ROMA OCEAN WORLD
SCIENCE AND SAILING
RESEARCH SEMINAR

Friday, June 5th, 2015, 9.30-17.15 – Rome, Italy
Sapienza – Università Di Roma - Faculty Of Engineering
Aula del Chiostro - Via Eudossiana 18 – 00184 Roma

Objectives

Roma Ocean World is the name of the sailing challenge undertaken by Matteo Miceli with his sailing boat named ECO40. On October 19th, 2014 Matteo left from Riva di Traiano to sail alone around the world in energy and food self-sufficiency. The route included the rounding of the most famous capes of the world: Cape of Good Hope, Cape Leeuwin and Cape Horn. When Matteo was on the way back to Italy, after rounding the three capes and sailing for 25.000 nautical miles, he capsized with ECO40 at the equator . He was about 600 miles offshore the Brazilian coasts. Matteo was saved by a cargo. When he came back to Italy, he organized a first expedition with four friends to try to recover ECO40, which was not successful. After one month Matteo and his friends tried again and found it 300 miles offshore the Brazilian coasts.

The aim of the seminar is to report the project Roma Ocean World and to show how research can support sport challenges in the field of ocean sailing. Matteo Miceli will introduce the seminar telling his technical and human experience. The seminar will include a series of presentations by researchers and technicians who were involved in the project.

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PROGRAM (Draft)

9.30/9.45	Welcome of the Dean – Prof. Ing.Fabrizio Vestroni Welcome of the DICEA Department Director – Prof. Ing. Antonio D'Andrea
9.45/10.30	Alone around the world – Matteo Miceli
10.30/10.45	Organization of the project and scientific aims Paolo De Girolamo – Sapienza Università di Roma
10.45/11.15	Coffee break
	Ocean meteorology and strategy for sailing alone around the world Andrea Boscolo – Politecnico di Torino
11.45/12.15	GPS applications for boat monitoring Mattia Crespi – Sapienza Università di Roma Augusto Mazzoni – Sapienza Università di Roma Frank.Pache – Leica Geosystems
12.15/12.45	Satellite observations: support for planning and assistance of a sailing boat around the world Luca Pietranera - e-geos (ASI-Telespazio) Achille Ciappa - e-geos (ASI-Telespazio)
12.45/13.15	Sentinel 1: mission outline and research support capabilities Pier Giorgio Marchetti – EOP Ground Segment Department, ESA, José Manuel Delgado Blasco –Research Support Service, CGI for ESA
13.15/14.00	Lunch
14.00/14.30	Photovoltaic panels and lithium batteries, the future of energy for sailing boats Marco Bianucci – Istituto di Scienze Marine ISMAR-CNR
14.30/15.00	Navigation software and electronic cartography Francesco Farina – 3XEL Srl
15.00/15.15	Fatigue induced failures in sailing boats: Franco Bontempi – Sapienza University of Rome
15.15-15.35	Satellite communications and safety management GianlucaCundari – Sirm – Società Italiana Radio Marittima
15.35-16.00	Environmental and navigation data monitoring Alessandro Romano – Sapienza Università di Roma – Faculty of Engineering
16.00-16.15	Tea
16.15-16.45	The wind around the world Marcello Di Risio – University of L'Aquila Davide Pasquali – University of L'Aquila
16.45-17.15	ECO 40 Performances and polar speed Giorgio Bellotti – Università di Roma TRE

Contact: - Paolo De Girolamo paolo.degirolamo@uniroma1.it – 3292987254
Alessandro Romano alessandro.romano@uniroma1.it - 3394506453