



## **Engaging Ocean Scientists in Education and Outreach in Support of International Year of the Ocean**

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This presentation will provide a roadmap of options to help scientists efficiently plan and implement education and outreach efforts to promote science literacy. The USF's College of Marine Science Office of Education and Outreach Programs serves to integrate ocean science research and learning to enhance K-20 education for teachers, students, and pre-professional scientists. Join us as we provide a realistic perspective of how scientists have been involved in E and O throughout our 15 year life history. Over the past several years we have adapted the EPO model shared by Morrow (2000) that provides a sample of roles for scientists in education. This model provides scientists with multiple entry points for E and O involvement. The nature of involvement can include scientists as advocate, resource, and/or partner. We will demonstrate how ocean scientists have engaged at all three levels of involvement and how E and O program management have provided service to 1) advocate the involvement of scientists in education and public outreach, 2) assist a scientist with matching their talents, interests, and research foci to existing E and O projects, and 3) design new E and O projects with effective partnerships between scientists and educators. The broader impacts of these activities have included formal and informal education for K-12 students and teachers, courses for ocean sciences graduate students, courses for teacher education programs, and public outreach. Current E and O programs that provide infrastructure and foster engagement of ocean scientists include the Oceanography Camp for Girls, In-Service Teacher Oceanography Workshops, the OCEANS GK-12 Teaching Fellowship Program, and the Mayors Mentoring and More Program. Join us as we share case studies of how research scientists and E and O management have bridged broader impacts via research proposals and grant writing, course redesign, and university service activities. Successful partnerships between research scientists, educators, and the

public are possible and rewarding through 1) inclusive, shared expertise, 2) sensitivity to learners' needs, 3) meaningful resources, 4) flexibility, 5) humor, 6) time, and 7) genuine interest. We look forward to expanding our international collaborations in support of global ocean science literacy.