

**Coastal Development and Watershed Planning:  
Collaborative Problem Solving to Protect Water Resources**

Thursday, November 20, 2003

Center for Marine and Wetland Studies, Atlantic Center  
Coastal Carolina University, Conway, SC

**Breakout Session III – Learning By Implementation**

Key Discussion Points:

Step 1 Identification of existing and potential stormwater Best Management Practices that are appropriate for the region.

1. Key Questions:
  - a. How many currently exist?
  - b. Where are they located?
  - c. Frequency of use
  - d. Identify the water quality parameters that each BMP addresses; define what the state of the art is for each type of BMP.

Step 2 Recommended Hypotheses to Test

1. Implementation of stormwater treatment BMPs will result in direct economic benefits
2. The Ecological benefits of BMPs are disproportionately larger than the economic costs
3. Small scale (site-level) stormwater management innovation will result in large scale (sub-watershed level) water quality improvements in named watersheds
4. Assigning economic values to resources will aid economic analyses and public willingness to support innovative implementation projects

Step 3 Experimental Designs (potential venues for small-scale implementation)

1. Identify a collection of creeks which have
  - a. Varying degrees of innovative BMPs vs. minimal or no BMPs
  - b. a variety of land-use characteristics
2. Pick one large PUD and try a variety of BMPs at that development
3. Communal sites that serve several properties or PUDs
4. Public structures such as roadways and schools
5. Educational strategies targeted at specific groups (continuous)

Step 4 Packaging and Selling (Funding Strategies and/or Incentives)

1. Special Area Management Plan – SC OCRM
2. USDA – National Resource Conservation
3. US EPA 319 Funds
4. Stormwater Utility Fees
5. SC Sea Grant
6. Developers
7. US EPA Star Program - local/state/national collaboration
8. US EPA Valuation Program
9. Coastal Non-Point Funding 6217 Program
10. USGS Matching funds

11. Foundations
12. CCU