

## Major Topics: 2012 Annual Review

The following topics emerged from Sea Grant program presentations and follow-up discussions as important areas in which multiple Sea Grant programs are engaged, and realizing significant accomplishments and/or impacts. These areas also stand out as ripe for developing national stories and/or other communications products. Note that this is not a comprehensive list of “hot Sea Grant topics.” However, I will add to it as I go through program impacts. (AP)

### 1. **Renewable Energy**

Meredith Haas, RI SG, developing update on all program activities

#### a. **Biofuels**

DE SG seashore mallow - used as biofuel and animal feed. Survives on salt water.

Viable crop for farmers losing land to sea level rise.

Check SBIR

#### b. **Sea Breeze**

DE SG sea breeze study re. how this is affected by development. Ties in with coastal tourism and wind energy work.

#### c. **Wind Energy**

MI SG site-integrated assessments

RI SG SAMP ties-in

#### d. **Hydrokinetics**

MIT Sea Grant

#### e. **Recycling (Clean Marina)**

PA SG and other Clean Marina shrink wrap recycling efforts

TX SG monofilament line recycling stations

### 2. **Green Development**

GA SG research followed by outreach to educate builders, architects, developers re. sustainable construction and soft engineering practices through workshops; 10,190 students took this for continuing education credits.

IL-IN SG “Planning with Power”

Many SG programs involved with NEMO. Nice tie-in

NH SG top coat solvent

LA SG floating matrix to stabilize marshes

### 3. **Innovative Food/Seafood Technologies & Dietary Guidelines**

#### a. **Asian Carp for Haiti** (*not from review, added this news story received this wk.*)

LA SG’s Lucina Lampila is canning asian carp (thermal process published by USDA) to feed Haitian children orphaned as a result of the 2010 earthquake.

#### b. **Algae as Health Food** (also cleans re-circulating aqua. Systems contributing to clean, sustainable industry)

RI SG red algae

CT SG (also SBIR) Ocean Approved project and Whole Food partnership with PI, Charles Yarish

ME SG (hired Sarah Redmond a student of Charles Yarish. Algae studies.)

- c. **Dietary Guidelines**  
CT SG & DE SG (other programs as well) guidelines for aquacultured species such as catfish, salmon, etc.
  - d. **Oysters**  
LA SG off the bottom  
MS-AL  
NJ SG genetics work (utilized by many oyster aquaculturists)
- 4. **Workforce Development/Job Creation & Recruitment/Ocean Literacy/Student Mentoring**
  - a. **Aquaculture in the Classroom**  
ME SG Cod Academy with NMFS funding  
MD SG training for inner city kids  
Other?
  - b. **Hiring Graduate Students as Sea Grant extension and outreach specialists** CA  
SG using this to save money (when senior staff retire; two students can sometimes be hired to replace one senior staff member)  
PR SG using students for design shop. Developing t-shirts, posters, publications, etc.
  - c. **Volunteerism**  
DE SG graduate students do volunteer work as part of their research projects.
- 5. **Partnerships to Extend Dollars, Coordinate/Focus Efforts, and Avoid Duplicity**  
MD SG work with Baltimore Port Authority to convene MD NGO's on Chesapeake Bay effort.
- 6. **Coastal Tourism**  
HI, PR, OH, MS-AL...(White paper in draft form.)
- 7. **Dam Removal**  
MD, OR, CA, IL-IN...Salmon recovery, partnerships with Interior and many other implications
- 8. **Climate Adaptation Efforts**  
Many stories to tell based on CCCAI and other climate funding (Joshua working on this with NSGO Comms. to profile programs on new website)  
PA SG Presque Isle and stream restoration efforts (with CCCAI)  
USC SG sea level rise adaptation plan with LA Mayor
- 9. **Inundation Mapping/Evacuation Protocols**  
PR SG and many other programs (some of this is part of CCCAI and climate adaptation)
- 10. **Medicine Collection/Water Quality**  
Great Lakes Programs inc. PA SG  
AVMA partnership
- 11. **Rapid Detection of Fecal Contamination/Some Citizen Science**  
PR, DE, WI (older study)...Some programs use volunteers.  
Note that over the years, just like HABs monitoring tools, there have been many rapid fecal contamination tools developed by SG. Both seem like areas that would benefit from cross program collaboration.

**12. Coastal Erosion Monitoring/Citizen Science**

WHOI, ME...studies to monitor coastal erosion over time

**13. Trade Adjustment Assistance (TAA)**

Gulf programs (LA, TX, MS-AL); NC, SC; New England (MA, ME, CT, NH)

Partnership with USDA. Sea Grant offering business training and professional development for shrimp and lobster fishermen increasing eligibility for subsidy to offset financial losses due to imports.