



**Disturbance and Change, Invasive Plants and Paths to Recovery
a Joint Meeting of Southeast Exotic Pest Plant Council and
the Southeast Chapter of the Society for Ecological Restoration International**

Chattanooga, TN, May 11-13, 2010

Sponsors



RPM Ecosystems Southeast,
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Underwriters



National Park Service, Southeast
Exotic Plant Management Team,
Asheville, NC
www.nature.nps.gov/biology/invasive/species/



US Forest Service
www.fs.fed.us/

Program Schedule

Tuesday, May 11

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| 9-11AM | <i>SE-EPPC Board of Directors meeting - Davenport Room</i> |
| 10AM-4PM | <i>Registration Silver Ballroom Foyer</i> |
| 1-1:30PM | <i>Welcome, SE-EPPC Award - Terrace Room</i> |
| 1:30-2:15PM | <i>First plenary speaker: Insights into the green initiatives being made within the city of Chattanooga. Gene Hyde, City Forester for Chattanooga, current Chair of the Chattanooga Green Committee, and lead member of Mayor Littlefield's climate protection core group.</i> |
| 2:15-3PM | <i>Second plenary speaker: Restoration of native grasses in the southeastern United States. Tom Barnes, University of Kentucky, Professor and extension wildlife specialist. Tom Barnes will be available for a book sale and signing during the social.</i> |
| 3-3:45PM | <i>Keynote speaker: Coping with disturbance and change: Identifying the costs associated with invasive plants in the Southeast. Don Hodges, University of Tennessee, Professor of Forest Economics and Policy and Director of the University of Tennessee Natural Resource Policy Center.</i> |
| 3:45-4PM | <i>Break Silver Ballroom Foyer</i> |



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4-5:30PM

Two concurrent sessions, submitted papers

Gold Room

Forest Restoration

4-4:30PM

E.E. Maynard and J.S. Brewer. Restoring little bluestem and broomsedge to upland forests in northern Mississippi

4:30-5PM

J. Barnett, D. Moore, and K. Allen. Restoring the Kentucky lady's slipper orchid in the Kisatchie National Forest: outplanting study results

5-5:30PM

R.M. Bain. Root Production Method® (RPM) - Rooted in science, grounded in nature

Terrace Room Invasive Species Education and Outreach

4-4:30PM

K.A. Rawlins, C.T. Barger, E. Griffin, and D. Moorhead. Invasive plants: Education and outreach in Georgia

4:30-5PM

K. Brown and A. Richard. The Florida Invasive Plant Education Initiative

5-5:30PM

T. Hogan, K. Sadler, J. Walck, K. Hurt, and S. Cofer. Chinese yam eradication, site restoration, and education on the threat posed by exotic invasive species in the Stones River Watershed

6-8PM

Social (cash bar), poster session, visit vendors and silent auction Silver Ballroom, Terrace Patio, Mezzanine

Posters

Restoration

- Yari Johnson and Ted Shear. Improving wetland restoration with help from North Carolina's natural forested wetlands
- Adam D. Klobucar, Elizabeth A. Aubuchon, David S. Buckley, and Jennifer A. Franklin. Native hardwood seedling transpiration and growth on steep reclaimed mine sites.
- Megan Malone and Ted Shear. Does restoration make streams more susceptible to invasion of exotic plants?
- Kimberly Shumate and Ted Shear. Art, inspiration, and ecological restoration.
- Sharon Jean-Phillippe, Jennifer A. Franklin, and Nicole Labbe. The effects of mycorrhizal uptake on mercury uptake by sycamore seedlings (*Platanus occidentalis*).

Invasive Plants

- Kimberly K. Crider and Elizabeth E. Crone. Biological control: A post release assessment using demographic population models
- Gary Ervin. Mississippi's noteworthy exotic plant species: Final draft list for comment.
- Donald Hagan, Shibu Jose, and H.E. Garrett. Mycorrhizae and alien plants: The interlinkages of invasion success
- Rima D. Lucardi, Charles T. Bryson, Lisa Wallace, and Gary N. Ervin. Assessing genetic diversity in a model invasive species: cogongrass (*Imperata cylindrica*) in the southeastern U.S.
- Kim Cleary Sadler, Terri Hogan, and LeeAnn Hayes. The more things change, the more they stay the same: An invasive plant education partnership about the noxious neighbors in our backyard.



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Wednesday, May 12

7:30-10AM Registration Silver Ballroom Foyer

8-8:30AM Announcements, logistics Terrace Room

8:30-10AM Three concurrent sessions, submitted papers

Gold Room Restoration

8:30-9AM M. Mills and G. Ervin. Response of rivercane (*Arundinaria* species) to competition, site preparation techniques, and flooding: Implications for habitat restoration

9-9:30AM R. Jolley, D.M. Neal, B. Baldwin, and G. Ervin. Optimizing rhizomal propagation of rivercane (*Arundinaria gigantea*)

9:30-10AM R.M. Bain and S.L. Harris. What makes it native?

Terrace Room Forest Restoration

8:30-9AM V.M. Davis. Forest ecosystem restoration on reclaimed coal mines

9-9:30AM J. Franklin. How do soil characteristics influence restoration success in forested ecosystems?

9:30-10AM K.J. Elliott, J.M. Vose, and B.D. Clinton. Using prescribed fire to restore shortleaf pine (*Pinus echinata*)-hardwood communities severely impacted by the southern pine beetle (*Dendroctonus frontalis* Zimmerman)

B. Smith Room Invasive Species

8:30-9AM S. Brewer. A method for quantifying habitat indication and expansion of invasive species

9-9:30AM D. Lemke, J. Brown, P. Hulme, and W. Tadesse. Invasion of non-native plant to the forest of the Cumberland Plateau and Mountain Region

9:30-10AM K. Heatley. Prioritizing invasive treatment sites with limited resources: The Fairfax County, Virginia model

10-10:15AM Break Silver Ballroom Foyer

10:15AM-12:15PM Three concurrent sessions, submitted papers

Gold Room Cogongrass Research and Organization

10:15-10:45AM S.F. Enloe, J. Aulakh, and N. Loewenstein. Herbicide treatments targeting cogongrass eradication

10:45-11:15AM J.H. Miller and W.H. Faircloth. Loblolly pine reforestation succeeds in significant cogongrass suppression after 8 years

11:15-11:45AM N.J. Loewenstein, J.H. Miller, and S.F. Enloe. Cogongrass seed production across Alabama and Georgia

11:45-12:15PM S.D. Pecot, L. S. Casey, P. A. Glass, J. H. Miller, and E.G. Lovett. Fighting the battle to win the war on cogongrass in Alabama

Terrace Room Invasive Species

10:15-10:45AM K. Brown, K. Serbesoff-King, and E. Myers. The Florida Invasive Species Partnership (FISP): Invasive species know no boundaries – and neither do we!

10:45-11:15AM D. Adams, A. Martinez, T. Hogan, R. Houser, and K. Hurt. Measuring restoration success in cedar glades after *Ligustrum sinense* removal

11:15-11:45AM G. Ervin. Getting the jump on invasives: Considerations during habitat management and restoration

11:45-12:15PM J. Cobb. Environmental impacts of non-chemical invasive weed control



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B. Smith Room Grassland Restoration

- 10:15-10:45AM S. Hughes and G. Ervin Construction of a GIS predictor for locating new sites for prairie conservation efforts in the Blackland Prairie region of Mississippi
- 10:45-11:15AM R. Seymour and J. Campbell. Control of alien species in native grassland: Restoration and establishment: lessons from a blackland "prairie" remnant
- 11:15-11:45AM D.A. Wymer and L.N. Marks. Blackland prairie restoration on traditionally manicured areas of a college campus
- 11:45-12:15PM J. Kelly and R. Concoby. Restoring native xeric sandhill groundcover on abandoned citrus grove lands near Lake Apopka in Ferndale, Florida: Exotic species control, site preparation and direct seeding

12:15-12:30PM ***Silent auction closes Silver Ballroom***

12:30-2:15PM ***Annual meetings, lunch provided by organizations***
Silver Ballroom: ***SE-EPPC lunch and annual meeting***
Crutchfield Room: ***SE-SERI lunch and annual meeting***

2:15-4:15PM ***Two concurrent sessions, submitted papers and cogongrass roundtable session***

Gold Room Cogongrass Roundtable Session, Plotting our Course into the Future: A Regional Effort

- 2:15-2:45PM J. Miller. Combating cogongrass: An overview of southeast state and regional programs and activities
- 2:45-4:15PM Roundtable discussion among cogongrass task force/CWMAs/etc.. from the region. Leave the room with a plan of action by state including funding requirements by state to be submitted for federal funding.

Terrace Room Wetlands Restoration

- 2:15-2:45PM J.A. Coombs, E. Burr, J.L. Wilson, and S.J. Fraley. Pigeon River Recovery Project: bringing back aquatic diversity
- 2:45-3:15PM E.A. Summers and M.J. Gray. Index of Biotic Integrity (IBI) models for monitoring ecological restoration in Tennessee hardwood bottomlands
- 3:15-3:45PM M.A. Ford. National Parks-National Treasures at risk from sea level rise in the southeastern United States
- 3:45-4:15PM J.D. Tobe and R.A. Davis. Coastal grasslands: What are the appropriate targets for basin marsh and wet prairie restoration in coastal Northwest Florida?



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Thursday, May 13

8AM-4PM Field Trips: All day trips, cogongrass workshops two hours each

1. North Chickamauga Creek State Natural Area (SNA) - Barker Camp/Vortex, TN

Join us for a hike to a remote area of the 7,500 acre North Chickamauga Creek State Natural Area. The field trip will focus on the restoration of a loblolly pine plantation, managing invasive species, and protecting federal species habitat in a public use area. The field trip will include a two mile back country hike down into the deep gorge to the "Vortex" which, during the winter, attracts expert (or crazy) kayakers who take on the Class V rapids. We will get wet in the creek. There are large boulders in the creek so closed-toed shoes are required. If you want a swim, bring shorts or swimsuit.

Field trip leaders: Ranger Andy Wright, Cumberland Trail State Park and Andrea Bishop, a botanist with the Tennessee Natural Heritage Program.

Driving time from Chattanooga: approximately 20 minutes

Notes: wear hiking shoes or boots, bring water and a camera

Capacity: 15

Difficulty: moderate to difficult

Fee: none

2. Hike to Laurel Falls and Snow Falls on the Cumberland Plateau, TN

Laurel-Snow Falls Designated State Natural Area is a 2,259-acre natural area located in Rhea County, Tennessee. The natural area occurs on the Walden Ridge of the Cumberland Plateau and contains a section of gorge that is deeply dissected by four creeks, Morgan, Henderson, Laurel, and Richland Creeks. The site is named after two scenic waterfalls, Laurel Falls (80 feet) and Snow Falls (35 feet), and features two prominent overlooks, Buzzard Point and Bryan Overlook (also known as Raven Point). The eight mile hike winds through scenic creeks, steep gorges, unique geologic features, and a small stand of virgin timber. A wide variety of native plants can be viewed in the natural area. Depending on the weather, people can swim in Henderson Creek, one of the best swimming holes in the area!

The land use history of this area remains evident in places, logging and deep mining took place in the late 1800s and early 1900s. Some remnants of the mining activities can still be seen along the trail. The Laurel-Snow trail was the first National Recreation Trail designated in Tennessee and is part of the Cumberland Trail State Scenic Trail, the state's only linear state park. When completed the Cumberland Trail will be 300 miles in length cutting through 11 Tennessee counties from the Cumberland Gap National Historic Park on the Tennessee-Virginia-Kentucky border to the Signal Point near Chattanooga.

Field trip leaders: Lisa Huff, East Tennessee Stewardship Ecologist with the Natural Areas Program within Tennessee State Parks.

Driving time from Chattanooga: approximately 40 minutes

Notes: wear hiking shoes or boots, bring water and a camera

Capacity: 15

Difficulty: moderate to difficult

Fee: none



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3. Behind the Scenes Tour of the Tennessee Aquarium

The Tennessee Aquarium is one of the finest Aquariums in the United States with two buildings: River Journey featuring freshwater rivers of the world and Ocean Journey featuring a large saltwater tank with six sharks and hundreds of tropical fish. This building also houses the Butterfly Garden with tropical butterflies and the Penguins' Rock exhibit. This three hour behind the scenes tour demonstrates how computers monitoring water temperatures, water levels, and other vital information link the entire Aquarium campus. Attendees will learn about food preparation and visit the pump room. Visitors will also go to the top of the 30 foot salt water tank to observe divers in action. During this tour, you will learn many interesting things about what it takes to prepare this facility for the public on a daily basis.

Field trip leaders: Tennessee Aquarium staff

Driving time from Chattanooga: you're already there

Notes: wear comfortable walking shoes, bring water and a camera

Capacity: 15-20

Difficulty: easy

Fee: \$19.95 for entrance to Aquarium or \$25.95 for entrance to Aquarium and IMAX

4. Little River Canyon National Preserve, AL

Little River Canyon National Preserve was established in 1992. It protects one of the deepest canyons in Alabama through which runs the Little River. The Little River is the first river in the state to be declared an Outstanding National Resource Water under the federal Clean Water Act. The Preserve encompasses habitat for many plants and animals, including rare and endangered species. Forested uplands, waterfalls, canyon rims and bluffs, pools, boulders, and sandstone cliffs offer settings for a variety of inhabitants as well as a diversity of recreational opportunities. Within these many special places, there are also areas shaped by a history of use that is echoed throughout the Southeast. Silviculture, exotic species invasions and fire suppression have brought about a change in the landscape that Preserve staff is working to turn around.

Visit some of these special areas that Preserve staff is working to restore and enhance including Cumberland sandstone glades, green pitcher plant habitats and areas where exotic plants infest and are being removed. No trip is complete without a visit to some of the beautiful scenic vistas along the canyon rim.

Field trip leaders: Little River Canyon National Preserve staff Mary Shew, Resource Management Specialist and Shawn Waddell Biological Science Technician

Driving time from Chattanooga: approximately 1 hour

Notes: wear hiking shoes or boots, bring water and a camera

Capacity: 15-20

Difficulty: easy to moderate

Fee: none

5. Cherokee National Forest invasive plant control and restoration, TN

The Cherokee National Forest, created in 1936, will host a day trip to visit several sites on the Ocoee District of the forest. Trip leaders will discuss the long history of human use of forests in this area of the Southern Appalachians. This trip will focus on the use of fire to restore upland forests, including oak savannah and shortleaf pine stands. We will also hear about the US Forest Service's management strategies to control invasive species. Some exotic plant management (primarily kudzu) has been accomplished using innovative cooperative funding, as well as enhancing powerline ROW's



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for wildlife habitat. The Forest has an extensive network of roads allowing us to visit several sites and enjoy the mountains with minimal hiking in this steep and rugged terrain.

A stop at the 1996 Olympic Whitewater Center will be included; this area was landscaped with native plants.

Field trip leaders: TBA

Driving time from Chattanooga: approximately 1 hour

Notes: wear hiking shoes or boots, bring water and a camera

Capacity: 15-20

Difficulty: easy to moderate

Fee: none

6. Lookout Mountain/Lula Lake invasive plant control and restoration, GA/TN

Chickamauga and Chattanooga National Military Park's Lookout Mountain Unit will be the first stop on this multi-site field trip. Here we will see exotic plant control and recreational climbing management to protect rare cliffside plants. Historic Civil War sites and great views of the Tennessee River's Moccasin Bend are included. Nearby we will learn about the Lookout Mountain Conservancy's various strategies for kudzu control, including the use of goats. Lookout Mountain Conservancy has spent over \$50,000 in the last 10 years to try to rein in this highly invasive species. From there we will travel about 15 miles south to the Lula Lake Land Trust, where the manager will take us along Rock Creek to see several different plant species including the threatened Virginia Spiraea and an experimental chestnut grove, then head up to the bluff where you can see all the way to the Blue Ridge mountains on a clear day (the same view that Rock City claims-"see seven states"). We can then hike back down to Lula Lake and Lula Falls. There is a steep trail that goes to the bottom of the 100' Lula Falls-you can get wet there if you choose to and walk behind the waterfall. The small lake is just upstream from the waterfall. There are picnic tables and a restroom nearby. All of this is probably about 1.5 mile round trip, but does involve some elevation change.

Field trip leaders: Christine Bock, Lookout Mountain Conservancy and Kristine Johnson, Great Smoky Mountains National Park

Driving time from Chattanooga: approximately 15 to 20 minutes

Notes: wear hiking shoes or boots, bring water and a camera

Capacity: 15

Difficulty: moderate

Fee: none

7. Two separate, 2-hour long cogongrass identification workshops (9AM and 1PM): University of Tennessee Extension facility in Chattanooga

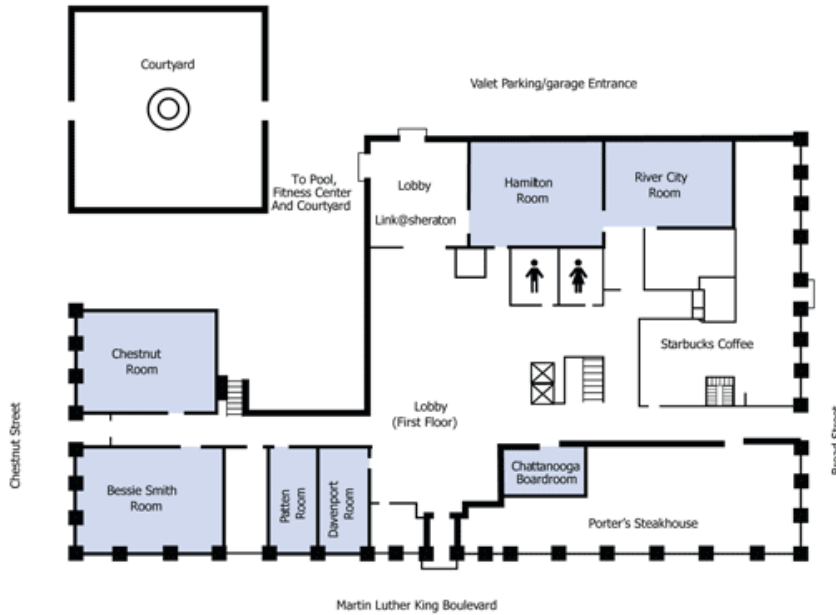


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Layout of Hotel

First Floor



Ground Floor

- Tuesday SE-EPPC board meeting: Davenport Room
- Wednesday Sessions: Bessie Smith Room
- Thursday Field Trips: Valet Parking/garage Entrance

Second Floor



Second Floor

- Tuesday Sessions, Registration, Vendors, Silent Auction, Poster Session, Social: Terrace Patio, Terrace Room, Silver Ballroom Foyer, Silver Ballroom, Gold Room, Mezzanine
- Wednesday Sessions, Registration, Vendors, Silent Auction, Poster Session, SE-EPPC and SE-SERI luncheons: Terrace Patio, Terrace Room, Silver Ballroom Foyer, Silver Ballroom, Crutchfield Room, Gold Room, Mezzanine