

On behalf of the students and instructors, the MATE Center and the MTS ROV Committee thank the following organizations for their support of the 2008 event:

- ▼ National Science Foundation
- ▼ Marine Technology Society
- ▼ NOAA
- ▼ Oceanering International
- ▼ IEEE Oceanic Engineering Society
- ▼ NOAA's National Marine Sanctuary Program
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- ▼ Makai Ocean Engineering
- ▼ Marine Technology Reporter
- ▼ Marport
- ▼ Massachusetts Maritime Academy
- ▼ Memorial University's Marine Institute
- ▼ MIT Center for Ocean Engineering
- ▼ Monterey Bay Aquarium Research Institute
- ▼ Ridge 2000 Program
- ▼ Scripps Institution of Oceanography (SIO)
- ▼ Birch Aquarium at SIO
- ▼ University of California, San Diego (UCSD)
- ▼ Monterey Peninsula College (MPC) Foundation
- ▼ MPC Technology Preparation Program
- ▼ NASA Johnson Space Center's Neutral Buoyancy Lab
- ▼ Naval Undersea Museum
- ▼ NAVSEA
- ▼ Newfoundland and Labrador Department of Innovation, Trade and Rural Development
- ▼ NURC-University of Connecticut
- ▼ NURC-University of North Carolina
- ▼ Nuytco Research Ltd.
- ▼ Ocean Innovations
- ▼ Ocean News & Technology
- ▼ Oceanic Imaging Consultants, Inc.
- ▼ OceanWorks
- ▼ Office of Naval Research
- ▼ Parallax, Inc.
- ▼ Perry Slingsby Systems
- ▼ Phoenix International
- ▼ Princetel, Inc.
- ▼ Pro-Dive
- ▼ Quester Tangent Corporation
- ▼ Raytheon
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- ▼ Roper Resources
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- ▼ Schilling Robotics
- ▼ Sea Engineering
- ▼ Seabotix, Inc.
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- ▼ Sea Technology
- ▼ SeaTrepid, LLC
- ▼ Shell Exploration and Production
- ▼ SolidWorks
- ▼ Sound Ocean Systems, Inc.
- ▼ Subsalve
- ▼ Technip Canada
- ▼ UCSD Jacobs School of Engineering
- ▼ UnderWater Magazine
- ▼ University of Hawaii Seafloor Mapping Lab
- ▼ West Coast & Polar Regions Undersea Research Center
- ▼ VANTEC
- ▼ Veolia Environmental Services
- ▼ VideoRay LLC
- ▼ Woods Hole Oceanographic Institution

ROVs to the Rescue: Advancing the Capabilities for Submarine Rescue

A competition that challenges students to design and build the next generation of submarine rescue vehicles



Courtesy of Steve Van Meter/VideoRay

The pressure increases (literally!) for students from the 2008 Shau Kei Wan Government Secondary School (Hong Kong) team as they pilot their ROV through the mission tasks.

An exciting and educational competition for high school and college students that:

- ▼ facilitates connections among employers, technical professionals, students, and educators
- ▼ promotes the development of technical, problem solving, and teamwork skills
- ▼ increases the awareness of marine-related technical fields, employers, and careers
- ▼ highlights the history and technological advances being made in submarine rescue systems

For more information on how you can participate, contact:

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Web site: www.marinetech.org/rov_competition/index.php

Front Cover Photo: An ROV attempts to measure the temperature of a "black smoker" during the 2008 international competition.



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The MATE Center is supported, in part, by the National Science Foundation.

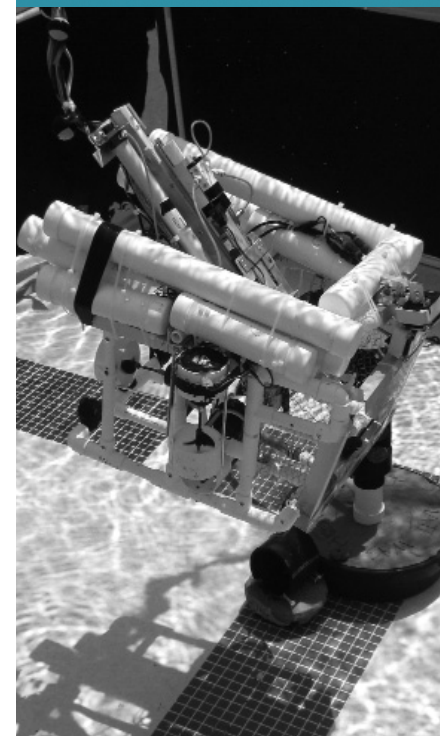


MATE
MARINE
ADVANCED
TECHNOLOGY
EDUCATION
CENTER



8th Annual International Student ROV Competition

ROVs:
The Next Generation of
Submarine Rescue Systems



Massachusetts Maritime Academy
Buzzards Bay, Massachusetts
June 24 - 26, 2009

Courtesy of the 2008 MATE International Competition Dive Support Team

Using ROVs to Teach Technical Skills

What?

The Marine Advanced Technology Education (MATE) Center and the Marine Technology Society's (MTS) ROV Committee are organizing the 8th annual international student remotely operated vehicle (ROV) design and building competition. The competition will take place June 24-26, 2009 at the Massachusetts Maritime Academy in Buzzards Bay, Massachusetts.

Why?

Using submarine rescue technology as the theme, the competition goals are to increase the awareness of marine technical fields, help students develop the skills necessary for careers in marine technology, and connect students and educators with employers and technical professionals.

Who?

Middle and high school, community college, and university students compete. Employers (including marine industries, research institutions, professional societies, and government organizations) and working professionals and working professionals support the teams with funds, facilities, equipment, materials, and technical expertise.



A member of the University of California Santa Cruz team troubleshoots an electrical issue on the pool deck at the 2008 international competition.

Promote Your Company, Develop Your Workforce

- ▼ Help to support the development of your future workforce
- ▼ Increase your company's visibility through the MATE web site, newsletters, and conference presentations
- ▼ Gain publicity via advertisements and articles published in industry journals
- ▼ Include your company's logo on the contest materials, including banners at the event
- ▼ Attend the competition and display company materials and products, and meet potential employees at the **Ocean Career Expo**, a regularly scheduled part of the international event
- ▼ Post your job announcements on the MATE Center's online job board
- ▼ Connect with skilled interns through MATE Technical Internship Program
- ▼ Gain access to graduates from technical programs of MATE partner colleges

Sponsorship Opportunities

▼ Team Support

You can help teams by contributing:

- Funds for travel, housing, and meals
- Building materials and equipment
- Access to workshop facilities
- Time and technical expertise as mentors

▼ Competition Events

High-profile sponsorship opportunities include:

- Kick-off reception
- Technical workshops and seminars
- Event venue
- Awards banquet and ceremony

▼ Awards and Prizes

Supporting organizations can help recognize teams by providing:

- Trophies, plaques, and event t-shirts and patches
- Company products, such as cameras, thrusters, tethers, tools
- Trips to subsea facilities or on board vessels
- Cash awards



Students at the international competition double check their ROV's buoyancy before their mission run.

About the Organizers

The **Marine Advanced Technology Education (MATE) Center**, headquartered at **Monterey Peninsula College** in Monterey, California, is a national partnership of community colleges and other educational organizations, research institutions, professional societies, government organizations, marine industries, and working professionals. Established in 1997 with funding from the **National Science Foundation**, the Center's mission is to improve marine technical education in the U.S. and thereby prepare individuals for ocean occupations.

www.marinetech.org

The **Marine Technology Society's (MTS) ROV Committee** was created in 1978. The Committee's mission is to promote interchange of technical information among industrial, academic, defense, and other organizations in the areas of ROVs, undersea robotics, and artificial intelligence; provide speakers to academic institutions to increase the participation of students in the society and areas of ROV and undersea technology; and produce technical publications related to ROV technology.

www.mtsociety.org
www.rov.org

About Massachusetts Maritime Academy

For over 100 years, **Massachusetts Maritime Academy (MMA)** has been preparing women and men for exciting and rewarding careers on land and sea. As the nation's oldest and finest co-ed maritime college, MMA challenges students to succeed by balancing a unique regimented lifestyle with a typical four-year college environment. As a member of the cadet corps, students live, study, sail, work, and play in an atmosphere that encourages them to be their best. MMA is located on Cape Cod, at the mouth of the scenic Cape Cod Canal.

www.maritime.edu