subterranean termites. Member of lumber, engineered wood products, and economic impact subcommittees. 1999.
- Louisiana Forestry Association. Committee member of --- 1997 Sustainable Forestry Initiative (SFI) Committee, 1999 Public Information Committee, 1999 – present Editorial Committee for Forests and People magazine.

15. Awards and recognition

See Section 6 of Research section.

16. Multi-institution, agency, and state collaboration

The Wood Products Extension Program and CFE Program have cooperated with several other institutions, agencies, and state agencies to deliver educational materials. Some of the more frequent cooperators are listed below.

Institutions	Federal Agencies	State agencies	NGO
LSU School of RNR	USDA FS	LDAF	La Forestry Assoc.
Louisiana Tech	US EPA	LDWF	La Logging Council
Louisiana Forest Products Dev. Ctr.	USDA RC&D	DED	La Society of American Foresters
Mississippi State Univ.	US DOE	LDEQ	Natchitoches Forestry Assoc., Inc.
Univ. of Tennessee	USDA Forest Products Lab	LA Dept. of Insurance	Louisiana Furnishings Industry Association
Univ. of Kentucky		Louisiana Work Force Commission	Southern Loggers Cooperative
Northwestern Louisiana Univ., Small Business Dev. Ctr.		Louisiana Department of Labor	WoodLinks
Southeastern Louisiana Univ., Small Business			

Dev. Ctr.			
Louisiana Technical College, Oakdale, La.			
Jones County Junior College, Ellisville, Miss.			
Louisiana Small Business Development Center, Thibodaux, La			

17. Other scholarly or creative activities or other contributions to the profession

See Service Activities in Research document.

- Assisted with the establishment and expansion of numerous portable and stationary sawmill companies, value-adding secondary firms, and small dry kiln operators.
- Visited over 300 primary and secondary forest products companies in Louisiana.
- Reached scores of homeowners through on-site visits, personal communication, and other forms of communication.
- I have been called upon to assist in the pre-promotion and tenure evaluation of a majority Extension faculty member in the SRNR. 2005.

Service Activities

See Service Activities in Research section.