



## INTERNATIONAL SYMPOSIUM ON “UNDERWATER VEHICLES TECHNOLOGY”



Organized by  
Hellenic Centre for Marine Research  
and  
National Technical University of Athens  
Naval Architecture & Marine Engineering School

HCMR, Anavissos 26 – 27 March 2009

### 3<sup>rd</sup> Announcement

The International Symposium on "Underwater Vehicles Technology" aims at bringing together a number of invited experts from Universities, Institutes and Industry in order to provide a forum for discussing the recent developments in Underwater Vehicles Technology. Presentations will cover the state of the art in the relevant technology, as well as developments in the following thematic areas:

- Design & Construction
- Sensors & Software
- Applications

### Registrations

Registration is free and will be made directly at the Symposium reception. For your convenience you can register by email to the following address: [viki@ath.hcmr.gr](mailto:viki@ath.hcmr.gr), providing contact details (full name, address, company/foundation, email and phone number).

### Venue

The Symposium will take place at the premises of HCMR in Anavissos, Attica. HCMR is locating 46.7 km from the centre of the Athens. Parking is available.

Address: 46.7 km Ave Athens – Sounio, 190 13 Anavissos, Attica

### Travel and Hotel arrangements

Participants travelling to Athens are expected to make their own travel and hotel arrangements. We have arranged special rates in two hotels



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To get the special rates you need to book by email or fax and mention “for the Symposium Underwater Vehicles Technology”. Hotels details as below:

Hotel Mavro Lithari Anavissos, 47 km Athinon-Souniou - Anavissos 190 13 – Greece, Tel. 2291-054972 /4 Fax 2291-054975  
SEA VIEW HOTEL, 4, XANTHOU STR. 166 74 GLYFADA GREECE, TEL: (+30) 210 8947681, FAX : (+30) 210 8942189

### Technical Program

The detail program is attached

The Symposium is sponsored by



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The organizing committee

Prof. Vassilios Papazoglou, NTUA  
Prof. Spyridon Mavrakos, NTUA  
Spyridon Volonakis, HCMR



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### PROGRAM

	Date/Time	Event	Presentation	Author
	<b>26<sup>th</sup> March</b>			
	08.30 – 09.00	Registration - Coffee		
	09.00 – 09.05	Welcome of HCMR's president		
	09.05 - 09.10	Welcome of Organizing Committee		
	<b>1<sup>st</sup> period 09.10 – 11.30</b>			
1	09.10 - 10.30		“15 years of underwater vehicles activities at HCMR”	Dr Christopher Smith, Researcher HCMR (Underwater Activities)
2	10.30 - 10.50		“Update on technological developments and operational feedbacks with underwater system at Ifremer”	Vincent Rigaud, Director of the Underwater system Dept. IFREMER
3	10.50 – 11.10		“Existing and Future Underwater Vehicles of the Hellenic Navy”	Commodore N. Katsikogiannis HN, Armaments Director. Hellenic Navy General Staff
	<b>11.10 – 11.30</b>	<b>Discussion</b>		
	<b>11.30 – 12.00</b>	<b>Coffee Break</b>		
	<b>2<sup>nd</sup> period (12.00 – 13.40)</b>			
4	12.00 – 12.20		“Planning and Control of	Prof. Evangelos Papadopoulos, NTUA, Department of



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			Underactuated Autonomous Underwater Vehicles (AUVs)”	Mechanical Engineering
5	12.20 – 12.40		“Research and Development of an Autonomous Underwater Glider: Modeling, Design and Control”	Paraskevi D. Bourma, Dr. Ioannis Thanos and Prof. Spyros A. Mavrakos, NTUA, NAME School
6	12.40 – 13.00		“Structural Design and Analysis of an Autonomous Underwater Vehicle (AUV) out of Composite Materials - CFRP.”	Spyridon D. Volonakis, Assoc. Prof. N. Tsouvalis, Prof. Vassilios J. Papazoglou, NTUA, NAME School
7	13.00 – 13.20		“Robots for Ships Structure Monitoring”	Philippe Renard, Bureau Veritas Register
	<b>13.20 -13.40</b>	<b>Discussion</b>		
	<b>13.40 – 15.00</b>	<b>Lunch Break – Tour to HCMR’s Submersibles Workshop</b>		
	<b>3<sup>rd</sup> period (15.00 – 16.20)</b>			
8	15.00 – 15.20		“The Forensics of Deep-Water Shipwrecks”	Shelley Wachsmann, Meadows Professor of Biblical Archaeology, Texas University (Institute of Nautical Archaeology)
9	15.20 – 15.40		“Real time investigation of hydrothermal vents	Sakellariou D. <sup>1</sup> , Camilli R. <sup>2</sup> , Mallios A. <sup>1</sup> , Bingham B. <sup>3</sup> , Eustice R. <sup>4</sup>



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			using HCMR’s submersible equipped with in-situ massspectrometer and acoustic navigation system”	<sup>1</sup> Hellenic Centre for Marine Research, <sup>2</sup> Woods Hole Oceanographic Institution <sup>3</sup> Franklin Olin College <sup>4</sup> University of Michigan
10	15.40 – 16.00		“Mosaicking in Real-Time with Phase Correlation”	Francesco Orsenigo, HCMR
	<b>16.00 – 16.20</b>	<b>Discussion</b>		
	<b>27<sup>th</sup> March</b>			
	<b>08.30 – 09.00</b>	<b>Coffee - Registration</b>		
	<b>1<sup>st</sup> period 09.00 – 10.20</b>			
11	09.00 – 09.20		"Developments in the use of Autonomous Underwater Vehicle technologies on Cyprus"	Dr. Cecelia Hannides, The Cyprus Institute.
12	09.20 – 09.40		“Position Control System as an aid to Navigation for ROV operators. (Manipulation aid)”	Mrs D. Panagou and, Mr. G. Karras, MARAC ELECTRONICS SA
13	09.40 – 10.00		“Pushing the limits of underwater video”	Anders Holm, LYYN
14	10.00 -10.20		“ROV control and data: the challenges of upgrading from copper to fiber optic”	Leonodas Manousakis, HCMR (Underwater Activities)
	10.20 – 10.40	<b>Discussion</b>		



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	10.40 – 11.00	<b>Coffee Break</b>		
15	11.00 – 11.20		"Shadows mapping SONAR, a new tool for seafloor mapping"	Emmanuel Sgherri, Sales Manager, Seafloor mapping Systems, IXSEA
16	11.20 – 11.40		AUV Development for Underwater Intervention	Professor C. Chrysostomides, Professor M. Triantafyllou, MIT
	<b>11.40 – 13.00</b>	<b>Discussion – Panel</b>	The way ahead	Panelists to be determined



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