

The Power of Partnerships

The Power of Partnerships

for

Environmental Education

Environmental Education



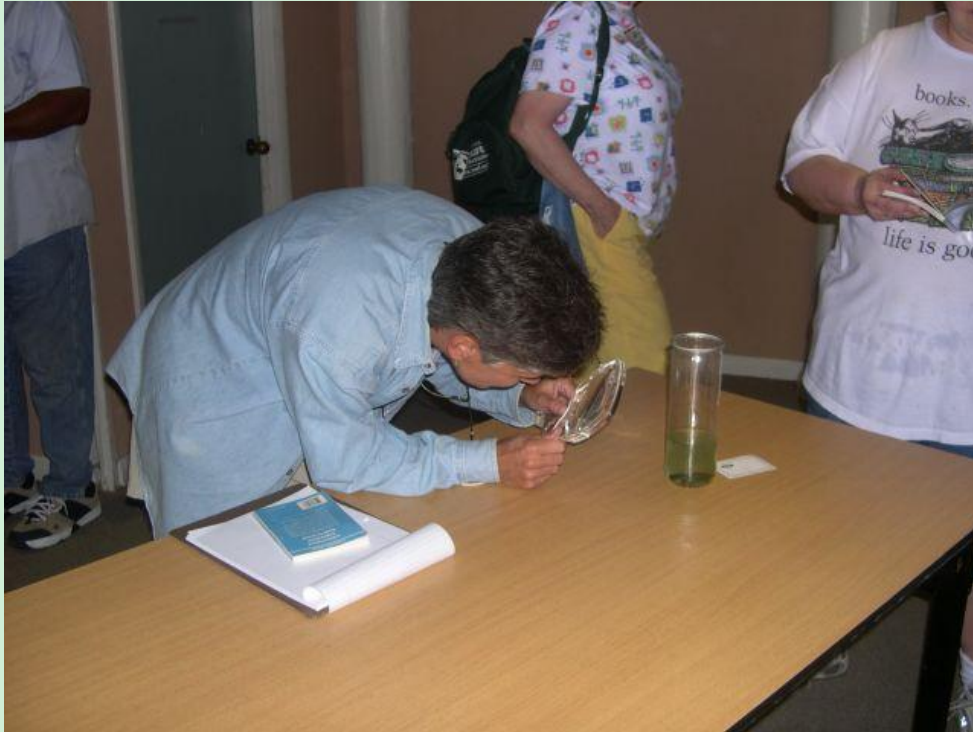


In June 2004,
twenty-five North
Carolina teachers
and media
coordinators
participated in a
week-long
**“Environmental
Education in
the Albemarle-
Pamlico Sounds
Region”**
Institute



The institute was
funded by a grant from
**The Albemarle-Pamlico
National Estuary Program
(APNEP)**
to the nonprofit
**Environmental Education
Fund**
and was coordinated by
**the Office of Environmental
(NCDENR)**





The purpose of
this partnership
endeavor was
specifically to:

**Provide environmental education
opportunities and resources to educators
in the 36 counties of the APNEP region.**



The purpose of this partnership endeavor was specifically to:

- **Support teachers and schools in their efforts to improve student achievement**
- **Provide access to quality science-based environmental education activities and resources to support the North Carolina Standard Course of Study Goals and Objectives**
- **Increase awareness of the existing North Carolina resources and programs that are available to K-12 teachers**
- **Provide techniques and strategies for integrating environmental education into curriculum goals and objectives that teachers are required to teach...**





Allen

And thus



- **Increase awareness of the existing North Carolina resources and programs that are available to K-12 teachers**
- **Provide techniques and strategies for integrating environmental education into curriculum goals and objectives that teachers are required to teach...**



Presenters during the week included outstanding environmental educators from many divisions of the NC Department of Environment and Natural Resources...

Including :

- **North Carolina Department of Environment and Natural Resources**
- **Division of Parks and Recreation**
- **Division of Water Resources**
- **The NC Aquariums**
- **Division of Coastal Management**
- **NC Wildlife Resources – Conservations and Education**
- **Albemarle-Pamlico National Estuary Program**





Also presenting were representatives
from the

Other Partners :

- **North Carolina
State University
Kenan Fellows
Program**



- **North Carolina Sea Grant**

- **US EPA's Office of Air Quality Planning and
Standards**

Additional DENR divisions and partnering agencies contributed curriculum related education materials for the “Environmental Education Kit”



that participants received to take back to their schools for sharing and mentoring other teachers.





Highlights of programs

offered by our

Environmental Education Partners



NC Aquariums

Aquarium News & Events

<http://www.ncaquariums.com/newsite/aqnews.htm>

- **Programs/Areas of Interest**

<http://www.ncaquariums.com/newsite/conservation.htm>

- **Research Programs**

- **Turtle Trails - Follow the daily routes of sea turtles fitted with satellite transmitters**
- **Horseshoe crab spawning program**

- **Conservation Efforts**

- **Salt marsh and Beach Cleanup Efforts**
- **Animal Strandings and Rehabilitation**
- **Sea Turtle Rehab and Hatchling Program**
- **Animal Releases**



NC Wildlife Resources Commission

● Programs/Areas of Interest

http://www.ncwildlife.org/pg08_EducationWorkshops/pg8a.htm

● Project Wild

● Project Catch (Caring for Aquatics Through Conservation Habits)

<http://www.ee.enr.state.nc.us/guide/catch.htm>

● An aquatic resource education program

● Provides workshop training to adults to enable them to work with youth ages 8 to 15 in discovering aquatic environments through:

- learning activities
- educational materials
- aquatic field trips
- fishing experiences

● North Carolina CATCH workshops are taught by division education specialists



Fort Macon State Park

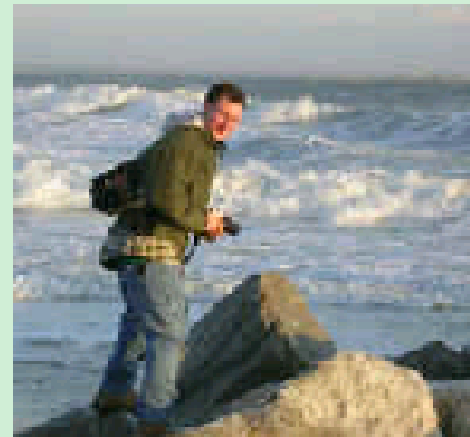


Provides an introduction to the varied and abundant plant and animal life of the North Carolina coast

● Programs/Areas of Interest

Link to Ecological information:

<http://www.ils.unc.edu/parkproject/visit/foma/info.html>



Division of Water Resources

● Programs/Areas of Interest

● Project WET

http://www.ncwater.org/Education_and_Technical_Assistance/Project_WET/

<http://www.ee.enr.state.nc.us/guide/wet.htm>

● An international, interdisciplinary, water science and education program for educators

● The goal of Project WET is to facilitate and promote the awareness, appreciation, knowledge and stewardship of water resources through:

- the development and dissemination of classroom ready teaching aids
- through the establishment of state sponsored Project WET programs



Division of Soil and Water

Programs/Areas of Interest

Conservation Education - Teacher Resource Links

<http://www.enr.state.nc.us/DSWC/pages/educationlinks.html>

Envirothon

- North America's largest high school environmental education competition
- This agency is a co-sponsor of the North Carolina's state Envirothon team that placed 5th in the rigorous Canon Envirothon competition held Jul 26 - Aug 1, 2004 in Buchannon, West Virginia



NC Sea Grant

Through dynamic research, education and outreach programs, North Carolina Sea Grant links university researchers to the people, businesses and governments that manage, use and enjoy coastal and marine resources.

● Programs/Areas of Interest

● Public Education efforts

<http://www.ncseagrants.org/index.cfm?fuseac>



● NC Coastal Plain Paddling Trail Initiative

● Developed by a broad partnership that included:

- North Carolina Sea Grant
- N.C. Parks and Recreation
- Partnership for the Sounds
- paddling industry leaders



- An initiative that encourages ecotourism and awareness of natural and cultural environments – while also promoting the sustainable use and conservation of our coastal plains



Environmental Protection Agency

● Programs/Areas of Interest

● Teachers - Curriculum Resources

<http://www.epa.gov/teachers/curric-index.htm>

● Presents curricula and activities on a variety of environmental topics

- Air
- Waste & Recycling
- Environmental Health
- Ecosystems
- Conservation
- Water

● Environmental Kids Club

<http://www.epa.gov/kids/>

● Project A. I. R. E

<http://www.epa.gov/region01/students/teacher/aire.html>

● Complete set of 'Air quality' resources that include downloadable materials for:

- Warm-Up Exercises
- Reading Materials
- Activities





APNEP

(Albemarle-Pamlico National Estuary Program)

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

● **Programs/Areas of Interest**

<http://www.ecu.edu/icmr/cmn/>

● **Citizens' Monitoring Network**

- **The APNEP Citizens' Monitoring Network (CMN) is a network of private citizens who monitor ambient, surface water quality in the Albemarle-Pamlico Estuary and its tributaries**

● **EstuaryLIVE -- 2004 and Beyond**

- **Factors that affect estuaries**
- **Tides and water mixing**
- **Food webs and nursery areas**
- **Sediment and water quality**
- **Shorelines and landforms**





Participants enjoyed a wide range of curriculum-related experiences including activities from:



NC CATCH, Project WET, and site visits to the **Rachel Carson Research Reserve and Fort Macon State Park**

Hours spent during the institute earned
teachers



**Continuing Education Units (CEU's) required for
renewal of their teaching certificates**

And earned them credits toward becoming a Certified
Environmental Educator

Currently there are

**577 Certified
Environmental
Educators in
North Carolina**



An additional 681 are enrolled in

**The North Carolina Environmental Education
Certification Program**



One teacher commented:

“I don't think I have ever been to an institute or workshop that more fully



prepared a teacher for teaching all areas of environmental education.”



The success of this institute shows what can be accomplished when various government agencies, non-profits, environmental education centers, and universities work together to bring environmental education skills and resources to our teachers.



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