



## What is Deep-C?

The Deep-C Consortium is a group of scientists and educators investigating the environmental consequences of petroleum hydrocarbon (oil) on living marine resources and ecosystem health in the northeastern Gulf of Mexico. Deep-C research activities include mapping the sea floor; analyzing water and sediment samples; studying how oil-related toxins may affect wildlife; and determining how currents and other ocean processes transport oil. Deep-C scientists use data collected by hand, boat, plane, and satellite in studies to help us better understand the Gulf of Mexico and to support improved responses to possible future oil spills. Through educational workshops, special events, multimedia production, experiential internships, and

social networking, Deep-C seeks to engage students and educators in the process of scientific discovery and to encourage a sense of stewardship for the Gulf.

*As scientists and educators, our job is to instill in our students, our communities, and the general public some level of the wonder and awe we feel in discovery and to transform their view of the natural world.*

## What education and outreach programs are available for middle school and high school students and teachers?

### *“Scientists in the Schools”*

This hands-on speaker series provides students access to scientists and their research through experts speaking in classrooms about exciting Deep-C research projects. Contact Amelia Vaughan ([amelia@deep-c.org](mailto:amelia@deep-c.org)) for information about arranging a guest speaker in your class. Learn more at: <http://deep-c.org/education-and-outreach/for-educators/scientists-in-the-schools-program>



### *Educator Workshops on Using Marine Technologies*

Aimed at supporting high school teachers and exciting students about the possibilities of Science, Technology, Engineering, and Math (STEM) education, Deep-C workshops provide engaging and fun ways to teach marine science and underwater technology in their classrooms. Water monitoring workshops bring real-world environmental sensor networks into the high school classroom. Remotely Operated Vehicle (ROV) workshops train teachers on how to build an ROV from simple materials and test their skills while completing activities on buoyancy, basic engineering principles, basic circuitry and deep-sea oceanography. The teacher program is tied to an annual student competition. Learn more about these training opportunities at: [deep-c.org/education-and-outreach/for-educators](http://deep-c.org/education-and-outreach/for-educators)

### *Citizen Scientist Initiative*

This new initiative (starting in fall 2013) will provide teachers and students with hands-on experience combing the Gulf Coast beaches in search of oil samples, recording information about coastal/marine ecosystems, measuring water salinity, and taking photos of marine life species. An online database will be used to collect and share the data collected by our citizen scientists.



## Contests, Activities & Events

Throughout the year, Deep-C sponsors special activities and contests designed to connect students to the research being conducted by Consortium scientists. Deep-C representatives are often available to participate in educational and science-related community and school events.

## Experiential Internships for Teachers

Deep-C's internships offer teachers opportunities to conduct research in various fields of science, as well as gain real-world experience working with scientists on projects that support the Deep-C mission. Check the Deep-C website ([deep-c.org/internships](http://deep-c.org/internships)) for upcoming opportunities or to submit an application.



## Lesson Plans and Other Educational Resources

The Deep-C website ([www.deep-c.org](http://www.deep-c.org)) includes a variety of resources for educators:



**Informative videos** ([deep-c.org/news-and-multimedia/videos](http://deep-c.org/news-and-multimedia/videos)), produced by the CPALMS

Initiative, feature expert researchers and scientists linking Deep-C research and NGSS science standards. Perfect for showing students how the science they learn is applied in a real-world setting.

**Lesson plans and activities:** [deep-c.org/education-and-outreach/for-educators/educator-resources](http://deep-c.org/education-and-outreach/for-educators/educator-resources)

## Online Multimedia and Social Media

In addition to the Deep-C website ([www.deep-c.org](http://www.deep-c.org)), the Consortium uses a variety of online tools to share information with members of the educational community and the general public.

Check us out on:

- **YouTube:** [www.youtube.com/DeepCConsortium](http://www.youtube.com/DeepCConsortium)
- **Facebook:** [www.facebook.com/deep.c.consortium](http://www.facebook.com/deep.c.consortium)
- **Twitter:** [twitter.com/DeepCConsortium](http://twitter.com/DeepCConsortium)
- **Picassa Web Gallery** - [picasaweb.google.com/112164058289504852022](http://picasaweb.google.com/112164058289504852022)
- **"Voices from the Field" Blog** - [deepcconsortium.blogspot.com/](http://deepcconsortium.blogspot.com/)



## Deep-C Member Institutions

Florida State University (lead), Dauphin Island Sea Lab, Georgia Institute of Technology, Naval Research Laboratory at Stennis Space Center, Norwegian Meteorological Institute, SAIC, University of Miami RSMAS, University of South Florida, University of West Florida, Woods Hole Oceanographic Institute.



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