

Internodes

Mark Your Calendar

- Weed Science Society of America (WSSA) and Southern Weed Science Society joint annual meeting, Orlando, FL. February 9-12, 2009. www.wssa.net
- NIWAW 10, National Invasive Weeds Awareness Week, Washington DC. February 22-27, 2009. <http://www.nawma.org/index.html> – click on NIWAW X or contact Lee.VanWychen@wssa.net
- Association of Southeastern Biologists, Birmingham, AL. April 1-4, 2009. www.asb.appstate.edu
- Florida Vegetation Management Association meeting, Daytona, FL. April 14-17, 2009. <http://www.fvma.info>
- The 16th International Conference on Aquatic Invasive Species (ICAIS), April 19-23, 2009. Montreal, Canada. www.icaais.org
- UF/IFAS Aquatic Weed Control Short Course, Coral Springs, FL. May 4-7, 2009. Aquatic, upland and invasive weed control; aquatic plant identification. <http://conference.ifas.ufl.edu/>
- 11th Annual Southeast Exotic Pest Plant Council (SE-EPPC) Symposium hosted by the South Carolina EPPC (SC-EPPC), *Creating Sustainable Landscapes for the Future*, Georgetown, SC. May 13-15, 2009. www.se-eppc.org
- 29th Florida Native Plant Society meeting, *Wake Up and Plant the Natives: Planting Today to Preserve Florida's Tomorrow*, West Palm Beach, FL. May 21-24, 2009. www.fnps.org
- 24th Annual Symposium, Florida Exotic Pest Plant Council, Delray Beach, FL. May 26–29 2009. <http://www.fleppc.org/Symposium/2009/>
- Mid-Atlantic Exotic Pest Plant Council, in cooperation with the Morris Arboretum of the University of Pennsylvania, *Complicating Factors in Invasive Plant Management – Circumstances Beyond Our Control?* University of Pittsburgh-Johnstown Campus, PA. August 11-12, 2009. www.ma-eppc.org
- 10th International Conference on the Ecology and Management of Alien Plant Invasions (EMAPI), Stellenbosch, South Africa. 23-27 August, 2009. <http://www.invasivespeciesinfo.gov/news/calendar.php>
- 19th Conference of the Society for Ecological Restoration International, *"Making Change in a Changing World."* 23-27 August, 2009. Perth, Australia. <http://www.ser.org/>
- 12th European Weed Research Society (EWRS) International Symposium on Aquatic Weeds. Jyväskylä, Finland. August 24–28,

2009. E-mail: invasive-plants@ewrs.org or <http://www.ewrs.org/ewrs-iw.htm>

- 2009 ICOET International Conference on Ecology & Transportation, Adapting to Change, September 13-17, 2009, Duluth, MN. "The 2009 ICOET conference needs to hear more about the vegetation (native and/or invasives), pollinators, migratory birds, and climate change research that is being done on, OR applies to, highway corridors." www.icoet.net
- International Congress on Biological Invasions, *Managing Biological Invasions Under Global Change*, Fuzhou, China. November 2-6, 2009. <http://61.154.14.15/icbi2009/default.htm>

Websites

The Habitattitude™ campaign was recently unveiled at the first joint trade show between the pet and aquarium industry and the nursery and landscape industry. By drawing attention to the potential environmental ramifications of the aquarium and water garden hobbies while promoting responsible consumer behaviors, Habitattitude™ seeks to eliminate the transfer and survival of any species outside of enclosed, artificial systems which have the potential to cause the loss or decline of native plants and animals. The web site is part of the Aquatic Nuisance Species (ANS) Task Force public awareness campaign and is sponsored by the U.S. Fish and Wildlife Service. <http://www.habitattitude.net/>

The North Carolina Sandhills Weed Management Area (NCSWMA) is composed of federal, state, and local agencies working with public and private landowners to prevent noxious and invasive weeds from causing ecological and economic damage in the region. Organized in 2006 with assistance from the US Army Engineer Research and Development Center, Construction Engineering Research Laboratory (ERDC-CERL) and the DoD Legacy Resource Management Program, the NCSWMA website is at www.ncswma.org

Publications

Program of Research on the Economics of Invasive Species Management – Fiscal 2003-2006 Activities, by E. Ashley, C. Osteen, W. Hahn, et al. 2007. USDA Economic Research Service, Washington, DC, 38 pp. <http://www.ers.usda.gov/Publications/AP/AP021>

Unmanned Aircraft Systems (UASs) for Ecological Research and Natural-Resource Monitoring (Florida), by A.C. Watts, W. S. Bowman, A.H. Abd-Elrahman, et al. 2008. *Ecological Restoration* 26(1):13-14.

Internet Forums as Potential Invasion Routes for Exotic Plants, by Y. Reyjol. 2007. *Biodiversity and Conservation* 16:2231-2232.

Comparing the Rate of Invasion by Heracleum mantegazzianum at Continental, Regional, and Local Scales, by P. Pysek, V. Jarosik, et al. 2008. *Diversity and Distributions* 14:355-363. "At the continental and regional scales, humans played a crucial role in the invasion of *H. mantegazzianum* by planting it as a garden ornamental... Species traits played an important role in local spread, resulting in the colonization of new sites."

Preventing Horticultural Introductions of Invasive Plants: Potential Efficacy of Voluntary Initiatives, by J.W. Burt, A.A. Muir, J. Piovia-Scott, et al. 2007. *Biological Invasions* 9(8):909-923. A survey of nursery professionals showed "...only 7% of respondents had heard of the St. Louis Voluntary Codes of Conduct..."

Inventory and Survey Methods for Nonindigenous Plant Species, Ch. 5, p. 46, Training – discusses training field crews to identify and record nonindigenous plant species by placing plastic plants within known infestations of weeds. If these locations are not subsequently recorded by the crews during ID exercises, trainees are sent back out until the plants are found. "It is especially humbling if the plastic weeds are labeled with a note telling anyone who finds them to return them to the trainer."

An Asian Orchid, Eulophia graminea (Orchidaceae: Cymbidieae), Naturalizes in Florida, by R.W. Pemberton, T.M. Collins, and S. Koptur. 2008. *Lankesteriana* 8(1):5-14. The authors request help in finding new populations in Florida and ask for photographs or specimens, and location and occurrence details.

Roadside Weed Management by B. L. Harper-Lore, M. Johnson and M.W. Skinner, eds. 2007. USDA Federal Highway Administration Publ. No. FHWA-HEP-07-017. 369 pp. Goes "beyond the law and policy of weeds to the applied science of weed control and management."

The 2008-2012 National Invasive Species Management Plan (the first revision of the 2001 plan) has been released by the National Invasive Species Council. The plan was developed collaboratively by 13 federal departments and agencies and their partners. It is available online at: http://www.doi.gov/news/08_News_Releases/080801.html

Wildland Fire in Ecosystems: Fire and Nonnative Invasive Plants, by K. Zouhar, J. K. Smith, S. Sutherland, M.L. Brooks (2008) is available from the Rocky Mountain Research Station publications website (www.fs.fed.us/rm/pubs/rmrs_gtr042_6.html). This comprehensive,



Invasive Plants of the United States DVD-ROM – Identification, Biology and Control, FHTET-08-11 is a collaboration between the USDA Forest Health Technology Enterprise Team and the University of Georgia Center for Invasive Species and Ecosystem Health (CISEH). The DVD compiles information in recent publications from the USDA Forest Service, USDA APHIS PPQ, The National Park Service, US Fish and Wildlife Service, The Nature Conservancy, The Plant Conservation Alliance, The Southeast Exotic Pest Plant Council, the Invasive Plant Atlas of New England and the University of Florida Center for Aquatic and Invasive Plants. It contains 2,738 images by 187 photographers covering 218 species. Copies are free from Richard Reardon, FHTET, USDA Forest Service, Morgantown, WV, reardon@fs.fed.us, 304-285-1566. Also available online at: <http://www.invasive.org/weesdcd/>

nation-wide review synthesizes the current knowledge regarding the effects of fire on nonnative invasive plants, the effects of nonnative invasives on fire regimes, and the use of fire to control invasive plants. It also describes emerging fire-invasive issues in each of 7 bioregions in the United States, including Hawaii and Alaska. The volume can be used in fire management and ecosystem-based management planning. 355 pp.

CDs

1,200 Weeds of the 48 States and Adjacent Canada, \$49.95 - XID Services has released this DVD as a follow-up to the *1,000 Weeds of North America CD*, a comprehensive weed identification database. It includes an interactive key with a graphical user interface, illustrated glossary, and county level distribution maps (courtesy of Biota of North America Program (BONAP)). www.xidservices.com

Invasive Exotic Plants of North Carolina is now available electronically on the North Carolina Department of Transportation's website: <http://www.ncdot.org/doh/preconstruct/pe/new/NEUProcedures/default.html>

Intended as a field guide, the ultimate goal is to provide land managers with hard copies whenever funds for printing become available. The primary purpose of the guide is to provide assistance in the identification of those 74 plants that pose the most threat to wildlife habitat and natural areas, the habitats most susceptible to invasion, and methods to control or eradicate these plants. The guide also contains information on native plant alternatives, the SE-EPPC mapping project, EDDMapS, for early detection of infestations, additional resources for exotic and native plants, and the Federal Noxious Weed List.

—Cherri Smith, North Carolina Department of Environment and Natural Resources, cherri.smith@ncmail.net

In the News

Invasive Plants in Galápagos May Really Be Native by Henry Fountain, November 20, 2008

"...according to a study in Science: some of these pariah plants turn out to be native after all. They predate humans in the Galápagos by thousands of years. The evidence for this is in the form of fossilized pollen grains found in sediment cores from bogs on Santa Cruz island in the heart of the archipelago."

http://www.nytimes.com/2008/11/25/science/25obplants.html?_r=1&ref=science

Reported in the Buffalo News World & Nation, August 28, 2008 — A mother of two survived five nights buried in a kudzu infestation along U.S. 321 in Lenoir, North Carolina. The woman's pickup truck jumped an 18-foot embankment and landed 100 feet below in a deep ravine covered over in kudzu. Hundreds of people had been searching for five days but the vehicle was obscured by the noxious vine. <http://www.buffalonews.com/nationalworld/national/story/425026.html>

Invasive Plants Threaten Florida's Native Species by Steve Patterson, *The Times-Union*, Nov. 12, 2008

— In sand dunes by the St. Johns River, chain-saws and squirt bottles became weapons to defend Florida's ecology. Land-clearing crews crossed Buck Island in teams, some slicing through young trees as others sprayed herbicides to kill the fresh-cut stumps. Their targets were the Jacksonville island's 5,000 shoots of saltcedar [Tamarisk], a fast-spreading Asian plant that long ago overran the American Southwest and is emerging on the Atlantic coast. The project was organized by the **First Coast Invasive Working Group**, a collection of governments and landowners trying to control an explosion of plants that aren't native to the state. <http://www.floridainvasives.org/FirstCoast/> http://www.jacksonville.com/tu-online/stories/111308/met_355308290.shtml (see article in this issue on the Florida Invasive Species Partnership, p. 6-8).

From the **KO Kudzu** September newsletter: The "joint study" behind the Beacon Restaurant in Spartanburg, SC with Matt Nespeca's SC-EPPC "kudzu control with chemicals team" has gone so well that we now have a second "multi-discipline" undertaking. With support by Travis Rogers from Dow AgroSciences, and with donation of time and equipment by certified herbicide applicator Tommy Eubanks of Helena Application Services, Milestone HMV® was sprayed on four to five acres of kudzu behind the Preservation Trust homes on Carlisle Street in Spartanburg. The marriage of well-managed herbicide application and follow-up with non-chemical methods appears to work well. <http://kokudzu.com/JointStudy.html>



Howls of victory sounded through the area as Spartanburg Urban Youth Corps members in South Carolina carried out the largest Kudzu crown of the day. And what a crown it was! This monster measured 25½ inches (65 cm) in circumference, surpassing the previous champion. Thanks to the work of volunteers like the Spartanburg Urban Youth Corps, the appearance of the site continues to improve. http://www.kokudzu.com/Collins_Barksdale.html

INVASIVE SPECIES: In war against invasive plants, nurseries play unwitting role by Scott Streater, special to Land Letter, July 31, 2008 — “The most powerful incentive to produce and sell is demand,” said Wayne Mezitt, the past president of the American Nursery and Landscape Association, and the current chairman of Weston Nurseries in Hopkinton, Mass. Gary Smith, an ecologist and member of the American Society of Landscape Architects, says the key is to provide consumers with alternatives to invasive plants. “We’ve got to find a way to keep the sexy plants in cultivation, but do it in such a way as to not encourage the use of invasive plants,” he said. “Otherwise people will get bored with the native thing, and they’ll go back to the thing they used to do, and that’s not good.”

<http://www.eenews.net/Landletter/2008/07/31/archive/1?terms=unwitting>

Grants

The **Florida Exotic Pest Plant Council** is soliciting proposals for the FLEPPC Kathy Craddock Burks Education Grant and the Julia Morton Invasive Plant Research Grant. See RFPs on page 22 or visit the FLEPPC website at: www.fleppc.org

From the Other Side

Be sure to visit the **Center for Invasive Plant Management** (CIPM) for everything you need to know about invasive plant species in the West. Although oriented mostly toward western states, CIPM provides resources pertinent to the entire nation, including a substantial compilation of grant opportunities and a bimonthly e-newsletter on invasive plant science, management, education, and policy. See their website at <http://www.weedcenter.org/>

Aquatic Invasive Species News In A Nutshell focuses primarily on regional and aquatic issues, but it also contains terrestrial, national and international invasive events of interest. Published by the Pacific States Marine Fisheries Commission, Portland, Oregon, phone (503) 595-3100 <http://www.psmfc.org/>. Executive Editor: Joan Cabreza, e-mail: Joan_cabreza@psmfc.org; Managing Editor Stephen Phillips, ANS Program Manager, e-mail: Stephen_phillips@psmfc.org.

Hydrilla in Idaho

Hydrilla (*Hydrilla verticillata*) was identified in July 2008 in a small warm-water ditch in suburban West Boise, ID. There is no public access to the ditch and 21 properties have been

found to have hydrilla present in a 400 meter area. The ditch receives geothermal water from several wells in the area and remains warm throughout the winter. Hydrilla also was identified in the Bruneau River near Bruneau, ID in December 2007. A subsequent survey found a 7-mile infestation extending toward CJ Strike Reservoir. ISDA, in cooperation with Idaho Fish and Game, Idaho Department of Environmental Quality, Idaho Office of Species Conservation, US Fish and Wildlife Service (USFWS) and landowners, worked together on a treatment plan and the river was treated with a diquat injection. Diver assisted suction dredging later was used to remove the plants and tubers from the upstream end of the infestation. The distribution of established hydrilla populations in Idaho appears to be limited to geothermally influenced warm-water areas. Due to the aggressive nature of this plant, the Idaho State Department of Agriculture (ISDA) is dedicated to the eradication of hydrilla from Idaho wherever it occurs. For more information on the progress of the hydrilla eradication program in Idaho, contact Tom Woolf, Aquatic Plant Program Manager: (208)-332-8564, twoolf@agri.idaho.gov

Q&A

Date: Friday, August 01, 2008

Subject: ‘Plant of the Week’

Attached is our Plant of the Week for 8/4/08, *Clematis terniflora*, Virgin’s bower. This week, we have selected a hardy vine that will bloom well from Maine to Florida, and there’s not too many of those! It’s the cousin of a Northern favorite, that we’re in love with down here in Florida! We think you will be, too.

— Sales

Date: Thu, 11 Sep 2008

Subject: ‘Plant of the Week’

Hello,

The plant you are promoting this week is a species we have been working very hard to control here in north Florida. It is a very aggressive exotic invasive that is extremely difficult to kill. The University of Florida just completed a research project on the best herbicides to use to control this species. The City of Gainesville and the Florida Department of Environmental Protection have spent tens of thousands of dollars on eradication efforts. The plant completely infests many natural areas where I live, overwhelms the native vegetation and degrades the habitat value for wildlife.

It is disheartening to realize that people can go out and buy this plant we are trying so hard to keep from taking over. I hope you will reconsider selling this plant.

—Erick Smith, Urban Forester

Videos

New documentary videos have been produced as part of the National Invasive Species Program from the USDA Forest Service including: *Defending Favorite Places - How Hunters and Anglers Can Stop the Spread of Invasive Species* and a training video for road maintenance crews, “*Dangerous Travelers: Controlling Invasive Plants Along America’s Roadways.*”

Videos can be downloaded or are available free. <http://www.fs.fed.us/invasivespecies/prevention/defending.shtml>

In addition, the USDA has produced the following short videos (approx. two minutes each) on how hunters and anglers from all over the country can get involved with invasive species prevention and control:

URL: mms://ocbmtcwmp.usda.gov/content/bmtc/vnr/places_part1.wmv

URL: mms://ocbmtcwmp.usda.gov/content/bmtc/vnr/places_part2.wmv

URL: mms://ocbmtcwmp.usda.gov/content/bmtc/vnr/places_part3.wmv

URL: mms://ocbmtcwmp.usda.gov/content/bmtc/vnr/places_part4.wmv

URL: mms://ocbmtcwmp.usda.gov/content/bmtc/vnr/places_part5.wmv

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