



WORLD
FORESTRY
CENTER

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World Forest Institute

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4033 SW Canyon Road
Portland, Oregon 97221 USA
Phone: 503-488-2130
Fax: 503-228-4608
<http://wfi.worldforestry.org>

WFI Staff

Sara Wu, WFI Director
503-488-2130
swu@worldforestry.org

Angie DiSalvo, Manager
503-488-2137
adisalvo@worldforestry.org

Mariane Camargo, Brazil
503-488-2121
mcamargo@worldforestry.org

Namgon Kwag, Korea
503-488-2154
nkwag@worldforestry.org

Matthew Pope, Australia
503-488-2148
mpope@worldforestry.org

Deepak Tamang, Nepal
503-488-2135
dtamang@worldforestry.org

Nathan Trushell, Australia
503-488-2122
ntrushell@worldforestry.org

Linsen Zhao, China
503-488-2124
lzhao@worldforestry.org

WFI Welcomes Fellows from China and Korea

In November, Dr. Linsen Zhao joined WFI for a six-month Fellowship. Linsen is a professor in Landscape Architecture at the Southwest Forestry College in Kunming, Yunnan, China and he is sponsored by the China Scholarship Council. Linsen's background is in silviculture, however, he has been working in urban forestry since 2001. In 2002-2003 Linsen spent one year at UC Berkley as a visiting scholar studying urban forestry.

During his Fellowship, Linsen will research social issues related to urban forestry, and is particularly

interested in public participation in planning, planting and maintaining urban forests. He will also spend time working with research methodology for carbon sequestration by urban vegetation and various models that estimate the benefits of urban forests such as STRATUM and CITYGreen.

In December, Mr. Namgon Kwag also joined WFI for a six-month Fellowship. Namgon is sponsored by his employer, Eagon. Namgon is the fifth Fellow to be sponsored by Eagon, whose closest office is in Seattle. Namgon is a manager on the Management Support Team

for Eagon Living Co. Ltd, a wood flooring subsidiary, and deals with planning and corporate activities. Previously, he has worked with Eagon on a variety of tasks, including corporate strategy planning, labor affairs, flooring distribution, and wood veneer purchasing.

During his Fellowship, Namgon will be exploring homebuilding and decorating trends and the housing market. He is interested in how Americans do business and how they are currently dealing with environmental issues.

WFI welcomes these two new Fellows to Portland!



Left: Linsen Zhao at a tropical botanical garden in Jinghong, Xishuangbanna, China. Right: Namgon Kwag with his wife and sons ages 2 and 4, who will join him in Portland in January.

Recent Events



WFC hosted the Society of American Foresters National Convention for an evening in the Discovery Museum. WFI Manager Angie DiSalvo (right) was recently elected SAF Delegate-At-Large.



Fellows learned about the salmon lifecycle by visiting wild salmon spawning in Eagle Creek and viewing hatchery production at Bonneville Dam (above).



Mariane Bueno de Camargo gave a public presentation on plantation forestry and forest products in Brazil at WFC.



Fellows mingled with guests at WFC's annual O' Tannenbaum gala. Deepak Tamang wore traditional Nepalese dress.

Fellows Receive Insiders' Tour at Weyerhaeuser

Fellows traveled to Federal Way, Washington, to visit with Weyerhaeuser at their corporate headquarters. Weyerhaeuser is one of the largest forest products companies world-wide, with an annual sales revenue of \$21.9B USD and 46,700 employees in 18 countries. A large majority of their forestlands are located in Canada (26 million acres) but they also manage over 6 million acres in the US.

Jim James, the Director for Environmental Affairs, hosted Fellows and arranged a variety of speakers and presentations. Jim has hosted WFI in the past and is well versed in Weyerhaeuser's inner workings. He explained some of the company's core values, one of which is safety. The company believes that there is no such thing as accidents and that all incidents are preventable. Thus, the group received safety briefings at each stage in the tour.

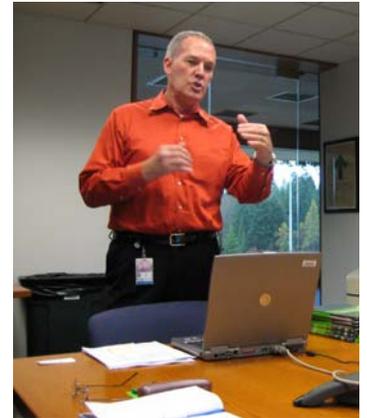
Another of Weyerhaeuser's focus areas is sustainability. All Weyerhaeuser lands are certified, predominately with the Sustainable Forest Initiative in North America, and elsewhere according to local schemes or ISO 4001. Jim explained that certification may not give a market premium, but it does give market access or preferred supplier status, especially to large companies such as Home Depot. Additionally, certification is viewed by the company as being a good management practice.

Speakers touched on a wide variety of topics of interest to Fellows, including invest-

ments in South America and the marketing of Lyptus, a brand for eucalyptus products. Tracking in the log supply chain was explained by the IT department. A researcher from their inventory department discussed experimental plans using LIDAR to acquire inventory data, although this is still in the research phase and much of the information is proprietary.

Fellows were also treated to a tour of the Technology Center. This top secret facility is one of the few remaining large research centers run by forest products companies. Home to 400 researchers, the center conducts a variety of studies, from product quality and strength testing to genetic improvement and cloning to new product development.

Fellows were impressed with the managers' dedication to the company and the strides the company is taking to stay ahead in today's difficult market.



Managers discussed different business operations, including investment in mills and plantations in Uruguay and Brazil. Weyerhaeuser has several joint ventures in South America for pine and eucalyptus for domestic and international use.



Matt Pope (Australia) examines a tag used in tracking export quality logs as they are transported from the forest to the mill.



From left: Deepak (Nepal), Matt (Australia), Jim James, Nathan (Australia), Mariane (Brazil) and Nerijus (Lithuania) after touring the Weyerhaeuser Technology Center in Federal Way, Washington.

WFI Networks with CINTRAFOR and University of Washington

The University of Washington is one of the largest Pacific Northwest schools with 38,000 students. The College of Forest Resources (CFR) offers a variety of undergraduate and graduate degrees. Fellows spent a day in Seattle utilizing the expertise of the CFR faculty and staff.

CINTRAFOR (Center for International Trade in Forest Products) Director Ivan Eastin and Professor John Perez-Garcia hosted Fellows for a session on softwood lumber exports. The group learned about trends in wood products trade, which was of particular interest to Mariane Camargo (Brazil) who is researching moulding and mill-work markets. WFI hopes to collaborate further with CINTRAFOR on projects in the future.

Fellows also met individually with a variety of professors to discuss their projects, on topics of sustainability, technology, marketing, and trade.

In the afternoon Fellows attended the Denman Forestry Issues Series, which was a four-hour series of presentations on biofuels and bioenergy. Over ten speakers provided a variety of viewpoints on Washington's biomass resources and processing issues.



The WFI Fellows take a break outside the Center for Urban Horticulture at the University of Washington.

Winter Weather brings Pulp, Paper, and Particleboard Tours

After spending the warm dry months visiting forestlands, Fellows explored some of the many processing facilities for creating forest products. Sawmills produce residuals that are used by secondary industries to create a variety of products, including pulp, paper, and engineered wood products.

Weyerhaeuser operates a pulp and paper Kraft mill in Albany that processes 1800 tons of raw material per day. Approximately 50% of the fiber used is

pulped from chips, mostly from mill waste. The remainder is from recycled packaging. Materials are brought to the facility by truck, almost all from within a 50 mile radius. The final product, which is a three layer kraft paper, is sent for finishing as linerboard and bags at other facilities.

Flakeboard, a Canadian company, operates a Durafake particleboard plant in Albany. Durafake is a well known brand name and they produce a wide variety of panels for cabinetry, furni-

ture, underlayment, and sheet stock. Recently there has been more demand for green certified products and they have a specialty line made without urea or formaldehyde. Altogether, the mill produces 435,000 m³ annually.

Raw materials and waste from other mills are dried, milled and blended with resins, glue, and wax. There are separate formulas for the particleboard face and core. The blended materials are then formed, pressed, sanded, and trimmed before being shipped to customers across the US.



Left: Matt Pope and Linsen Zhao listen as Weyerhaeuser engineer Scott Freeburn gives an overview of the pulping process. Right: Fellows examine formed fire rated particleboard before it enters the press.

WFI Bids Farewell to Lithuanian Fellow Nerijus Miskinis

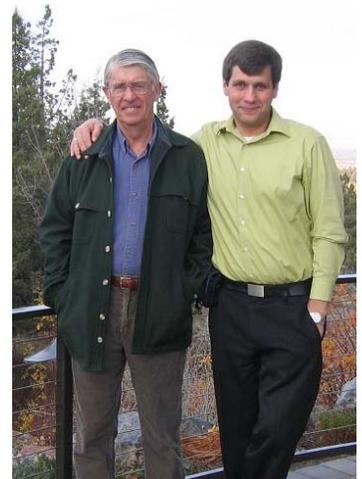
2007 passed quickly for Nerijus Miskinis, WFI's first Lithuanian Fellow, who completed his Fellowship in December. Nerijus' Fellowship was sponsored by the Shelk Foundation. During his time at WFI, Nerijus interviewed CEOs and managers in the forest industry in order to compare forest sector issues between the two countries.

"I feel lucky because I worked on such a project," said Nerijus. "I liked what I did, I greatly enjoyed the people I met and

I strongly believe it will help me improve my personal life in the future. How and how much? Probably I will answer this question completely 20 years later!"

Nerijus is planning to travel to Brazil before returning to Lithuania to finish his Ph.D. project at the Lithuanian University of Agriculture.

Farewells are always difficult, but Nerijus will remember the good times. "I would consider the World Forestry Center my home in the US," said Nerijus. "I will miss this Rose City!"



Board Member John Shelk hosted Nerijus for a visit to Ochoco Lumber in Prineville and John Day, where they visited forestland, business offices, and John's home.

Updates from our Alumni Around the Globe



Jiunn-cheng "David" Lin, I-Shang Chen, and Min-chung "Galy" Yang



Pei-jung Wang (right) with husband and one-year old son



Chiung-pin "Bonnie" Liu and WFI Director Sara Wu at Bonnie's university in Tai-chung



Yen-Chang Chen and his son

Send us your updates and photos for the next issue!

Taiwanese Alumni Reunite in Taipei



Director Sara Wu gathered all five of the Taiwanese alumni, their families, and other colleagues who have visited WFI for a dinner at the World Trade Center in Taipei. Many stories of life in Portland were shared!

In November, WFI Director Sara Wu visited Taiwan and had the opportunity to meet with all of WFI's Taiwanese alumni, most of them from the Taiwan Forest Research Institute.

The reunion kicked off atop the Taipei World Trade Center, where dinner was held in a suite overlooking the city nightscape. Those attending included Mr. Yen-Chang Chen and his wife and younger son, Dr. Chiung-Pin "Bonnie" Liu, Dr. Jiunn-Cheng "David" Lin and his wife and two sons, I-Shang Chen, Dr. John Wu, Min-Chung "Galy" Yang, and Dr. Pei-Jung Wang and her husband and baby son. Hosting the event were Sara Wu, her father and his wife.

Many of the alumni had to travel far to attend the dinner, as David is director of the remote Taimali research station, Yen-Chang is now director of the Fushan forest recreation reserve, and Bonnie teaches at a university in Tai-chung. The effort

they made to attend the dinner was greatly appreciated and it was an opportunity to catch up on what everyone has been doing.

In the days following the alumni reunion, Bonnie accompanied Sara and her family to Fushan, where the Taiwan Forest Research Institute operates an experimental research forest that is also a popular tourist site. Yen-Chang Chen is now the director of the research station. The Fushan watershed feeds into Taipei's drinking water catchment and visitors are restricted to 300 persons a day to protect the wildlife habitat and watershed. Director Chen invited the Wus to stay the night at the TFRI research facilities, which includes living quarters. Wildlife is plentiful at the reserve, including monkeys, various birds, wild pigs, bats, and insects. There are also fern gardens, a rhododendron garden and rare native species. University students and faculty routinely conduct

studies at Fushan, and a small but effective staff, along with hundreds of volunteers, help to maintain trails and provide educational interpretation. Some of the plants at Fushan have medicinal potential and are being analyzed to produce commercial applications.

After Fushan, Bonnie met the Wus in Taichung, where they took Taiwan's new high-speed rail to get there in less than an hour from Taipei. Bonnie is a professor of watershed ecology, the only female faculty in the entire forestry department. One of her students toured the group through the newly opened National Museum of Natural Science, where a large indoor arboretum houses a waterfall, canopy walk and many tropical plants. The museum also boasts a life-size, multi-million dollar robotic T-Rex dinosaur. The museum is one of many new recreational parks and visitor centers that Taiwan is building to attract tourists. WFI sends heartfelt thanks to our Taiwanese alumni for facilitating these trips!

