

# 2013 broadening the surface

## MONDAY, 30<sup>th</sup> SEPTEMBER 2013

9:00–9:45	OPENING SESSION	
9:45–10:30	<b>GENERAL 1</b> Processing of 2-D optical & forward-look sonar video for scene reconstruction and automation of submersible platform operations <i>Shahriar Negahdaripour, University of Miami, us</i>	
10:30–10:45	COFFEE BREAK	
10:45–11:15	<b>COMPANY PRESENTATION</b> Sonobot – autonomous hydrographic survey vehicle <i>EvoLogics GmbH</i>	
11:15–12:00	<b>MARSEC 1</b> Identifying new candidate technologies for effective maritime security missions: Utilize robotic platforms in order to reduce the cost without sacrificing key performance <i>Vladimir Djapic, CMRE, Italy</i>	
12:30–13:00	<b>TUTORIAL 1 INTRO</b> Optical measurement of underwater objects <i>David Scaradozzi, Polytechnic University of Marche, Italy</i>	
13:00–14:30	LUNCH	
14:30–15:15	<b>DEMONSTRATION</b> NATO-CMRE @ PODVRŠKE group 1 group 2 group 3	<b>T1 FIELDWORK</b> @ PODVRŠKE 14:30–15:30 group 3 15:30–16:30 group 1 16:30–17:30 group 2
15:45–16:30	group 2	15:30–16:30 group 1
16:45–17:30	group 3	16:30–17:30 group 2
19:30–20:30	DINNER	

## TUESDAY, 1<sup>st</sup> OCTOBER 2013

9:00–9:45	<b>GENERAL 2</b> Issues to tackle and strategies for actions: The challenges in the Mediterranean Sea <i>Simonetta Frascchetti, University of Salento – CONISMA, Italy</i>	
9:45–10:30	<b>MAROB 1</b> Long-endurance AUV capabilities <i>Dan Stilwell, Virginia Tech, us</i>	
10:30–10:45	COFFEE BREAK	
10:45–11:30	<b>MARCH 1</b> Deep sea investigations in Sicily <i>Sebastiano Tusa, University of Naples "Suor Orsola Benincasa", Italy</i>	
11:30–12:15	<b>MARBIO 1</b> Satellite remote sensing for mapping and monitoring habitats and species in marine ecosystems <i>Anders Knudby, Simon Fraser University, Canada</i>	
12:15–13:00	<b>MARSEC 2</b> Maritime security <i>Thomas B. Curtin, Institute for Adaptive Systems, Arlington, VA US</i>	
13:00–14:30	LUNCH	
14:30–15:30	<b>HANDS-ON T1</b> @ HOTEL group 2 group 3 group 1	<b>DEMONSTRATION</b> EVOLOGICS SONOBOT @ HOTEL BEACH 14:30–15:15 group 3 15:30–16:15 group 1 16:30–17:15 group 2
15:30–16:30	group 3	15:30–16:15 group 1
16:30–17:30	group 1	16:30–17:15 group 2
19:30–20:30	DINNER	

## WEDNESDAY, 2<sup>nd</sup> OCTOBER 2013

9:00–9:45	<b>GENERAL 3</b> Global and regional sea-level rise <i>Mirko Orlić, University of Zagreb, Croatia</i>	
9:45–10:30	<b>MAROB 2</b> Hybrid systems: Where are the innovations and where are the added values <i>Vincent Rigaud, IFREMER, France</i>	
10:30–10:45	COFFEE BREAK	
10:45–11:30	<b>MARCH 2</b> A marine geoarchaeological survey in Caska bay (Pag Island, Croatia): Preliminary results <i>George Papatheodorou, University of Patras, Greece</i>	
11:30–12:15	<b>MARBIO 2</b> Seagrass monitoring in Croatia <i>Stewart Schultz, University of Zadar, Croatia</i>	
12:15–13:00	<b>TUTORIAL 3 INTRO</b> Novel approaches to control and coordination in the coastal ocean <i>Margarida Faria, João Fortuna, University of Porto, Portugal</i>	
13:00–14:30	LUNCH	
14:30–15:00	<b>TUTORIAL 2 INTRO</b> Approaches to digital feature recognition using r, using images of <i>Posidonia oceanica</i> <i>Stewart Schultz, University of Zadar, Croatia</i>	
15:00–16:00	<b>HANDS-ON T2</b> @ HOTEL group 1 group 2 group 3	<b>HANDS-ON T3</b> @ PODVRŠKE 15:00–16:00 group 2 16:00–17:00 group 3 17:00–18:00 group 1
16:00–17:00	group 2	15:00–15:45 group 3
17:15–18:15	group 3	16:15–17:00 group 1
17:15–18:15	group 3	17:15–18:00 group 2
19:30–20:30	DINNER	

## THURSDAY, 3<sup>rd</sup> OCTOBER 2013

9:00–9:45	<b>GENERAL 4</b> Inspiration through exploration: building the future on our past <i>Craig Howard, ExploreOcean.org, us</i>	
9:45–10:30	<b>MAROB 3</b> Locomotion of animals and robots in flow <i>Maarja Kruusmaa, Tallinn University of Technology, Estonia</i>	
10:30–10:45	COFFEE BREAK	
10:45–11:30	<b>MARCH 3</b> Recording the Gnalčić shipwreck <i>Filipe Vieira de Castro, Texas A&amp;M University, USA</i>	
11:30–12:15	<b>MARBIO 3</b> Adding value to habitat surveys in the offshore and deep-sea through the development of habitat suitability models to predict large area habitat distributions <i>Anthony Grehan, National University of Ireland, Galway</i>	
12:15–13:00	<b>COMPANY PRESENTATION</b> REMUS100 autonomous underwater vehicle <i>Kongsberg Maritime – Hydroid</i>	
13:00–14:30	LUNCH	
14:30–15:00	<b>TUTORIAL 4 INTRO</b> Using TargAn software package <i>George Papatheodorou, University of Patras, Greece</i>	
15:15–16:15	<b>DEMONSTRATION</b> REMUS100 @ PODVRŠKE group 1 group 2 group 3	<b>HANDS-ON T4</b> @ HOTEL 15:00–16:00 group 2 16:00–17:00 group 3 17:15–18:15 group 1
16:15–17:15	group 2	15:00–15:45 group 3
17:15–18:15	group 3	16:15–17:00 group 1
17:15–18:15	group 3	17:15–18:00 group 2
19:30–20:30	DINNER	

## FRIDAY, 4<sup>th</sup> OCTOBER 2013

9:00–9:45	<b>MARSEC 3</b> Maritime domain awareness technologies and applications <i>John Dzielski, Stevens Institute of Technology, Hoboken, NJ USA</i>	
9:45–10:30	<b>MAROB 4</b> Testing smart technologies for subsea operations in real-world environment: Recent results <i>Edin Omerdić, University of Limerick, Ireland</i>	
10:30–10:45	COFFEE BREAK	
10:45–11:30	<b>MARCH 4</b> New adventures underwater: Archaeology and the role of the citizen-scientist <i>Bridget Buxton, University of Rhode Island, us</i>	
11:30–12:15	<b>MARBIO 4</b> Inside the technologies available for mapping deep habitats <i>Simonepietro Canese, ISPRA, Italy</i>	
12:15–13:00	<b>TUTORIAL 5 INTRO</b> Mission planning and simulation for teams of cooperative marine robots <i>Thomas Glotzbach, Sebastian Eckstein, Ilmenau Technical University, Germany</i>	
13:00–14:30	LUNCH	
14:30–15:30	<b>HANDS-ON T5</b> @ HOTEL group 1 group 2 group 3	<b>DATA ANALYSIS</b> REMUS 100 @ HOTEL 14:30–15:30 group 3 15:30–16:30 group 1 16:30–17:30 group 2
15:30–16:30	group 2	14:30–15:30 group 3
16:30–17:30	group 3	15:30–16:30 group 1
16:30–17:30	group 3	16:30–17:30 group 2
18:00–19:00	<b>BTS ROUND TABLE</b> Distinguishing characteristics of the Mediterranean super-region <i>Matko Barišić, ABB AS Norway</i>	
19:30–20:30	DINNER	

## SATURDAY, 5<sup>th</sup> OCTOBER 2013

9:00–13:00	STUDENT PRESENTATIONS
13:00–14:00	LUNCH
14:30–16:00	EXAMS
16:00–17:00	CLOSING SESSION
20:00–22:00	GALA DINNER

## SUNDAY, 6<sup>th</sup> OCTOBER 2013

9:00–13:00	FIELD TRIP
------------	------------