

2010 Fellow Award



Audrey Zink-Sharp

Professor and Interim Department Head
Wood Science and Forest Products Department
College of Natural Resources and Environment
Virginia Tech
Blacksburg, Virginia

EDUCATION

Ph.D., 1992 Wood Products Engineering, State University of New York, Syracuse, NY
M.S., 1986 Wood Anatomy, Colorado State University, Fort Collins, CO
B.S., 1984 Forest and Wood Science, Colorado State University, Fort Collins, CO

PROFESSIONAL APPOINTMENTS

2009-present Interim Dept. Head, Wood Science and Forest Products, Virginia Tech
2008-2009 Associate Dept. Head
2006-2008 Assistant Dept. Head
2005-present Director, Sustainable Engineered Materials Institute
2005-present Professor
1998-2005 Associate Professor
1992-1998 Assistant Professor

CLASSES AND WORKSHOPS

- Wood 5224 Quantitative Wood Anatomy
- Wood 5414 Advanced Wood Chemistry and Structure
- Wood 3234 Wood Identification and Properties
- Wood 2124 Wood Structure and Properties
- Louisiana-Pacific Short Course: Understanding Wood. Jan. 8–10, 2007 Franklin, TN.
- Weyerhaeuser Short Course: Understanding Wood. Aug. 1 – 4, 2006 Boise, Idaho.
- Plywood: Manufacture, Properties, & Uses. November 1997. Conservation Analytical Laboratory, Smithsonian Institute, Clinton, Maryland.
- Wood Identification. January 1998. National Park Service, Historic Preservation and Restoration Agency, Frederick, Maryland.

STUDENT AND POSTDOCTORAL ADVISING

Postdoctoral associates: 3, PhD: 4, M.S.:8

RESEARCH INTERESTS

Quantitative wood anatomy, video microscopy for strain measurement, micro-mechanics

PUBLICATIONS, PRESENTATIONS, CONFERENCES, and RESEARCH FUNDING

Invited Book Chapters:

- Renneckar, S., A. Zink-Sharp, A. Esker, and W.G. Glasser. 2006. Novel Methods for Interfacial Modification of Cellulose Reinforced Composites. In: Cellulose Nanocomposites: K. Oksman and M. Sain, Eds. ACS Symposium Series. Washington, DC.
- Zink-Sharp, A. 2004. Wood Formation and Properties. Chapter 37, Encyclopedia of Forest Sciences. Academic Press, London. pgs. 1806-1815.
- Zink-Sharp, A. 2003. Mechanical Properties of Wood. Chapter 8, Wood Quality and its Biological Basis. Blackwell Publishing, Oxfordshire, UK. pgs. 197-209.

Peer-reviewed Publications: 52 in 14 different journals

Research and Conference Presentations: 54

Books edited: 4

Grants and Awards: 23 totaling \$5,334,467

PROFESSIONAL ACTIVITIES

- Associate Editor, Wood and Fiber Science, 2005-2007
- Developed SWST Teaching Units 1 and 2, SWST, 2003
- Vice President, President-Elect, President, and Past President, Society of Wood Science and Technology, 2002-2006; Executive Board Member, SWST 1997-1999
- United States Delegate to European Society of Wood Mechanics, 2001-2006
- President, Association of Women in Science, Virginia Chapter, 1996-1998
- Chair, Wood & Wood-based Composites Subdivision, Society of Experimental Mechanics, 1996-1997
- Chair, Student Poster Competition, SWST, 1996 and 1997; Chair, Education Committee, SWST, 1995-1997, 1998-1999; Vice Chair, SWST Education Committee, 1994-1995
- Member, International Association of Wood Anatomists 1999-present
- Member, Forest Products Society 1986 – present
- Member, SWST 1982 – present

HONORS AND AWARDS

- 2009, Fellow, International Academy of Wood Science
- 2004, College of Natural Resources Award for Outreach Excellence, Virginia Tech
- 1998 with John Stelmokas and Joe Loferski, George Marra Award, SWST
- Forest Products Curriculum Club Outstanding Faculty award 1997, 1996, 1995, 1994