



# Wood Solutions Fair



**A one day  
educational  
event on  
wood  
products and  
construction**

**November 13, 2001**

Long Beach Convention Center

# Southern California



## Why you

### Should Attend:

- A full range of seminars dedicated to wood products and the wood construction industry will be presented
- Learn about the newest trends in wood construction
- Discover a full range of wood products and related products at the trade show
- Consult with industry experts
- Professional development certificates and AIA CES forms will be available to professionals for their continuing education program.

## Who

### Should Attend:

- Architects
- Building Designers
- Builders
- Building Officials
- Construction Technologists
- Engineers – Structural and Civil
- Specifiers
- Students / Professors



For seven years, the Wood Solutions Fair Sponsors have brought together wood product manufacturers, suppliers, builders, engineers, architects, designers, specifiers, building officials, and industry professionals in an event-filled day of educational seminars combined with a trade show.

The Wood Solutions Fair focuses on wood products and their use in construction.

New trends, technical information and resources are all available through the trade show and seminars. Industry experts and suppliers are always on hand and available to answer your questions.

We invite you to join us for this educational day and trust that you will take from it valuable information that will help your future wood related construction projects!

**Sincerely,  
your Wood Solutions Fair Sponsors**

## Gold Sponsors

AF&PA®



AMERICAN  
WOOD  
COUNCIL

A P A

The Engineered Wood Association

Canadian  
Wood  
Council

Conseil  
canadien  
du bois



SOUTHERN  
PINE  
COUNCIL

WOOD PROMOTION NETWORK



Wood Truss Council  
of America

## Silver Sponsors



TECO  
TESTED®



WOOD PROTECTION

# Seminars

## Seminars

November 13, 2001

### Architectural...

#### Architecture and Wood

Presented by: **Mark McInturff**, FAIA, *McInturff Architects, Bethesda, MD*

This seminar begins with a brief overview of the use of wood as a major material in the history of American architecture and goes on to illustrate the importance of wood in the contemporary architecture of this award winning firm. Wood as material for structure, surface and detail will all be illustrated.

#### The Wood Design Awards – The Winning Projects of 2001

Presented by: **Don Griffiths**, Editor, *Wood Design and Building and Coordinator of the Wood Design Awards*

The sixteen winning projects of The Wood Design Awards represent some of the best work among U.S. and Canadian architects. Chosen from a total of 314 submissions, the winning projects cover a large variety of building types, all selected by a distinguished jury for their architectural design excellence. Don't miss this rare chance to see a complete slide presentation on these inspiring projects.

### Design & Construction...

#### Building Codes & Wood Design

Presented by: **David P. Tyree, P.E., C.B.O.** *Southwest Regional Manager AF&PA/AWC*

This presentation consists of a discussion of building code requirements for wood-frame buildings including fire resistance issues like flame spread performance, component additive method, one-hour rated fire walls, and heavy timber fire resistance calculations. Other topics, including finger-joined lumber and height and area requirements will be discussed.

# A great event for professional development!

Engineer, Chicago



## Designing with the National Design Specification (NDS) for Wood Construction

Presented by: **Robert Taylor**,  
*Director Technology Transfer,*  
*AF&PA / American Wood Council*

The NDS® for wood construction is the nationally recognized standard of practice for structural lumber, glued-laminated lumber, timber piles and structural connections. This standard is accepted in all building codes throughout the United States. Some of the topics covered in this seminar are: lumber design values including in-grade testing, finger-joined lumber, beam and column design, connection design, and a discussion on the new provisions found in the 1997 edition of the NDS®.

## LRFD for Engineered Wood Construction

Presented by: **Robert Taylor**, *Director Technology Transfer,*  
*AF&PA / American Wood Council*

The Load and Resistance Factor Design Manual for Engineered Wood Construction, published by AF&PA contains the nationally recognized alternate design procedure to allowable stress design (ASD) as incorporated in the NDS®. Topics covered in this seminar include: similarities and differences with respect to ASD, design values, behavioral equations, example problems and case studies.

## Design of Wood Structures to Resist Lateral Loads

Presented by: **Jennifer Cover**, *Engineered Wood Specialist, P.E.,*  
*APA-The Engineered Wood Association*

This presentation consists of a basic discussion of the lateral load path and how these loads are transferred through a wood frame building during a high wind or seismic event. Emphasis will be on the use of structural wood panels in diaphragms and shear walls. Problem areas, and variables affecting shear wall and diaphragm capacities such as choice of fasteners, fastener sizes and spacing, and panel thickness will be examined. Also reviewed will be the design of perforated shear walls using the new IBC provisions.

## Designing with Wood Trusses

Presented by: **Kirk Grundahl**, *P.E., Executive Director,*  
*Wood Truss Council of America*

This presentation is an overview of the current issues facing wood truss construction. Topics covered include: manufacturing, design, engineering standards, quality control procedures, field installation process, design responsibilities and imaginative applications.

## Engineered Wood Products

Presented by: **Tom Williamson**, *P.E., Technical Director of*  
*APA-The Engineered Wood Association on behalf of APA, AF&PA,*  
*CWC, SFPA, WPN, WTCA*

The seminar participants are introduced to the ever-growing family of engineered wood products (EWP's).

Products covered are lumber, glued laminated timber (glulam), laminated veneer lumber (LVL), wood I-joists, plywood and oriented strand board. The standards that form the basis for the manufacture and the development of design stresses for each product are discussed. Unique design characteristics for each product are highlighted and extensive examples of the use of these products in a wide range of building applications are presented.

## Lifetime Framing – Designing for Permanence

Presented by: **Cathy Kaake**, *Director, Engineered & Framing Markets,*  
*Southern Forest Products Association*

An interactive and practical seminar detailing construction techniques preventing moisture from entering a wood framed structure, including: a discussion of code required clearances, site drainage, correct placement of moisture barriers, remedies for improper design, preservatively treated wood, grading issues, tips on preventing moisture related insect and fungal attack.

## What's Shakin' in Wood Seismic Issues

Presented by: *A panel of industry professionals featuring a prominent building code official; a representative of the applied research community; practicing design and building forensic professionals.*

A lively discussion forum on current seismic issues. Hear the latest on lateral resisting design and performance provisions for wood framed buildings subjected to seismic forces from a number of different perspectives. Bring your questions.

## Design Software...

### WoodWorks® Design Office – Part 1

Presented by: **Phil Trott**, *Project Engineer and Electronic Communications,*  
*Canadian Wood Council*

This seminar illustrates the use of the WoodWorks® Sizer module, a component of WoodWorks® Design Office software. WoodWorks® Sizer is used for designing wood structural members to resist gravity loads. Topics covered during this session include design of individual beams and columns as well as load transfer from upper to lower stories. Participants are shown full working design examples including a two-story post and beam structure. Although this is an introductory session, registrants may choose to download a free trial version of the software from [www.woodworks-software.com](http://www.woodworks-software.com) to familiarize themselves with its functionality and interface prior to attending the seminar. Note that shearwall and connection design is covered in the afternoon session.

# Directions

## WoodWorks® Design Office – Part 2

Presented by: **Phil Trott**, *Project Engineer and Electronic Communications, Canadian Wood Council*

This seminar illustrates the use of the WoodWorks® Shearwalls and Connections modules, components of WoodWorks® Design Office software. WoodWorks® Shearwalls is used for designing for lateral loads. The seminar will demonstrate how to determine holddown, sheathing and nailing requirements for shearwalls applying either a rigid or flexible diaphragm analysis method. WoodWorks® Connections is used to specify bolts, nails, shearplates and hangers. Design examples include single and double shear wood to wood, wood to steel and wood to concrete connections.

## APA Electronic Design Aids

Presented by: **Tom Williamson, P.E.**, *Technical Director of APA-The Engineered Wood Association*

This session will present educational and design information available from APA in electronic format. This will include an overview of an interactive self-education CD-ROM on engineered wood products. APA has also been actively involved in the development of computer software design aids. One of these, a Windows-based Beam and Column design program called WOODCAD will be demonstrated. APA has also developed a CD-ROM with CAD compatible detailing for engineered wood framing and this will also be demonstrated.

## Exterior Finishes...

### Paints & Coatings for Wood Products

Presented by: **William C. Feist**, *Information Specialist, Exterior Wood Finishing and Weathering, Forest Products Laboratory*

This seminar demonstrates the variety of finishes that are applied to exterior wood surfaces (stains, paints, primers, and solid-color stains). Emphasis is on the degree of protection and advantages or disadvantages of the finishes. Typical problems using wood finishes will be reviewed and solutions discussed for common failure problems. The role of paint composition and the difference between oil and latex finishes will be described. Information on wood weathering effects and paint degradation due to sun, water and chemicals will be presented. Information on the role and importance of VOC's will also be presented.



## Directions to the Long Beach Convention & Entertainment Center

300 East Ocean Boulevard  
Long Beach, California 90802  
Tel: 562-436-3636

### From Los Angeles International Airport:

- Take San Diego Freeway (405) South to Long Beach Freeway (710).
- Go South on Long Beach Freeway to Downtown Exits (710 then becomes Shoreline Drive).
- Follow Shoreline Drive to Linden into the parking lot.

### From Long Beach Airport:

- Take Lakewood Boulevard South to Willow Street.
- Go West on Willow to Cherry Avenue.
- Go South on Cherry to Ocean Boulevard.
- Go West on Ocean to Shoreline Drive.
- Follow Shoreline Drive West to the Convention Center.

### From the John Wayne (Orange County) Airport:

- Take San Diego Freeway (405) North to the Long Beach Freeway (710).
- Go South on Long Beach Freeway to Downtown Exits.
- Follow access road to Shoreline Drive.
- Go East on Shoreline Drive to the Convention Center

### From Southern Orange County:

- Take the Santa Ana Freeway (5) North to the Sand Diego Freeway (405).
- Take the 405 North to 7th Street.
- Go West on 7th to Alamitos Avenue.
- Go South on Alamitos. As you cross Ocean Boulevard, Alamitos turns into Shoreline Drive.
- Follow Shoreline Drive to the Convention Center.

**Excellent opportunity to obtain new information on wood construction methods and materials.**

L. W. Smith  
Building Official, Village of Huntley

**From North Orange County and the Valleys:**

- San Gabriel & Pomona Valleys take the Orange Freeway (57) or San Gabriel River Freeway (605) to Riverside Freeway (91) to Long Beach Freeway (710).
- Go South on 710 to Downtown Exits.
- Follow access road to Shoreline Drive.
- Go East on Shoreline Drive to the Convention Center.



**Parking**  
\$7.00 Daily.



# Southern California Fair Schedule

7:30 a.m.

## Registration – Concourse Level

7:45 a.m.–3:45 p.m.

## Exhibit Hall – Ballroom Level

8:30–9:30 a.m.

### Seminars – Session #1

Room 103 ABC	Room 104 A	Room 104 B	Room 104 C
<p><b>The Wood Design Awards – The Winning Projects of 2001</b></p> <p>By Don Griffiths, <i>Editor, Wood Design and Building and Coordinator of the Wood Design Awards</i></p>	<p><b>Building Codes &amp; Wood Design</b></p> <p>By David P. Tyree, <i>P.E., C.B.O. AF&amp;PA/AWC Southwest Regional Manager</i></p>	<p><b>Designing with Wood Trusses</b></p> <p>By Kirk Grundahl, <i>P.E., Executive Director, Wood Truss Council of America</i></p>	<p><b>APA Electronic Design Aids</b></p> <p>By Tom Williamson, <i>P.E., Technical Director of APA-The Engineered Wood Association</i></p>

10:00–11:00 a.m.

### Seminars – Session #2

<p><b>Architecture and Wood</b></p> <p>By Mark McInturff, <i>FAIA, McInturff Architects, Bethesda, MD</i></p>	<p><b>Designing with the National Design Specification (NDS) for Wood Construction</b></p> <p>By Robert Taylor, <i>Director Technology Transfer, AF&amp;PA / American Wood Council</i></p>	<p><b>Design of Wood Structures to Resist Lateral Loads</b></p> <p>By Jennifer Cover, <i>Engineered Wood Specialist, P.E., APA-The Engineered Wood Association</i></p>	<p><b>Lifetime Framing – Designing for Permanence</b></p> <p>By Cathy Kaake, <i>Director, Engineered &amp; Framing Markets, Southern Forest Products Association</i></p>
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11:15 a.m.–12:15 p.m.

### Seminars – Session #3

<p><b>WoodWorks® Design Office – Part 1</b></p> <p>By Phil Trott, <i>Project Engineer and Electronic Communications, Canadian Wood Council</i></p>	<p><b>What's Shakin' in Wood Seismic Issues</b></p> <p>By A panel of industry professionals featuring a prominent building code official; a representative of the applied research community; practicing design and building forensic professionals</p>	<p><b>Paints &amp; Coatings for Wood Products</b></p> <p>By William C. Feist, <i>Information Specialist, Exterior Wood Finishing and Weathering, Forest Products Laboratory</i></p>	<p><b>Engineered Wood Products</b></p> <p>By Tom Williamson, <i>P.E., Technical Director of APA-The Engineered Wood Association on behalf of APA, AF&amp;PA, CWC, SFPA, WPN, WTCA</i></p>
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12:15 p.m.–1:30 p.m.

### Complimentary Lunch – Ballroom Level

1:30 p.m.–2:30 p.m.

### Seminars – Session #4

<p><b>The Wood Design Awards – The Winning Projects of 2001</b></p> <p>By Don Griffiths, <i>Editor, Wood Design and Building and Coordinator of the Wood Design Awards</i></p>	<p><b>Building Codes &amp; Wood Design</b></p> <p>By David P. Tyree, <i>P.E., C.B.O. AF&amp;PA/AWC Southwest Regional Manager</i></p>	<p><b>Paints &amp; Coatings for Wood Products</b></p> <p>By William C. Feist, <i>Information Specialist, Exterior Wood Finishing and Weathering, Forest Products Laboratory</i></p>	<p><b>Engineered Wood Products</b></p> <p>By Tom Williamson, <i>P.E., Technical Director of APA-The Engineered Wood Association on behalf of APA, AF&amp;PA, CWC, SFPA, WPN, WTCA</i></p>
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2:45 p.m.–3:45 p.m.

### Seminars – Session #5

<p><b>WoodWorks® Design Office – Part 2</b></p> <p>By Phil Trott, <i>Project Engineer and Electronic Communications, Canadian Wood Council</i></p>	<p><b>LRFD for Engineered Wood Construction</b></p> <p>By Robert Taylor, <i>Director Technology Transfer, AF&amp;PA / American Wood Council</i></p>	<p><b>Design of Wood Structures to Resist Lateral Loads</b></p> <p>By Jennifer Cover, <i>Engineered Wood Specialist, P.E., APA-The Engineered Wood Association</i></p>	<p><b>Lifetime Framing – Designing for Permanence</b></p> <p>By Cathy Kaake, <i>Director, Engineered &amp; Framing Markets, Southern Forest Products Association</i></p>
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3:50 p.m.–4:50 p.m.

### Seminars – Session #6

<p><b>Architecture and Wood</b></p> <p>By Mark McInturff, <i>FAIA, McInturff Architects, Bethesda, MD</i></p>	<p><b>What's Shakin' in Wood Seismic Issues</b></p> <p>By A panel of industry professionals featuring a prominent building code official; a representative of the applied research community; practicing design and building forensic professionals</p>	<p><b>Designing with Wood Trusses</b></p> <p>By Kirk Grundahl, <i>P.E., Executive Director, Wood Truss Council of America</i></p>	<p><b>APA Electronic Design Aids</b></p> <p>By Tom Williamson, <i>P.E., Technical Director of APA-The Engineered Wood Association</i></p>
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# Registration

Tuesday November 13, 2001  
Long Beach Convention  
& Entertainment Center

## Four easy ways to register:

**Online:** [www.woodsolutionsfair.com](http://www.woodsolutionsfair.com) (by November 8, 2001)

**Call:** (613) 747-0466 (by November 8, 2001)

**Fax:** (613) 747-0464 (by November 8, 2001)

**Mail:** 3380 Sheridan Drive, Suite 306, Amherst, NY 14226-9921  
(by November 2, 2001)

**Cost:** \$50.00 for pre-registrations  
\$10.00 for full time students with proof of undergraduate program  
\$75.00 for on-site registration  
All registrants will receive a complimentary lunch

## Information

Please contact Audrey Mattila at (613) 747-0466.

## If registering by fax: *(Please print information)*

Name: .....

Company: .....

Profession: .....

Address: .....

City: .....

State: ..... Zip Code: .....

Tel: .....

Fax: .....

Email: .....

## Payment:

Check payable to the Wood Solutions Fair

Visa

MasterCard

American Express

Please charge my credit card a total of \$ .....

Card No.: .....

Expiry Date: .....

Name on card: .....

Signature: .....

*A registration confirmation will be sent by fax or email*

## Please indicate your seminars of interest *(one per session):*

**Session #1**  The Wood Design Awards – The Winning  
8:30 a.m. Projects of 2001

Building Codes and Wood Design

Designing with Wood Trusses

APA Electronic Design Aids

**Session #2:**  Architecture and Wood

10:00 a.m.  Designing with the National Design  
Specifications (NDS)

Design of Wood Structures to Resist Lateral Loads

Lifetime Framing – Designing for Permanence

**Session #3:**  WoodWorks® Design Office – Part 1

11:15 a.m.  What's Shakin' in Wood Seismic Issues

Paints & Coatings for Wood Products

Engineered Wood Products

12:15 p.m.  Complimentary Lunch

**Session #4:**  The Wood Design Awards – The Winning  
1:30 p.m. Projects of 2001

Building Codes and Wood Design

Paints and Coatings for Wood Products

Engineered Wood Products

**Session #5**  Woodworks® Design Office – Part 2

2:45 p.m.  LRFD for Engineered Wood Construction

Design of Wood Structures to Resist Lateral Loads

Lifetime Framing – Designing for Permanence

**Session #6**  Architecture and Wood

3:50 p.m.  What's Shakin' in Wood Seismic Issues

Designing with Wood Trusses

APA Electronic Design Aids

Please complete a separate registration form for additional registrants from the same company.

**Professional development certificates and AIA  
CES forms will be available to all professionals  
for their continuing education program.**

# Exhibitors

AF&PA / American Wood Council

American Institute of Timber Construction

Anthony Forest Products

APA The Engineered Wood Association

Arch Wood Protection, Inc. (Hickson)

Archforms, Ltd.

Boise Cascade Corporation

California Redwood Association

Canadian Hardwood Plywood & Veneer Association

Canadian Plywood Association (CanPly)

Canadian Wood Council

Filler King Company

Hoover Treated Wood Products, Inc.

MSR Lumber Producers Council

Open Joist 2000

Pacific Lumber Company

Paslode

PFS Corporation

Rosboro Lumber Company

Simpson Strong-Tie

Southern Forest Products Association

TECO

[treatedwood.com](http://treatedwood.com)

USP Lumber Connectors

Weldwood Engineered Wood Products

Western Red Cedar Lumber Association

Western Wood Preservers Institute

Western Wood Products Association

Willamette Industries

Wood Truss Council of America

Zone Four

Wood Promotion Network (WPN)

*no booth – presence only*

**Wood Solutions Fair**

# 306

3380 Sheridan Drive

Amherst, NY

14226-1499

