

10th Annual Underwater Robotics Contest

Saturday, April 24, 2010



The **Marine Advanced Technology Education (MATE) Center at Monterey Peninsula College (MPC)** sponsors an annual underwater robotics contest for students in grades 6 –12. Students design, build, and pilot remotely operated vehicles (ROVs) to compete in either the SCOUT or the RANGER class. The event includes underwater missions, a poster display, and an engineering presentation. The MATE Center provides support through teacher and student workshops, building materials, and access to mentors. Below is a list of events to assist your students' participation in this year's contest. **Santa Cruz workshops are co-sponsored by the Seymour Center at Long Marine Lab. To register for the Santa Cruz workshops call 831-459-3800. Register for Monterey workshops by Calling Kim Swan at 831-238-3868.** Contest registration forms will be sent and posted to the contest web site in November.

Teacher/Team Sponsor Support Workshops

Excite students about the world of ocean exploration and ROVs. Using simple, affordable materials, teachers will design, build, and test their own underwater vehicle and receive information on how to use ROVs to teach about ocean exploration, technology, and basic physical science concepts. The workshop is geared to teachers of grades 6-12. It is especially appropriate for teachers supporting students interested in entering the ROV contest. Teachers must register in advance. The workshop is FREE, but space is limited.

Saturday, October 31, 2009* MPC Swimming Pool – call 831-238-3868 to register

Saturday, November 7, 2009* Simpkins Family Swim Center, Santa Cruz - call 831-459-3800 to register

***Please indicate morning (10:00am – 12:00pm) or afternoon session (1:00 – 3:00pm)**

Underwater Robotics, Anyone? Student Immersion Program

The MATE Center offers "ROV-in-a-Bag" workshops to help students learn how to design and build their own ROVs. During these 90-minute workshops, students create then test-fly their own ROVs in outdoor swimming pools. Students must complete a waiver and register for the workshop in advance. Students may register in groups of 2 or 3. If a student registers individually, he/she will be paired with other students for the activity. The program is FREE, but space is limited.

Saturday, December 5, 2009* MPC Swimming Pool – call 831-238-3868 to register

Saturday, December 12, 2009* Simpkins Family Swim Center, Santa Cruz - call 831-459-3800 to register

***Please indicate morning (10:00am – 12:00pm) or afternoon session (1:00 – 3:00pm)**

Student Support Workshops

Wiring workshops, camera waterproofing workshops, and pool practice days are held for students planning to enter the ROV contest. The wiring workshops guide students through the process of wiring their ROV control boxes. The camera waterproofing workshop takes students through the steps of building an underwater camera. Pool practice days allow students to test their ROVs on the contest's underwater mock-ups. Students MUST register in advance for both the workshops and the pool practice days. Space is limited. Fee for wiring workshop is \$15; fee for the waterproofing workshop is \$15. There is no fee for the pool practice days.

Saturday, January 30, 2010-AM session- Camera Waterproofing workshop** @ MPC AutoTech

Saturday, January 30, 2010 -PM session- Student wiring workshop @ MPC AutoTech

Saturday, February 6 (morning and afternoon sessions) Student wiring workshop @ MPC AutoTech

Saturday, March 27 AND April 10, 2010 10:00am – 2:00pm Pool practice days @ MPC

**** Camera workshop is for Ranger class participants only, unless space allows**

Contact Information: For more information, please call Kimberly Swan at (831) 238-3868 or kswan@marinetech.org
Visit the contest website at www.marinetech.org/rov_competition/2010/regional_contests.php



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