



DOD Invasive Species Short Course - Outline.

Hill Ballroom Central—Carolina Inn

Monday

- 8:30-8:45 Welcome and Logistics for the week (Steven Manning)
- 8:45-9:15 Class Introductions (Participants and Instructors introduce themselves giving brief background information, current projects, and installation invasive plant issues and concerns)
- 9:15-9:30 AFPMB Briefing Overview of the Issue: Invasive Plant Management in the DOD (Pete Egan and Donald Teig)
- 9:30-9:50 What are Cooperative Invasive Species Management Areas?: Resources and Support (Janet Clark)
- 9:50-10:10 Break (Snacks Offered)
- 10:10-10:40 Plants of Concern- Overview of High-Profile Invasive Plants in the Southeastern US (Lee Patrick)
- 10:40-11:20 Other Species of Concern (Randy Westbrooks)
- Insects and Diseases – Overview of Major Crop Pests and Disease Organisms
 - Aquatic Nuisance Species (Zebra Mussel, Asian Clam, Chinese Mitten Crab, etc.)
 - Injurious Wildlife (e.g., Nutria, Sitka Deer, Feral Pigs, Rats, etc.)
- 11:20-11:30 Cooperative work with the National Park Service and Nile monitors (Mike Andrejko)
- 11:30-12:00 Ecological and Economic Impacts of IAS (Randy Westbrooks)
- 12:00-1:00 Lunch
- 1:00-2:00 Major Elements of a National IAS Prevention Strategy (Randy Westbrooks)
- Interagency Partnerships
- 2:00-2:20 Prevention Techniques (Randy Westbrooks)
- 2:20-2:40 DoD and Army Approaches to Invasive Species Research and Management (Hal Balbach)
- 2:40-3:05 APHIS (Billy Newton) Federal Plant Regulatory Programs
- 3:05-3:20 Break (Snacks Offered)
- 3:20-3:50 Prevention techniques- decontamination of military systems (Mikko Lamminen)
- 3:50-4:15 Portable Equipment Cleaning Tools (Sheilah Kennedy)
- 4:15-4:30 **Classroom and Lab Activity:** Weed Risk Assessment for Beach Vitex (*Vitex rotundifolia*)
- 4:30-5:00 Developing a CISMA (Explain daily CISMA Exercise and begin first component – Pathways and Prevention) (Janet Clark)
- 5:00 Adjourn
- 5:30 Offer dinner at the hotel
- 7-9:00 Consultation Room--Club Room
One on one consultations (30 minutes apiece) to discuss priorities and needs at participants installations



Tuesday

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Classroom

- 8:00-8:10 Review Monday topics (Steven Manning)
- 8:10-8:40 Why is Mapping Important in Monitoring and Inventory of Invasive Plants? (Les Mehrhoff)
- 8:40-9:10 Methods Used to Collect Weed Data on Military Installations (Mapping and Monitoring Strategies) (Meeghan Wallace)
- 9:10-9:40 GPS Technology (Rick Lusher)
- 9:40-10:00 Break (Snacks Provided)

Field Exercise

- 10:00-10:30 Winter Plant Identification at Battle Park (Les Mehrhoff)
- 10:30-12:00 Mapping Exercise “Considerations for Planning” Discuss mapping methods appropriate for site

Classroom

- 12:00-1:00 Lunch
- 1:00-1:45 EDDMaps (Chuck Bargeron)
- 1:45-2:10 Integrated Pest Management on Military Installations (Lee Patrick)
- 2:10-2:30 Break (Snacks Provided)
- 2:30-4:00 Biological Control for Invasive Weed Management in the Southeast (Jim Cuda)
- 4:00-4:10 Break
- 4:10-4:30 Florida’s CISMAs (Chuck Bargeron)
- 4:30-5:00 CISMA Exercise-Partners and Goals (Janet Clark)
- 5:00 Adjourn

- 5:30-7:00 Cash Bar Reception with Light Hors d'oeuvres
Located in Chancellors West Room

- 7-9:00 Consultation Room--Alumni Room
One on one consultations (30 minutes apiece) to discuss priorities and needs at participants’ installations



Wednesday

Hill Ballroom Central—Carolina Inn

Classroom

- 8:00-8:10 Review of Tuesday Session
8:10-8:40 Control Techniques: Overview, Grazing and Fire (Lee Patrick)
8:40-9:20 Control Techniques: Chemical and Mechanical - Selecting the Right Method for the Job and Related Costs (Steven Manning)
9:20-10:00 Brazilian Pepper and Cogon Grass Control at Cape Canaveral Air Force Base (Don George)
10:00-10:20 Break (Snacks Provided)
10:20-10:50 Pesticide Basics...The Generic Options (Matt Nespeca)

Field Exercises

- 10:50-12:00 Demo of the Waipuna Hot Water Treatment at the Carrboro Public Works Facility
12:00-1:00 Lunch
1:00-1:45 Aquatic Invasive Species Overview (Rob Richardson)
1:45-4:00 Field Tour (Rob Richardson and Rob Emens will lead a tour of the aquatic CWMA at Jordan Lake which will include an aquatic application demo using Airboats and other equipment)
4:00-4:20 Break (Snacks Provided)
4:20-5:00 CISMA Group Exercise- Prioritizing Management (Janet Clark)

5:00 Adjourn (Dinner on your own)

7-9:00 Consultation Room--North Parlor
One on one consultations (30 minutes apiece) to discuss priorities and needs at participants' installations

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Thursday (Field Exercises)

Hill Ballroom Central—Carolina Inn

Classroom

- 8:00-8:10 Review of Wednesday Events
8:10-9:00 Cogongrass and Japanese Stiltgrass, ecology and control (Rick Iverson)
(State Plant Regulatory Programs, bushkiller as a newcomer)
9:00-9:30 Pesticide Basics...The Brand Name Options (James Bean)
9:30-10:00 Mixing and Calibration (Rick Iverson)
10:00-10:20 Break (Snacks Offered)

Field Exercises

- 10:20-12:00 “Evaluating a Site- Battle Park” Field Exercise and Field Trip to treatment site to discuss control techniques for **woody and semi woody species** (Conducted by all instructors and company reps)
- PPE Demo (Martin Clark)
 - Mixing and Calibration Station (Rick Iverson)
 - Backpack Sprayer Calibration Exercise
 - Herbaceous, Vines, Shrubs Station (Spraying)
 - Use of Clearcast (Jim Bean)
 - Handsprayer station
 - Mechanical Station
 - Backpack Station
 - Woody Vegetation Station (Hack & Squirt, Cut Stump, Basal Application)
 - Chainsaws
 - Brushcutters
 - Machetes/Hatchets
- 12:00-12:45 Lunch at NC Botanical Garden Educational Center provided by Saladelia Cafe
- 12:45-1:15 Thinvert Applications Presented in Garden Conference Room (Lenz)
- 1:15-4:00 “Evaluating a Site- NC Botanical Garden’s Mason Farm” Field Exercise and Field Trip to treatment site to discuss control techniques for **Prairie Restoration** (Conducted by all instructors and company reps)
- Biomass presentation
 - Thinvert Demo in Field
 - Nozzle selection and demonstration at appropriate stations.
 - “Goat Patrol” Demonstration on local species
 - Gyrotrack/Mulching Machine GT-140 and the GT-25xp Demonstration (Wendell DeVries)
 - Diamond Wetblade Demo (Gary Summerfield)
 - RTV Station
 - ATV Station
 - Enviroquip Sprayer Demo (Sammy Keziah)
 - Seeding Equipment Demonstrations
- 4:00-4:30 CISMA Group Exercise – Integrating Management Techniques (Janet Clark)
- 4:30 Adjourn



Strategies and Tools to Prevent the Introduction of Invasive Species

- 5 -

Presented by Invasive Plant Control, Inc.

- 4:30-6:00 Consultation Room--Club Room
One on one consultations (30 minutes apiece) to discuss priorities and needs at participants' installations
- 6:00 Dinner/Social offered at hotel

Friday

Hill Ballroom Central—Carolina Inn

- 8:00-8:10 Review of Previous Days
- 8:15-8:45 Fescue and Lespedeza Field Conversion to a Native Plant Meadow (Johnny Randall)
- 8:45-9:05 Natural Resources Partnerships: What Works and What Does Not? (Pedro Morales)
- 9:05-9:20 Invasive Species Funding Mechanisms (Lee Patrick)
- 9:25-10:00 Invasive Species Contracting Mechanisms (Meegan Wallace)
Developing Bid Specifications (Steven Manning)
- 10:00-10:10 Break
- 10:10-11:30 CISMA Team Activities Presented (Participants)
- 11:30-12:00 Take Control- Utilizing Your Newly Acquired Invasive Species Management Resources
- 12:00 Adjourn