

Project Leader's Report

June 2003

USDA Forest Service - Southern Research Station - 320 Green Street Athens GA 30602 - <http://www.srs.fs.usda.gov/disturbance>



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Technology Transfer :

- Alex Clark attended the AF&PA-CORE 2003 Meeting at the Forest Products Laboratory in Madison, WI. Alex reported on the progress made in identifying the effects of intensive plantation management on the quality of loblolly pine wood. He described results from two recently published papers on the effect of thinning and pruning on wood properties and shop and dimension lumber yield of 58-year-old loblolly pine, and a model for predicting average stand specific gravity for loblolly pine based on stand age and geographic location.
- Clark attended the 57th Annual Meeting of the Forest Products Society, held in Bellevue, WA. He presented a paper on “ Effects of controlling herbaceous and woody competing vegetation on wood quality of planted loblolly pine.” Co-authors were Richard Daniels, UGA and Jim Miller, SRS-4105.
- Frank W. Peterman, Southeast Regional Director for The Wilderness Society, and his staff visited the Brender Forest to exchange ideas about management of the forest ecosystem and how it is utilized by a variety of audiences. Boyd Edwards and John Moore, along with Terry Price from the Georgia Forestry Commission, hosted the group. David Combs answered questions about long-term fire plots that he was re-measuring.
- People outside the Forest Service cannot reliably resolve all of our Internet Web sites that include the address string fs.fed.us. We are now using a replacement string, srs.fs.usda.gov in all our addresses.

Visit our Websites at :

www.srs.fs.usda.gov/disturbance
www.srs.fs.usda.gov/ffs
www.srs.fs.usda.gov/bssrc
www.srs.fs.usda.gov/brasil
www.srs.fs.usda.gov/myakka
www.srs.srs.fs.usda.gov/solondixon
www.srs.fs.usda.gov/smoke
www.srs.fs.usda.gov/iufro

Outreach Activities:

- Six organized groups with a total of 66 people visited the Brender Forest during the month of June. These groups included the youth from Central Baptist Church in Gray, the Wilderness Society, Jarrell Plantation Jr. Rangers, the Jordan Family, Mercer University Environmental Science Class, and a Logger's Workshop on thinning pine plantations sponsored by the Southeastern Wood Producers Association.
- Approximately 100 visitors came by the office at the Brender Forest for information and 69 people signed the register at the Hitchiti Interpretive Trail.
- Other researchers working on the Brender Forest include Prof. Al Smith, Mercer University, who is studying ticks collected from the Hitchiti to see how their DNA relates to Lyme Disease transmission and Nathan Klaus , Georgia Department of Natural Resources Biologist, who is determining the best time to plant and re-establish cane patches in the Piedmont as habitat for several threatened bird species.

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Outreach
Activities:

Continued



A 200-acre prescribed burn of mature loblolly pine was conducted on the Brender Forest to reduce the understory and re-establish natural grasses.

“The great thing in this world is not so much where you stand as in what direction you are moving.”

-Oliver Wendell Holmes

• John Stanturf was asked to summarize the carbon-related research conducted or planned by the unit. Carbon research in SRS-4104 is related to disturbance and can be classified under four interrelated themes: fire, land use change, forest management, and restoration. This work is often conducted with other work units and cooperators. Briefly, the research is:

>>Fire and Carbon—Effects of long-term prescribed fire on soil carbon (species, movement, accumulation), including developing new spectroscopic methods for studying soil carbon; atmospheric releases of carbon compounds in smoke and effects on air quality and climate, including the trade-off between prescribed fire and wildfire generated smoke.

>>Carbon and Land Use Change—Effects of urbanization and forest fragmentation on carbon sequestration, including alternatives to prescribed burning at the wildland-urban interface.

>>Forest Management and Carbon Sequestration—Effects of different management intensity on carbon sequestration in soil and biomass (even-age versus uneven-age silviculture, fertilization in plantations).

>>Carbon and Restoration—Carbon sequestration potential of forest restoration, including bottomland hardwood and shortleaf pine-blue stem ecosystems.

• Rick Reitz is chairing a session on fire at the SAF National Meeting in October in Buffalo.

• Andrea Leach will present a paper at the annual meeting of the Ecological Society of America in August, “Microsite vegetation and environmental differences in salvaged and unsalvaged wind-disturbed forest” based on her MS work, which was supported by the unit.

• Yong Liu was invited by the Editor-in-Chief to contribute an article entitled “Modeling of the global water cycle - analytical models (1st, 2nd, 3rd, 4th order)” to the Encyclopedia of Hydrological Sciences to be published by John Wiley & Sons.

• Jim Falconer, a private meteorological consultant, contacted Gary Achtemeier about smoke and fog. Falconer is investigating a superfog-related fatal vehicle pileup on Interstate 70 in Ohio. Achtemeier ran the PB-Piedmont smoke model on the Ohio conditions, which serves as a case study for the validation of PB-Piedmont. The results of the model run are available on the Smoke Management web page as a PowerPoint presentation.



Meetings / Reports :

- Alex Clark was awarded a Southern Research Station Challenge Cost-Share grant for his project "Forest management prescriptions for producing fast growing planted loblolly pine with acceptable stiffness and strength." The SRS will contribute \$28,000, matching a like amount contributed by the eight industrial members of the Wood Quality Consortium. The University of Georgia will contribute additional in-kind services through access to testing equipment to conduct static bending and toughness tests and two students to assist in field and lab analysis. Virginia Tech is assisting by locating field installations and providing historic data.

- Janet Revell attended the Business Managers' meeting in Asheville. She reports that the new WorkPlan software will be a lot of work initially, but should pull together lots of administrative data and facilitate accomplishment reporting. She learned how to navigate around the financial reporting system (FFIS), and enjoyed the camaraderie of the Business Management group.

- John Stanturf has been invited to visit Dr. Kaiwen Pan at the Chengdu Institute of Biology in Sichuan Province, People's Republic of China. Dr. Pan obtained a grant from the Chinese Academy of Sciences to support Stanturf's expenses within China and they are seeking travel funding from FAO. The purpose of the visit is to consult on forest restoration studies and to explore possible collaborative studies.

- The unit staff meeting included an award ceremony and picnic. Tim Giddens (finally!) received his plaque for Director's Support Services Award. Length of Service recognition was given to Boyd

Edwards (30 years), David Combs (20 years), Tim Giddens (15 years), and Helen Mohr (5 years). Recent weddings included Sandra Rideout and Cynthia Fowler. Thanks to Mac Callaham for providing (and cooking) the Bubba Burgers, Boca Burgers, and Hot Dogs. Marshall Thompson ably assisted Mac in the cooking and setting up.



Cynthia Fowler and Spencer Strickland



Sandra Rideout and Terry Hanzak



John Stanturf awarding the Director's Support Services award to Tim Giddens.

- Chief Dale Bosworth will visit Clemson University and deliver the invited Herzog Lecture on October 2, 2003.

- Tom Philipps assisted Ranger Jane Whaley of the Piedmont National Wildlife Refuge with a tour by members of the Georgia Botanical Society. Tom also furnished members with a listing of plant species that occur in a growing season burn study that our unit is conducting.

- Kenneth Outcalt and Tom Philipps participated in a prescribed burn on the Piedmont Wildlife Refuge. This is part of a cooperative study of the effects of burning at different seasons on plant species. A crew from the Refuge burned the three study plots at different locations.



Prescribed burn on the Piedmont Wildlife Refuge, part of a study of season of burn effects.

- Mike Zupko, Executive Assistant for the Southern Group of State Foresters, visited Gary Achtemeier, Scott Goodrick and Yong Liu to gain an appreciation for the research of the Smoke Management Team. They discussed how to liaise with the Southern Group, the Southern Governor’s Association, and other forestry groups with an interest in fire behavior and smoke management products.

- Tom Waldrop met with Lea Wofford, Fire Management Officer on the Tallulah Ranger District to discuss possible study sites and burn dates for a proposal the SRS-4104 scientists are planning to submit to the Joint Fire Science Program in FY04. The study will emphasize the ecological impacts of fires by contrasting intensity in several physiographic regions.

- Charles Seabrook of the Atlanta Journal-Constitution interviewed Tom Waldrop and several representatives of Region 8, National Forest Systems about the Region’s response to a recent complaint about management plans in the Southern Appalachian Mountains. R-8 representatives included Anne Zimmermann (Supervisor, Cherokee NF), Steve Rickerson (Deputy Supervisor, Cherokee NF), Angela Coleman (Public Relations), Tim Mersmann (Planning), and Steve Croy (Biologist). Portions of that interview have been quoted in newspapers throughout the Southeast and interested individuals from as far away as New York have contacted the unit about the interview.

- Alex Clark and cooperators from the University of Florida submitted a proposal for Agenda 2020 funding to study “Secondary Xylem Form and Function: Linkages among Wood Quality, Growth,

and Tree Water Relations.” They requested \$150,000 over three-years.

Visitors :

- Jay Swafford, Sumter National Forest in Union, SC and formerly with SRS-4251 in Arkansas, visited Stanturf.
- Mike Zupko, Southern Group State Foresters, visited the Smoke Management Team.

Personnel News :



- Rick Reitz has joined the project as Tech Transfer Specialist. Rick is located in Athens; phone number is 706-559-4307 and E-mail is reitz@fs.fed.us.

- Kim Crider visited Prof. Elizabeth Crone at the University of Montana in Missoula to discuss a potential Ph.D. program.

- Debbie Burton, who served as computer consultant for employees at Clemson, has moved to another job in the Forest Service. She will be serving as BMA for the Tallulah Ranger District in Clayton, Georgia. She says that the drive is much closer to her home in Mountain Rest, S.C., and that she will not have to put up with crazy scientists. She will be missed at the Clemson Lab.



- Due to changes in the Department of Labor contract with the Forest Service for the SCSEP program, our Seniors at the Brender Forest have changed status. They remain in place at the Brender but Easter Seals or the Chattahoochee-Oconee National Forest now employs them.

Clemson Summer Students



Seth Tiffner



Mitch Smith



Chuck Harrel



Laura Zebehazy

News from around the Region :

- Jim Hanula has assumed dual duties as Acting Project Leader for SRS-4505 and Acting Director's Representative for the Athens lab. This change allowed Paula Spaine to become the Station's representative on the National Invasive Species Core Team that is working with the Performance Institute to develop an approach to implement the R&D investment criteria mandated by the Office of Management and Budget and the Office of Science and Technology Policy.
- Rob Doudrick, formerly with the Southern Research Station and currently Budget Coordinator for R&D in the Washington Office, has accepted the North Central Assistant Director position with an effective date of August 24.
- Other movement in and out of the Washington Office includes Jack Waide to Assistant Director, Rocky Mountain Research Station in Ogden, UT, and Mary Ellen Dix from Forest Health Protection staff to R&D, vice Sheila Andrus. The vice-Sharon Friedman (Silviculture) and vice-Dave Cleaves (Fire) positions are being widely advertised.
- The Joint Fire Science Program (JFSP) has a Vacancy Announcement for one Technology Transfer Specialist. The position, located in Boise, Idaho, is a GS 12/13 401 (Fire Technology Transfer Specialist) and 1301 (Physical Scientist) series. The aim of the position is to transfer new science and technology funded by the Joint Fire Science Program (and other sources) to field units and other end users. The successful applicant will also be expected to help establish partnerships between the research and land management communities. See USAJobs for more information; position closes July 22.
- Michael T. Goergen Jr. has been appointed executive vice-president and chief executive officer of the Society of American Foresters (SAF). Goergen had been holding the position on an interim status since his predecessor, William H. Banzhaf, departed on December 31. The executive vice-president serves as SAF's chief executive officer, responsible to the SAF Council, the organization's governing body. The Society of American Foresters represents the profession of forestry through accreditation of university forestry curricula, certification of forestry professionals, continuing education, positions on forest policy, public communications, member leadership development, and the publication of five peer-reviewed scientific journals and one newspaper. The organization has 17,000 members, 33 state or multi-state societies, and 250 local chapters. Before serving SAF as its interim executive vice-president and CEO, Goergen was senior director of policy and programs (2001-02), director of forest policy (1999-2001), associate director of government affairs (1998-99), and Congressional liaison (1996-97). Goergen joined SAF in 1996 after earning a master's in forestry, policy, and administration from the State University of New York College of Environmental Science and Forestry-Syracuse. He also holds a BS in environmental studies, policy, and management from SUNY CESF.
- Sam Foster resigned as Dean of the College of Forest Resources, Mississippi State University. This is the second forestry Dean who has left Mississippi State prematurely in the last six years. Foster will be on administrative leave until December 31, 2003.
- Larry Biles will retire from CSREES in August and begin part time work with the Southern Forestry Research Partnership (Southern Forestry Schools and Colleges, Forest Service Southern Station, and Forest Industry) at the University of Georgia. Mr. Biles currently serves as Program Director for forestry extension and research and administers the Renewable Resources Extension Act and sundry special grants for forestry and natural resources research.



Larry Biles, soon to become a Dawg

- The American Forest & Paper Association awarded its 2003 Forest Management Award to Temple-Inland Inc. for their Conservation Forest Program. The award was presented at an AF&PA conference in May. The overarching program design of the Conservation Forest Program is to ensure a careful balance of ecology by considering biological diversity of the forest, sustainability by assuring a perpetual and productive forest, and value by providing the cost-effective delivery of wood to company mills.
- The Department of Interior announced the launch of a geospatial data portal, <http://www.geodata.gov/>. It is a web-based portal for one-stop access to maps, data and other geospatial services that will

simplify the search for geospatial data. The geodata.gov portal is part of the Geospatial One-Stop initiative and is meant to accelerate the development and implementation of the National Spatial Data Infrastructure (NSDI).

- PricewaterhouseCoopers reports that global forest and paper companies are failing to earn the returns needed for long-term success and the near-term outlook isn't bright due to industry overcapacity. After surveying the financial results of 100 large companies in the sector, the consulting firm concluded that key measurements in 2002, such as return on capital employed, profitability, and product prices, "continued to be at unsatisfactory levels." Overall, the 100 global companies delivered a 4.1% return on capital employed in 2002, down from 4.6% in 2001, and well below the 10%-12% target that analysts, investment bankers and executives consider necessary, PricewaterhouseCoopers said. Return on capital employed, or ROCE, is a measure of profitability against capital invested. While specific supply/demand factors differ in the various product markets - lumber, newsprint, pulp, and so on - the common thread is overcapacity. The numbers in the report paint a generally bleak picture. The firm's

study of 28 U.S. forest and paper companies found their average 2002 return on capital employed was 4.5%, up from 4.2% in 2001. The 11 Canadian companies examined had an average 3.6% ROCE, up from 3.1% in 2001. (Source—Dow Jones)



- In a first ever of its type agreement, International Paper and The Nature Conservancy have entered into a multi-state cooperative management agreement, The Gulf Coastal Plain Unique Areas Cooperative Management Program. The agreement will include the Mississippi Department of Wildlife, Fisheries and Parks' Natural Heritage Program. Under the Agreement, all parties will work together to conduct research, develop management plans and undertake management actions that will enhance and protect sites with unique ecological features found within 1.8 million acres of International Paper's forestlands in Alabama, Mississippi and Florida. The Nature Conservancy and the Mississippi Natural Heritage Program will work with International Paper to identify rare habitats and potential imperiled species sites. They will also have access to conduct management and research activities on sites enrolled in the program. (Source: PRNewswire-FirstCall)

- According to a report released by the General Accounting Office, timber harvests on public land have declined sharply since 1990. The study focused on the Bureau of Land Management, which manages a total of 53 million acres of forestland, concentrated primarily in 12 Western states. The volume of timber harvested from the BLM forests was 101 million board feet in 1990, peaking at 106 million board feet in 1991, and falling to 26 million board feet last year, the GAO said. Eastern Oregon saw the steepest decline, with production slipping from 56

GPR Accomplishments:

Category	FY 2002 Total	FY 2003 To Date
Number of Refereed Journal Publications	9	12
Number of Non-Refereed Publications (include abstracts)	53	15
Number of Publications (refereed + non-refereed)	62	27
Number of Tours	46	65
Number of Short Courses/Training	8	8
Number of Invited Presentations to Scientific Organizations	6	7
Number of Invited Presentations to Lay Organizations	25	45
Volunteer Presentations to Scientific Organizations (non-GPRA)	28	24
Number of Technology Transfer Activities (other than above)	172	125
Outside Funding	\$3,227,500	\$1,805,563

million board feet to 8 million board feet during the period. Similar drops were seen on Forest Service-managed national forests, with production falling from 11 billion board feet in 1990 to 4 billion board feet in 1997, the GAO noted. The Forest Service manages 192 million acres of federal forests.

- Forestry in Georgia is a \$30.5 billion a year industry and trees are the number one crop, accounting for 19% of total sales of plant and animal products, according to a study conducted by Georgia Tech University for the Georgia Forestry Commission. Georgia experiences about 8,767 forest fires each year that damage or destroy approximately 38,183 forest acres. Georgia firefighters have the best fire suppression record in the Southeast with the average size fire consuming less than five acres. Careless burning of debris continues to be the leading cause of forest fires, accounting for 49% of ignitions. The State of Georgia's Forests report available on web (6 pages long) at <http://www.gfc.state.ga.us/Publications/Educational/StateOfTheForestReport.pdf>

- An interesting 2-page fact sheet on Georgia forestry is available at <http://www.gfc.state.ga.us/Publications/Educational/GeorgiaForestFacts.pdf>

- The U.S. Forest Service Collection containing some 3,249 photographic prints detailing forest history in western North Carolina from 1897 to 1952 has recently been organized and made available to the public by UNC Asheville's D. Hidden Ramsey Library Special Collections Department. The project is now available at <http://www.unca.edu/news/releases/2003/forest.html>



Safety :

Stay safe from snakes:

Be alert - watch where you step, sit, or place your hands.

Don't disturb snakes - most people are bitten by snakes when they try to kill it or get a better look at it.

Don't disturb snake habitats - i.e. rolling over rocks, sticking your hands in tree stumps or holes and disturbing brush piles.

Don't panic - snakes don't normally bite. If you see a snake, remain calm and walk away from it.



Publications :

FY 2003 (* denotes new publication this month)

- Escalante Fernandez, R. Monreal Rangel, S., **Stanturf, J.**, Arseneau, C., Nantel, P. 2002. Forest plantations in North America. Report to the North American Forestry Commission. 26 pp.
- Glitzenstein, J.S., Streng, D.R., and **Wade, D.D.** 2003. Fire frequency effects on longleaf pine (*Pinus palustris* P. Miller) vegetation in South Carolina and Northeast Florida, USA. *Natural Areas Journal* 23:22-37.
- Hanula, J.L., **Wade, D.D.** 2003. Influence of long-term dormant-season burning and fire exclusion on ground-dwelling arthropod populations in longleaf pine flatwoods ecosystems. *Forest Ecology and Management* 175(1-3): 163-184.
- Kennard, D.K., Outcalt, K.**, and M. Carrington. 2002. *Serenoa repens* (Bartr.) Small saw palmetto. In: J.K. Francis (ed.) Wildland shrubs of the United States and its territories. Gen. Tech. Rep. IITF-WB-1. Published on website www.fs.fed.us/global/iitf/wildland_shrubs.htm. 3 p.
- Lockaby, B.G., Keeland, B.D., **Stanturf, J.A.**, Rice, M.D., Hodges, G., Governo, R.M. 2002. Arthropods in decomposing wood of the Atchafalaya River Basin. *Southeastern Naturalist* 1(4): 339-352.
- Miller, S.R. and **Wade, D.** 2003. Re-introducing fire at the urban/wild-land interface: planning for success. *Forestry* 76(2): 253-260.
- Moody, J.M.** 2002. Fire and alternative fuel treatment effect on soil Nitrogen: A case study of Myakka River State Park. M.Sc. thesis, FL A&M Univ., Tall., FL. 52 p.
- Rideout, S.** and Oswald, B.P. 2002. Effects of prescribed burning on vegetation and fuel loading in three east Texas state parks. *Texas J. Science* 54(3): 211-226.
- Rideout, S.**, Oswald, B.P., and Legg, M.H. 2003. Ecological, political and social challenges of prescribed fire restoration in east Texas pineywoods ecosystems: a case study. *Forestry* 76(2): 261-269.
- ***Rideout, S.**, Rickard, J.K., and **Wade, D.D.** 2003. Preliminary response of herbaceous plants to biennial burning cycles applied at different dates during the growing season. *Natural Areas Journal* 23(1): 38-42.
- ***Stanturf, J.A.**, Gardiner, E. S., and Warren, M. L., Jr. 2003. Restoring forested wetland ecosystems. P. 193-220 (Chapter 9) In Holland, M. M, Blood, E. R., and Shaffer, L. R. Achieving sustainable freshwater systems. Island Press, Washington.
- Stanturf, J.A.**, Kellison, R.C., Broerman, F.S., and Jones, S.B. 2003. Productivity of southern pine plantations: Where are we and how did we get here? *Journal of Forestry* 101 (3): 26-31.
- Stanturf J.A.** and Madsen P. 2002. Restoration concepts for temperate and boreal forests of North America and Western Europe. In: *Forest Ecosystems: Ecology, Conservation and Sustainable Management* (eds. Jiang Z., Centritto M., Liu S. & Chiatante D.). *Plant Biosystems* 136, 143-158.
- ***Stanturf, J.**, Rummer, R., Wimberly, M., Rials, T., Araman, P., Busby, R., Granskog, J., and Groom, L. 2003. Developing an integrated system for mechanical reduction of fuel loads at the wildland/urban interface in the southern United States. P. 135-138 In Iwarsson-Wide, M. and Hallberg, I., editors, Proceedings from Forest Engineering Conference: Posters Techniques and Methods. Arbetsrapport från Skogforsk Nr. 539. Uppsala, Sweden: Skogforsk-The Forestry Research Institute of Sweden.
- Stanturf, J.A., Wade, D.D., Waldrop, T.A., Kennard, D.K., and Achtemeier, G.L.** 2002. Fire in Southern Forest Landscapes. P. 607-630 (Chapter 25) In Wear, D.M. and Greis, J.G., editors, Southern Forest Resource Assessment. Gen Tech Rep. SRS-53. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station.

Upcoming Events :

2003

*Jul 1	Fuel reduction resource allocation program meeting, Athens	Oct 4-8	3rd International Wildland Fire Conference, sponsored by the North American Forest Commission's Fire Management Working Group, Sydney, Australia. Achtemeier to attend. http://www.wildlandfire03.com
*Jul 9	Wildland Urban Interface project meeting, Athens	Oct 7-9	Management Team Meeting, SRS
Jul 20-24	10 th North American Forest Soils Conference, Sault Ste. Marie, Ontario, Canada; Stanturf, Callaham to attend and present posters. http://www.fs.fed.us/forestsoilsconference .	Oct 14-21	International Conference on ECO-RESTORATION, Dehradun and New Delhi, INDIA.
*Aug 4-8	Ecological Society America annual meeting, Savannah, GA; Leach to attend and present paper	Oct 25-29	Society American Foresters Annual Meeting, Buffalo, NY
Aug 11-14	IUFRO Working Group for Seed Physiology and Technology conference to be held at the Georgia Center, Athens, GA.	Nov 2-6	Soil Science Society of America annual meeting, Denver, CO
Sep 7-10	Council on Forest Engineering annual meeting, Bar Harbor, ME; http://www.forest-resources.umaine.edu/nercofe/cofe2003.htm	Nov 3-7	Invasive Plants in Natural and Managed Systems: Linking Science and Management and 7 th International Conference on the Ecology and Management of Alien Plant Invasions, Ft. Lauderdale, FL http://esa.org/ipinams-mapi7/abstractcall.htm
Sep 16-18	IUFRO Conference on 'Strong Winds and Trees: ecology and management, sponsored by WP 8.08.02 and University of Karlsruhe, Germany; re-scheduled from Aug 17-24 in Zurich; http://www.ifh.uni-Karlsruhe.de/ifh/science/aerodyn/windconf.htm .	Nov 4-6	SAMAB Fall Conference, Asheville, NC. http://samab.org/Conf/Conf03/conf03.html
Sep 18	Agroforestry and Wildlife Field Day, Griffin, GA	Nov 16-19	National Fire Risk Assessment Conference, Portland, OR.
Sep 21-28	12 th World Forestry Congress, Quebec City, Canada; http://www.wfc2003.org ; Stanturf to attend.	Nov 16-20	Second International Congress On Wildland Fire Ecology And Fire Management, in conjunction with the Fifth Symposium on Fire and Forest Meteorology. http://www.ametsoc.org
Sep 28-Oct 2	The Question Of Conversion of Coniferous Forests meeting, Freiburg, Germany; contact for further information: instww@uni-freiburg.de	Nov 19-22	Society for Ecological Restoration 15 th International Conference, Austin, TX (note new dates). http://www.ser.org
October 27-30	Annual Entomological Society of America Symposium in Cincinnati, OH. Callaham invited to give presentation.	Nov 27-Dec 5	IEA Short Rotation Bioenergy (Task 30) meeting, New Zealand and Australia http://www.shortrotationcrops.com/events.htm
Oct 2-3	Enhancing the Southern Appalachian Forest Resource symposium, Kanuga Conference Center, Hendersonville, NC. Rideout to Present. http://www.ces.ncsu.edu/nreos/forest/feop/symposium	*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 Reisensburg, Germany, http://www.sustman.de

2004

- *Feb 2-3** 2nd Annual Western Gulf Forest Soils Tour, Alexandria, LA
- Mar 2-4** Southern Research Station All Scientists Meeting
- Mar 17-19** 14th Central Hardwood Forest Conference, Wooster, OH. <http://www.oardc.ohio-state.edu/chfc2004/>
- Jun 21-25** IUFRO Division 1 - Silviculture Conference, CIRADForest, in Montpellier, France.
- Jun 27-Jul 2** First Agroforestry World Congress, Orlando, FL <http://conference.ifas.ufl.edu/wca/#background>
- Jul 25-31** 7th INTECOL International Wetlands Conference, Utrecht, The Netherlands. <http://www.bio.uu.nl/INTECOL>
- Aug** Society for Ecological Restoration 16th International Conference, Victoria, British Columbia.
- Sep 3-7** European Forest Institute (EFI) Annual Meeting, Bangor, Wales (UK).
- Sep 12-16** IUFRO Conference Regenerating Mountain Forests, Kloster Seeon, Bavaria, Germany; http://www.forst.tu-muenchen.de/events/rmf2004/index_en.html
- Oct 31-Nov 3** Soil Science Society of America Annual Meeting, Seattle, WA.
- Nov 17-25** IUCN Third World Conservation Congress (WCC), Bangkok.
- *Nov 7-11** Short Rotation Woody Crops Operations Working Group Biennial Meeting, Charleston, SC

2005

- Aug 8-13** IUFRO World Congress, Brisbane, Australia. Stanturf to attend. <http://www.iufro2005.com>
- Aug/Sep** Society for Ecological Restoration 17th International Conference, Zaragoza, Spain.
- Nov 6-10** Soil Science Society of American Annual Meeting, Salt Lake City, UT

“We are surrounded by possibilities that are infinite, and the purpose of human life is to grasp as much as we can out of that infinitude”

- Alfred North Whitehead



SRS-4104 Project Leader's Report

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