



WORKSHOP/FIELD TRIPS
Monday, August 27

	Time	Cost
<u>Wetland Prediction Workshop for Beginning GIS Practitioners</u>	8:30-11:30	\$40
<u>Wetland Prediction Workshop/Shirley Plantation Tour</u>	8:30-5:30	\$80
<u>Shirley Plantation History, Hydric Soils, and Created Wetlands - 400 Years of History</u>	12:00-5:30	\$50
<u>Combined Rice Center/Shirley Plantation Field Trip</u>	8:30-5:30	\$70
<u>History, Wetlands and the Shorelines of Jamestown and Yorktown</u>	8:30-4:30	\$60

Please note you may attend the Shirley Plantation Tour as an afternoon only field trip or combined with the Wetland Prediction workshop, or combined with the Rice Center field trip.



Wetlands in Williamsburg

Williamsburg Interpretive Village

Wetland Prediction Workshop for Beginning GIS Practitioners
8:30 a.m.-11:30 p.m.

Monday August 27 at Williamsburg Conference Center

Description: The half-day workshop will focus on making predicted wetland maps of the James River vicinity. Virginia Tech Conservation Management Institute staff will bring 15 laptops preloaded with software and data for people with working knowledge of ArcGIS (registered software, ESRI). See <http://www.vt.edu> for details. We will begin with simple overlay of GIS layers such as SSURGO and NWI on aerial photos, black and white and color infrared satellite images. We will practice accessing hydric soils maps and reports from Web Soil Survey 2.0. We will conduct some digital mapping of the wetlands at Shirley Plantation using SSURGO, NLCD and NHD and compare combinations of data. Then there will be a demonstration of the use of remote sensing software in the production and update of NWI. Printouts of the methods used in the workshop and maps of the wetlands at the Shirley Plantation will be provided for those who go on that field trip as well.



Wetlands in Williamsburg

Costs:

\$40 - 1/2 day Wetland Prediction Workshop – (includes laptops with software loaded and maps)

\$80 - Workshop plus Shirley Plantation Tour – (includes morning workshop plus lunch, Shirley Plantation admission, transportation)

Number of participants for Workshop: 15 people with working knowledge of ArcGIS (registered software, ESRI)



Shirley Plantation



Shirley Plantation



Kitchen at Shirley Plantation

**Shirley Plantation/Rice Center Field Trip
12:00 noon-5:30 p.m.**

Shirley Plantation History, Hydric Soils, and Created Wetlands - 400 Years of History.

This is also a continuation of the tour that begins with the Rice Center for those who sign up for the all day field trip. Those participating in the full day field trip will arrive at Shirley Plantation from the Rice Center by boat (see below for description of Rice Center field trip in the morning).

Destination: Shirley Plantation) - Hosts: John Galbraith (Virginia Tech), Charles Carter (Shirley Plantation owner), and Dr. Jim Perry. This plantation has been owned and operated by the same family since the early 1600s, and Charles is a direct descendent.

Plantation and Field Tours: We will make at least three stops: the plantation house and grounds; a sandy wetland formed in sandy dredged materials and silty river sediment in the last 30 years; and a three-year-old sandy, tidal, freshwater created wetland and research site. Charles Carter will give a brief history of the plantation starting at 1:00 p.m. Christine Crumlish Joyce will assist Charles Carter in tour preparations. We must break up into two groups to tour the house and grounds because no more than 20 may be in the house at one time. One group may begin touring the grounds while the other starts at the house, then they can switch. There are bathrooms near the house.

We will be ready to load into the vans at 2:30 p.m. Mud or field boots are needed, along with sun hats, bug spray and sunscreen. A minor amount of poison ivy may be found at one site so please be careful. For those who sign up for the GIS Workshop Monday morning, we will stop at strategic sites to ground-truth the wetland maps made during the workshop.

The two wetland sites are 1) a sandy wetland formed in sandy dredged materials and silty river sediment in the last 30 years; and 2) a three-year-old sandy, tidal, freshwater created wetland and research site.

Field tour will end at 4:30 back at the plantation house for a bathroom break before going back to the hotel.



Boat Dock and Water Quality Samplly Facility at Rice Center



Cliff Fox, Dave Davis, and John Galbrath at Rice Center



Wetland Restoration Site at Rice Center



Dam Site at Rice Center

Cost: \$50 (includes lunch, admission to Shirley Plantation and transportation)

Number of participants: 30

For information on the Shirley Plantation visit:
<http://www.shirleyplantation.com/>

**Combined Rice Center/Shirley Plantation Field Trip
8:30 a.m.-5:30 p.m.**

Rice Center Field Station, morning

Until October 2006, Lake Charles was a 70-acre impoundment of a tidal creek, located in Virginia Commonwealth University's (VCU) Rice Center for Environmental Life Sciences. At that time, the earthen dam creating the impoundment breached in three locations during a strong unnamed storm, partially restoring the natural link between Kimages Creek and the lower James River. In response to this opportunity, VCU has begun a partnership with the Virginia Department of Environmental Quality, Virginia Department of Conservation and Recreation, National Oceanic and Atmospheric Administration (NOAA), and The Nature Conservancy to restore functional tidal and nontidal wetlands within the former footprint of Lake Charles and to restore runs of migratory fishes that spawned in Kimages Creek before the impoundment was created ca. 1928.

The morning will be an opportunity to learn about the VCU Rice Center Wetlands Restoration Plan and observe the biological and ecological changes already occurring. Participants will have the opportunity to view and explore the restoration area with scientists from VCU. Representatives of the partnering groups will also be present to discuss the development of the plan as well as its present status.

A lunch will be provided and participants will board a boat for transportation up the James River to the Shirley Plantation. See description of Shirley Plantation field Trip above.

Cost: \$70 (Rice Center/Shirley Plantation - includes lunch, transportation, a boat trip on the James River from the Rice Center to Shirley Plantation and admission to Shirley Plantation)

Number of participants: 20

For information on the Rice Center visit:
<http://www.vcu.edu/rice/about/>

History, Wetlands and the Shorelines of Jamestown and Yorktown

8:30 a.m.-4:30 p.m.



Church at Jamestown



Yorktown Shoreline Protection Project Post Hurricane Isabel



Visitors to Jamestown

*Photos by Jeanne Christie,
ASWM*

It began on the swampy marshes of Jamestown in 1607. It ended on the battle scarred landscape of Yorktown in 1781. It was one hundred and seventy-four years of hope, frustration, adventure, discovery, growth, and development that saw a lonely settlement of 104 men and boys grow into a nation of 13 colonies of 3 million people, of many races and many beliefs. Jamestown and Yorktown mark the beginning and end of English Colonial America.

We will spend the morning with a customized guided tour of Jamestown settlement. This will be a special tour led by archeologists who are developing a picture of the ecosystem present at Jamestown when the colonists arrived based on pollen, fish bones and other evidence found at a well onsite. Participants will also have time to tour the church and The Association for the Preservation of Virginia Antiquities museum on their own.

We then depart for Yorktown traveling the Colonial Parkway from the James River to the York River. Trip leader Pam Mason of Virginia Institute of Marine Sciences will describe the complex distribution of saltwater and freshwater wetlands found in the landscape between the York and James rivers.

In Yorktown, lunch is on your own at one of several restaurants. Free time can be spent exploring the town. Pam Mason will lead participants on a walk along the shoreline describing the shoreline protection project along the waterfront. Buildings were destroyed on the waterfront by Hurricane Isabel in 2003 and the current shoreline and structures are designed to withstand future hurricanes.

Cost: \$60 (includes transportation, admission to Jamestown and special tour on Jamestown site) Lunch is on your own at any of the restaurants located in Yorktown.

Number of participants: 30

Please visit the following sites for more information on Jamestown.

<http://www.apva.org/tour/three.html>

Three Institutions of Jamestown

<http://www.nps.gov/colo/>

Colonial National Historic Park

<http://www.historyisfun.org/>

Jamestown Settlement/Yorktown Victory Center