

Appendix. Research Faculty Guide to Extension/Outreach Priorities

The following items are excerpted from the Florida Sea Grant Strategic Plan, and represent priorities for extension, outreach and service that complement the research issues listed in section B. Proposed investigators are advised to consider how this information relates to the potential participants and applications sections of their Statements. i.e., Are project scientific results amenable to the following efforts? **Florida Sea Grant is not seeking proposals for extension/outreach. But the following information may guide research planning to link scientific findings with information transfer practices.**

AQUACULTURE: Increase Technical and Economic Knowledge -- 1. Educate the Florida marine aquaculture industry in investment, production, diversification, and expansion decisions, and Florida's citizenry about the role of aquaculture in sustainable, environmentally responsible food production, ornamental ownership, and stock enhancement. 2. Train aquaculturists in financial and technical aspects of production, and train individuals moving out of fishing into aquaculture. 3. Provide in-service training to faculty and others to increase knowledge and skills that can be transferred to others.

BIOTECHNOLOGY: Facilitate Informed Consumer, Business and Technical Decisions -- 1. Identify and act upon economic, social, ethical and regulatory issues, constraints and opportunities to further the development of marine biotechnology for viable commercial and environmental management applications. 2. Train students in technical subjects in areas of reasonably demonstrated employment opportunity, and promote scientific/education career opportunities in order to retain Florida-trained students in the state. 3. Extend research results to industry, media, specific audiences and the public to explain opportunities and issues related to the responsible, sustainable application of marine biotechnology.

ECOSYSTEM HEALTH: Build Stakeholder Awareness, Knowledge and Involvement -- 1. Raise awareness and knowledge of key issues related to coastal ecosystems, including non-point source pollution, watersheds, invasive species, restoration, and ecosystem function. 2. Promote citizen and affected business involvement in the protection, restoration and enhancement of coastal ecosystems, including volunteer monitoring, clean-ups, and use of best practices.

SEAFOOD SAFETY: Improve Skill Levels of Professionals in Agencies and Industry -- 1. Hold annual training schools on shrimp and spiny lobster and develop smoked seafood and seafood packaging schools. 2. Provide leadership for and maintain the HACCP training program for seafood processors and importers. 3. Give priority in all technical training programs for train-the-trainer courses that could then be used internally by individual companies. Technical assistance will focus on company-based development of value-added and convenience-added products. 4. Create a national sensory training program to monitor seafood quality and allow problem aversion linked with FDA, USDA, NMFS and the National Fishery Institute. 5. Develop advisory advice in advance of public concern on emerging seafood safety issues related to the use of antibiotics in aquaculture products, environmental contaminants and seafood safety.

SHORELINE SECURITY: Develop Technical Information and Analyses -- 1. Create technical fact sheets related to hurricane protection, particularly from a natural coastal resources perspective. 2. Participate in constructive dialogue among various stakeholders to evaluate the usefulness of beach renourishment projects on shoreline protection.

SUSTAINABLE FISHERIES: Teach New and Innovative Ways to Manage Fisheries and Evaluate the Effectiveness of Management -- 1. Increase the interaction among fisheries managers and scientists in Florida and countries sharing common fisheries problems. 2. Continue a comprehensive marine resource economics program on the value and optimum utilization of fisheries resources, including educational programs for the stressed shrimp industry. 3. Participate in national and regional fisheries extension programs, including focused effort on the charter boat fleet. 4. Design with other Sea Grant programs in the Southeast U.S. an educational program on ethical angling. 5. Conduct analysis and educational programs that relate to deployment and economic development/tourism aspects of using large ships as artificial reefs, local deployment of small habitats (under docks) and the overall fish enhancement and habitat aspects of artificial reefs. 6. Analyze and conduct educational programs based on the perceptions from regulatory managers and recreational fishers from ethnic and diverse backgrounds.

WATERFRONT COMMUNITIES: Facilitate Informed Public, Business, and Policy Decisions -- 1. Develop and provide training in geographic information technologies for coastal resource managers and policy-makers that incorporate case studies relevant to Florida coastal management issues. 2. Develop and disseminate materials for owners/operators of water-dependent businesses and for their clientele that increase environmental stewardship, provide information on safe on-water behavior, increase economic competitiveness, and enhance the recreational experience. 3. Facilitate disaster preparedness and response for marine interests, particularly the boating-related sector. 4. Participate as a principal partner in the Clean Boating Partnership and its "Clean Marina" and "Clean Boatyards" programs.
