National Center for Secure and Resilient Maritime Commerce and Coastal Environments (CSR)

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Minority Recruitment
Education and Outreach

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**Organization and Management Structure: Outreach and Education**

**Organization**

- Internet-based research and education environment.
- Weekly reporting and brainstorming sessions open to researchers, students and DHS
- Scheduled at a time (e.g., 13:00 U.S. east coast) that allows for participation from the U.S. west coast, Hawaii, Alaska and the Pacific Basin and Western Europe.

**Management Structure**

**Science and Education Advisory Committee (SEAC):**

- Representatives from major research universities, national labs, and relevant government agencies, appointed in consultation with DHS.
- SEAC will advise the Executive Committee on projects and educational programs from the perspective of the current state-of-the-art in relevant science and technology, and present and future threats.
Assurance of Participation of Underrepresented Groups

Summer internships:
for 3rd-year University of Puerto Rico and University of Alaska students at Stevens, Rutgers, and the University of Miami on CSR-sponsored research projects.

Leverage existing programs inserting CSR activities:
• RSMAS
  • Miami-Dade Maritime and Science Technology High School - MAST Academy (top students from all ethnic backgrounds).
  • Integrated Marine Program and College Training (IMPACT)
• Monmouth
  • Monmouth Junior Science Symposium
  • Program for the acceleration in science careers (PAC) for minority students
  • THE STARS CHALLENGE - Science enrichment program for top middle school students
• UPRM
  • UPR – Resource Center for Science and Engineering
  • Atmospheric Sciences Cooperative Science Center (CSC) Meteorology and Oceanography Summer Camp
• Stevens
  • Women's Transportation Seminar
Assurance of Participation of Underrepresented Groups

Lead Institution:

University of Puerto Rico

Resource Center for Science and Engineering

- Assists partners in minority initiatives
- Assesses progress
- Disseminates information on training opportunities
- Coordinates outreach with RCOOS – RA’s
CSR and IOOS

• CSR will encompass 5 of the 11 Regional Associations (RA)

• CSR-generated data will provide unprecedented observing capacity to CaRA, PacIOOS and AOOS

• RAs outreach capabilities (web pages, focus groups) will provide vehicle for CSR outreach to communities
Technology Transfer

• HF Hardware systems and software developed and tested in the New York Bight test-bed will be transferred to the University of Puerto Rico for testing in Caribbean waters, and Alaska and Norway (depending on export regulations) for testing in Arctic environments.

• The Extreme Environments team will develop a culturally appropriate technical manual that could be used by local Alaska residents.

• The manual would be developed by Alaskan Native undergraduate students under the Alaska Native Science and Engineering Program (ANSEP).

• Local personnel employed to conduct routine maintenance and inspections of the HFR system. Providing opportunities to maintain the system and data-sharing of the HFR via the internet provides local residents with “ownership” in the system.
The CaRA Example
Questions?