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25	26	27	28	29	30	31

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

- With this issue of Inside VT Wood we introduce a new spotlight feature 'Industry Partner Spotlight'. Our inaugural spotlight features Moulding & Millwork, a national firm with facilities in Richmond, VA. Moulding & Millwork has posted several job opportunities for our students on our 'Wood Industry Student Placement Program' website on our department homepage. Several recent Wood Science graduates have been hired by Moulding & Millwork for permanent positions. Congratulations to Moulding and Millwork!
- I participated in a facilitated work session of the Woodwork Career Alliance of North America last week in great DC. The WCA is developing a national skill standard for the secondary woodworking industry, with eventual intent to be credentialing skilled workers for our industry. Check out the website at: <http://woodworkcareer.org/>

Mark your calendar:

- Virginia Forest Products Association Spring Meeting March 20-22, 2009 Williamsburg, VA.
- Virginia Forestry Association Annual Convention April 24-26, 2009 Norfolk, VA.

Hindman, Araman Attend Earthcraft Training

By Dan Hindman

According to statistics, buildings consume 40% of primary energy use, 72% electricity produced, 39% of the carbon dioxide emissions and 13.6% of all potable water consumption. By developing better building materials and techniques, significant energy and material savings can be made. Most humans spend about 90% of their day inside a building rather than outdoors. The condition of the building space and the air quality present are directly related to health.

One growing trend in the building industry is green building, the concept that buildings should be efficient in their material and energy use and provide healthy environments for people to live and work. At the basic science level, green building is a further refinement of efficiency, where we are looking at the efficiency over the entire life of the structure — the materials and energy needed for construction, operation and destruction. These concepts are applied by several green building certification systems, which represent a method to quantify how 'green' a structure is in terms of energy and material use.



(Continued on [page 4](#))

MOULDING & MILLWORK

Established in 1926, Moulding & Millwork has grown to become a leader in the building products industry. In every area, we have built a reputation for maintaining standards that are the highest in the industry and fostered that reputation through strong relationships with major international suppliers. As one of the world's largest moulding distributors and manufacturers, we operate over 30 strategically located distribution centers and 8 manufacturing facilities throughout North America. Focusing on well-sourced high quality products, and an attention to excellent service, our company's highly trained team assists our customers to meet even the most demanding consumer requirements"



Virginia Manufacturing

Moulding & Millwork manufacturing facility in Richmond has a deserved reputation of producing some of the best quality Oak and maple mouldings in the world. This mill is one of North America's

largest oak moulding mills. Located in the heart of Red Oak country, most of the lumber comes from within 200 miles of the plant. Having low freight costs on raw material and the ability to buy a proprietary grade specific to the manufacturing of mouldings, provides a significant competitive advantage. Several VT Wood Science students have recently been hired by Moulding and Millwork!

Products

Moulding & Millwork offers the most comprehensive selection of interior moulding and trim products available in a variety of species, stocking more than 20,000 profiles designs across our distribution locations throughout North America.

Materials

Moulding & Millwork products are offered in a variety of species including:

- MDF Light (Primed Prefinished)
- SPERO (No added Urea Formaldehyde MDF)
- Pine (Finger Joint/ Clear)
- Poplar (Finger Joint/ Clear)
- Oak
- Douglas Fir
- Hemlock
- Knotty Alder
- Vinyl wrapped



Career Information

Interested in a Career at Moulding & Millwork please visit our web site at:

<http://www.mouldingandmillwork.com/careers>

Corporate Contact

Moulding & Millwork

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Spring 2009 Wood Science and Forest Products Teaching Schedule

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00	WOOD 4224 Pallet and Container Design, Rupert, 213 JCH, (8:00 – 8:50)	WOOD 3124 Paper and Paperboard Packaging, Rupert, 132 JCH, (8:00 – 9:15)	WOOD 4224 Pallet and Container Design, Rupert, 213 JCH, (8:00 – 8:50)	WOOD 3124 Paper and Paperboard Packaging, Rupert, 132 JCH, (8:00 – 9:15)	
9:00	WOOD 3316 Mechanical Properties of Wood, Hindman, 213 JCH, (9:05 – 9:55)	WOOD 3316 Mechanical Properties of Wood, Hindman, 213 JCH, (9:05 – 9:55)	WOOD 3316 Mechanical Properties of Wood, Hindman, 213 JCH, (9:05 – 9:55)	WOOD 4714 Wood Performance Construction, Loferski, 317A JCH, (9:30 – 10:45)	CHEM 2514, Survey of Organic Chemistry, Frazier, 317B Cheatham, (9:05 – 9:55)
9:30	CHEM 2514, Survey of Organic Chemistry, Frazier, 317B Cheatham, (9:05 – 9:55)	WOOD 4714 Wood Performance Construction, Loferski, 317A JCH, (9:30 – 10:45)	CHEM 2514, Survey of Organic Chemistry, Frazier, 317B Cheatham, (9:05 – 9:55)	WOOD 5984 Quantitative Wood Anatomy, Zink-Sharp, 213 JCH, (9:30 – 10:45)	
10:00	WOOD 3434 Wood Chemistry Products and Processing, Roman, 213 JCH, (10:10 – 11:00)	NR 4964/5964 Field Study, Hammett, 207 HUTCH, (9:30 – 10:45)	WOOD 3434 Wood Chemistry Products and Processing, Roman, 213 JCH, (10:10 – 11:00)	NR 4964/5964 Field Study, Hammett, 207 HUTCH, (9:30 – 10:45)	WOOD 3434 Wood Chemistry Products and Processing, Roman, 213 JCH, (10:10 – 11:00)
10:30					
11:00	WOOD 3544 Secondary Wood Manufacturing, Buehlmann, 213 JCH, (11:15 – 12:30)	WOOD 4446 Wood Adhesion and Composites, Rennekar, 213 JCH, (11:00 – 11:50)	WOOD 3544 Secondary Wood Manufacturing, Buehlmann, 213 JCH, (11:15 – 12:30)	WOOD 4446 Wood Adhesion and Composites, Rennekar, 213 JCH, (11:00 – 11:50)	
12:00	CEE 3414, Design of Wood Structures, Hindman, 32 PAM, (12:20 – 1:10)	WOOD 2554 Wood Materials Science, Roman, 132 JCH, (12:30 – 1:20)	CEE 3414, Design of Wood Structures, Hindman, 32 PAM, (12:20 – 1:10)	WOOD 2554 Wood Materials Science, Roman, 102 Brooks, (12:30 – 3:15)	CEE 3414, Design of Wood Structures, Hindman, 32 PAM, (12:20 – 1:10)
12:30					
1:00					
1:30	WOOD 2614 Forest Products Marketing, Bush, 317A JCH, (1:25 – 2:15)		WOOD 2614 Forest Products Marketing, Bush, 317A JCH, (1:25 – 2:15)		WOOD 2614 Forest Products Marketing, Bush, 317A JCH, (1:25 – 2:15)
2:00					
2:30	WOOD 5614 Forest Products Marketing and Management, Bush, 213 JCH, (2:30 – 3:45)		WOOD 5614 Forest Products Marketing and Management, Bush, 213 JCH, (2:30 – 3:45)		
3:00	WOOD 4446 Wood Adhesion and Composites, Rennekar, 102 Brooks, (2:30 – 5:20)		WOOD 3316 Mechanical Properties of Wood, Hindman, 102 Brooks, (2:30 – 5:20)		
3:30					
4:00					
4:30					
5:00		WOOD 1234 Intro to Wood Science and Forest Products, Loferski, 212 JCH, (3:30 – 4:20)		WOOD 1234 Introduction to Wood Science and Forest Products, Loferski, 102 Brooks, (3:30 – 6:15)	

Hindman, Araman Attend Earthcraft Training (continued from page 1)

One green building system is called Earthcraft Virginia, a statewide division of the Earthcraft House systems. Originally developed by the Southface Energy Institute and the Atlanta Homebuilders Association, Earthcraft Virginia focuses on the energy efficiency and air quality of residential structures. On January 14th, Dr. Daniel Hindman, Phil Araman, Matt Winn and Kevin Knight attended a builder training session in Harrisonburg, Virginia.

The training session included an overview of the Earthcraft House system, including the ENERGY STAR certification, which is an integral part of the system. The ENERGY STAR program requires the purchase of ENERGY STAR appliances and fixtures, as well as a blower door test that must demonstrate less than 6 cfm per 100 sq. ft. (6%) leakage to the outdoors. The average leakage for new homes built is 28 cfm per 100 sq. ft. (28%)! To achieve the 6% leakage level requires special attention to sealing all ductwork as well as any penetrations on the exterior of the structure.

Earthcraft House also contains many recommendations for advanced framing techniques, taking advantage of structural wood composites, trusses and wall systems with 24 inch on center spacing to accommodate higher levels of insulation. Several builders currently use the Earthcraft system in the Montgomery County area. Contrary to many beliefs, the presenters emphasized that a green home will cost less money to the consumer, as the increased attention to air leakage will have a significant effect upon energy bills. Ultimately, green building can provide a less expensive, safer and more comfortable home.