Collaboration Grantsmanship Workshop

Dr. Teferi Tsegaye
Associate Professor/Assistant Director of HSCaRS
Alabama A&M University

Dr. David Radcliffe
Professor
University of Georgia

San Antonio, TX
February 9, 2006

Water Quality Collaborative Conference Atlanta, GA 2004

Objectives

- Facilitate sharing of water quality resources and expertise
- Establish multi-institutional water quality work teams
- Improve collaboration and linkages
- Increase awareness of water quality work at collaborating institutions
- Strengthen linkages between CSREES and minority institutions

Workshop Goals

- Increase number and competitiveness of proposals submitted minority institutions
- Focus on collaborations among these institutions with 1862 Land Grant institutions

Workshop Agenda

- Tips for Successful Collaboration
  - *Mike O'Neill and Lisa Duriancik (CSREES)*
- Perspectives of Panel Managers
  - *Jim Anderson (Univ. of Minnesota), Deanna Osmond (NC State Univ.), Ron Turco (Purdue Univ.), Mark McFarland (Texas A&M Univ.)*
- Successful Collaboration: Extension Education Project Development
  - *Deborah Anderson (Lac Courte Oreilles Ojibwa Community College)*
- Successful Collaboration: Team Building within a Regional Project
  - *Asmare Atalay (Virginia State Univ.)*
  - *Carl Evensen (Univ. of Hawaii) and Allan Sabaldica (College of the Northern Marianas Islands)*
- Break
- Using National Facilitation Projects to Spur Collaboration
  - *Sam Dennis (Tennessee State Univ.)*
  - *Virgil Dupuis (Salish Kootenai College)*
- Interactive Session on Ideas for Collaboration Projects
  - *David Radcliffe (Univ. of Georgia)*

Outline

- NRI Program FY2006 Priorities
- NIWQP Program FY2006 Priorities
- Road Map for Water Quality
- Conference Symposia

NRI Program FY2006 Priorities

- 25.0 Soil Processes
  - Efficient use of water and nutrients
- 26.0 Water and Watersheds
  - Source, fate & transport of bacteria
  - Agricultural water conservation
- 28.0 Air quality
  - Characterizing particulates, odors & gases from AFOs
  - Fate & transport of the above

NIWQP Program FY2006 Priorities

- 110.D Integrated Research, Education, & Extension Projects
  - ??
- 110. E Conservation Effects Assessment Program (CEAP)
  - ??

CSREES Water Road Map

- Framework to help set priorities for research, extension, & education
- Mission to protect and improve water resources in agricultural, rural, & urbanizing watersheds

Road Map: Water Quality

- Fate & transport nutrients, pesticides, pathogens, & pharmaceuticals
- TMDLs
- BMP adoption & effectiveness
- Linkage between action and receiving water quality
- Salt tolerance to wastewater reuse
- Arsenic & drinking water
- Measurement and scaling

Road Map: Water Quantity

- Policy makers
  - Water supply forecasting
  - Ecological models of impacts
  - Economic models
    - Economics of water uses
    - Valuation of ecological services provided by ecosystems
- Users
  - Water reuse technology
  - “Smart” irrigation systems (sensors)
  - Storm water systems

Road Map: Human Dimensions

- Identifying human motivations for desired behavior change
- Appropriate communication/education methods for target audiences
- Innovative communications methods
- Partnerships with other academic disciplines & behavior change agents

Road Map: Technology

- Web-based learning
- Improved support for non-point source modeling
- Precision agriculture on small farms
- Improved monitoring and forecasting capabilities
- Crop biotechnology for efficient water use

Conference Symposia

- Water-borne pathogens
- What price water?
- Human dimensions in water management
- Nitrogen export from rural watersheds
- Emerging issues concerning drinking water

Conference Symposia

- Water-borne pathogens
  - Bacteria source tracking
  - Watershed monitoring of bacteria
  - Regrowth of indicator bacteria in sediment

Conference Symposia

- What price water: Status of availability for agriculture in changing economic times
  - Irrigation efficiency and water conservation
  - Water trading, allocation, markets
  - Watershed indicators of water demand
  - Economic valuing of water for agricultural, environmental, & human use

Conference Symposia

- Human dimensions in water management: A preliminary working session
  - Human behavior that leads to water scarcity
  - Individual, community, & institutional decisions

Conference Symposia

- Advances and challenges in reducing nitrogen export from rural watersheds
  - Soil & plant testing to match crop needs
  - Technologies for improving timing and precision of application
  - Bioreactors and artificial wetlands
  - Riparian zones and in-stream processes

Conference Symposia

- Emerging issues concerning drinking water
  - Benefits and hazards of water marketing and privatization
  - Land-based management vs. advance drinking water treatment
  - Scientific studies vs. environmental advocacy on water treatment issues
  - Contamination from pharmaceuticals
  - Problems and solutions for private well owners

Thank you !