



European Student Autonomous Underwater Competition (SAUC – E)



DGA (F) and DSTL (UK) announce the 3rd Annual Student Autonomous Underwater Challenge – Europe (SAUC-E).

The goal is to increase Government, Industry, and Academia attention to autonomous underwater vehicles (AUV's) through a student competition that simulates real-world missions.

July 7th – 11th 2008, Brest, France



General Information

Purpose

The competition is designed to give the students the opportunity to apply the theory they have learned and to combine their knowledge and research skills with creativity and vision to solve real-world missions.

Aimed at stimulating and fostering interest in innovation and technology, and encouraging careers in the field. The competition challenges the students to design, realise and demonstrate a system capable of completing a specific and independent underwater operation

The competition is separated into two parts: Static and Autonomous. The static assessment will require a conference quality written report and oral presentation that covers the design of the vehicle, integration choices, and team structure. The autonomous assessment will require the vehicle to perform given tasks to show the capabilities of the design. Details of the requirements will be available in the rule document on the SAUC-E website on October 8th.



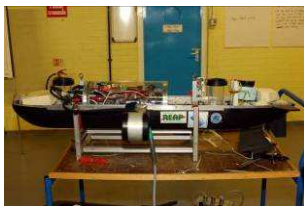
Entrants

Teams are invited from European education institutions. Please contact the steering committee or complete an intent-to-compete form available on the web site. (Please note: the intent to compete is not binding but enables the steering committee to gauge numbers and focus bulletins.) Teams must consist of 75% student members with including a student captain and have a faculty advisor.



Sponsors

Industry support is appreciated by all teams. Teams can often be clubs with limited funds. If you would like to support one or more teams, either financially or technically, please contact André QUINQUIS, details below.



Visitor Observers

Industry and MOD representatives are welcome to attend the competition on July 9th – 11th inclusive. Please register your interest with André QUINQUIS, details below.

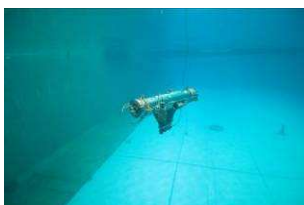
Location

- IFREMER, Brest, France.

There are two tanks available :

- Tank 1 : 50 m x 12.5 m x 10-20 m (37.5 m of the tank is 10 m deep)
- Tank 2 : 50 m x 4 m x 4 m (towing tank)

Both of these tanks contain salt water





Vehicle Requirements

The vehicles being entered into the competition must meet certain conditions to ensure that each vehicle is of the same relative class and to enforce a level of safety (weight, size, safety).

To even practice in the pool the safety inspection must be passed; detailed requirements will be published in the competition rules.



Static Assessment

The static evaluation considers the thought and engineering put into a project without direct concern to how well it performs.

Written Report

The written report is a conference quality technical document that should cover the design decisions, system integration, and innovation of the team's vehicle. The paper should be no more than 20 pages including works cited, appendix, images, and cover page.



Oral Presentation

The oral presentation should be given as if being presented to a conference or technical review board. It will be a formal presentation in front of a panel of judges and an audience of observers (other teams press, public) using computerized slides or video.

The speech should be an overview of the technical paper, and include any changes since the papers submission. The presentation should be made by one or more of the students.



Autonomous Assessment

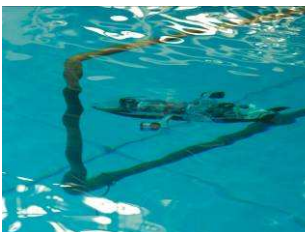
The autonomous competition is the test of the implementation of the vehicle design. It consists in 2 days of free practice followed by a qualifying run. During the day of autonomous competition, the large practice areas will be closed, however, qualifying can still happen between runs if necessary. Only those teams that have qualified and have passed the safety requirements are allowed to compete.

On the final day, the course could be altered between runs and will differ from the qualifying run.



Awards

- ✓ The winning teams will be awarded major prizes at a prestigious gala dinner and significant publicity will be achieved across the trade and regional press.
- ✓ Discretionary Awards for particular innovation, stand out performances, best presentation, etc



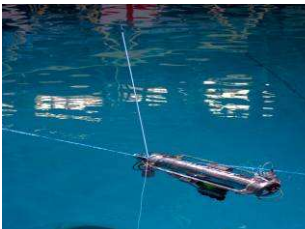
Additional information

Additional information on the competition will be issued on the competition website :

<http://www.dstl.gov.uk/news-events/competitions/sauce/07/index.php>

A support web site detailing the missions and giving examples of previous competitions is also available at www.ece.eps.hw.ac.uk/~ceeyrp/SAUCE-SUPPORT

This web site will be updated on a regular basis and teams are encouraged to consult it on a regular basis. Questions concerning the support web site should be addressed to Dr Yvan PETILLOT (Y.R.Petillot@hw.ac.uk)



Contacts

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