



April 2009

Implementation for Lacey Amendment proposed by APHIS

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The Animal and Plant Health Inspection Service (APHIS) recently announced a new timeline for implementation of the documents required under the amendment to the Lacey Act. The 2008 amendment expanded the Lacey Act beyond its original to include plants. The law now makes it illegal to import, transport, sell, receive, acquire, or purchase any plant which was harvested in violation of US or foreign law. While the requirements for declaration have not been implemented, the amendment is already in effect and all provisions may be enforced at any time.

The current proposal for implementation occurs in four phases. Phases 1 – 3 are outlined below. Information is presented by Chapter according to the Harmonized Tariff Schedule of the United States (<http://ftp.usitc.gov/tata/hts/bychapter/index.htm>).

Phase 1

Through March 2009
Import Declaration Form available and accepted

Phase II

April 1, 2009 – September 30, 2009
Ch. 44 Headings (wood and articles of wood)
4401 – Fuel wood
4403 – Wood in the rough
4404 – Hopwood, poles, piles, stakes
4406 – Railway or tramway sleepers
4407 – Wood sawn or chipped lengthwise
4409 – Wood continuously shaped
4417 – Tools, tool handles, broom handles
4418 – Builders joinery and carpentry of wood

Phase III

October 1, 2009 – March 31, 2010
Ch. 44 Headings (wood and articles of wood)
All of items in Phase II plus:
4402 – Wood charcoal
4405 – Wood wool
4410 – Particle board
4411 – Fiberboard of

wood
4412 – Plywood, veneered panels
4413 – Densified wood
4414 – Wooden frames
4415 – Packing cases, boxes, crates, drums
4416 – Casks, barrels, vats, tubs
4419 – Tableware and kitchenware of wood
4420 – Wood marquetry, caskets, statuettes
Ch. 47 Headings (wood pulp)
4701 – Mechanical wood pulp
4702 – Chemical wood pulp, dissolving
4703 – Chemical wood pulp, sulfate
4704 – Chemical wood pulp, sulfite
4705 – Combination mechanical and chemical

Visit http://www.aphis.usda.gov/plant_health/lacey_act/index.shtml for more information on the APHIS Lacey Act Implementation.

Wood Adhesion Short Course

June 3-4, 2009
107 Richardson Hall
Oregon State University
Corvallis, OR

Why does glue stick? What makes wood unique when it comes to gluing it together? The adhesive bonding of wood is becoming increasingly important as large timber becomes more and more scarce. Industries are adopting new technologies to bond wood pieces into larger elements such as flat panels, finger-jointed lumber, furniture parts, etc. Industry professionals need to learn more about the science of wood adhesion to effectively troubleshoot wood bonding problems and adopt new technologies.

This short course will introduce the basic concepts of adhesion, and then build on these concepts with specific attention to wood. Upon completion of the course, participants will better understand the unique bonding characteristics of wood. They will be better prepared to analyze existing problems and performance, and evaluate new applications.

Who Should Attend:

- Persons involved with the research and development of wood adhesive and wood composite technologies
- Individuals who manage adhesive or composite-manufacturing processes, and who wish to sharpen their knowledge of wood and wood adhesion
- Persons seeking an introduction to wood within the context of adhesion and composite technologies
- Adhesive suppliers who wish to improve their ability to communicate with the forest products industry
- Persons who have had some college level chemistry, and are comfortable with basic chemical principles

More information on this course is available at http://www.wbc.vt.edu/industry/downloads/Wood_Adhesion_SC_Info.pdf.

Graduating Student Profile: Vardan Rathi

After earning a degree in Chemical Engineering from Anna University, India, in 2005, Vardan went on a world-wide search for the best place to enhance his credentials with an advanced degree. "OSU's Forestry department was ranked number one throughout North America and my primary interest in manufacturing wood panel products directed me to come here to do my MS", he explains. Its proven

to be a good choice. Vardan has now earned a dual MS degree in Wood Science and Materials Science under major professor Dr. Fred Kamke.

His research work focused on development of the process for the Viscoelastic Thermal Compression (VTC) of wood. "VTC is a treatment which involves the thermal compression of wood perpendicular to

the grain in the presence of steam, which acts as plasticizer, resulting in densification without fracturing the cell wall", Vardan explains. "The increase in density follows with increased mechanical properties of the wood. This project provided the opportunity to apply my engineering skills to explore a new process. My first task was to design and construct a pressurized chamber, with instrumentation for tempera-

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Graduating Student Profile cont.

ture and steam pressure control, capable of producing densified wood stands. I then explored the benefits of VTC treatment by making OSB test panels and evaluating their mechanical properties."

Although Vardan had little background in the forest products industry when he came to OSU, he found the curriculum well suited to his desire to learn something new while building on his engineering background. "The learning process at OSU has been systematic and interesting. The rungs of the ladder were climbed on a sequential basis. First the wood anatomy was learned. Then the mechanical properties and

the corresponding structural application followed. Then the hands-on experience of manufacturing OSB was specialized. Also, a pressurized vessel to densify wood was constructed. Many engineering diffi-



culties were tackled and a process was developed to increase wood density."

Vardan believes in working with 100% dedication and enthusiasm. He is well organized, and a firm believer that good planning is essential to complete tasks prior to deadlines. His immediate career goal is to find employment in the panel products industry where he can apply both his engineering skills and knowledge of wood technology to improve the performance of industry processes. He has no geographical restrictions and is willing to travel. "Anyplace where the work requires me to be is fine, whether it's a mill, lab or an office."

Vardan's current e-mail address is Vardan.rathi@oregonstate.edu.

Graduating Student Profile: Matthew Schwarzkopf

Matthew came to OSU to pursue a Masters degree after graduating from Iowa State in 2007 with a BS in Forestry. His interest in wood technology and composites attracted him to OSU's Wood Science and Engineering program where he has worked under Dr. Kaichang Li on the development of soy-based formaldehyde-free adhesives to bond OSB.

"My studies developed and evaluated the performance of several different soy-based adhesives systems" Matthew explains. "I made a series of OSB test panels with each formulation and measured their strength values using modulus of rupture, modulus of elasticity, internal bond, linear expansion, and thickness swelling." This research work is now nearly complete, and

Matthew is looking forward to applying his knowledge toward a career in wood composites or adhesives when he is awarded his degree in June, 2009.

Matthew has a keen curiosity and is anxious to learn about and contribute to the wood products industry. "I would like to have a job that exposes me to many levels and areas of the industry. Although I grew up in a small town in Iowa, I'd be happy to relocate almost anywhere if it would provide the opportunity to work with development and testing of products, or in production management. Travel and experiencing new challenges are appealing to me. One of the best parts of my studies at OSU has been the opportunity to tour pro-

duction facilities in the surrounding areas. Seeing technology in action has been a great learning experience. I had never been exposed to



it before and seeing the production scale and efficiency was very impressive."

"Tenacious" is a word that best describes Matthew and his ap-

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Graduating Student Profile cont.

proach to challenges. "My work and educational background in wood composites, wood adhesives, and wood preservatives has provided me with a well rounded base of wood science knowledge. I'm interested in the progression of technology from the lab to the production facility, and am willing to work hard to facilitate improve-



ments that lead to adoption of better systems and techniques." Matthew is actively seeking employment opportunities right now.

If he sounds like a fit, please contact him at Matthew.schwarzkopf@oregonstate.edu and get better acquainted.

Keeping the Oregon Forest Industry Directory Up-to-Date

Given the dismal state of markets right now, it is more important than ever that you do all you can to locate new customers - and to ensure your customers are able to find you. The primary tool we use for linking buyers and sellers in Oregon's forest industry is the Oregon Forest Industry Directory. We currently have two students working with us to help us update the Directory. These students may

be contacting you about your listing and assisting you with updating your listing. We appreciate your cooperation.

If you would like to update your company's listing yourself, please visit <http://www.orforestdirectory.com> and have a look at your company's listing. You can follow the link to 'Companies' on the left-hand side and search alphabetically or simply enter any part of your com-

pany name in the Search box at the top left. If you have already registered, you can log in and update your listing. If you have not yet registered, you can click on the link at the bottom of your company page that says "Are you with this company? Request an account to edit this listing."

Questions? Let us know at owic@oregonstate.edu.

Registration Open for Wood-Based Composite Science Online Course Series

Oregon State University's College of Forestry has teamed up with the Wood-Based Composites Center, the Oregon Wood Innovation Center and OSU Extended Campus (Ecampus) to deliver Wood-Based Composite Science courses in a 19-course online series. The new online Wood-Based Composite Science Short Course Series will debut in May and will provide career professionals with a fundamental knowledge of wood as an engineering material in the manufacture of wood-based composites. Students who complete courses from the series may be eligible for

a Certificate of Mastery and will be able to improve manufacturing efficiency and product performance, troubleshoot processing problems and enhance their value to their employer.

Courses are taught by experts in the field of wood science and technology and have been selected from top universities, government research labs and industry. The courses are integrated and build upon each other to provide a logical progression as participants transfer newly-acquired skills to the workplace. Although the courses are self-paced, the instructors

will provide consultation online through discussion and weekly chat sessions.

Each course is five weeks long and includes five to 10 hours of instruction. The fee for a 10-hour course is \$750. The Certificate of Mastery requires a minimum of 120 hours of instruction and costs \$9,000. The first course begins May 11. For more information and to register, visit <http://ecampus.oregonstate.edu/workforce/wood-based-composite-science/>.

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Celebrate Fernhopper Day

Saturday, May 2, 2009

8:30 - 11:30 am

OSU, College of Forestry Richardson Hall First Floor Knuckle

The College of Forestry invites you and your family to join us for the 77th Annual Fernhopper celebration. This year's Fernhopper activities will take place in the morning and provide an opportunity for you to also participate in several other fun campus activities: OSU Pet Day, Mom's Weekend, Spring Football scrimmage, and a Baseball game. We are planning a program that will feature an update by the Dean and highlight current work by faculty and students. Refreshments will be provided. SAF CFE, AOL OPL credits available.

For details and to register, visit <http://fernhopper.forestry.oregonstate.edu/>.



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