



One-day ARROWS Workshop (November 10th 2014) to be held in the framework of the 18th ICOMOS General Assembly and Scientific Symposium 2014

Title:

**“In the field of robotic archaeology:
Robotics and ICT for knowledge, protection, and management of Underwater Cultural Heritage”**

Program of the day

- 09.00 Sebastiano Tusa, Soprintendenza del Mare della Regione Siciliana
Introduction
- 09.15 Andrea Caiti, Centro Interdipartimentale di Ricerca “E. Piaggio”, Università di Pisa
The THESAURUS Project: towards the development of robots specially designed for underwater archaeology
- 09.30 Benedetto Allotta, MDM Lab, Dipartimento di Ingegneria Industriale, Università di Firenze
The ARROWS Project: challenges, achievements, perspectives
- 09.45 Pamela Gambogi, Soprintendenza per i Beni Archeologici della Toscana
Knowledge, protection, and management of the Underwater Cultural Heritage in Tuscany: is robotics the future?
- 10.00 Katerina Della Porta, Greek Ministry of Culture
Greece’s framework for the protection of Underwater Cultural Heritage
- 10.15 David Scaradozzi, Dipartimento di Ingegneria dell’Informazione, Università Politecnica delle Marche
Discovering the Sea: New Frontiers in Data Gathering and Analysis
- 10.30 Fabio Bellavia, Dipartimento di Ingegneria dell’Informazione, Università di Firenze
Computer Vision for Underwater Applications
- 10.45 Coffee break**
- 11.15 Annalisa Zarattini, Soprintendenza per i Beni Archeologici del Lazio
The need for cooperation to protect WW1 cultural underwater remains
- 11.30 Priit Lätti, Estonian Maritime Museum
AUV and the Baltic Sea. Archaeologist's perspective
- 11:45 Daniel Roig, Albatros Marine Technology
Buoyancy change immersion systems to improve archaeological visual inspection efficiency

- 12.00 Massimo Capulli, University of Udine
The wreck “Grado 2” (III B.C.): from the sea museum to the underwater museum
- 12.15 Luigi Fozzati, Soprintendenza per i Beni Archeologici del Friuli Venezia Giulia
Underwater archaeology experiences in Northeastern Italy
- 12.30 Nikolaos Tsiogkas, Heriot-Watt University
Facilitating underwater archaeology missions using ontology world modeling
- 12.45 Koby Sharvit, Israeli Antiquities Authority
Using Marine Robotic technology to Protect and Manage Underwater Cultural Heritage in Danger

13:00 Lunch break

- 14.30 Michele Cocco, Edgelab S.r.l.
Smart, Cheap and Sexy: a new class of AUVs for a new Underwater Archaeology
- 14.45 Marco Reggiannini, ISTI-CNR, Pisa
Signals and Images Processing and Analysis for Underwater Archeology
- 15.00 Can Dede, NESNE Electronics & Izmir Institute of Technology
Underwater Cleaning Systems
- 15.15 Jon Henderson, University of Nottingham
Recent work in high resolution optical survey for the presentation of underwater cultural heritage
- 15.30 Jeff Royal, RPM Nautical Foundation
Current Archaeological Applications for AUV Technology
- 15.45 Steven Baines, TWI Ltd
Technologies for AUV hulls and power supply

16.00 Coffee break

- 16.30 George Papatheodorou, Lab. of Marine Geology & Physical Oceanography, Geology Department of University of Patras
Marine Geoarchaeology - An emerging scientific field: Case studies from Eastern Mediterranean Sea
- 16.45 Harun Ozdas, University of Dokuz Eylul – Institute of Marine Science and Technology, Izmir
Shipwrecks along the coast of Bodrum peninsulas and protection-monitoring alternatives
- 17.00 **Final Discussion**
coordinated by Sebastiano Tusa, Soprintendenza del Mare della Regione Siciliana
- 18:00 **Conclusion**