



2801 Marshall Court  
Madison, WI 53705-2295



**May 16-18, 2006**

**Sheraton Richmond West  
Richmond, Virginia, USA**

Sponsored by the USDA Forest Service; Appalachian Hardwood Manufacturers, Inc.; Forest Landowners Association; Forest Products Society; Forest Resources Association Inc.; Georgia Forestry Commission; Hardwood Manufacturers Association; Mississippi State University; National Association of Resource Conservation and Development Councils; Southern Alliance for the Utilization of Biomass Resources; Southeastern Lumber Manufacturers Association, Inc.; Southern Forest Products Association; Southern Group of State Foresters; Virginia Department of Forestry; Virginia Forestry Association; Virginia Forest Products Association; Virginia Tech's Department of Wood Science and Forest Products; U.S. Bureau of Land Management; U.S. Department of Energy; U.S. Department of Interior

## PURPOSE

Smallwood 2006 will provide current up-to-date information on woody biomass and small tree utilization and will foster peer-to-peer learning. Enormous quantities of biomass are being generated from thinning operations, land clearing, and hurricane disasters. These issues drive the need to create solutions for using low-value and waste wood. The conference will include an international slate of speakers, including researchers, material and equipment suppliers, manufacturers, and end-users. Smallwood 2006 will feature technical and poster presentations, discussions, and tabletop displays. The conference will also include tours on Thursday, May 18, in the surrounding Richmond area of mill sites, biomass energy facilities, and small forest products businesses, a state-of-the-art small log sawmill, and related forest products businesses. Topics include:

*Community Partnerships*  
*Forest Health Restoration*  
*Supply and Availability*  
*Harvesting Systems*  
*Processing and Manufacturing*  
*Markets for Products*  
*Energy from Woody Biomass*  
*Workforce Training*

## WHO SHOULD ATTEND

Smallwood 2006 will be of interest to:

*Harvesting contractors*  
*Rural development professionals*  
*Forest products businesses*  
*Forest land and fuels managers*  
*Community leaders*  
*Equipment manufacturers and vendors*  
*Technical professionals*  
*Environmental groups*  
*Architects, builders and engineers*  
*Entrepreneurs*  
*Educators*

## SPONSORS

The conference is being sponsored by the USDA Forest Service; Appalachian Hardwood Manufacturers, Inc.; Forest Landowners Association; Forest Products Society; Forest Resources Association

Inc.; Georgia Forestry Commission; Hardwood Manufacturers Association; Mississippi State University; National Association of Resource Conservation and Development Councils; Southern Alliance for the Utilization of Biomass Resources; Southeastern Lumber Manufacturers Association, Inc.; Southern Forest Products Association; Southern Group of State Foresters; Virginia Department of Forestry; Virginia Forestry Association; Virginia Forest Products Association; Virginia Tech's Department of Wood Science and Forest Products; U.S. Bureau of Land Management; U.S. Department of Energy; U.S. Department of Interior.

## STEERING COMMITTEE

**Richard L. Bain**, National Renewable Energy Laboratory, Golden, CO; **Charlie Becker**, Virginia Dept. of Forestry, Charlottesville, VA; **Stephen M. Bratkovich**, USDA Forest Service, St. Paul, MN; **Robert J. Clark**, USDA Forest Service, Northeastern Area S&PF, Durham, NH; **Cornelis F. de Hoop**, Louisiana State University AgCenter, Baton Rouge, LA; **Bruce Goines**, USDA Forest Service, S&PF, Vallejo, CA; **Lynn Jungwirth**, Watershed Research & Training Center, Hayfork, CA; **Liam E. Leightley**, Mississippi State University, Starkville, MS; **Susan L. LeVan-Green**, USDA Forest Service, Forest Products Laboratory, Madison, WI; **Carol Lewis**, Forest Products Society, Madison, WI; **Richard Lewis**, Forest Resources Association, Inc., Rockville, MD; **Eini C. Lowell**, USDA Forest Service, Pacific Northwest Research Station, Portland, OR; **Tad Mason**, TSS Consultants, Rancho Cordova, CA; **Mark Nechodom**, USDA Forest Service, Pacific Southwest Research Station, Davis, CA; **David W. Patterson**, University of Arkansas, Monticello, AR; **Jan Raulin**, TIMBERWEST Publications, Edmonds, WA; **Robert Rizzo**, Mount Wachusett Community College, Gardner, MA; **Robert B. Rummer**, USDA Forest Service, Southern Research Station, Auburn, AL; **Robert L. Smith**, Virginia Tech, Blacksburg, VA; **John Stewart**, U.S. Department of Interior, Office of Wildland Fire Coordination, Washington, DC; **Bryce J. Stokes**, USDA Forest Service, R&D, Washington, DC; **William Von Segen**, USDA Forest Service, S&PF, Portland, OR; **Mike Washko**, Virginia Forest Products Association, Sandston, VA; **John Wells**, Georgia Forestry Commission, Macon, GA; **Steve Yaddof**, Cooperative Forestry, USDA Forest Service, S&PF, Washington, DC

### *Challenges and Opportunities in Manufacturing and Marketing of Products from Lower Quality and Smaller Diameter Forest Resources*

**Instructors:** Dr. Brian H. Bond, Extension Specialist, Wood Products, Virginia Tech; and Dr. Robert L. Smith, Extension Specialist, Forest Products Marketing, Virginia Tech

**Where:** Sheraton Richmond West, Richmond, Virginia, USA

**When:** Thursday, May 18, 2006; 9:00 am – 12:00 noon (Processing); 1:00 – 4:00 pm (Marketing)

**Cost:** \$75 USD; Lunch is not included. Registration will be by Virginia Tech's Division of Continuing Education.

The morning session will focus on the processing methods and characteristics of small-diameter and lower quality raw material. It will begin with an introduction of small-diameter material, its quality aspects, opportunities for merchandizing, and products that can be produced. The equipment used to process small-diameter equipment will be discussed along with strategies for determining the best mix given a product line.

The afternoon session will focus on the marketing of potential products produced from small-diameter and lower quality raw materials. It will focus specific markets such as pallets, flooring, niche, and specialty markets that utilize this type of wood and what value-added opportunities may exist for this material.

For more information or to register, please contact Angie Riegel at 540-231-7107, Fax 540-231-8868, or E-mail [ariegel@vt.edu](mailto:ariegel@vt.edu).



# May 16-18, 2006

## Sheraton Richmond West

### Richmond, Virginia, USA

#### *Monday, May 15*

**3:00 pm** Registration (3:00-7:00 pm)

#### *Tuesday, May 16*

**7:00 am** Registration (7:00 am-5:00 pm) Continental Breakfast (7:00-8:00 am)

**8:00 am** Opening General Session (8:00-10:00 am)

**10:00 am** Coffee Break (10:00-10:30 am)

|                 |  |  |
|-----------------|--|--|
| <b>10:30 am</b> | Session IA: Legislative Opportunities<br>(10:30 am-12:00 noon) | Session IB: Recycling, Reclaiming, and<br>Reusing Urban Trees, Antique Timbers, and<br>Discarded Pallets (10:30 am-12:00 noon) |
|-----------------|--|--|

**12:00 noon** Luncheon (12:00 noon-1:00 pm)

|                |   |   |
|----------------|---|---|
| <b>1:00 pm</b> | Session IIA: Biomass Energy Power<br>Opportunities (1:00-2:45 pm) | Session IIB: Wood Fuel Pellet<br>Opportunities (1:00-2:45 pm) |
|----------------|---|---|

**2:45 pm** Refreshment Break (2:45-3:15 pm)

|                |  |  |
|----------------|--|--|
| <b>3:15 pm</b> | Session IIIA: Fuels for Schools<br>Case Studies (3:15-5:00 pm) | Session IIIB: Biofuels<br>(3:15-5:30 pm) |
|----------------|--|--|

**5:30 pm** Reception, Tabletop Displays, and Poster Presentations (5:30-7:30 pm)

#### *Wednesday, May 17*

**7:00 am** Registration (7:00 am-5:00 pm) Continental Breakfast (7:00-8:30 am)

|                |  |   |
|----------------|--|---|
| <b>8:30 am</b> | Session IVA: Woody Biomass Grant<br>(Panel Discussion) (8:30-10:00 am) | Session IVB: Handling Hurricane<br>Debris (8:30-10:00 am) |
|----------------|--|---|

**10:00 am** Coffee Break (10:00-10:30 am)

|                 |  |   |
|-----------------|--|---|
| <b>10:30 am</b> | Session VA: Smallwood Harvesting Panel:<br>Breaking New Ground (10:30 am-12:00 noon) | Session VB: Utilization Opportunities<br>Created by Invasive Species<br>(10:30 am-12:00 noon) |
|-----------------|--|---|

**12:00 noon** Luncheon (12:00 noon-1:00 pm)

|                |  |  |
|----------------|--|--|
| <b>1:00 pm</b> | Session VIA: Successful<br>Businesses (1:00-2:45 pm) | Session VIB: Marketing Strategies<br>for Products from Small-Diameter<br>Timber (1:00-2:45 pm) |
|----------------|--|--|

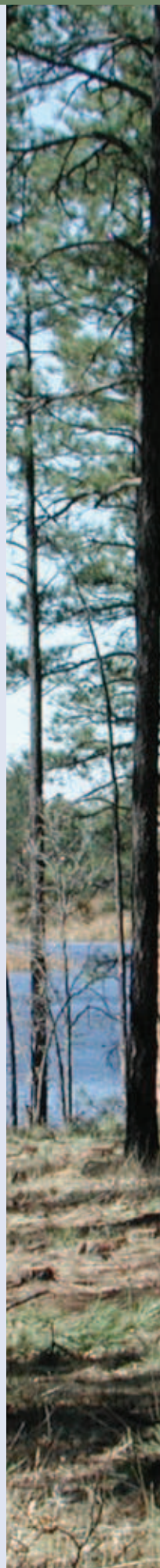
**2:45 pm** Refreshment Break (2:45-3:15 pm)

|                |  |   |
|----------------|--|---|
| <b>3:15 pm</b> | Session VIIA: Roundwood (3:15-5:00 pm) | Session VIIB: Emerging Markets (3:15-5:00 pm) |
|----------------|--|---|

#### *Thursday, May 18*

**7:00 am** Registration (7:00-8:00 am) Continental Breakfast for tour participants (7:00-8:00 am)

**8:00 am** Optional Tours



# Program Outline

## MONDAY AFTERNOON MAY 15

3:00 pm – 7:00 pm

- Registration

## TUESDAY MORNING MAY 16

7:00 am – 5:00 pm

- Registration

7:00 am – 8:00 am

- Complimentary Continental Breakfast

### OPENING GENERAL SESSION

*Moderator:* **Mike Zupko**, Executive Director, Southern Group of State Foresters, Winder, GA

8:00 am – 8:05 am

- **Opening**  
**Mike Zupko**, Executive Director, Southern Group of State Foresters, Winder, GA

8:05 am – 8:15 am

- **Welcome**  
**Carl E. Garrison, III**, State Forester, Virginia Department of Forestry, Charlottesville, VA

8:15 am – 8:45 am

- **Administration's Strategy for Small-Diameter and Low-Valued Woody Material**  
**Mark Rey**, Under Secretary for Natural Resources & Environment, USDA, Washington, DC

8:45 am – 9:15 am

- **Importance of Small Tree Utilization to Tree Farmers**  
**Tom Thomson**, Owner, Thomson Tree Farm, Orford, NH

9:15 am – 9:45 am

- **Future of Biomass Utilization Opportunities in the South**  
**Liam E. Leightley**, Professor and Head, Department of Forest Products, Mississippi State University, Starkville, MS

9:45 am – 10:00 am

- **Questions and Answers**

10:00 am – 10:30 am

- **Coffee Break**

### CONCURRENT SESSIONS

#### SESSION IA: Legislative Opportunities

*Moderator:* **Steve Yaddof**, National Community Biomass Program Manager, USDA, Washington, DC

10:30 am – 11:00 am

- **Upcoming Farm Bill Opportunities for Forestry**  
**Ted Beauvais**, Assistant Director, Cooperative Forestry, USDA Forest Service, S&PF, Washington, DC

11:00 am – 11:30 am

- **Energy Legislation in the 109<sup>th</sup> Congress**  
**Steve Hart**, Legislative Resource Specialist, USDA Forest Service, Legislative Affairs, Washington, DC

11:30 am – 12:00 noon

- **Long-Term Disaster Relief**  
**John R. Dunn**, Director of Cooperative Resource Management, USDA, Rural Development, Washington, DC

#### SESSION IB: Recycling, Reclaiming, and Reusing Urban Trees, Antique Timbers, and Discarded Pallets

*Moderator:* **Stephen M. Bratkovich**, Marketing Specialist, USDA Forest Service, Northeastern Area S&PF, St. Paul, MN

10:30 am – 11:00 am

- **Urban Logging: From City Trees to Value-Added Products**  
**Donald "Stubby" Warmbold**, Founder and Owner, CitiLog, Pittstown, NJ

11:00 am – 11:30 am

- **Reclaimed Wood: Utilizing the "Industrial" Forest**  
**Debra Eason**, Sales Manager, Mountain Lumber Company, Ruckersville, VA

11:30 am – 12:00 noon

- **Recycling Discarded Pallet Parts into "Green" Flooring in North Carolina**  
**Philip A. Araman**, Project Leader, USDA Forest Service, Southern Research Station, Blacksburg, VA

12:00 noon – 1:00 pm

- **Luncheon**

## TUESDAY AFTERNOON MAY 16

### CONCURRENT SESSIONS

#### SESSION IIA: Biomass Energy Power Opportunities

*Moderator:* **Tad Mason**, Vice President, Forestry Services, TSS Consultants, Rancho Cordova, CA

1:00 pm – 1:30 pm

- **Development of a Biomass Co-Generation Facility at Warm Springs Forest Products Industries - Observations/Challenges/Opportunities**  
**Larry Potts**, CEO and General Manager, Warm Springs Forest Products Industries, Warm Springs, OR

1:30 pm – 2:00 pm

- **Biomass Co-Firing Experience in Utility Pulverized Coal Power Plants**  
**Thomas W. Johnson**, Research Engineer, Southern Company, Birmingham, AL; **Bill Zemo**, Alabama Power Company, Plant Gadsden, Gadsden, AL; **Kathy Russell**, Georgia Power Company, Plant Mitchell, Albany, GA; and **Doug Boylan**, Consultant, Birmingham, AL

2:00 pm – 2:30 pm

- **Overview of a Privately Owned Small-Scale Biomass Co-Generation Project at Cox Interior, Inc.**  
**Ruth Grant Logsdon**, Corporate Environmental Manager, Cox Interior, Inc. / Cox Waste-to-Energy, Campbellsville, KY

2:30 pm – 2:45 pm

- **Questions and Answers**

## SESSION IIB: Wood Fuel Pellet Opportunities

**Moderator: John Wells**, Associate Chief Forester, Information & Education, Georgia Forestry Commission, Macon, GA

1:00 pm – 1:25 pm

- **What's New in Wood Pellet Research**  
**Philip A. Araman**, Project Leader, USDA Forest Service, Southern Research Station, Blacksburg, VA

1:25 pm – 1:50 pm

- **Export Marketing of Wood Fuel Pellets**  
**John Colquitt**, President, Fram Renewable Fuels, LLC, Savannah, GA

1:50 pm – 2:15 pm

- **New England Wood Pellet, Inc. – A Success Story**  
**Steve Walker**, President, New England Wood Pellet, Inc., Jaffrey, NH

2:15 pm – 2:45 pm

- **Panel Discussion**

2:45 pm – 3:15 pm

- **Refreshment Break**

## CONCURRENT SESSIONS

### SESSION IIIA: Fuels for Schools Case Studies

**Moderator: Rob Rizzo**, Director of Facilities Management, Mount Wachusett Community College, Gardner, MA

3:15 pm – 3:45 pm

- **Biomass Energy Use at Mount Wachusett Community College – A Case Study**  
**Rob Rizzo**, Director of Facilities Management, Mount Wachusett Community College, Gardner, MA

3:45 pm – 4:15 pm

- **The Vermont School Biomass Program – Lessons Learned**  
**Paul Frederick**, Wood Utilization Specialist, Vermont Department of Forests, Parks & Recreation, Waterbury, VT

4:15 pm – 4:45 pm

- **An Overview of the Western States Fuels for Schools Program**  
**David Atkins**, Fuels for Schools Coordinator, USDA Forest Service, S&PF, Missoula, MT

4:45 pm – 5:00 pm

- **Questions and Answers**

### SESSION IIIB: Biofuels

**Moderator: Liam E. Leightley**, Professor and Head, Department of Forest Products, Mississippi State University, Starkville, MS

3:15 pm – 3:35 pm

- **Future Opportunities for Biomass Fuels and Power**  
**Rich Bain**, Program Director, National Renewable Energy Laboratory, Golden, CO

3:35 pm – 4:00 pm

- **Wood-Based Bio-Oil for Fuel**  
**Leonard L. Ingram, Jr.** and **Philip H. Steele**, Professors, Department of Forest Products, Mississippi State University, Starkville, MS

4:00 pm – 4:25 pm

- **The Forest Biorefinery**  
**Harry T. Cullinan**, Professor and Director, Alabama Center for Paper & Bioresource Engineering, Auburn University, Auburn, AL

4:25 pm – 4:50 pm

- **Biodiesel Developments in Georgia**  
**Thomas Adams**, Director, Faculty of Engineering Outreach Service, and **Dan Geller**, Research Engineer, and **John Goodrum**, Professor, Faculty of Engineering, University of Georgia, Athens, GA

4:50 pm – 5:15 pm

- **Ethanol Production from Agricultural Residues and Forest Products**  
**Joy Doran Peterson**, Assistant Professor of Microbiology, University of Georgia, Athens, GA

5:15 pm – 5:30 pm

- **Questions and Answers**

5:30 pm – 7:30 pm

- **Reception, Tabletop Displays, and Poster Presentations**  
On Tuesday evening, May 16, from 5:30-7:30 pm, an informal reception will be held featuring complimentary hors d'oeuvres and beverages from a cash bar. The reception will offer attendees an opportunity to browse through a number of tabletop displays and poster presentations on various subjects related to small tree utilization.

## WEDNESDAY MORNING MAY 17

7:00 am – 5:00 pm

- **Registration**

7:00 am – 8:30 am

- **Complimentary Continental Breakfast**

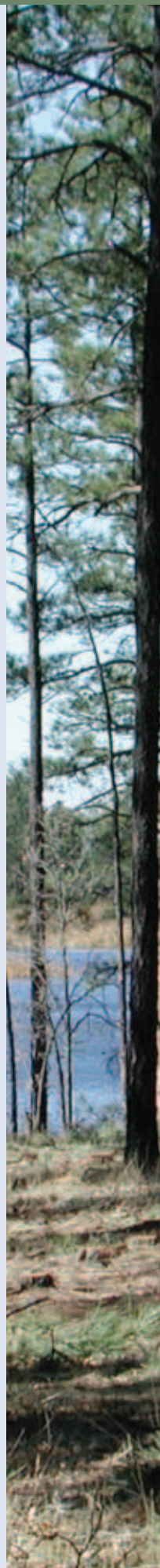
## CONCURRENT SESSIONS

### SESSION IVA: Woody Biomass Grant (Panel Discussion)

**Moderator: Kim Kostelnik**, Biomass Program Manager, New Mexico State Forestry Division, Santa Fe, NM

8:30 am – 10:00 am

- **Coordinated Resource Offering Protocol (CROP)**  
**Scott Aycock**, Program Administrator, Central Oregon Intergovernmental Council, Redmond, OR
- **Enhance the Utilization of Woody Biomass from the National Forest in South Carolina**  
**Joe Joseph**, President, Corporation for Economic Opportunity, Columbia, SC
- **Purchase of Low Impact, Economical Biomass Harvesting Equipment for White Mountain Stewardship Project**  
**Dwayne Walker**, Owner, W.B. Contracting, Inc., Eagar, AZ



- **Reducing Hazardous Fuel Treatment Costs by Lowering Worker's Compensation Insurance (WIC) Rates**  
**Laura McCarthy**, Director, Western Forest & Fire Restoration, The Nature Conservancy, Santa Fe, NM

- **Evaluation and Monitoring Protocol for Woody Biomass Grant Program**  
**Ted Bilek**, Research Economist, USDA Forest Service, Forest Products Laboratory, Madison, WI

## SESSION IVB: Handling Hurricane Debris

*Moderator:* **Cornelis F. de Hoop**, Associate Professor, School of Renewable Natural Resources, Louisiana State University AgCenter, Baton Rouge, LA

8:30 am – 9:00 am

- **Utilization of Timber Damaged by Hurricane Rita and Related Forest Recovery Efforts**  
**Burl Carraway**, Assistant Department Head, Sustainable Forestry & Economic Development, Texas Forest Service, College Station, TX

9:00 am – 9:30 am

- **Utilizing Timber Damaged by Two Hurricanes and Related Recovery Efforts**  
**Paul D. Frey**, State Forester, Louisiana Department of Agriculture & Forestry, Baton Rouge, LA

9:30 am – 10:00 am

- **Utilizing Timber Damaged by Hurricane Katrina and Related Forestry Recovery**  
**Everard Baker**, Interim State Forester, Mississippi Forestry Commission, Jackson, MS

10:00 am – 10:30 am

- **Coffee Break**

## CONCURRENT SESSIONS

### SESSION VA: Smallwood Harvesting Panel – Breaking New Ground

*Moderator:* **Robert B. Rummer**, Research Scientist, USDA Forest Service, Southern Research Station, Auburn, AL

10:30 am – 10:35 am

- **Welcome and Introductions**  
**Robert B. Rummer**, Research Scientist, USDA Forest Service, Southern Research Station, Auburn, AL

10:35 am – 11:00 am

- **Improving Recovery of Residues from Conventional Logging Operations**  
**Frank Corley**, Owner, Corley Land Services, Chapman, AL

11:00 am – 11:25 am

- **Exploring Scandinavian Smallwood Harvesting Equipment**  
**Rob Rizzo**, Director of Facilities Management, Mount Wachusett Community College, Gardner, MA

11:25 am – 11:50 am

- **Case Study of a Biomass Grinding Operation on National Forest Lands**  
**Dana Mitchell**, Research Engineer, USDA Forest Service, Southern Research Station, Auburn, AL

11:50 am – 12:00 noon

- **Closing Remarks**  
**Robert B. Rummer**, Research Scientist, USDA Forest Service, Southern Research Station, Auburn, AL

## SESSION VB: Utilization Opportunities Created by Invasive Species

*Moderator:* **Robert J. Clark**, Group Leader, Forest Management, USDA Forest Service, Northeastern Area S&PF, Durham, NH

10:30 am – 11:00 am

- **Utilization Options to Control Ailanthus (Tree of Heaven)**  
**Charles W. Becker III**, Utilization & Marketing Manager, Virginia Department of Forestry, Charlottesville, VA

11:00 am – 11:30 am

- **Urban Wood Utilization and the Emerald Ash Borer: Increasing the Viability of Wood-Based Industry in Southeast Michigan**  
**Anthony Weatherspoon**, Forest Products Specialist, Michigan Department of Natural Resources, Lansing, MI; and **Jessica Simons**, Natural Resource Specialist, Southeast Michigan Resource & Conservation Development Council, Ann Arbor, MI

11:30 am – 12:00 noon

- **Use of Salt Cedar and Other Invasives in Wood-Plastic Composites**  
**Craig M. Clemons**, Materials Research Engineer, USDA Forest Service, Forest Products Laboratory, Madison, WI

12:00 noon – 1:00 pm

- **Luncheon**

## WEDNESDAY AFTERNOON MAY 17

## CONCURRENT SESSIONS

### SESSION VIA: Successful Businesses

*Moderator:* **Bryce J. Stokes**, Forest Operations Research National Program Leader, USDA Forest Service, Washington, DC

1:00 pm – 1:20 pm

- **Turning a Good Idea Into Reality, One Glitch at a Time**  
**Peter Stark**, Writer and Partner, and **Michael Wood**, Member Manager, North Slope Sustainable Wood, LLC, Missoula, MT

1:20 pm – 1:40 pm

- **Implications of Real-World Examples of Woody Biomass Use**  
**Stephen P. Gaty**, Senior Analyst, Natural Resource & Environment Team, U.S. Government Accountability Office, Denver, CO

1:40 pm – 2:00 pm

- **Evaluating Processes for Biomass Heating Systems**  
**Jim Babcock**, Vice President, Sales & Operations, Advanced Recycling Equipment/Biomass Energy Concepts, St. Mary's, PA

2:00 pm – 2:20 pm

- **Adjusting to a Small-Log Economy**  
**Bill Turner**, Timber Procurement Manager, Timber Products Company, Yreka, CA

2:20 pm – 2:45 pm

- **Questions and Answers**

## SESSION VIB: Marketing Strategies for Products from Small-Diameter Timber

**Moderator: Gerry L. Jackson**, Forest Products Marketing Specialist, USDA Forest Service, Forest Products Laboratory, Madison, WI

1:00 pm – 1:30 pm

- **Niche Marketing Strategies for Products from Small-Diameter Timber**  
**A.L. (Tom) Hammett**, Professor of Forest Products Marketing, Department of Wood Science & Forest Products, Virginia Tech, Blacksburg, VA

1:30 pm – 2:00 pm

- **Internet Marketing of Wood Products**  
**Tim Holmes**, Research Director, Holmes & Associates, Saranac Lake, NY

2:00 pm – 2:30 pm

- **Branding and Marketing: Lessons from the Ford Foundation Community-Based Forestry Demonstration Program 2000-2005**  
**Mary Virtue**, Owner, Cornerstone Consultants, West Chester, PA

2:30 pm – 2:45 pm

- **Questions and Answers**

2:45 pm – 3:15 pm

- **Refreshment Break**

## CONCURRENT SESSIONS

### SESSION VIIA: Roundwood

**Moderator: Craig Rawlings**, Director of MCDC's Smallwood Utilization Program, Montana Community Development Corporation, Missoula, MT

3:15 pm – 3:40 pm

- **The Evolution and Future of Roundwood**  
**Karen Kovatch**, Executive Administrator, Intermountain Roundwood Association / Roundwood West Corporation, Seeley Lake, MT

3:40 pm – 4:05 pm

- **The Evolution of Roundwood Machinery**  
**Ed Smith**, Sales Manager, Round Wood Systems, Helena, MT

4:05 pm – 4:30 pm

- **Cable Suspension Trail Bridge Using Small-Diameter Roundwood**  
**Brad Miller**, Senior Bridge Project Manager, HDR One Company, Missoula, MT

4:30 pm – 5:00 pm

- **Questions and Answers**

### SESSION VIIB: Emerging Markets

**Moderator: Matthew H. Pelkki**, George H. Clippert Chair for Forest Resource Economics, Management & Policy, School of Forest Resources, University of Arkansas, Monticello, AR

3:15 pm – 3:45 pm

- **Is Mulch a Market: Current Issues**  
**Robert Lagasse**, Executive Director, Mulch & Soil Council, Manassas, VA

3:45 pm – 4:15 pm

- **Various Residential Opportunities for Wood-Plastic Composites**  
**Vikram Yadama**, Assistant Professor and Extension Specialist, Wood Materials & Engineering Laboratory, Washington State University, Pullman, WA

4:15 pm – 4:45 pm

- **Commercialization of TemTek**  
**R. Daniel Seale**, Professor, Department of Forest Products, Mississippi State University, Starkville, MS

4:45 pm – 5:00 pm

- **Questions and Answers**

THURSDAY, MAY 18

### OPTIONAL TOURS

On Thursday, May 18, there will be tours (all-day) to businesses and operations in the surrounding Richmond area that use woody biomass. Operations such as wood pellet manufacturers, large-scale biomass power plants, and pallet mills are included. There are three tours planned, although there is a tentative fourth tour. Additional information about the tours will be available at a later date, but tentatively the tours scheduled are as follows:

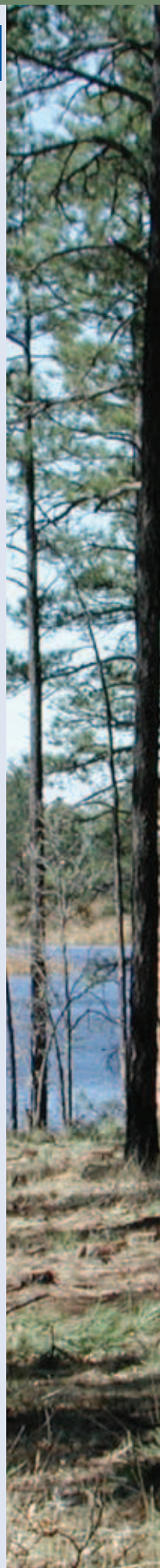
**Tour 1** will travel west from Richmond to the counties of Cumberland, Buckingham, and Louisa. The first stop is Elkora Firewood, a commercial firewood and post peeling operation. The second stop is Chips, Inc., a pine sawmill with curve-sawing technology aimed at maximizing the recovery from smaller diameter logs. Chips, Inc. also has a post and peeling operation and a mulch operation. The third stop is MeadWestvaco, a chipmill operation where they process both pine and hardwood.

**Tour 2** will travel west from Richmond to Alta Vista where Dominion Power operates an 80 MW biomass power plant. The second stop is Longwood University in Farmville, Virginia, which has a biomass heating plant for the facility and plans to expand to cogeneration in the future.

**Tour 3** will travel southwest from Richmond to Amelia County, where participants will tour a pallet mill operation. The second stop, located in Nottoway County, is Arbortech, a high volume small-log pine mill with kilns and planers. If time allows, the third stop will be a wood pellet plant in Kenbridge.

**Tour 4** (tentative) will visit a wood chip reloading facility for overseas shipment, an in-woods whole tree chipping operation, and a mulch/soil amendment plant.

Participants must sign up for these tours when registering for the conference. One bus load (approximately 50 people) will be allowed for each tour; sign up is a first-come, first-serve basis. To register for a tour, check the appropriate box on the enclosed registration form (\$40 fee includes transportation and a box lunch).



# Tabletop Displays & Poster Presentations

## Tabletop Displays

(as of January 1, 2006)

The following tabletop displays have been scheduled as of January 1, 2006. Tabletop display requests will be considered for acceptance up to May 1, 2006. If you believe you have commercial materials suitable for a tabletop display, please contact the Forest Products Society at 608-231-1361, ext. 208 or [conferences@forestprod.org](mailto:conferences@forestprod.org). *Tabletop displays will be accepted based upon a review of their suitability to the objectives of the conference and on the availability of space.*

- Advanced Recycling Equipment, Inc., St. Mary's, PA, <http://www.advancedrecyclingequip.com>
- Georgia Forestry Commission, Claxton, GA, <http://www.gatrees.org>
- USDA Forest Products Laboratory's Technology Marketing Unit, Madison, WI, <http://www.fpl.fs.fed.us/tmu/index.html>
- Virginia Forestry Association, Richmond, VA, <http://www.vaforestry.org>
- Virginia Tech's Department of Wood Science & Forest Products, Blacksburg, VA, <http://www.woodscience.vt.edu>

## Poster Presentations

(as of January 1, 2006)

The following poster presentations have been scheduled as of January 1, 2006. Poster presentation requests will be considered for acceptance up to May 1, 2006. If you believe you have technical materials suitable for a poster presentation (no commercial materials accepted), please contact the Forest Products Society at 608-231-1361, ext. 208 or [conferences@forestprod.org](mailto:conferences@forestprod.org). You may also submit your request for a poster presentation on line at <http://www.forestprod.org/smallwood06posterform.html>. *Poster presentations will be accepted based upon a review of their suitability to the objectives of the conference and on the availability of space.*

- **Biomass Collection and Handling from WUI Projects on Residential Lots and Suburban Properties**  
**Jim Dooley**, Executive Manager, Forest Concepts, LLC, Federal Way, WA
- **The Evaluation of Wood Residues and Woody Biomass in Virginia Utilizing GIS**  
**Omid Parhizkar**, Graduate Research Assistant, and **Robert L. Smith**, Professor and Extension Specialist, Department of Wood Science & Forest Products, Virginia Tech, Blacksburg, VA; **Charles W. Becker III**, Utilization & Marketing Manager, Virginia Department of Forestry, Charlottesville, VA; and **Robin Jones**, Energy Project Manager, Virginia Department of Mines, Minerals & Energy, Richmond, VA
- **Findings and Recommendations of the Pennsylvania Blue Ribbon Hardwoods Task Force**  
**Charles D. Ray**, Assistant Professor of Wood Operations, School of Forest Resources, Pennsylvania State University, University Park, PA; and **Keith A. Craig**, Executive Director, Hardwoods Development Council, Pennsylvania Department of Agriculture, Harrisburg, PA

## CONFERENCE HOTLINE

FOREST PRODUCTS SOCIETY

2801 Marshall Court • Madison, WI 53705-2295 USA

Phone: 608-231-1361, ext. 208 • Fax: 608-231-2152 • E-mail: [conferences@forestprod.org](mailto:conferences@forestprod.org)

<http://www.forestprod.org>

# Registration Information

## REGULAR ATTENDEE FEE

The regular attendee fee is \$250 USD per person and includes conference materials, all sessions, two continental breakfasts, two luncheons, four coffee/refreshment breaks, one reception, and admission to Expo Richmond 2006.

## STUDENT FEE (full-time student; ID required)

The student fee is \$125 USD per person and includes conference materials, all sessions, two continental breakfasts, two luncheons, four coffee/refreshment breaks, one reception, and admission to Expo Richmond 2006.

To register for the conference, please complete the enclosed registration form and mail it to the Forest Products Society, or you may register by fax at 608-231-2152, or by phone at 608-231-1361, ext. 208. The conference registration desk on site will be located at the Sheraton Richmond West. Registration desk hours will be: Monday, May 15, 3:00-7:00 pm; Tuesday, May 16, 7:00 am-5:00 pm; Wednesday, May 17, 7:00 am-5:00 pm; and Thursday, May 18, 7:00-8:00 am.

## EARLY BIRD DISCOUNT

Register by May 1, 2006 and save \$75 USD. Thereafter the cost is \$325 USD.

## CANCELLATIONS

Refunds for cancellations will be made only if requested. For late cancellations, a charge will be made as follows: within 2 weeks of the opening day of the conference, 15% of the registration fee; within 72 hours, 30% of the registration fee. No refunds on cancellations received after May 18, 2006. Attendees may be substituted at any time at no charge.

## TUESDAY EVENING RECEPTION

On Tuesday evening, May 16, from 5:30-7:30 pm, an informal reception will be held featuring complimentary hors d'oeuvres and beverages from a cash bar. The reception will offer attendees an opportunity to browse through a number of tabletop displays and poster presentations on various subjects related to small tree utilization.

### Tabletop Display

Tabletop display spaces are still available. The cost of a tabletop display at the conference is \$200 USD (not-for-profit) or \$375 USD (for-profit). The tabletop displays will take place on Tuesday evening, May 16, from 5:30-7:30 pm, during an informal

reception. The tabletop displays will be presented by suppliers of materials, equipment, products, and technical services related to small tree utilization. Attendees will enjoy complimentary hors d'oeuvres and a cash bar while circulating among the displays. If you would like to reserve a tabletop display, please fill out and return the enclosed registration form. *Tabletop displays will be accepted based upon a review of their suitability to the objectives of the conference and on the availability of space.*

### Literature Display

If your company is not sending an attendee, but you still wish to promote your company at the conference, we will display your company literature at the conference for a fee of \$200 USD. If you would like to reserve a literature display, please fill out and return the enclosed registration form.

### Technical Forum (Poster Session)

Technical Forum (poster) presentation spaces are still available. The Technical Forum (poster session) will take place on Tuesday evening, May 16, from 5:30-7:30 pm, during an informal reception. The Technical Forum will consist of poster presentations by individuals who are stationed at a booth space similar to a typical exhibit booth. Each space contains a draped table and a 4- by 8-foot posterboard on which an abstract, key points, conclusions, charts, and diagrams are posted. If you believe you have technical materials suitable for a poster presentation (no commercial materials accepted), please contact the Forest Products Society at 608-231-1361, ext. 208 or [conferences@forestprod.org](mailto:conferences@forestprod.org). You may also submit your request for a poster presentation on line at <http://www.forestprod.org/smallwood06posterform.html>. *Technical Forum (poster) presentations will be accepted based upon a review of their suitability to the objectives of the conference and on the availability of space.*

## EARLY BIRD DISCOUNT

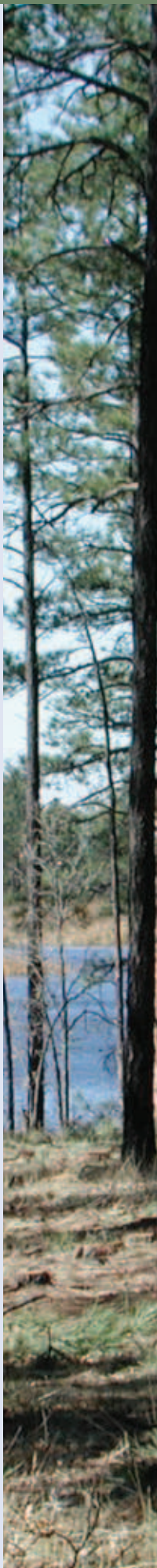
### REGISTER EARLY AND SAVE!

Attend the conference for only \$250

if you register by

May 1, 2006 — save \$75 USD.

Thereafter registration is \$325 USD.



# Hotel Registration Information

## SHERATON RICHMOND WEST

All events related to the conference will take place at the Sheraton Richmond West. Sheraton Richmond West, Richmond's premier west-end meeting location offers 372 spacious guestrooms, wireless and high speed internet, 600+ complimentary parking spaces, two restaurants (Cypress Grill and Shula's 2) as well as our Starbucks Lounge and Lobby Bar. All this is arranged on a beautifully landscaped 13-acre campus, conveniently located minutes from Richmond's International Airport.



pany). The room block will be held through Monday, April 17, 2006. After April 17, remaining rooms in the block will be released for sale to the general public, and attendees cannot be guaranteed the conference rate or room availability after this date. Group rates will

be offered 2 days prior and 2 days after the conference dates, subject to availability of rooms at the time of reservation.

## HOTEL RESERVATIONS

Registrants are responsible for making their own hotel reservations. A block of rooms has been reserved at the Sheraton Richmond West at a special conference rate of \$94 + tax for a Standard Room (single or double occu-

Complete the hotel reservation form below and mail or fax directly to the Sheraton Richmond West. For telephone reservations, phone 800-325-3535 or 804-285-2000, or fax your reservation to 804-285-8418. To receive the special conference rate, be sure to state that you are registering for the Forest Products Society Smallwood Conference.

## Hotel Reservation Form

**Forest Products Society Smallwood Conference**  
**May 16-18, 2006**

(Do not mail to the Forest Products Society)

Mail to: Sheraton Richmond West  
6624 West Broad Street  
Richmond, VA 23230  
Reservations: 800-325-3535 or 804-285-2000  
Fax: 804-285-8418

A block of rooms has been reserved at the Sheraton Richmond West at a special conference rate of \$94 + tax for a Standard Room (single or double occupancy). The room block will be held through Monday, April 17, 2006. After April 17, remaining rooms in the block will be released for sale to the general public, and attendees cannot be guaranteed the conference rate or room availability after this date. Group rates will be offered 2 days prior and 2 days after the conference dates, subject to availability of rooms at the time of reservation.

Arrival Date: \_\_\_\_\_

A deposit of first night's room revenue plus tax is required for all reservations when reservations are made.

Departure Date: \_\_\_\_\_

Name (print): \_\_\_\_\_

Please find my check enclosed. Amount enclosed:

Address: \_\_\_\_\_

\$ \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Credit Card

Phone: \_\_\_\_\_

Card Type: \_\_\_\_\_

Email: \_\_\_\_\_

Card No.: \_\_\_\_\_

Number of Adults: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Standard Room with 1 King bed at \$94 + tax

Cardholder's Name: \_\_\_\_\_

Standard Room with 2 Double beds at \$94 + tax

Signature: \_\_\_\_\_

Non-smoking     Smoking

# Conference Registration Form

**Smallwood 2006 • Sheraton Richmond West • Richmond, Virginia, USA**  
**May 16-18, 2006**



**Mail to:** Forest Products Society  
2801 Marshall Court • Madison, WI 53705-2295 USA  
Phone: 608-231-1361, ext. 208 • Fax: 608-231-2152  
E-mail: conferences@forestprod.org • www.forestprod.org

Dr.  Mr.  Mrs.  Ms. \_\_\_\_\_  
First Name Last Name (Surname)

Preferred first name for name tag: \_\_\_\_\_

Job Title: \_\_\_\_\_

Company/Organization: \_\_\_\_\_

Mailing Address:  Home  Business Street/P.O.: \_\_\_\_\_

City: \_\_\_\_\_ State or Prov./Country: \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

## Registration Fees

*Smallwood 2006 registration fees include admission to Expo Richmond 2006. Register early (through May 1) and save!*

- Regular attendee fee at \$250 USD (through May 1) \_\_\_\_\_
- Late attendee fee at \$325 USD (after May 1) \_\_\_\_\_
- Student fee at \$125 USD  
(full-time student; ID Required) \_\_\_\_\_
- Tour 1 at \$40 USD \_\_\_\_\_
- Tour 2 at \$40 USD \_\_\_\_\_
- Tour 3 at \$40 USD \_\_\_\_\_
- Tour 4 at \$40 USD \_\_\_\_\_
- Tabletop display at \$200 USD (not-for-profit) \_\_\_\_\_
- Tabletop display at \$375 USD (for-profit) \_\_\_\_\_
- Literature display at \$200 USD \_\_\_\_\_

TOTAL \_\_\_\_\_

## Payment Information

Payment in U.S. funds or purchase order must accompany registration form. Make checks payable to the Forest Products Society. You may order through your Visa, MasterCard, Discover, or American Express by supplying the information requested below.

- Visa  MasterCard  Discover Card  American Express
- Card No.: \_\_\_\_\_
- Security Code: \_\_\_\_\_
- Expiration Date: \_\_\_\_\_
- Cardholder's Name: \_\_\_\_\_

- Please process my attached purchase order. PO# \_\_\_\_\_
- Please find my check enclosed. (Make checks payable to the Forest Products Society.)

**IMPORTANT!** Please indicate which concurrent sessions you will be more likely to attend:

### Tuesday Morning

- SESSION IA  SESSION IB

### Tuesday Afternoon

- SESSION IIA  SESSION IIB

### Tuesday Afternoon

- SESSION IIIA  SESSION IIIB

### Wednesday Morning

- SESSION IVA  SESSION IVB

### Wednesday Morning

- SESSION VA  SESSION VB

### Wednesday Afternoon

- SESSION VIA  SESSION VIB

### Wednesday Afternoon

- SESSION VIIA  SESSION VIIB

**For credit card or purchase order registrations, you may phone or fax: Phone: 608-231-1361, ext. 208 • Fax: 608-231-2152**

## My employment area is:

- Architect  Association  Consulting/Technical Services
- Education/Consulting  Education/Extension  Engineer
- Government  Mfr. of Wood-Based Product  Publisher
- Research  Retired  Student  Supplier  Other

*SPECIAL NEEDS:* If you have any special needs as a conference attendee, such as a special diet, or needs related to sight, hearing, or physical mobility, please attach a brief description of these needs below. Early notification will enable us to more efficiently accommodate your needs. Special Needs: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## Expo Richmond 2006

### 30th East Coast Sawmill and Logging Equipment Exposition

Smallwood 2006 registration includes admission to Expo Richmond.

**When:** May 19-20, 2006, 9:00 am - 5:00 pm

**Where:** Richmond Raceway Complex (free parking), less than a 15-minute drive from the Sheraton Richmond West, the conference center for Smallwood 2006, May 16-18.

**What:** Expo Richmond is one of the largest shows of its kind. In 2004, 329 companies exhibited millions of dollars worth of equipment, supplies, and services for the sawmilling, logging, pallet manufacturing, and recycling industries.

The most noteworthy feature is its true-to-life outdoor display, in which equipment actually operates. Grinders grind! Chain saws saw! Portable sawmills manufacture lumber! Pallets are either recycled or manufactured anew! Firewood is processed! Static displays include trucks and tractors, trailers, computer systems/software, felling and harvesting equipment, safety equipment, lift trucks, dry kilns/supplies, etc.

Both indoors and out, the newest, most advanced machinery, equipment, and technology in the industry will be on display. Industry professionals are on hand to provide you with first-hand information to help you increase your operation's efficiency, improve quality, and hold the line on production costs. It will be your best chance in 2006 to see so much in one place — equipment, machinery, new products, supplies, services, methods, trends — and specialists in every phase of the industry.

**Contact:** Mike Washko 804-737-5625, [info@exporichmond.com](mailto:info@exporichmond.com), <http://www.exporichmond.com>

Here are just a few of the 329 companies that exhibited at Expo Richmond 2004:

|  |                                    |                                  |
|--|------------------------------------|----------------------------------|
| Advanced Recycling Equipment             | Industrial Resources of Michigan   | Roll-Tite Tarping Systems        |
| American Lumber & Pallet                 | Industrial Supply Corporation      | Rotochopper                      |
| American Strapping Co.                   | Innovative Data Systems, Inc.      | Round-Wood Systems               |
| American Wood Dryers, Inc.               | Innovative Trailers, Inc.          | Salem Equipment, Inc.            |
| Automated Machine Systems, Inc.          | International Truck Sales          | Saw Buddy                        |
| B & C Truck Sales, Inc.                  | IPS Fasteners                      | Saw Service & Supply, Inc.       |
| Bad Dog Tools                            | Jackson Lumber Harvester Co., Inc. | Sawmill Hydraulics, Inc.         |
| Better Built Dry Kilns, Inc.             | Kenne-Saw & Supply Co.             | Sawquip International Inc.       |
| BGR Saws Inc.                            | Kiln Drying Systems & Components   | Sharp Tool Co., Inc.             |
| Brand X SawmillsT                        | Kiln-Direct.com                    | Silvatech Corporation            |
| Canadian Chains                          | King Kong Tools                    | Smart Products, Inc.             |
| Can-Am Chains                            | Landen Strapping                   | SII Dry Kilns                    |
| Coe Newnes/McGehee                       | Lane Recycling Machinery LLC       | T.S. Manufacturing               |
| Colonial Truck Sales                     | Lenox                              | Talladega Machinery & Supply Co. |
| Commercial Cutters Direct                | Log Rite Tools                     | Tar Heel Industries              |
| Construction Safety Products Continental | Low Grade Lumber                   | Taylor Machine Works, Inc.       |
| Biomass Industries                       | The Lumberman's Exchange           | The Knife Source LLC             |
| Country Saw & Knife, Inc.                | Macon Machine, Inc.                | Tigercat Industries Inc.         |
| Cramaro Tarp Systems, Inc.               | Magnolia Trailers, Inc.            | Timber Harvester Inc.            |
| Deere & Co.                              | Mid-Continent Nail Corporation     | Timber Products Inspection, Inc. |
| Dinosaw                                  | Minnesota Saw Works                | Timberline                       |
| Fastening Technologies                   | Morbark Sales Corporation          | U-C Coatings Corporation         |
| Firestone Agricultural Tire Co.          | Morgan Saw Co., Inc.               | Unimog / Virginia Truck Center   |
| Flying Dutchman, Inc.                    | Mulch King LLC                     | Union Grove Saw & Knife          |
| Forest Products Equipment Magazine       | Oleson Saw                         | Valley Machine Works Ltd.        |
| Forestry & Construction, Inc.            | Oregon Cutting Systems             | Viking Chains Inc.               |
| Forestry Mutual Insurance Company        | The Original Lumberman's Exchange  | VDACS Gypsy Moth Program         |
| Forestry Suppliers, Inc.                 | Pacific-Hoe Saw & Knife Co.        | Webster Industries, Inc.         |
| Forestry Systems, Inc.                   | Pacific Trail Mfg. Inc.            | West Plains Resaw Systems, Inc.  |
| Hale Trailer Brake & Wheel               | Pallet Chief Mfg.                  | West Salem Machinery Co.         |
| Hanover Controls & Supply Corp.          | Pallet Repair Systems, Inc.        | Western Branch Diesel, Inc.      |
| Heartland Fabrication & Machine          | Peerless Saw Co.                   | Western Trailers                 |
| Hud-Son Forest Equipment                 | Piper's Saw Shop, Inc.             | Windmill USA, LLC                |
| Lggesund Tools, Inc.                     | Rayco Manufacturing                | Wood-Mizer Products              |