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INSIDE VT WOOD

Reminder...

Remember to submit department news items by Friday 3 p.m. of each week to Will Pfeil at wpfeil@vt.edu for inclusion in Inside VT WOOD each Monday morning. All past issues of Inside VT Wood reside on our department website under the publications link.

News From Paul Winistorfer

- We continue to build momentum in our 'Building Our Future' campaign. Thanks to Bob and Barb Smith for their personal contribution. We caught Bob just before he transitions to his new role as Associate Dean for Engagement in the College! Thanks to Wolfgang and Heidi Glasser for their very generous contribution. Gifts from our own family in the department are so very important to our overall success. And thanks to Scott and Patty Rennekar for their kind contribution. We have our future in our own hands and we will definitely 'Build Our Future'. Won't you make your contribution today?
- Last week Dan Hindman reported on his recent success in receiving a NIOSH grant. I want to add that NIOSH is administered as an agency under the direction of the National Institutes of Health (NIH). NIH is often mentioned on this campus in discussion of infectious diseases and human health. Dan's grant was awarded for \$388,640 and represents several years of work leading up to a successful grant application. Congratulations Dan. Seeking funds from non-traditional sources for our research program is notable. This may be the very first NIH grant in our department.
- Thanks to Linda Caudill, Scott Rennekar, Dan Hindman, and many others for the great job of cleaning up the graduate student space in the composites loft at the Brooks Center. We are at 100% capacity in all faculty and student space this fall. We must make the best use of what space we have available. Please bring to my attention any immediate space needs.
- Our Wood Week Career Fair is sold out! Please see the attached list of participants. Recognize that these companies, businesses and associations are investing significant resources to be with us. Let's demonstrate to them the quality, engagement and power of our program and the Virginia Tech campus. There will be many opportunities to help out during the week and information on how you can help will be distributed this week. This is a great opportunity for our program to be engaged at a very high level on our campus the entire week. Be sure to have time on Thursday September 6th to be on the Drillfield and interact with our guests.
- If you've not seen it – the VT Wood car is coming to the Career Fair! This car is frequently seen running the course at the Virginia International Raceway.
- The department will host a 'Welcome Back' event for all department students, staff and faculty on Wednesday September 5th under the big top tent on the Drillfield, from 5:30 pm to 7:00 pm. Food and refreshment will be provided. Faculty will

W²007
Wood Week 2007

be introduced. Undergraduate and graduate students will be our guests. Flyers will be available for handing out in class. Please add this event to your calendar of events for Wood Week 2007. We will secure a participation list with a deadline of Friday August 31.

- We need your confirmation on attendance at the Scholarship Awards Reception Friday evening September 6th. We will award nearly \$65,000 in scholarship support for this academic year. Come and help us recognize the accomplishments of our students and the generosity of our donors and supporters. This will be a great night for our students and our program. The reception is being held jointly with the VFPA-VT Conference registration venue at the Inn at Virginia Tech. RSVP today with Angie at ariegel@vt.edu phone 231-7107.
- Be on the look out for the spotlight on the VT homepage the last week of August. Lynn Davis has prepared a very nice piece on our department and Wood Week that will put us on the front page of the VT website. Thanks Lynn — be watching for it.
- I enthusiastically encourage you all to register for upcoming VFPA-VT Industry Technology Conference scheduled for Saturday 8th at the Inn at Virginia Tech. The department will orchestrate registration for the event with VFPA in the coming days. All faculty, graduate students and undergraduate students are encouraged to attend this important event.

Summary of Wood Week 2007 Events

Tuesday, September 4th – Public keynote by Asa Christiana, editor, Fine Woodworking Magazine

Wednesday, September 5th - Wood Magic Show at Brooks Forest Products Center; Department Welcome Back Picnic

Thursday, September 6th – Career Fair on the Drillfield

Friday, September 7th – Forest Products Marketing and Management Advisory Board meeting; Student Scholarship and Awards Recognition Reception

Saturday, September 8th – Virginia Forest Products Association – Virginia Tech Forest Products Industry Technology Conference

Department Welcome Back Picnic September 5th on the Drillfield

Join us on September 5th from 5:30 pm to 7:00 pm on the Drillfield under the big top tent for a department 'Welcome Back and Welcome New Students' picnic. Watch for RSVP information in the coming week. Food and refreshments will be provided. Department faculty and staff will be introduced, as well as new students.

Bicycle Made of Wood



Jens Eichler, a student at University of Applied Science Eberswalde, Germany majoring in wood technology, came up with a concept of making a tandem bicycle out of some sheets of beech plywood, along with a strong glue (phenol-resorcinol). After a few months of tinkering with the idea, he began work in August 2006 on a masterpiece he would call "Renovatia." To read more about this story and view more photos you can go to his personal website at: http://www.diewerkler.de/english/?page_id=10 and go to a piece by CNET.com: http://news.com.com/2300-1008_3-6202540-1.html

Look Who's Coming to Our Career Fair — Thursday, September 6th

The response has been great! Help us get the word out to students in your classes!

Susan Day	VT-Dept. of Forestry
Bob Smith Brian Perkins Tom Hammett	VT-Marketing Center
Bonnie Maccubbin	VT-Center for Unit Load Design
Judith Johnson	Danzer, Edinburgh, Indiana
Steve Franklin	Columbia Forest Products, Old Fort, NC
Mike Gaudreau Aaron Vaughan Janice Ketchum	Dreaming Creek Timber Frames Homes Powhatan, VA
Linda Caudill Charles Frazier	WBC—Wood-Based Composites Center
Terry Campbell Glenn Knowles	Augusta Lumber Waynesboro VA
Robert Parrish Allison Perry	Rocky Top Building Products Rocky Mount, VA
Caroline Zito	MeadWestvaco, Glen Allen VA
Earl Kline Jesse Paris Kevin Eberling Wes Sanders	WEI—Wood Enterprise Institute, VT
Timothy Hinkle	Coastal Lumber Co, Buckhannon WV
Robert Youngs	SWST—Society of Wood Science and Technology
Greg Heuer Bruce Cody	Architectural Woodwork Inst Nellysford, VA
Jan Canepari	Louisiana Pacific, Nashville, TN
Greg Lutter	Mann and Parker Lumber, New Freedom, PA
Casey Mickelson	Richmond International, Glen Allen, VA
Larry Turner Christy Landon Jennie Greytak	Stanley Furniture Co Stanleytown, VA
Jeff Kern	Fortress Wood Products, Martinsville, VA
Stephanie Casen Denise Johnson George Pattmore	Swedwood Danville Danville, VA

Bob Browder Terry Roberts	Southern Pine Inspection Bureau Pensacola, FL
Hank Goldberg Marilyn Newsome	Weyerhaeuser Heaters, WV
Paul Winistorfer	Dept. of Wood Science & Forest Products
Ashley Wright	Georgia Pacific Wood Products, Roxboro, NC
Eddie Cartee Debbie Brower	Huber Engineered Woods Commerce, GA
Mike Couture Howard Hughes	Hardwoods Specialty Products Livermore, CA
Jason Sweedyk Stuart Clontz Dana Rector	Universal Forest Products Grand Rapids, MI
James Green	VA Dept of Agriculture and Consumer Services, Richmond, VA
Judy Cisler Owen McGee	Stiles Machinery, High Point, NC
Johnette Synder Candy Gerace Donna Bailey	Roy O. Martin Alexandria, LA
Carol Lewis	Forest Products Society, Madison, WI
Judith Araman	VT-College of Natural Resources
Janis Conklin	JELD-WEN Windows & Doors, Columbia, SC
Michelle Tuohy	Georgia Pacific, Atlanta, GA
Randy Bush	Virginia Forest Products Association
Brannon Smith Jon Frey Jim Keane	American Woodmark Corp Winchester, VA
George Thomson	Baillie Lumber Company
Randy Faulconer Bruce Kulzer Hal Tester	Hood Distribution Hattiesburg, Mississipp
Steven Bowman	Woodgrain Millwork Inc, Marion VA
Mark Vann Hal Mitchell	Atlanta Hardwood Corporation Cleveland, Georgia
Al Breland Ken Panitt	Cox Industries Orangeburg, SC
Earl Kline Anne-Collins Albimino	VT-Sloan Foundation Forest Industries

Wood Magic at Virginia Tech — Wednesday, September 5th

WOOD is truly a magical material. It has supplied our needs since the beginning of time. You probably ate some today and did not even realize it. Did you take an aspirin, eat some ice cream, take a vitamin, drink instant hot chocolate, or eat an Oreo? Not only do we eat wood just about every day, we wear it in the form of rayon and tencel, it's in our cleansers, photographic film, adhesives, shampoos, cologne, toothpaste, and hundreds of other products. From food to shelter, we use items every day that come from wood and forest products. Learning the



Caitlin's favorite part is making paper; in fact, she said "It was fun. I never knew that making paper was so hard to make. We really liked it."

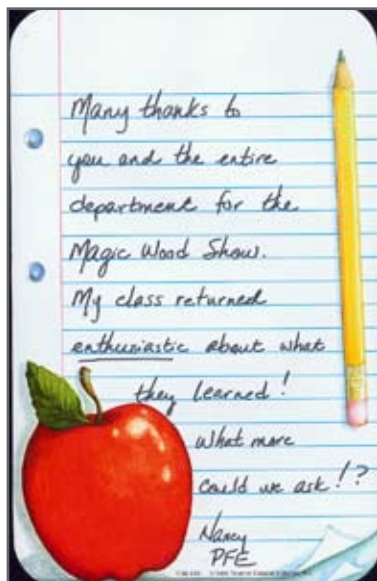
magic, science, and importance of wood and forest products in our lives is what Wood Magic is all about. Wood Magic at Virginia Tech is an award-winning natural resource education program for youth and educators. Materials and activities are designed around Virginia's Standards of Learning and are intended to assist educators with teaching children about environmental science, particularly wood science and forestry. Studies of environmental education determined that young students do not lack concern for the environment, they lack knowledge. Wood Magic provides an opportunity to learn first hand the uses and prevalence of wood in everyday life and the role of natural resource science in a sustainable future. Our activities engage the students in doing, reflecting and applying wood science to their daily world.

There are three components to Wood Magic at VT: the annual on-campus program, the interactive learning website <http://www.woodmagic.vt.edu>, and our Wood Magic 4-H Curriculum Booklets.

The curriculum booklets are



Nathan was glad to learn some "good things about our environment" and concluded his letter with "VT Rocks"



Mrs. K at Prices Fork Elementary said "My class returned enthusiastic about what they learned. What more could we ask?"

designed as instructor guides for conducting Wood Magic and related wood science activities. They have been approved for Virginia's Cooperative Extension 4-H program and can be found at <http://www.ext.vt.edu/vce/publications/pod/> The guide for 9 – 11 years is VCE publication # 388 – 807. Look for the curriculum guide for 13 – 18 year olds Fall 2007 under VCE publication #388-809. Our 10th annual on-campus program is designed for 4th and 5th grade classrooms and will be held early in Wood Week '07 on September 5th, 2007. Classes from Gilbert Linkous Elementary and Harding Avenue Elementary are scheduled to participate. An on-campus programs lasts 3 hours and includes several different activities such as Caitlin's favorite — Making Paper.

In addition to making paper, students learn the connection between forest and wood resources and their daily lives, they participate in determining the strength of wood sticks, they get a microscopic view of "the little holes in it", they get to make a wood sandwich with veneer (bread) and adhesive (cheese), they get to put together a wooden puzzle made from recycled wood flooring, they race termites and blow bubbles through oak sticks, and they get to plant a white oak acorn in a cup of sand and peat moss and take it home with them so they, too, can help reforest our environment. And, they just have an all-around good day with us.

Wood Magic is popular with educators also. Every year since the first program was offered in 1998, we have more requests for attendance than we can fill.

Through Wood Magic we have interacted with just over 11, 000 youth, almost 500 educators, the general public, and industry partners to raise awareness of wood and wood science's role in efficient utilization and renewal of our forests. It is often remarked that wood science suffers from an awareness problem, programs like Wood Magic are effective ways to meet the challenge of raising awareness, clarifying misperceptions, and looking toward the future.

WEI Photo Journal



▲ Wes and Kevin plane cherry lumber donated from Rex Lumber.

▼ Dan cuts book shelf blanks as Becky and Rob observe process cycle times.



Becky machines the bookshelf profile. ▶

▼ Mike, Adam, and Becky operate the sanding workcell.



Customized laser engravings added a touch of personalization using equipment on loan from Ten Oaks, LLC. and was operated by Adam Birkett. ▶



▲ Rob inspects bookshelf for quality and fit.



Front Row: Thomas Blount, Wes Sanders, Jesse Paris, Mike Elebash, Josh Hosen, Rob Hart, Daniel Roethle
Back Row: Dr. Earl Kline, John Foster, Adam Birkett, Kevin Eberling, Becky Dawson, Kevin Knight
Not Pictured: Dr. Paul Winistorfer, Dr. Brian Bond, David Jones, and Garrett Norman

Editor of Fine Woodworking Magazine to Present the Science and Artistry of Fine Furniture in Lecture at Virginia Tech



Asa Christiana

Asa Christiana, editor, Fine Woodworking magazine (Taunton Press) will kick-off Wood Week 2007 activities at Virginia Tech with an open public lecture titled The Science and Artistry of Fine Furniture. Wood Week 2007 is a series of events on the Blacksburg campus sponsored by the department of Wood Science and Forest Products in the College of Natural Resources to bring focus and attention to the role of wood and renewable materials in society, and the contribution of department faculty and students enrolled in the program. Christiana notes "Wood is the perfect material for furniture: It is lightweight yet strong, it cuts and polishes beautifully with relatively simple tools, and it is widely available in a magnificent palette of colors and grain patterns. To make the most of this material, custom furniture makers master a rare blend of engineering and aesthetics, crafting pieces that are more beautiful, functional, and durable than their cheap, factory-made counterparts." As editor of the world's leading magazine for the craft of furniture making, Christiana will use recent articles, and the makers featured within,

to illustrate how the best pieces marry form and function. He'll demonstrate how wood science leads to solid joinery, and how classic design principles are applied to the most beautiful furniture and home interiors. In this age of disposable goods, the audience is sure to leave with an appreciation for things built to last.

Asa Christiana is the editor of Fine Woodworking magazine. A winding path led him to the Taunton Press, beginning at a technical high school, where he learned the machinist trade. In college Asa started in the engineering school and then migrated to the English department. After college he took a number of teaching jobs, first in the Peace Corps in Africa (teaching math in French) and then, back home, as a high-school and college English teacher. He eventually fled the classroom for the relative safety of the newsroom, becoming an editor at a daily paper and later at Woodshop News. About that time he set up his first woodworking shop. In retrospect, his left-brain/right-brain background was good preparation for his career at Fine Woodworking, which he began in 2000 as an associate editor. Asa lives with his wife and two girls in the Connecticut woods, in a house he helped design and build.

Christiana's lecture will be Tuesday September 4th at 7:00 p.m. in the Auditorium of the Fralin Building on the Virginia Tech campus. The public is invited to attend. Wood Week 2007 also includes a career fair with 40 participating companies from the industry, a student scholarship reception awards program, and a technical conference on Saturday September 8 focusing on competitiveness of the industry with topics covering workforce development, globalization, and biofuels and biomaterials.

The department of wood science and forest products (www.woodscience.vt.edu) in the College of Natural Resources is the leading program in North America engaged in wood and renewable materials utilization. Faculty focus on the science and business of wood and renewable materials utilization through learning, discovery, and engagement. The department is home to the Center for Forest Products Marketing and Management, the Center for Unit Load Design, the Wood-Based Composites Center, the Sustainable Engineered Materials Institute and the award winning Wood Magic Show for 4th and 5th grade children and their teachers. Through cooperation with the department of marketing in the Pamplin College of Business, the department co-directs the Alfred P. Sloan Forest Industries Center. Students learn from the leading wood and renewable materials scientists in the world, who bring the latest science and application of principles to the classroom.

For More Information Contact:

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e: pstorfer@vt.edu

The Department of
Wood Science & Forest Products
at Virginia Tech 

KEYNOTE
SPEAKER



Virginia Forest Products Association - Virginia Tech Forest Products Industry Technology Conference September 7 - 8, 2007



The Inn at Virginia Tech • Blacksburg, VA

Preliminary Program

Friday, September 7, 2007

- 5:00 p.m. **Registration opens - Latham Ballroom Foyer**
6:00 p.m. **VFPA Reception - Wood Week at Virginia Tech Student Awards Recognition - Latham Ballroom**
Dinner - You're On Your Own . . .
Dine in the elegant Preston's Restaurant in the hotel or in one of Blacksburg's many restaurants.

Saturday, September 8, 2007 - All seminars are in the Alumni Assembly Hall

- 7:15 a.m. **Registration opens, coffee service available**
7:45 a.m. **Welcome to the Technology Conference**
Randy Bush, VFPA President, and Dr. Paul Winistorfer, Head, Dept. of Wood Science and Forest Products, VA Tech.
8:00 a.m. **Globalization of the Forest Product Industries**
8:00-8:30 a.m.: Globalization Trends and Housing: Impacts on the Forest Products Industry. (Dr. Al Schuler, Research Scientist, U.S. Forest Service, Princeton WV)
8:30-9:00 a.m.: Issues and Answers to the Impact of Transportation on the Competitiveness of the Appalachian Forest Products Industry. (Dr. Bob Smith, Professor and Interim Associate Dean for Engagement, College of Natural Resources, Virginia Tech)
9:00-9:30 a.m.: The Ins and Outs of the Port of Norfolk - What Does it Tell Us? (James Davis, Mid-Atlantic Regional Manager, Virginia Inland Port, Virginia Port Authority, Front Royal, VA)
9:30 a.m. **Question and answer session for all speakers, coffee break**
10:00 a.m. **Biofuels-Biomaterials: The Role of Renewable Energy in Our Future**
10:00-10:30 a.m.: Cellulosic Ethanol: Challenges and Opportunities. (Dr. Kevin Edgar, Professor, Department of Wood Science and Forest Products, Virginia Tech)
10:30-11:00 a.m.: Bioenergy and Biofuels Research at Virginia Tech. (Dr. Craig Nessler, Associate Dean and Director, Virginia Agricultural Experiment Station, Virginia Tech)
11:00-11:30 a.m.: The Federally Sponsored Sun Grant Initiative and Biofuels Initiative at the University of Tennessee (Dr. Tim Rials, Director of the Sun Grant and the University of Tennessee Forest Products Center)
11:30 a.m. **Question and answer period for all morning speakers**
12:00 p.m. **Lunch, Posters, VFPA Round Table Discussions - Latham Ballroom**
1:30 p.m. **Workforce Development: Human Capital for Our Industry**
1:30-2:00 p.m.: National Association of Manufacturers (NAM) Perspectives on Manufacturing. (Speaker TBA)
2:00-2:35 p.m.: Crafting a New Workforce Development Initiative in Wood Products Manufacturing at Danville Community College. (Gerald Sexton, Coordinator, Center for Advanced Manufacturing in Wood Products Technology, Danville Community College, Danville, VA)
2:35-3:10 p.m.: Developing a Workforce: Lessons from the Apprentice School in Newport News. (Dr. Robert P. Leber, Director, Education and Workforce Development, Northrop Grumman Corporation, Newport News Sector, Chairman of the Peninsula Council for Workforce Development and the Greater Peninsula Workforce Investment Board)
3:10-3:40 p.m.: The Wood Enterprise Institute at Virginia Tech: An Experimental "Concept-to-Market" Wood Products Business Start-Up by Virginia Tech Students. (Wood Enterprise students from the Department of Wood Science and Forest Products and Dr. Earl Kline, Professor and Lead Advisor to the Wood Enterprise Institute)
3:45 p.m. **Conference Wrap-Up and Adjournment**



Student Recognition and Scholarship Reception

Friday, September 7th, 2007

6:00 p.m. – 9:00 p.m.

The Inn at Virginia Tech

We invite you to join us on Friday, September 7th for a wonderful evening of recognition for our students. Scholarships and recognition of awards for the 2007–2008 academic year will be presented. Many of our scholarship sponsors and donors will be joining us for this celebration event.

The reception begins at 6:00 p.m. The scholarship and awards recognition portion of the evening will be from 6:30 – 7:00 p.m. The reception will continue until 9:00 p.m.

This event is one of many events being held during Wood Week 2007 at Virginia Tech, September 3-8, 2007. You can find a complete calendar of events for the week on-line at www.woodscience.vt.edu/woodweek that includes information on:



- Wood Magic Show
- Forest Products Career Awareness Fair
- Center for Forest Products Marketing and Management Advisory Board Meeting
- Social and Recreational Events
- Student Recognition and Scholarship Reception
- Virginia Forest products Association-Virginia Tech Forest Products Industry Technology Conference

We hope you can join us for this grand event to kick-off the academic year. Help us recognize the accomplishments of our students! These high-achieving and deserving students are the future of our industry. We look forward to seeing you at the reception.

We thank you for your continued support of our program and our students.

Warmest Regards,

Dr. Paul Winistorfer
Department Head

RSVP by August 31st to Angela Riegel
ariegel@vt.edu or 540.231.7107
www.woodscience.vt.edu/woodweek/