



The Global Institute of Sustainable Forestry at the **Yale** School of Forestry & Environmental Studies

Executive Education in Forestry Program

Forestry and the Global Environment: Challenges of Managing and Conserving Forests in the 21st Century

March 23 - 28, 2014

An Intensive One-week Course for Professionals from Around the World, Whose Work Requires Understanding the Environment.

Effective decisions about forests, forest products, and forestry need to be based on valid information and the most comprehensive understanding of this information at all scales - from the global to the local. Our understanding of forests and the information upon which this understanding is based has changed dramatically during the past few years.

The purpose of this course is to put the best decision-making tools about forest management into the hands of those who will be making the decisions. The

Yale Executive Education in Forestry Program has been designed for busy professionals whose work requires understanding the environment, particularly in regard to forests. It will be of value to business managers in investment, resource management, and energy as well as



timber and wood industries, to environmentalists and NGOs, to government officials of all levels concerned with forest and environmental management, to development specialists, and to forest owners. It is intended both for executives with little or no background in forestry who find themselves in organizations involving forests and forest products, and for managers who are trained and experienced in forest practices and are stepping into positions which require a broad perspective of forests and their roles in the world economy. The mixture will allow individuals to learn from each other's lifetime experience in a different, sometimes opposing field, and to broaden their own perspective on the issues and problems of managing forestlands. While classes overall are mixed

there will be a field trip to view and discuss forests and soils, for those coming without forestry experience.

Course Structure and Content

The course will be intensive and hands-on. Expect to work hard and have preconceptions challenged. Lectures will be supplemented with hands-on computer simulations, conducted as group exercises with technical assistance from Prof. Oliver and Yale graduate teaching assistants. Students will be expected to present their results to the class the next day. By the end of the week, participants will have the know-how to use landscape-modeling software to make decisions, and to present and explain the rationale for those decisions.



The week will begin with an ice-breaker reception on Sunday evening, and end Friday at noon. During the day, classes will begin at 8:00 a.m., and other than Friday, run until 5:00 p.m., with lunch and coffee breaks. After a break for dinner, Monday through Wednesday evenings will be devoted to the computer sessions. Participants are expected to bring their IBM compatible laptops, and know how to use MS Excel and MS Powerpoint.

On Thursday, there will be the field trip to look at different forest and soil types. For those remaining in town there will be panel discussions on emerging issues in forestry. A group dinner at one of New Haven's fine restaurants will round out the evening.



Classes are kept small, with a limit of 15 participants, for close instructor-participant interaction, and to build a close camaraderie among participants. Participants in the past have included executives from Financial Management, the Timber Industry, the U.S. Forest Service, State Foresters, Heads of ENGOs, the World Bank, the Office of the Environment of Switzerland, the US Department of Agriculture, and Academia, as well as family forest owners, and have come from the U.S., Australia, Armenia, the UK, Switzerland, Canada, France, Hong Kong, Portugal, Ghana, and Thailand.

Topics Will Include:

The Global Forestry Environment

- Overview of present and past conditions, and anticipated changes in the natural, economic, and social environments.
- Climate and ecosystems
- Water and soils
- Biodiversity, wildlife and disturbances
- World human population patterns and development
- Global distribution of wood
- Agriculture

How Forests Grow

- Management for commodity and non-commodity values
- Changes in our ecological understanding of forests
- Forest stand dynamics and silviculture
- Wood properties and present and future uses
- Investing in and managing forest tracts
- Global trade

"The level and quality of instruction was superb, the material was fascinating, and the professionalism and dedication of the faculty exceeded expectations in every respect. I would highly recommend this program to anyone in the investment community seriously considering involvement in a timber management program of any kind."

Edward W. Kane, Senior
Managing Director
HarbourVest Partners

Investing

- Financial considerations of forest management
- Strategic and tactical planning
- Global status and trends of who owns the forests
- Mechanisms of ownership and organization of forests
- Global forest lands and enterprises

Field Trip - Variables Affecting Forest Management

- Soils
- Slopes
- Weather
- Harvesting patterns
- Plantations
- Pure and mixed species stands
- Even-age and uneven-age management
- Species choices
- Illegal logging
- Forest health and invasive exotic pests
- Energy, wood and the future
- Forest certification
- Carbon sequestration and carbon credits
- Payment for environmental services
- Reserves, integrated management, and intensive plantations
- Rural forest communities - a worldwide forestry issue
- Sustainable consumption
- Tropical forest issues

Emerging Issues Panel Discussions - Biological, Policy, and Social

Examples of topics to be discussed

- Forestry and biotechnology
- Illegal logging
- Forest health and invasive exotic pests
- Energy, wood and the future
- Forest certification
- Carbon sequestration and carbon credits
- Payment for environmental services
- Reserves, integrated management, and intensive plantations
- Rural forest communities - a worldwide forestry issue
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Instructors

The course will give participants access to some of the most advanced thinkers in forest management and forest economics issues working in the field. It is organized and led by **Chadwick Dearing Oliver, Ph.D.**, the Pinchot Professor of Forestry and Environmental Studies at the Yale School of Forestry and Environmental Studies, and Director of Yale's Global Institute of Sustainable Forestry. Professor Oliver's initial research focused on the basic understanding of how forests develop and how silviculture can be applied to ecological systems most effectively. During the past decade he has also examined how this understanding can help resolve

"This course provided a wealth of information on sustainable forestry; not only has it reinforced my interest in natural resource and environmental issues, it has provided tools and insight for me to perform my job more effectively."

Andrew Vlasaty, Congressional Liaison, U.S. Dept. of Agriculture



"The interaction with other colleagues from both the private and public sectors, nationally as well as internationally, coupled with excellent curricula and instructors, makes this mid-career course a must for foresters seeking to exercise leadership within the organizations they serve."

Steven W. Koehn, Director/State Forester, Maryland DNR Forest Service



scientific, technical, and management issues at the landscape and policy levels. He is the author of more than 100 scientific and technical papers, and has considerable experience advising public and private forest resource organizations in the United States and abroad. His work has taken him to all parts of the United States and to Canada, Mexico, Turkey, Nepal, Japan, Thailand, Sweden, Finland, Russia, Ecuador, Germany, and France.

In addition to Dr. Oliver, primary instructors are drawn from world experts on specific topics, both from inside and out of Yale, and additional experts are brought in as single topic lecturers or panel discussants. Outside instructors over the past years have included:

Jack Lutz, PhD, Principal and Forest Economist at Forest Research Group, an independent research and consulting group located in Alton, Maine. Dr. Lutz has spent 20 years studying or working in the timberland investment industry, including seven years as a forest economics consultant, four years in forest economics research, nine years teaching forestry, business and economics at the University of New Hampshire, and five years as a corporate planning analyst and controller with a major forest products firm.



Deborah Spalding, CFA, Founder and Managing Partner at Working Lands Investment Partners, LLC which specializes in the investment and long term stewardship of sustainably managed working lands. Ms. Spalding has worked in the financial industry for more than 17 years, serving in senior executive positions in the U.S. and overseas.

John Perez-Garcia, Ph.D., Professor in Forest Economics and Manager of the CINTRAFOR Global Trade Model at the Center for International Trade in Forest Products in the College of Forest Resources. He has over a decade and a half of experience with the trade model, and was a natural resource specialist in forest products utilization prior to his receiving his doctoral degree.

Roger Sedjo, Ph.D., Director of the Forest Economics and Policy Program of Resources for the Future. Dr. Sedjo also has been a consultant to the World Bank, the Asian

Development Bank, the U.S. Agency for International Development, the Food and Agricultural Organization of the United Nations, the Organisation for Economic Cooperation and Development, and other international organizations in more than a dozen countries, including Argentina, Chile, Indonesia, New Zealand, Russia, Romania, Estonia, and Thailand.

Lloyd Irland, Ph. D., Former Director for the Bureau of Public Lands, and then State Economist for Maine, a research economist for US Forest Service, now primarily a consultant on timber and market issues both to industry and also governments, trade and environmental groups.

Yale Faculty Panelists and Lecturers Have Included:

Mark Ashton, Ph.D., Professor of Silviculture and Forest Ecology

Ben Cashore, Ph.D., Professor, School of Forestry & Environmental Studies Associate Professor, Political Science, Faculty Director, Program on Forest Policy and Governance

Florencia Montagnini, Ph.D., Director of the Program in Tropical Forestry

Bradford Gentry, Ph.D., Co-Director of the Center for Business & the Environment

Reid Lifset, M.P.P.M. Associate Director of the Industrial Environmental Management Program

Mary Tyrrell, M.F.S., Executive Director, The Global Institute of Sustainable Forestry

David Skelly, Ph.D., Professor, Forestry & Environmental Studies; Ecology and Evolutionary Biology

Karen C. Seto, Ph.D., Associate Professor of the Urban Environment

Robert Talbot Trotter, Ph.D., Associate Research Scientist

Setting, Tuition and Logistics

Courses take place in New Haven, Connecticut, on or near the historic Yale University campus depending on the size of the class. During the past few years, New Haven has undergone an economic and artistic renaissance, becoming a destination city for art, theater and restaurants. Participants will be housed at a one of the elite downtown hotels within walking distance of campus allowing you to enjoy the amenities of New Haven and Yale's historic campus in your spare hours. Vans will be available for transportation to class if preferred.

Tuition is \$7,500 if reserved by February 28; \$8,000 after that. The fee includes registration, hotel room, breakfast, lunch, coffee breaks and dinner on Thursday evening, and all course materials. In addition to taking home with you all you have learned, your workbooks, handouts, computer software, and a selection of text books and reference books by the instructors will be available gratis as part of the course, shipped free of charge at the end of the week to avoid the nuisance of having to transport them yourself. In addition to all these, you will find yourself part of a network of highly educated and motivated individuals you can return to time and again for advice and suggestion throughout your career.

A very limited number of discounted admissions are available to those working in nonprofit sectors. Please contact Barbara Ruth, to discuss discounted tuition.





Yale School of Forestry & Environmental Studies
Executive Education in Forestry Program

March 23 - 28, 2014 Application Form

Name

Title

Organization

Mailing Address

Home Phone

Office Phone

Mobile Phone

Fax

Email

Please attach an abbreviated, updated CV, a list of 3 References who may be contacted for letters of reference, and a short, 1 or 2 page statement of what your expectations are for attending this course.

Please mail, email or fax all materials to:

Barbara Ruth
Global Institute of Sustainable Forestry
360 Prospect St.
New Haven, CT 06511 USA
Phone: 203 432-5117
Fax: 203 432-3809
barbara.ruth@yale.edu

Tuition is \$7,500 if reserved by February 28; \$8,000 after that.

Once you have registered for the course, we will be in touch concerning travel arrangements and assistance. We will make your hotel reservations for the nights of March 23 through March 27 (departing Friday March 28). If you need to stay additional nights you will be responsible for payment, but we will be happy to assist with the arrangements, as well as with any other arrangements, special dietary or any other needs during your stay in New Haven. The course will begin Sunday evening, March 23 at 6:00 p.m. with an informal reception. Please try to arrive in time for the reception. There will be a shuttle from the Omni Hotel to the reception.

If you have any questions, contact Barbara Ruth at the numbers above.