

## Underwater Robotics, Anyone?

### MATE Monterey – Northern California Regional ROV Program – 2017 Offerings

The **Marine Advanced Technology Education (MATE) Center** at Monterey Peninsula College organizes an annual underwater robotics competition for students in grades 5 – 12. Students work in teams of 3 or more to design, build, and pilot remotely operated vehicles (ROVs) to accomplish tasks based on scenarios from the real world. In addition to the underwater missions, the event includes a poster display, oral presentation, and/or technical report.

The MATE Center offers workshops for both teachers and students, instructional materials, how-to videos, classroom mentors, and kits to help students get started. See below for 2017 workshop offerings as well as links to resources and information. **Happy building!**

- **January 28, 2017 – all day PufferFish ROV kit workshop at MPC.** This workshop will provide instruction on basic electronics, soldering, and the PufferFish kit control system (see [www.marinetech.org/pufferfish/](http://www.marinetech.org/pufferfish/)). Teachers, afterschool club leaders, and parents are welcome to attend with their students. Fee: \$220 for the PufferFish ROV kit (*including motors and power wires*), 4 Practice boards and lunch for up to 2 participants; \$100 for the PufferFish Control box kit (*motors and power wire not included*), 4 Practice boards and lunch for up to 2 participants. Additional lunches are available for \$8 each. See <https://www.emailmeform.com/builder/form/RjxFoS50nsDM7K3TgO65mC0> to register.
- **January 28, 2017 - Anderson PowerPole Conversion.** Run concurrently with the PufferFish ROV workshop. MATE staff will be on hand to help teams convert their power wires from banana plugs to Anderson PowerPole connectors. There is no fee for converting banana plugs to Powerpoles. Contact Matthew Gardner, at [mgardner@marinetech.org](mailto:mgardner@marinetech.org), to sign up.
- **March 11, 2017 – 1 to 4 PM Product Demonstration Review at MPC.** The product demonstration props for RANGER, NAVIGATOR, and SCOUT class will be available to examine. MATE will be on hand to answer questions about the product demonstration props.
- **April 29, 2017 – Pool practice day and engineering reviews at Watsonville High School.** Competing teams are encouraged to attend! Fee: Free! Sign-ups will be circulated in March.
- **May 13, 2017 – Monterey Bay regional contest day at Aptos High School.** Registration for the event will be available in mid-December. See [www.marinetech.org/registration/](http://www.marinetech.org/registration/) for more information, including registration fees.

Visit <http://monterey.marinetech2.org/> or contact Matthew Gardner, at [mgardner@marinetech.org](mailto:mgardner@marinetech.org) to learn more.

