

Albemarle Citizens' Advisory Committee
College of the Albemarle
Boardroom
Elizabeth City, NC
October 26, 1989
7:00 pm

Attendance - See Attachment A.

In Chairman Browns's absence Vice Chairman John Stallings called the meeting to order at 7:00 pm and welcomed those present. He called for approval of the minutes from the previous meeting, (August 23, 1989). A motion by Joe Stutts and seconded by Carolyn Hess to accept the minutes as written was made. Motion carried.

Program Update - Dr. Holman presented his report. See Attachment B. He added that there would be four public meetings held across the state to gather public input and comment on the Status and Trends Report (S&TR). Those locations are as yet unnamed, but it is proposed that they be held in Elizabeth City, New Bern, Raleigh and Greensboro.

Public Participation update - Joan Giordano presented her report. See Attachment C. Mrs. Giordano then asked for comments relative to the proposed draft for the 4th cycle Request for Proposals as distributed to the CACs earlier in the month. See Attachment D. The suggestion was made that we look at the S&TR to see if there is something that we do not need to study. After much discussion the draft RFP for public participation projects was accepted.

At that point Chairman Brown recognized the three new members joining the committee. They are Joe Hollowell from Edenton, a County Commissioner and Albemarle COG chair; J. Paul Lilly from the Tidewater Research Station in Plymouth, a soil scientist with NCSU Extension Service; and Shelby Mansfield from Shiloh, a farmer and psychology professor at the College of the Albemarle.

He went on to explain that there would be five more vacancies in the A-CAC due to non-compliance with the attendance policy by some members. He informed the group that a letter explaining the dismissal of the affected members would be sent to them by the Co-Chairman of the Policy Committee, DEHNR Secretary, William Cobey, Jr. Chairman Brown also distributed a listing of sub-committee memberships as well as the charge to each of the sub-committees. See Attachment E.

Carolyn Hess requested the committee's assistance in determining what they felt was appropriate to cover/discuss when the Albemarle Environmental Association (AEA) made their presentations to the County Commissioners in the Albemarle area. A meeting to discuss this was set-up between Carolyn, Yvonne Abernathy (AEA education coordinator) Joe Hollowell and Joan Giordano for the following week.

Joan Giordano recognized Dr. Tom Hoban from NCSU to briefly overview the two projects (1 Human Environment and 1 Public Participation) for which he has been awarded grant money.

4th Cycle Request for Proposals - Attention was then turned to the draft proposal for the 4th cycle technical RFP. See Attachment D. Discussion ensued with the recommendation that groundwater be included as a topical area for consideration. The suggestion was duly noted.

Public Comment/Questions/Answers - Tom Burns, A-CAC member and chair of the area 5 N.C. Association of Soil & Water Conservation Districts, apprised the committee of Soil & Water's 34th Annual Area 5 Fall Meeting being held on November 9th, at the Kermit White Meeting Center, ECSU, beginning with dinner at 6:00 pm. He added that the guest speaker would be DEHNR Secretary, William Cobey, Jr. The cost of the event is \$7.50 and reservations can be made by contacting Ginger O'Neal at 426-5545.

There being no further business, the meeting was adjourned at 10:15 pm. The next meeting will be held in February at a time and place to be arranged

A-CAC Attendance

10-26-39

Attachment A

<u>NAME</u>	<u>Affiliation</u>
✓ Ken Gardner	APP, Study, staff
✓ Don Flower	ACAC
✓ Yates Barber	ACAC
→ Paul Dilly	NCSU
✓ Tom Hoban	NCSU
✓ Tom Burns	ACAC
✓ Roy Hattop	ACAC
✓ L. Miller	"
→ Shelby Mansfield	"
✓ Joe Smith	ACAC
→ Joe Kralovich	ACAC
✓ Brewster Brown	ACAC

Albemarle Citizens' Advisory Committee
College of the Albemarle
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Elizabeth City, NC
October 26, 1989
7:00 pm

AGENDA

Call to Order	Brewster Brown
Consideration of Minutes	
Program Update	Dr. Holman
Public Participation Update	Joan Giordano
4th Cycle Request for Proposals Draft	Joan Giordano
Questions/Answers/Comments	
Adjourn	

DIRECTOR'S REPORT

CITIZEN ADVISORY COMMITTEES

October 25-26, 1989

1) EARLY DEMONSTRATION PROJECTS

- a) Greenville Urban BMP project now has a contract and they are beginning their work.
- b) OMEP did not provide second round funding for the remaining four projects.

2) INFORMATION MANAGEMENT

- A) GIS Coordinator is currently developing the software for the interactive system between the LRIS system and the user community. Demonstration of preliminary system was given at the Annual Researchers' Review Workshop.
- b) Land Resources Information Service (LRIS) has developed an atlas of all the information layers that are currently available from the geographic information system (GIS) for the A/P Study area.

3) TECHNICAL SUBCOMMITTEES

Technical Review and Citizens Affairs Subcommittees have been busy developing the draft Call For Proposals for 1990-91.

4) MEETINGS

- a) Sept. 11 - Meeting with Army Corp Engineers (Wilmington)
- b) Sept. 13 - State and Federal Interaction Meeting (Washington)
- c) Sept. 14 - Annual Researchers' Review Workshop (Washington)
- d) Oct. 05 - Presentation to Raleigh Rotary Club (Crabtree)
- e) Oct. 19 - VA/NC Interaction Meeting (Elizabeth City)

5) STATUS AND TREND REPORT (STR)

- a) A second draft of the technical STR will be sent out to all committee members to comment on the week of November 6, 1989.
- b) A draft of the public STR (executive summary) should be available for the Annual Public Meeting on November 4, 1989.

6) FY 1989-90 PROJECTS

- a) All cooperative agreements and contracts have been sent out for this year's projects except the contract with RTI for the Federal Consistency Report.
- b) Legislative Research Committee - Surface Water Quality and Resource Issues - Members not appointed yet, but will consist of five members from the Senate, five members from the House of Representatives and two lay members appointed by each side. Membership of the committee will total fourteen members.

PUBLIC INVOLVEMENT COORDINATOR'S REPORT
OCTOBER 1989

1. Citizens' Advisory Committees are meeting regularly (on a quarterly basis), meeting notices and agendas are sent to all public officials and interested citizens residing in the meeting areas.
 2. A/P Study exhibit was displayed and staffed by Public Involvement Coordinator at Marine Expo '89 in Wilmington during the first weekend in October. (estimated: 5000 persons attended)
 3. A/P Study Exhibit was displayed at Roanoke-Chowan Technical College during mid-September.
 4. Public Involvement Coordinator met regularly with State Fair Coordinators to assist with the Departments entry. Also contributed to the staffing, building , and dismantling of EHNR's entry. A/P Study State Fair Exhibit is available for travel since the fair has ended (10-22-89). Public Involvement Coordinator has a 20 minute video entitled "Nursery Areas in The Estuary" which complements the exhibit nicely.
 5. Public Involvement Coordinator has met with Melva Okun, principal investigator for "State of the Estuaries Booklet" to determine photos and graphics as well as photo captions for the publication. Completion date of the booklet has been revised to the end of November.
 6. Public Involvement Coordinator and Executive Director made presentations at the Board of Directors meetings at all three COGs (Albemarle Commission, Mid-East Commission, and Nuese River Council of Governments) during late August and early September.
 7. Public Involvement Coordinator continues to meet with the Community Outreach representatives from PTRF and AEA to develop educational and governmental strategies.
 8. Public Involvement Coordinator organized and staffed meetings for development of 4th cycle Public Participation RFP with Citizens' Affairs Subcommittee.
 9. Public Involvement Coordinator assisted in staffing and organizing Roundtable/Policy Committee meetings (Aug 31 & 31) and the State, Federal and Researchers Review Meetings (Sept 13 & 14) and Second Annual Meeting (Nov 4) planning committee.
 10. Public Involvement Coordinator is working closely with all 3rd year Public Participation Project principal investigators to ensure timely, quality controlled delivery of products.
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11. Public Involvement Office is developing a distribution network for delivery of several educational products to 459 schools in the A/P Study area.
12. Public Involvement Office continues to accept and process inquiries into the A/P Study resulting from Newsletter distribution, T.V. PSAs, and general awareness of the program.

ALBEMARLE-PAMLICO ESTUARINE STUDY

INFORMATION ACQUISITION CALL FOR PROPOSALS - FY 1990

1) Identify submerged aquatic vegetation beds

Utilize aerial photography to characterize submerged aquatic vegetation (SAV) in the Currituck Sound and Albemarle Sound areas. SAV patch shape and size will be estimated by tracing all SAV habitat on the aerial photography. Species composition of each habitat area will be estimated based on ground comparisons. Ground comparisons will consist of collecting representative biomass samples at each site visited and verifying species composition and reproductive mode. Final products of the SAV survey will be information in table form as well as each SAV habitat area overlaid onto U.S. Geological Survey 7.5 topographic base maps. Existing photography can also be evaluated and mapped as a separate component of this project to provide further information on SAV habitats that do not already exist within the A/P Study area.

2) Compile existing data on toxicants in the water, sediment and animal tissue

Inventory all existing data for effluents, water, sediment and animal tissue from the entire A/P Study area. Toxicants will be defined as metals, toxic elements and organic chemicals. Toxicant budgets will be prepared when possible (e.g. copper, zinc and lead). A literature search using such data bases as DIALOG and SARA Title 3 will be undertaken. In addition, the data will be mapped and examined to determine "hot spots", investigate trends, identify data gaps and recommend strategies for toxicant reduction. Another aspect of this topic would be to evaluate the alteration of "biomarker species" physiology as an indication of toxic problems.

3) Develop nutrient loadings and budgets for all major tributaries including land use based nonpoint source loadings

Develop nutrient budgets (nitrogen and phosphorus) utilizing both land use loadings rates and flow-based budgets to provide a separate budget for both point sources and nonpoint sources. These nutrient budgets will be determined for major tributaries of the Neuse, Pamlico, Chowan and Roanoke Rivers. A literature survey will be conducted to develop loading rates by land use utilizing data bases such as DIALOG and for flow-based information utilizing data bases such as STORET. A nutrient budget also needs to be developed for atmospheric input into the Albemarle-Pamlico Estuarine System. All budgets developed will be put onto a computerized system as to be updated easily and all budgets are to be documented in the same manner for direct comparison.

4) Flow and flow patterns for the Albemarle Sound Estuary

Collect and interpret hydrologic data from the mouth of the Chowan and Roanoke Rivers to the two bridges (Rt. 64/264) connecting Roanoke Island to the Outer Banks and mainland. The study will consist of long-term continuous data collections, short-term intensive field studies, data analysis and interpretation to provide information on flow and flow patterns. A two or three dimensional hydrodynamic and transport model will be utilized in the analysis and interpretation of this phase of the study. Information gained from this study will be used to determine nutrient budgets, water flow characteristics, sediment movement, cumulative impacts, algal bloom conditions, effect on striped bass development and a preliminary waste-load allocation model. Sensitivity analysis of certain A/P Study areas should also be conducted with ~~three~~^{two} dimensional data base.

5) Fisheries Issues

- a) Evaluate existing fishing practices employed throughout the A/P Study area which causes any directed mortality. Determine the direct and indirect impacts by fishing practice on standing biomass within the fished area and sustained yield capacity of each fished species. Identify the habitat necessary to support each fished species by fishing practice and determine if the fishing practice employed reduces the fished populations ability to maintain sustained yield and/or reduces the necessary supporting habitat and its food supply of each fished species throughout its life cycle. Identify all compatibilities and conflicts which exist both in habitat, food supply and fished species sustained yield terms between various fishing practices by location and time. Minimally the following species must be addressed: blue crab, striped bass, flounder, oysters, clams, spotted sea trout, shrimp, and large mouth bass.
- b) Determine the real value in 1989 dollars of all returns to the A/P Study area for various fishing practices. All required determinations must include both direct and indirect analysis for each component. Determine the values various fishing practices over the last 10 years have as a tourism attraction in total dollar value and exchange, and contrast to the red tide event. Map the areas and time duration of shellfishing waters lost by all events in the last 10 years and detail all economic losses incurred. Determine the number of individuals, families or groups, which are dependent on each fishery by gear type, practice and time, and identify each ones catch per unit effort in ones total economic returns within the A/P Study area. Determine all conflicts both economically and socially between the less than full

time fisherman (include all who sell their catch) and recommend regulatory, legislative measures to reduce each conflict consistent with the sustained yield available by species fished and fishing practices over the last 10 years. Minimally the following species and gear must be included:

<u>Species</u>	<u>Gear</u>
Clams	Pot
Shrimp	Trawl
Blue Crab	Gill Net
Flounder	Hook & Line

6) Social and Economic Factors

- a) Project to analyze the public attitudes about the Albemarle-Pamlico Estuarine System. Evaluate peoples' attitudes about management alternatives designed to protect these resources. Provide scientifically valid description and comparison of the attitudes of different segments of the public and opinion leaders about the importance of the Albemarle-Pamlico resources and appropriateness of particular management alternatives. Also to determine attitudes about the effectiveness and equity of specific programs and policies aimed at improving water quality in the study area that would be tied to the management alternatives. This public attitude survey should encompass the entire state not just the A/P Study area.
- b) A project to evaluate both successful/failure of management strategies nationwide and identify elements that can be applied to the Albemarle-Pamlico Estuarine System successfully. Efforts should not focus solely on the national estuarine programs or the estuarine setting but rather on successful management elements that can be utilized in the estuarine environment. The resulting report will document the specific management strategies and recommend how these elements can be incorporated into the A/P Study's Comprehensive Conservation Management Plan.

7) Currituck Sound Watershed Management Plan

A research project is needed on the hydrology of Currituck Sound which will bring together all known information about inflows and outflows at the Sound and develop additional flow measurements to fill in the extensive data gaps that exist. After this basic information is assembled, a hydrologic model for the Sound should be developed that will allow the simulation of various weather patterns and also the effect of the

many man-made changes in the hydrology of the Sound that are occurring and are expected to occur in the future. All of these efforts should be consistent with the fisheries management plan adapted by the Wildlife Resources Commission.

8) Greenville Urban BMP Follow-up Projects

- a) Provide a means of determining actual flow input and output rates through the detention pond constructed by the City of Greenville. Flow rates will be coupled with another study to further determine the toxicants found in the runoff and the effectiveness of the detention pond in removing these pollutants.
- b) Develop a study to further define the toxicants and other pollutants found in the runoff reaching the detention facility. Also determine the effectiveness of the detention pond in removal of specific pollutants and more closely evaluate the land use of the watershed and sources of pollution.

9) Early Demonstration Projects

- a) Construction and evaluation of alternative on-site domestic wastewater disposal systems. Project should focus on disposal systems that utilize ground absorption/plant uptake as an alternative method to failing on-site systems and soil limited site situations. This effort must be conducted within the A/P Study area and the final report will include a plan to implement this system over the entire study area.
- b) Investigate forestry BMPs in the coastal plain of North Carolina. Especially focus on practices that appear to be effective during harvest operations. Design and construct a series of BMPs that have the potential of significantly reducing the impact to the surrounding habitats during the harvest.

(A\cfpitems.doc)
11/08/89

Proposed Committee Structure
Albermarle Citizens' Advisory Committee
1989-90

Executive Committee

Brewster W. Brown, Chairman
John Stallings, V.Chairman
Al Howard
Joe Stutts
Carolyn Hess
Bill Piland
Parker Chesson

Technical Review & Enviromental Issues

Terry Pratt
John stallings, Chairman
Joe Wright
Yates Barber
W. C. Witherspoon
Murray Nixon
Paul Lilly
Phil McMullan
Tom Burns
Polk Williams
Mike C ocoran

Public Awareness & Governmental Relations

Al Howard
Carolyn Hess
Joe Stutts, Chairman
Earl Rountree
Joe Hollowell
David Watson
Don Flowers
Mikey Daniels

Program Review

Jimmy Jenkins
Bill Richardson
A. B. Whitley
Gerald Perry
Shelby Mansfield
Webb Fuller, Chairman
Iredell Hassell

ALBEMARLE-PAMLICO ESTUARINE STUDY SUBCOMMITTEE DESCRIPTIONS

1. ENVIRONMENTAL ISSUES & TECHNICAL REVIEW - This committee will review proposals for research and advise the CAC on research funding priorities and pending action on environmental issues. The committee will work in concert with the Technical Committee of the APES which has a similar charge.

2. PROGRAM REVIEW - This committee will monitor and review overall program activities and examine the structure and operation of the APES program in the context of total objectives. It will suggest ways in which the program can be more responsive to public concerns and interest.

3. PUBLIC AWARENESS & GOV'T. RELATIONS - The primary role of this committee is to increase public awareness and involvement in program activities. In addition it would provide liaison to local governments.

4. EXECUTIVE COMMITTEE - The purpose of this committee is to assist the Chairman and Vice Chairman. Membership on the Executive Committee will consist of the Chairman, the Chairs of the other three standing subcommittees, the liaison to the other CAC, and three other CAC members. The eight members of the Executive Committee are to meet periodically to set agendas and conduct business when the complete CAC is unable to gather.




State of North Carolina
Department of Natural Resources and Community Development
Albemarle-Pamlico Estuarine Study
Public Involvement Office
1424 Carolina Avenue, Washington, North Carolina 27889

James G. Martin, Governor
William W. Cobey, Jr., Secretary

Robert E. Holman, Director
Joan Giordano, Public Involvement Coordinator

November 13, 1989

TO: Policy Committee Members
Technical Committee Members
Albemarle Citizens' Advisory Committee Members

FROM: Joan Giordano 

RE: Attachment to A-CAC Minutes of October 26, 1989

Enclosed is Attachment D which was inadvertently left out of the minutes recently sent to you. Please insert it in the minutes of the A-CAC meeting held on October 26, 1989 as sent.

I regret any inconvenience this omission may have caused.

P.O. Box 1507, Washington, North Carolina 27889-1507 Telephone 919-946-6481

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DRAFT

CALL FOR PROPOSALS FOR 1990-91 APES PUBLIC PARTICIPATION PROJECTS

The activities funded under the category of Public Participation are intended to accomplish two purposes: 1) to create effective avenues for disseminating information about the need for planning, conservation and management of the Albemarle-Pamlico Sounds and watershed; and 2) to obtain advice and input from the public concerning APES activities. The projects funded in 1990-91 will build on the projects funded in the earlier years of the program. For 1990-91, proposals will be entertained on the following specific topics, in addition to any proposals that facilitate public participation in the APES program.

1) The development of citation, or award program that recognize the involvement of constituent groups such as agriculture, forestry, fisheries, industry, municipalities and private citizens in effective conservation and environmental protection in the APES study area. Such programs should emphasize broad participation rather than single "winners", and should include specific provisions for citations or awards to be recognized in public forums.

2) Public Service Announcements (PSAs) targeted to specific audiences. Such PSAs could be in any media, and should direct their message concerning the need for and solutions to environmental planning and conservation to specific audiences such as farmers, fishermen, homeowners, and other groups. The PSAs should emphasize what each particular group can do to help.

3) Public Education Displays. There is a need for broader display of educational and interpretive material concerning the APES estuaries and watershed in either permanent or travelling formats. Locations such as waterfronts, public libraries, municipal buildings, parks and major tourist destinations should be considered in display siting.

4) Fact Sheets. A series of concise, readable, attractive and informative fact sheets should be developed to provide the general public with accurate information concerning the sounds and watershed. These fact sheets should be produced in a format and quality suitable for durability in outdoor displays and outdoor activities.

5) The development of public outreach programs, specifically including increased interaction between the APES program and local governments in the APES study area.

6) Model Estuarine Education Curricula for Public Schools. Proposals must demonstrate the involvement of, and support from appropriate components of the public school system as a prerequisite for funding.

7) Interactive Media Projects. Proposals should provide direct opportunities for the public to interact through electronics or print media with technical experts, public officials and resource managers.

8) Family-oriented Estuarine Educational Camps. Proposals on this area should emphasize opportunities to provide education about the estuaries in the APES area in a family setting. Programs that focus on direct, "hands on" activities of more than a single day duration in outdoor environments are preferred.

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Draft

ALBEMARLE-PAMLICO ESTUARINE STUDY

Technical Review Subcommittee

Call for Proposal Recommendations - FY 1990

- 1) Identify submerged aquatic vegetation beds
- 2) Compile existing data on toxicants in the water, sediment and animal tissue
- 3) Develop nutrient loadings and budgets for all major tributaries including land use based nonpoint source loadings.
- 4) Flow and flow patterns for the Albemarle Sound Estuary
- 5) Fisheries issues
 - fish and crab disease
 - anoxic conditions
 - competition for the resource
- 6) Social and economic factors
 - alternative strategies including costs
 - public input statewide not just A/P Study area
- 7) Currituck Sound Watershed Management Plan

*Legislative and local government interaction with study

Ideas for Posters. We intend to do 2 or 3; 1 in color.

Posters will be both inspirational and educational; however, each poster should be designed for a specific function.

Please review the following ideas; advise us of any that are unacceptable, any preferences on the part of the CAC, or suggest any alternative ideas you may have.

Inspirational designs feature minimal text with stimulating photographs or illustrations. We may use several photos or just one depending upon the message.

1. WOULD YOU....

PAVE PARADISE AND PUT UP A PARKING LOT??

2. No Wetlands; No Seafood.

3. THE SOUNDS OF OUR LIVES...

CAN WE KEEP THE LIFE IN OUR SOUNDS?

4. CRY ME A RIVER.....

BETTER YET, SAVE YOUR TEARS. GET INVOLVED AND LEARN WHAT YOU CAN DO TO INSURE A HEALTHY TOMORROW FOR EASTERN NORTH CAROLINA'S RIVERS AND ESTUARIES.

5. Progress is...

A Healthy Estuary.

6. Support Estuarine Resources...

They Support You.

7. The Albemarle/Pamlico Estuaries...

What's It Worth To You???

8. The Albemarle/Pamlico Estuaries...

Will our home be as beautiful tomorrow?



Educational posters will carry more substantial text; perhaps we would use several small photos to illustrate various dimensions of the concept. Each photo would have an a short paragraph of text.

9. The Functions of wetlands.
10. Critical Habitats of the A/P.
11. Pollution in the Albemarle/Pamlico. (Various types of sources).
12. Resources At Risk. (wetlands, clean water, fisheries, wildlife/waterfowl).
13. The A/P is Our Home... several photos of wildlife, fish, waterfowl, etc.

We are also going to design and print a bumper sticker for APES. Please review and respond to these ideas as well.

Bumper Stickers.

1. The Albemarle/Pamlico Estuary...
 - a Resources At Risk.
 - b Resources Worth Saving.
 - c Deserves Protection. (Respect)
 - d Needs Your Help. (Respect)
 - e Today AND Tomorrow.
 - f It Depends On You.
2. Healthy Estuaries Today and Tomorrow.
3. A Healthy Estuary... Your Children's Inheritance.
4. *Keep The Life in our Sounds.*

We would appreciate any additional ideas.

