

Project Leader's Report

May - 2004



DMSE
DISTURBANCE AND MANAGEMENT
OF SOUTHERN ECOSYSTEMS

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Outreach Activities:

Two organized groups totaling 30 people visited the Brender Forest during May. Groups included a Mercer University Environmental Science Lab studying total biota, and a Boy Scout Troop from Monticello, GA.

Approximately 40 visitors came by the office at the Brender Forest for information and 13 people signed the register at the Hitchiti Interpretive Trail. There were 39 turkeys harvested during the Piedmont National Wildlife Refuge and Hitchiti hunt, with 8 of these coming off the Hitchiti. The largest turkey was taken on the Hitchiti, weighing 21.5 pounds.



Technology Transfer :

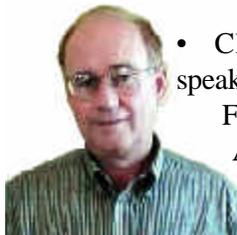


- Alex Clark attended AF&PA's Agenda 2020 Wood and Wood Composites Task Group—formerly the Committee on Research Evaluation (CORE)—meeting, held at the Forest Products Lab in Madison, Wisconsin. He presented an update of ongoing work on “Impact of fertilization on wood properties of loblolly pine.”

- Clark also attended the Alabama Society of American Foresters Annual Meeting in Birmingham, Alabama. He discussed the effect of silvicultural practices on wood properties.

- The Wood Quality Consortium held its annual meeting at the University of Georgia in Athens. Alex Clark, Co-

Director of the Consortium, attended and provided an update of research in progress.



- Clark was a guest speaker on the Alabama Forest Owners Association, Inc. Capital Ideas Live program on the web. He discussed the effect of silvicultural practices on wood properties of southern pine. Audio for his call-in show is at the website: www.alabamaforestowners.com/CILive/CI_Indxa.htm.

- Clark made a presentation at the Plum Creek Timber Company in Watkinsville, Georgia, on the wood properties of plantation southern pine and how properties affect product quality.

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Michael Monthey, from Germany, visited the Brender Forest and took some inventory plots of trees and lesser vegetation to compare with similar locations in Europe. Monthey is associated with the Geography Department at the University of Georgia.

- Ken Outcalt, by invitation of the National Park Service, reviewed the fire plan for the Cumberland Island National Seashore in coastal Georgia.



Plum Orchard Mansion, Cumberland Island, GA.



Cumberland Island wildhorses.



Fire Experts convened to review the fire plan for Cumberland Island National Seashore (Ken Outcalt, bottom right).

- Outcalt will attend a workshop in June at Tall Timbers Fire Ecology Lab in Tallahassee to present his Fire Regime Condition Class models for review. He attended a workshop in March to begin development of FRCC models specific to conditions in the South.

- John Stanturf presented a paper “Disturbance Dynamics of Forested Ecosystems” at the IUFRO Conference Natural Disturbances and Ecosystem-Based Forest Management, held in Otepää, near Tartu, Estonia. A revised paper, focusing on ways to incorporate knowledge of disturbance dynamics into forest management, will be submitted for a special issue of the *Scandinavian Journal of Forest Research*. The Estonians are as fanatic about sauna as the Finns!



Rootplate 6 to 8 meters wide, Tudu Forest, Estonia; windstorm May 2002

- Rick Reitz and Cynthia Fowler met with NFS staffers Ray Ellis and Ron Stevens at the Supervisor’s Office in Gainesville, Georgia to discuss the technology transfer needs of fire managers of the Chattahoochee-Oconee National Forests.

- Rick Reitz attended the University of Georgia’s Prescribed Fire Course in Ichauway, Georgia and made a presentation on “Comparisons of the Wildland Fire Environment: South and West,” which compared aspects of the wildland fire environment in the southern and western continental United States and identified possible roles for resource professionals in the wildland/urban interface. He also provided assistance in the holding and mop-up functions of prescribed fire.

- Yong Liu, Gary Achtemeier and Scott Goodrick attended the National Wildland Fire Technical Workshop in New Orleans, LA. Achtemeier was a session organizer, session chair and presented talks on the status of research at SHRMC. Liu presented a paper entitled “Point vs. Area Fires and Vertical Distribution of Smoke in CMAQ.”

- Tom Waldrop joined Dick Rightmyer of the Chattahoochee National Forest on a field trip with Summer Camp students from the Clemson University Department of Forest Resources. The students were learning methods to determine landscape position and how position affects ecosystem function. Dick and Tom introduced the students to operations on National Forests and to methods of ecosystem management. Tom discussed his work using stand-replacement fire to perpetuate Table Mountain pine communities.

Meetings / Reports :

- Gary Achtemeier hosted a meeting of the Interagency Air/Fire Issues Coordination Group in Athens. This inter-agency group, headed by Dennis Haddow of the Fish and Wildlife Service, is charged with identifying needed research issues in air quality and recommending funding strategies to the Wildland Fire Leadership Council. Achtemeier chaired the afternoon May 11 session and presented talks on the air quality research ongoing through the auspices of the Southern High Resolution Modeling Consortium (SHRMC). He also organized a tour of the SHRMC facilities. Lynne Breland and John Stanturf are preparing a summary of the research needs identified at the meeting.



Air/Fire Issues Coordination Group meeting in Athens.

- Achtemeier met with Bill Jackson of Region 8 for the purposes of bringing the smoke model PB-Piedmont to NFS users. Jackson tested the model and developed a protocol for the conversion of PB-Piedmont to run on ArcMap.

- John Stanturf and Phil Araman, project leader in Blacksburg, visited Washington Office staffers and congressional aides. They delivered a message that “we offer integrated solutions to forest health problems.” One consistent message received back was the need for R&D to provide syntheses, especially of fire research, that could be used by managers.

- Scott Goodrick will attend a Fire and Fuels R&D strategy meeting in Rosslyn (WO) in early June.

- While in Estonia, Stanturf discussed joining a disturbance research network being formed in the Scandinavian countries. Kalev Jõgiste, director of the Forest Research Institute at the Estonian Agricultural University, leads an effort that includes researchers in Finland, Sweden, Denmark, Iceland, Norway, and the other Baltic countries—Lithuania and Latvia. Ilkka Vanha-Majamaa, Project Leader with the Finnish Forest Research Institute, invited unit scientists to visit and learn more about their prescribed burning program to restore boreal forests.



Estonia: Peatbog at sunrise.

- Afforestation meetings are being planned for next year. In June, a meeting will be held in Iceland in conjunction with a gathering of key policymakers from the Nordic countries. This meeting will focus on policy and social implications of afforestation. Later in the summer, a more technically focused meeting is being planned for the Orkney Islands by staff of the Scottish Forestry Commission.

- Outcalt attended a planning meeting for the next Biennial Silviculture Research Conference, to be held in Memphis. The Second Call for Papers has been released, with a deadline of June 15th for abstracts to be submitted to conference chair Kristina Connor. <http://www.srs.fs.usda.gov/bssrc>

- Rick Reitz attended a 3-day workshop in Boise, Idaho, dealing with history of technical transfer, defining the problem, identifying players and roles, barriers transferring technology, taking advantage of the new emphasis on technical transfer, measuring technical transfer successes, coordination of technical transfer efforts, integration, and database development.

- The Forest Service will be 100 years old in 2005. The agency has decided to celebrate the Centennial with a number of Regional Congresses leading up to a National Centennial Congress on January 4-5, 2005. The attendance at the National event that will be held in Washington, D.C. will be limited to approximately 400 participants. The Southern Regional Congress will be held in Asheville in November. Speakers are being identified.

- Deb Kennard and Cynthia Fowler participated in a 2-day meeting of the design committee for the Forest Encyclopedia Network at the School of Forestry, University of Georgia. Bryan Jordin and Bill Hubbard of the Southern Regional Extension Forestry Center will develop the new system, which is expected to be completed this fall. Over 100 pages of encyclopedia content have completed peer-review and will be available online this summer.

- Deb Kennard attended the Annual Alabama Invasive Plant Council meeting in Montgomery, with Jim Miller (author of “Nonnative Invasive Plants of Southern Forests”) and Erwin Chambliss of SRS-4105. Contacts and information from the meeting on the interaction of invasive plants and fire in the South will be incorporated into the fire encyclopedia.

Visit our website at:

<http://www.srs.fs.usda.gov/disturbance>

- Cynthia Fowler attended the Joint Fire Science Program's Science Delivery and Application Workshop and the Research Information and Management System Workshop in Boise, Idaho. She presented a paper entitled "Some issues that emerge in the process of integrating multiple internet-based resources for fire information" at the Research Information and Management System Workshop.

- Tom Waldrop met with the Executive Committee of the National Fire and Fire Surrogate Study in St. Louis, MO. The group has been given a new grant for approximately \$300,000 from the Joint Fire Science Program. The grant will allow key members of the group to be trained in various multivariate procedures needed for their multi-site and multi-disciplinary analyses. The meeting in St. Louis allowed the group to develop interdisciplinary hypotheses and to make plans for completing the necessary analyses.

- Tom Waldrop met with Henry McNab (SRS-4101), Kier Klepzig (SRS-4502), Robert Coulson, John Waldron and Charles Lafon (Researchers from Texas A&M University) at the Bent Creek Experimental Forest on May 24. The meeting was to review progress of a project, funded through Klepzig's Research Work Unit, to restore beetle-killed areas in the Southern Appalachian Mountains to mixtures of Table Mountain pine and pitch pine. Much of the effort involves making alterations to the LANDIS model of forest succession. This model will help to determine how future outbreaks will impact these threatened communities and how restoration efforts will meet other management goals. Waldrop's experience with Table Mountain pine regeneration and

forest succession modeling will be helpful as the group progresses.

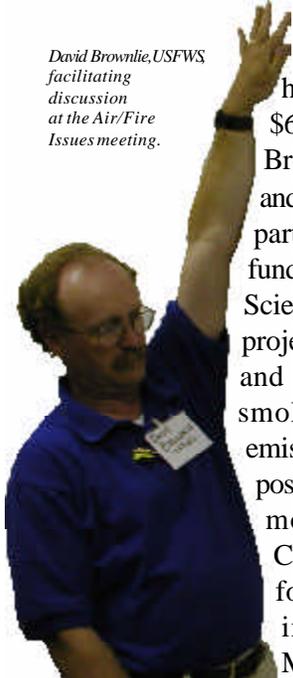
- Waldrop met with Drew Lanham and Eran Kilpatrick of the Clemson University Department of Forestry and Natural Resources. The group is cooperating to study the impacts of fire reduction treatments on avifauna and herpetofauna. Kilpatrick is one of few experts on herpetofauna in the Southeast and has been selected to conduct the national-level analysis of herps for the National Fire and Fire Surrogate Study. Plans were made for conducting meta-analysis and structural equation modeling.



Fire and Fire Surrogate Treatments For Ecosystem Restoration

Funding :

David Brownlie, USFWS facilitating discussion at the Air/Fire Issues meeting.



- Gary Achtemeier has received \$69,186 from David Brownlie of the Fish and Wildlife Service, to participate in a study funded by the Joint Fire Sciences Program. The project, "Development and demonstration of smoke plume, fire emissions, and pre- and post-prescribed fire fuel models on North Carolina Coastal Plain forest ecosystems" includes Robert Mickler, Mantech,

Chris Geron, Environmental Protection Agency and Sue Ferguson, Pacific Northwest Research Station (USFS). Achtemeier and Ferguson will be responsible for validating the PB-Coastal Plain smoke model, the BlueSky smoke prediction system, and BlueSkyRAINS.

- Cynthia Fowler and Deborah Kennard have received funding from the Joint Fire Science Program to produce the Southern Fire Portal. They will work with coordinators from FRAMES (Fire Research and Management Exchange System), USGS National Biological Information Infrastructure (NBII), and Tall Timbers Research Station on the project titled "An Internet Based Portal for Fire

Science and Management in the Southern Region." The total grant is for \$497,763 over 18 months; the portion coming to the unit is \$83,273. The Southern Fire Portal builds on concepts developed through FRAMES, NBII, the Encyclopedia of Southern Fire Science, and the Tall Timbers E.V. Komarek Fire Ecology Database to deliver 1) tools and data, 2) metadata, 3) state-of-the-knowledge literature syntheses, 4) an index of publications, 5) a fire thesaurus, and 6) a strategy for creating fire-related information Internet portals.



<http://www.frames.gov>

Personnel News :

• Dexter Bland gave three chainsaw safety classes for 17 employees of SRS-4104, 4505, and UGA student workers. In the first class, the winner of the felling safely competition was Chris Crowe (SRS-4505), who narrowly bested project leader Jim Hanula. Michael Westbrook, UGA student working for Alex Clark on the wood quality study this summer, took honors in the second class. Tony Blalock, also SRS-4505, won the safety equipment prize in the third class.

• Rick Reitz attended L-180 Human Factors on the Fireline course in Blairsville, GA, sponsored by the Chattahoochee-Oconee National Forests.

Chainsaw safety training



News from around the Region :

• FIA National Program Leader Position (vice-Gillespie) is currently advertised on USAJobs.

• Bob Szaro, Assistant Director of the Pacific Northwest Research Station is leaving to become the Chief Biological Scientist for the US Geological Survey. In this capacity, he will be responsible for oversight and leadership of research and development programs and management of a research station with more than 500 employees and a total budget of \$55 million. Bob will head the Biological Resources Division, which was created under the Clinton Administration by adding the National Biological Services organization to USGS.

• Deborah Hayes has accepted an offer to join the Wildlife, Fish, Water and Air Research (WFWAR) Staff as the National Program Leader for Watershed Research. She occupies the position formerly filled by

Doug Ryan. Dr. Hayes has a strong background in vegetation management and watershed issues (e.g., nutrient flows) and has worked in Forest Service Research & Development and the National Forest System, and at the Department. She has worked in the Washington Office since 1995. One of her tasks will be to reinvigorate and lead the Forest Service participation in the Man and the Biosphere (MAB) Program.

• Stephen B. Jones, Vice Chancellor at the University of North Carolina, was named the next Chancellor of the University of Alaska-Fairbanks. Steve and Judy mush northwards in August.

• A new curriculum in forestry is being organized at the University of Iceland. Eva Ritter, researcher with the Danish KVL-Forest and Landscape, will join the faculty and provide liaison with the Icelandic Forest Research organization.

Despite its far north location, Iceland was once relatively forested until the Vikings settled under Eric the Red. Clearing for agriculture, cutting for timber and firewood, but especially sheep grazing have drastically reduced the native birch forests. Recently, the Danish Forest and Landscape Research Center (Forst og Landskab) merged with the forestry faculty at the Danish Royal Agricultural and Veterinary University (KVL). Is this the beginning of a trend in Scandinavia?



Afforestation in Iceland.

• Weyerhaeuser has released a report “2003 Roadmap for Sustainability,” currently available at <http://www.weyerhaeuser.com>. Weyerhaeuser’s stand on old-growth forests, boreal forests, tropical forests, reducing pollution, and recycling are detailed in the report. Last year the company combined its annual environmental report and a citizenship report into a single “triple bottom line” review of environmental, social and economic performance. Like last year’s report, the 2003 edition follows guidelines recommended by the Global Reporting Initiative (GRI), a joint initiative of the U.S.-based Coalition for Environmentally Responsible Economies (CERES) and the United Nations Environment Programme. The GRI guidelines and a set of 97 performance indicators aim to broaden corporate disclosure and provide a yardstick to measure corporate social responsibility and sustainable development.

News from around the Region :

Some facts from the report include: Weyerhaeuser planted 132 million seedlings last year throughout the world; to help preserve endangered caribou in the boreal forest, Weyerhaeuser agreed with the province of Alberta to impose a five-year delay on harvesting more than 200,000 acres to allow time to implement a caribou recovery plan; Weyerhaeuser's pulp, paper and wood products mills in North America have reduced waste going to landfills by 24 percent, energy consumption by 22 percent, and water usage by 24 percent since 1999 as measured on a per ton of production basis. (Source: PR Newswire)



Old growth longleaf pine

- The Department of the Interior and International Paper agreed on the first-ever Aquatic Resources Conservation and Management Partnership Agreement, a 10-year partnership that covers 5.5 million acres of International Paper forestlands in nine Southern states: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee. Under the agreement, U.S. Fish and Wildlife Service biologists will provide technical assistance as the company conducts extensive ecological surveys and conservation projects to help recover imperiled aquatic species and restore their habitat. The Southeastern United States is the center of temperate aquatic diversity and freshwater ecosystems

in this area feature the highest diversity of freshwater mussels and temperate freshwater fishes in the world. Nearly one-third of the 500 native fishes in the Southern states are considered imperiled. There are about 270 species of mussels in the Southeast, and about 75 percent of those species are in need of some form of conservation. Management actions outlined in the agreement will benefit well-known aquatic species such as the largemouth bass and channel catfish. They will also benefit imperiled species such as the boulder darter, a rare fish in Alabama and Tennessee; the flattened musk turtle, a rare reptile, and the Black Warrior waterdog, a rare amphibian, both in Alabama; and the dwarf wedgemussel, a rare mussel confined to the Atlantic Slope drainages. (Source: PRNewswire-FirstCall)

- The U.S. Department of Energy (DOE) intends to prepare a Programmatic Environmental Impact Statement (PEIS) to assess the potential environmental impacts from the department's Carbon Sequestration Program, which is being implemented by the Office of Fossil Energy. The statement will evaluate the demonstration and deployment of technologies to implement the key elements of the Program, including: carbon dioxide capture; sequestration (geologic, oceanic, and terrestrial); measurement, monitoring, and verification; and breakthrough concepts. The PEIS will analyze impacts of carbon sequestration technologies and potential future demonstration activities programmatically and will not directly evaluate specific field demonstration projects. Deadline for comments: June 25, 2004. (www.gpoaccess.gov/fr/index.html, then enter "fr21ap04-41" into search box). The USDA and DOE have an Advisory Committee, comprised of non-government members, made official under the Biobased Products and Bioenergy Act of 2000 (more information is available at the website: <http://www.bioproducts-bioenergy.gov>). The membership of the advisory committee, although primarily agricultural, represents a wide variety of biomass production and utilization sectors. There is also a Biomass Board, made up of the agencies that are involved in the partnership with leadership from both DOE and USDA. (<http://www.bioproducts-bioenergy.gov/about/advisoryCommittee.asp>), DOE released its feedstock roadmap last December. (<http://devafdc.nrel.gov/pdfs/8245.pdf>). It is almost devoid of discussion of woody feedstocks, but still has references to SRWC and a little on forest residues. Furthermore, the Forest Service has chartered a group to develop a comprehensive plan to provide the science and tools to integrate biomass utilization into its management activities, and to provide assistance to landowners. The several objectives of this effort are to develop a strategy for FS biomass feedstock research, develop a strategy for USDA

News from around the Region :

feedstock research, with DOE quantify available resources to meet the feedstock vision, update SRWC costs and supply assumptions, and develop more comprehensive research framework for the production, recovery, and use of biomass. So far, a “reduction of barriers” approach has been developed. At the national level, Bryce Stokes, Marilyn Buford, and Howard Rosen are the contacts within Forest Service Research. In the Southern Research Station, Bob Rummer at Auburn is the contact for these national-level efforts concerning harvesting and recovery of woody biomass.

- The 4th International Wildfire Conference will be held in 2007 in Spain. The last fire conference was held in Sydney, Australia in 2003, and its primary objective was to convene fire management leaders from around the world and ask for commitment of resources to address critical global fire issues. There was concern in Sydney that too much focus was on suppression and cooperation issues among developed countries with advanced fire management organizations. For the future, there will be a series of regional conferences leading to the next fire summit in Spain. These smaller sessions will initiate communication and facilitate collaboration. One such meeting will be held 23 October 2004 in San Jose, Costa Rica; a joint meeting of the North American Forestry Commission (NAFC) and the Latin American and Caribbean Forestry Commission (COFLAC) to discuss fire management issues. The joint meeting will revolve around fire management and suppression in the western hemisphere; specifically the session will focus on networking and information sharing. The Fire Working Group of NAFC would like to create a National Information Database of Fire Research and document people who are working in this field. In Freiburg, Germany, Johann Goldhammer at the Global Fire Monitoring Center has created a central informational website, a driver for many regional fire networks (Fire Globe: <http://www.fire.uni-freiburg.de/>). The Joint Fire Sciences Program is looking at similarly developing an information portal



- The Ecological Society of America (ESA) has released a report stating a vision for ecological research that calls for a research agenda focused on ecosystem services and the science of ecological restoration and design. The Report was prepared by a 20-member committee of ESA members and colleagues at the request of the Society’s Governing Board. The most critical vision area (of three listed) was building an informed public. They urged the development of a major public information campaign to bring issues and raise awareness of ecological sustainability before the general public. The committee listed eight Critical Environmental Issues for Prioritizing Ecological Research (not in priority order): The science of ecosystem services; Biodiversity, species composition, and ecosystem functioning; Ecological aspects of biogeochemical cycles; Ecological implications of climate change; Ecology and evolution of infectious diseases; Invasive species; Land use and habitat alteration; and Freshwater resources and coastal environments. New partnerships and large-scale, crosscutting activities will be key to incorporating ecological solutions in sustainability. They recommended a four-pronged research initiative to build on new and existing programs, enhance research project development, facilitate large-scale experiments and data collection, and link science to solutions. They emphasized the need to improve interactions among researchers, managers, and decision makers. (<http://www.esa.org/ecovisions/ppfiles/EcologicalVisionsReport.pdf>)

- USDA’s Farm Service Agency (FSA) and the Department of Interior’s U.S. Geological Survey are hosting a national conference on the future of the Conservation Reserve Program (CRP), the Nation’s largest conservation program, on 6-9 June 2004 in Fort Collins, CO. First established in 1985, the CRP is a voluntary program encouraging farmers to implement conservation practices on environmentally sensitive agricultural

land to reduce soil erosion, protect water quality and enhance wildlife habitat. About 35 million acres are currently enrolled. In the South, many of these acres have been planted to pine and other trees. Over 16 million acres of CRP contracts expire in 2007 and over 6 million acres expire in 2008. Determining the future direction of the CRP is thus critical. (www.gpoaccess.gov/fr/index.html enter “fr14my04-16” into search box)

GPRA Accomplishments:

Category	FY 2003	FY 2004
	Total	To Date
Number of Refereed Journal Publications	24	16
Number of Non-Refereed Publications (include abstracts)	50	67
Number of Publications (refereed + non-refereed)	74	83
Number of Tours	66	38
Number of Short Courses/Training	8	19
Number of Invited Presentations to Scientific Organizations	8	13
Number of Invited Presentations to Lay Organizations	45	36
Volunteer Presentations to Scientific Organizations (non-GPRA)	27	36
Number of Technology Transfer Activities (other than above)	135	102
Outside Funding	\$1,955,455	\$2,717,033

Publications :

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*Daniels, R. F., R. He, **A. Clark** and R. A. Souther. 2004. Predicting wood properties of planted loblolly pine from pith to bark and stump to tip. In: G. Nepveu, Ed., 2004 Proceedings: Connection between Forest Resources and Wood Quality: Modeling Approaches and Simulation Software. IUFRO WP S5.01.04. Harrison, B.C., Canada, 8-15 September 2002.

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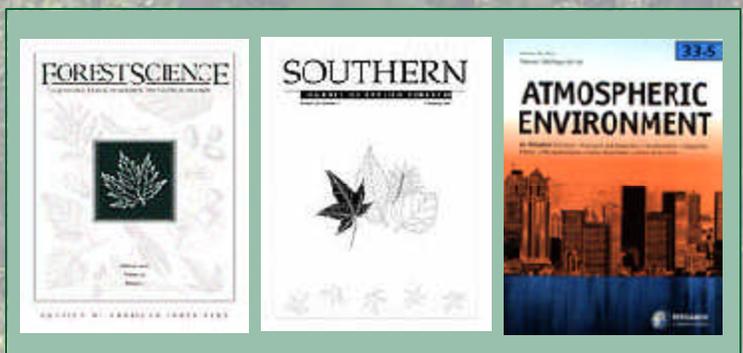
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Upcoming Events :

2004

- *Jun 7-11** 12th annual Caribbean Foresters Meeting, Isla Verde, Puerto Rico; O'Brien to present invited paper
- Jun 10-11** Energy with Agricultural Carbon Utilization Symposium - A Sustainable Alternative to Sequestration; Athens, GA
<http://www.georgiaitp.org/carbon>
- Jun 13-18** International Society of Ethnobiology, 9th International Congress, University of Kent in Canterbury, England; Fowler to attend and present
- Jun 14-18** IUFRO Division 1 - Silviculture Conference, CIRADForest, in Montpellier, France; Stanturf to attend and present two papers
- Jun 15-18** 2nd International Conference on Forest Measurements and Quantitative Methods and the annual meeting of the Southern Mensurationists; Hot Springs, AR;
<http://www.mensurationists.com/event/events.htm>
- Jun 24-26** Greenhouse gas emissions and abrupt climate change: Positive options and robust policy, Paris, France; dates and location tentative; <http://www.iiasa.ac.at>
- *Jun 27-30** The Forest Products Society, 58th Annual Meeting, Grand Rapids, MI. Alex Clark to attend and make presentation.
- Jun 27-Jul 2** First Agroforestry World Congress, Orlando, FL
<http://conference.ifas.ufl.edu/wca/#background>

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Blowdown in the Ocala National Forest



- Jul 12-15** North American Forest Biology Workshop, Managing forest resources in the 21st century: An Integrated Approach; Michigan Technological University Houghton, MI <http://www.forestbiology.org/>
- Jul 25-31** 7th INTECOL International Wetlands Conference, Utrecht, The Netherlands. <http://www.bio.uu.nl/INTECOL>
- Aug 1-8** Ecological Society America annual meeting, Portland, OR; Callaham, Outcalt, and O'Brien to attend and present
- Aug 15-20** Large-Scale Experiments for Sustainable Forestry: Balancing Ecosystem Values; International IUFRO Workshop, Portland, OR. <http://outreach.cof.orst.edu/ecosystem>
- Aug 23-27** Society Ecological Restoration International annual meeting, Victoria, BC; <http://www.ser.org/meeting.php?pg=call4abstracts2004>
- Aug 29-Sep 10** Soil Ecology Colloquium, Rouen, France; Callaham to attend and present invited paper; <http://www.bondy.ird.fr/biosol/evenements/colloque-rouen/index.html>
- Sep 1-2** Forest IT 2004 Exhibition and Congress, Jyväskylä, Finland; <http://www.ForestIT.net>
- Sep 3-7** European Forest Institute (EFI) Annual Meeting, Bangor, Wales (UK) and IUFRO International Conference Transformation to Continuous Cover Forestry in a Changing Environment Consequences, Methods, Scenarios, Analyses <http://www.efi.fi/news/2004/CallforPapers.pdf>
- Sep 4-12** EUROSOL, Freiburg, Germany; www.forst.uni-freiburg.de/eurosoil
- Sep 12-16** IUFRO Conference Regenerating Mountain Forests, Kloster Seeon, Bavaria, Germany; http://www.forst.tu-muenchen.de/events/rmf2004/index_en.html
- Sep 20-22** IUFRO All Division 8 Conference, Conservation biology and ecosystem functioning in plantation forests, Bordeaux, France; http://www.pierroton.inra.fr/IEFC/manifestations/IUFROD8_2004registration.php
- Sep 27-30** IUFRO Conference: The Economics and Management of High Productivity Plantations, Lugo, Spain; <http://www.lugo.usc.es/iufro>
- Oct 1-7** The National Wilderness Summit and Expo, Denver, CO; <http://www.wilderness.net/40th>
- *Oct 2** 1st Annual Hardwood Research Review, National Hard wood Lumber Association, Toronto, Canada; <http://www.nhla.com>
- Oct 2-6** Society American Foresters Annual Meeting, held jointly with Canadian Institute of Forestry, Edmonton, Alberta <http://www.cif-saf-2004convention.org/natcon/>
- Oct 17-22** North American Forestry Commission, Joint Meeting of Silviculture and Genetics Working Groups, Morelia, Michoacán, México; Stanturf to attend.
- Oct 18-22** Advancing the Fundamental Sciences - A Conference for Forest Service Physical Scientists, Shelter Point Island, San Diego, CA; abstract due April 30 <http://www.stream.fs.fed.us/EarthScience/NationalConference.html>
- Oct 19-21** SRS Management Team meeting, Coweeta
- Oct 31-Nov 3** Soil Science Society of America Annual Meeting, Seattle, WA.
- Nov 6-8** Southeastern Society American Foresters Annual Meeting, Jacksonville, FL "Managing forests for wildlife"



Prescribed burn.

Upcoming Events :

- *Nov 8-12** Short Rotation Woody Crops Operations Working Group Biennial Meeting, Charleston, SC; **abstracts due by June 15**; selected papers to be published as a special issue of Biomass and Bioenergy; http://www.woodycrops.org/meeting_2004_second_call.pdf
- Nov 17-25** IUCN Third World Conservation Congress (WCC), Bangkok.
- Nov 17-19** Assessment of the 2003 drought and heat impacts on forests, international conference sponsored by University of Freiburg, European Forestry Institute, Baden-Württemberg Forestry, FVA; Freiburg im Breisgau, Germany
- Nov 24-26** Introduction of broadleaf species for sustainable forest management, international conference sponsored by SUSTMAN project at the University of Ulm; to be held in Reisenburg, Germany, <http://www.sustman.de/Symposium.htm>
- *Nov 28-Dec 2** International Poplar Commission Session 22, Santiago, Chile; Stanturf to attend and present <http://www.fao.org/forestry/foris/webview/forestry2/index.jsp?geoId=0&langId=1&siteId=1580>
- Dec 16-17** SOFOR GIS 2004, Athens, GA; <http://www.gactr.uga.edu/conferences/forestry/index.html>



Flattened musk turtle, a rare reptile.

2005

- Feb 28-Mar 4** Southern Silvicultural Research Conference, Memphis <http://www.srs.fs.usda.gov/oaks/osc>
- Mar 13-16** Emerging Issues Along Urban/Rural Interfaces: Linking Science and Society; Atlanta, IUFRO 6.00; <http://www.sfws.auburn.edu/urbanruralinterfaces/>
- *May 11-13** East-Fire - Wildland fire, Remote Sensing, Modeling, and Management DSS Conference, to be held at George Mason University in Fairfax, VA. <http://eastfire.gmu.edu/workshop>
- *Jun 20-24** 5th International Conference on Forest Vegetation Management, IUFRO Research Group 1.13.00 Forest Vegetation Management. Corvallis, Oregon, USA. **Abstracts for selection submitted on-line by November 30, 2004.** <http://outreach.cof.orst.edu/icfvm/index.htm>
- Aug 8-13** IUFRO World Congress, Brisbane, Australia. Stanturf to attend. <http://www.iufro2005.com>
- Sep 12-18** Society for Ecological Restoration 17th International Conference, Zaragoza, Spain.
- Oct 19-23** Society American Foresters Annual Meeting, Ft. Worth, TX
- Nov 6-10** Soil Science Society of American Annual Meeting, Salt Lake City, UT

2006

- Jul 9-15** 18th World Congress of Soil Science, in Philadelphia, PA <http://www.18wcss.org>

SRS-4104 Project Leader's Report

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