ROV Teacher Workshop Jan. 7, 2006

Sponsored by: Stellwagen Bank National Marine Sanctuary



Become familiar with the concepts and tools needed for ROV building

(or ROVs) have become a key tool in underwater exploration. This workshop provides basic information about this important technology, ways to introduce the topic into your HS curriculum, and advice for competing in the regional and national ROV building competitions.

Remotely Operated Vehicles

DATE: Saturday, January 7, 2006

TIME: 8:30am - 6:00pm

COST: \$25

LOCATION: Mass. Maritime Academy, Buzzards Bay, Electronics Lab, Rm. 212 Science Building

The program fee will cover morning snacks, lunch, textbook, and all handouts and supplies.

Schools may send a single teacher or teams of 2-3 individuals, including a student representative. Teams will be encouraged to work together during the workshop. For schools interested in developing a new ROV program, a team approach is highly recommended. Schools with established robotics programs may be able to easily expand their curriculums to incorporate these types of underwater ROVs.



Stellwagen Bank Nat. Mar. Sanctuary CO-SPONSORS:

Marine Technology Society – NE
Massachusetts Marine Educators
Massachusetts Maritime Academy

INSTRUCTORS:

Michael Bastoni – Plymouth North High School
Paul McGuinness – Cambridge Rindge & Latin
Matt Naiman – Woods Hole Oceanographic Inst.
Jim Case – Marine Technology Society-NE
Anne Smrcina – Stellwagen Bank NMS

ROV building allows students to incorporate key science and technology learning standards into a project that shows real-world applicability.

MASSACHUSETTS HS SCIENCE AND TECHNOLOGY LEARNING STANDARDS: Engineering Design Construction Technologies Motion and Forces Conservation of Energy & Momentum

Workshop sponsors are attempting to obtain approval for the granting of 10 PDPs for participation in this workshop.

There are a limited number of spaces for this hands-on workshop. It is recommended that interested educators apply ASAP. For more information, contact Anne Smrcina, SBNMS, at 781-545-8026 x204 or e-mail anne.smrcina@noaa.gov.



Learn about real-life deployments of ROVs in our national marine sanctuaries



Receive tips for competing in regional and national student ROV competitions







Stellwagen Bank National Marine Sanctuary researchers use ROVs to explore deep boulder reefs, other natural habitats and shipwreck sites. Painting by Mary Jane Brush.

Remotely Operated Vehicle Teacher Workshop January 7, 2006

Registration Form

Deadline: December 30, 2005

Name:
Mailing Address:
E-Mail:
Home Phone:
School Name:
School Address:
School Phone:
Grades/Classes Taught:
Years of Teaching Experience:
Are you interested in forming a team for the regional and national ROV competitions?
(circle one) YES NO Are you interested in starting an afterschool ROV program?
(circle one) YES NO
Will your school be instituting a unit on ROV building within the regular curriculum?
(circle one) YES NO If yes, when?
(e.g., physics, robotics, shop, marine science)
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I agree to develop one lesson plan based on the ROV Workshop for use by the Stellwagen Bank National Marine Sanctuary and other sponsors. I understand that the sanctuary is attempting to arrange for PDP
credits but cannot promise this feature at this time. If successful, the award of PDPs is contingent upon
completion of the post workshop curriculum unit and attendance at the full day program.
Signature:

Mail this form and a \$25 check (made out to MTS-NE) to:

Anne Smrcina, Stellwagen Bank NMS, 175 Edward Foster Road, Scituate, MA 02066