

AF&PA®



1111 19th Street NW, Suite 800
Washington, DC 20036

Wood Seminar

May 22, 2002

~Offered by~
AF&PA's
American Wood Council

- AWC staff will present a day-long seminar Wednesday, 5/22/2002. Morning sessions will focus on the technical NDS and LRFD methodologies. The afternoon sessions are designed for architects and will educate on the *Wood Frame Construction Manual*, permanence, connections, and latest software development
- Members of the AWCTechnology Transfer staff has developed and will present the educational sessions.
- The seminar will be held in AWC's Leesburg, VA office, with registration limited to 10.
- It's an opportunity to meet AWC staff members and collaborate with wood design professionals

Wednesday May 22, 2002 Morning Session

9:00 AM – 12:00 Noon

- *Designing with National Design Specification \hat{a} (NDS \hat{a}) for Wood Construction*. The NDS® is accepted in all building codes throughout the U.S., and is a standard of practice for structural lumber, glued-laminated lumber, timber piles and structural connections. Seminar topics include: lumber design values, finger-joined lumber, beam and column design, and connection design.
- *The Load & Resistance Factor Design Manual for Engineered Wood Construction (LRFD)* is published by AF&PA and contains the nationally recognized alternate design procedure to allowable stress design as incorporated in the NDS. Seminar topics include: similarities and differences with respect to ASD, design values, behavioral equations, example problems and case studies.

12 Noon – 1PM

- Lunch Break

Wednesday May 22, 2002 Afternoon Session

1:00 PM – 5:00 PM

- Provisions for designing wood frame structures for high wind, seismic, and snow loads based on the *Wood Frame Construction Manual (WFCM) for One- and Two-Family Dwellings*, 1995 edition, with an intro to 2001 edition of *WFCM*.
- Introduction to family of **engineered wood products (EWPs)**. Unique design characteristics of, and examples provided for lumber, glued laminated

timber (glulam), laminated veneer lumber (LVL), wood I-joists, plywood and oriented strand board (OSB). Standards that provide basis for manufacture and development of design stresses for each are discussed.

- A session on **wood connection design** philosophy, behavior, serviceability issues, and connections design techniques for small and large members, panel products, and wood assemblies. Glued connections are explained as well as introduction to connection design software.
- **Designing for Permanence**
Presentations on construction techniques that prevent moisture from entering a wood-framed structure. Topics covered are code-required clearances, site drainage, correct placement of moisture barriers, moisture treated wood, and tips on preventing moisture-related insect and fungal problems.
- **WoodWorks â Software for Wood Design, Part 1:** A seminar designed to use the WoodWorks Sizer module, a component of WoodWorks® software. The Sizer module is used for designing wood structural members to resist gravity loads. Topics covered: design of individual beams and columns, and load transfer from upper to lower stories. Full working design examples are provided.
- **WoodWorks â Software for Wood Design, Part 2:** Demonstrations on use of the WoodWorks' Shearwalls and Connections modules. This module is used for designing lateral loads and the seminar teaches how to determine hold down, sheathing and nailing requirements for shear walls. Design examples include single and double shear wood to wood, wood to steel and wood to concrete connections.



AWC Technology Staff

Robert J. Taylor, PhD, P.Eng.

Dir. Technology Transfer

Dr. Taylor is Director, Technology Transfer, joined AF&PA from his position as Professor of Structures at the School of Architecture, Montana State University, Bozeman. He holds degrees from Ryerson Polytechnical University, Queen's University, and the University of British Columbia, Canada. A licensed professional engineer in his native Canada, he has accumulated over 25 years of experience in academia, industry, and government in highway and building design, consulting, forensics, research, teaching, and administrative capacities.

John "Buddy" Showalter, P.E.

Dir. Technical Media

John "Buddy" Showalter joined the American Forest & Paper Association staff in 1992 and was previously with Truss Plate Institute. He serves as Director of Technical Media for the American Wood Council (AWC). Mr. Showalter holds a B.S. in Agricultural Engineering from Virginia Tech. Responsibilities at AWC include development of design tools: the new *Allowable Stress Design (ASD) Manual for Engineered Wood Construction*, which includes the *National Design Specification® for Wood Construction (NDS®)*; the *Load and Resistance Factor Design (LRFD) Manual for Engineered Wood Construction*; and *WoodWorks® Design Office 2000*.

Seminar Details

Fee

50.00

*Includes teaching tools and lunch

Registration is limited to 10 with deadline for registering May 13, 2002. Directions to office as well as a list of area motels will be provided with registration packets. Parking is available in office lot.

Questions?

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