

2nd STACHEM Regional Workshop
on Infrastructures for Underwater Archaeology
24th and 25th of February 2010



Programme for invited speakers

24th February
University of Haifa, Israel
Leon Recanati Institute for Maritime Studies

25th February
Akko, Israel Antiquities Authority



STACHEM:
Science and Technology for Archaeology and Cultural Heritage in
the Eastern Mediterranean



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STACHEM: Science and Technology for Archaeology and Cultural Heritage in the Eastern Mediterranean

STACHEM is an EU funded (FP7) project contributing to the development of a regional strategic plan for research infrastructures devoted to archaeological sciences, digital heritage, and underwater archaeology and relevant technologies in the Eastern Mediterranean (<http://starc.cyi.ac.cy/stachem/stachem>).

The Cyprus Institute (www.cyi.ac.cy) is the coordinator of the STACHEM project. Partners include the Archaeological Research Unit of the University of Cyprus (<http://www.ucy.ac.cy/goto/archreun/en-US/HOME.aspx>) and the Institute of Nautical Archaeology (<http://inadiscover.com/>) at Texas A&M University. Further partner organizations are the Department of Archaeology at the University of Athens (<http://www.arch.uoa.gr/>) and the Research Center 'Athena' at the Cultural and Educational Technology Institute in Xanthi (<http://www.ceti.gr/>); the Kimmel Center for Archaeological Science at the Weizmann Institute (<http://www.weizmann.ac.il/kimmel-arch/home.html>); the Centre National de la Recherche Scientifique (<http://www.cnrs.fr/>) and the Ministero per I beni e le Attività Culturali (www.beniculturali.it).

The outcomes of the STACHEM project will include suggestions for joint trans-national activities, based on the exploration of opportunities for synergies and coordination, as well as a user-led assessment of needs, guidelines for good practices and directions for further infrastructure development.

Scientific Coordinator:

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**2nd STACHEM Regional Workshop on Infrastructures for Underwater
Archaeology
24th – 25th of February, Haifa, Israel**

The 2nd STACHEM Regional Workshop on Infrastructures for Underwater Archaeology follows the 1st STACHEM Regional Workshop on this subject which was successfully held in Athens on the 1st of December 2009. The main objective of the 2nd Regional STACHEM Workshop on Underwater Archaeology is to bring together leading experts in underwater archaeology from different countries in the Eastern Mediterranean region, towards an enhanced networking between the existing infrastructures in the region and towards the building of a community of users with joint trans-national activities. It is hoped that this workshop will foster the exchange of ideas, interaction and co-ordination of plans among the workshop participants and the STACHEM partners.

This workshop is part of the STACHEM project, funded by the European Commission under the Community's Seventh Framework Programme (Project Number 228130). However, the content of this conference programme reflects only the author's views and the Community is not liable for any use that may be made of the information contained herein.

Part 1 - 24th February 2010

Leon Recanati Institute for Maritime Studies, University of Haifa, Israel
Multipurpose building, Room no. 108

Schedule

09:00-09:30	Registration
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Introduction to STACHEM: Science and Technology in Underwater Archaeology

09:30-09:45	Welcome note STACHEM Coordinator Representatives (CyI – Franco Niccolucci and Kirsi Lorentz) STACHEM Partner Representatives (INA – Justin Leidwanger, ARU – Stella Demesticha) Local Host Representative: Ya’acov Kahanov Head of the Leon Recanati Institute for Maritime Studies, University of Haifa
09:45-10:00	Introduction to the STACHEM project (Science and Technology for Archaeology and Cultural Heritage in the Eastern Mediterranean) Franco Niccolucci and Kirsi Lorentz Science and Technology in Archaeology Reserach Center, The Cyprus Institute
10:00-10:15	The STACHEM project, workpackage 3: Coordinating infrastructures for underwater archaeology and technology James Delgado, Justin Leidwanger, and Kelby Rose Turkey, Institute of Nautical Archaeology

Session A: Monitoring coastal changes – Session chairs: J. Leidwanger, S. Demesticha

10:15-10:30	Remote sensing techniques explore sea level changes in archaeological sites Giorgos Papatheodorou and Maria Geraga Greece, University of Patras
10:30-10:45	Holocene sea levels changes in Israel based on archaeology, with an emphasis on the last 2,500 years Dorit Sivan Israel, University of Haifa

10:45-11:15	Coffee Break
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Session B: Laboratory and in-situ conservation of underwater cultural heritage: Advances, problems and potential – Session chairs: J. Kahanov, K. Lorentz

11:15-11:30	<p>Conservation of underwater cultural heritage. Theoretical and practical issues Theotokis Theodoulou Greece, Ephorate of Underwater Antiquities</p> <p>Periodical exhibitions of underwater antiquities at Niokastro, Pylos. A preliminary approach Angeliki Simossi Greece, Ephorate of Underwater Antiquities</p>
11:30-11:45	<p>Underwater Archaeology in Cyprus Eleni Loizidou and Stella Demesticha Cyprus, Department of Antiquities and Cyprus, University of Cyprus</p>
11:45-12:00	<p>The Institute of Nautical Archaeology in the 21st century: Focusing on preservation in situ and in the lab Asaf Oron, Justin Leidwanger and James Delgado Turkey, Institute of Nautical Archaeology</p>

Session C: Shallow water mapping and excavation– Session chairs: J. Leidwanger, S. Demesticha

12:00-12:15	<p>Excavations in shallow water/surf zone, methods, equipment, facilities and problems Amir Yurman Israel, University of Haifa</p>
12:15-12:30	<p>Shallow water survey in harbours and coastal sites in the Aegean and the Ionian Sea: methods and challenges Kalliopi Baika Greece, University of the Peloponnese</p>
12:30-12:45	<p>The prospects of GPR in geo-archaeological coastal and maritime research Yossi Salmon Israel, University of Haifa</p>

12:45-14:00	Lunch Break
14:15-14:45	Introduction to the Ma'agan Mikhael ship exhibition at the Hecht Museum Ya'acov Kahanov Israel, University of Haifa
15:00-15:20	Methods of analysis of underwater archaeological finds: techniques and results of 'near-site on time' XRF chemical compositional analysis of shipwrecks materials, analysis of marine sediments and X-radiography of concretions found in underwater excavations. Sariel Shalev Israel, University of Haifa
15:25-15:40	Visit to the conservation lab for ship hulls
15:45-16:00	Coffee break
16:00-	Round Table Discussion and Closing Remarks Chairs: F. Niccolucci, S. Demesticha, J. Leidwanger and K. Lorentz

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Part 2 – Akko, 25th of February 2010

- 09:00-10:30 Presentation of the Haifa Maritime Museum's exhibits, projects and facilities: Avshalom Zemer, Chief Curator of the Haifa Maritime Museum
- 10:30-11:10 Drive to Akko
- 11:15-14:00 Visit to conservation center and on-site presentation of current issues and advances in the ancient city of Akko: Shelley-Anne Peleg, Director, International Conservation Center Old Acre, and Ya'acov Schaffer, Israel Antiquities Authority
- 14:00-15:00 Lunch break
- 15:00-16:00 Introduction to the excavations currently underway at the Akko sea wall: Jacob Sharvit, Head of the Maritime Unit of the Israel Antiquities Authority
- 16:00-17:00 Return to Haifa

Organisers

Scientific Committee

Prof. Franco Niccolucci, Chair, STACHEM Coordinator (STARC/CyI)
Dr. Kirsi O. Lorentz, STACHEM Scientific Coordinator (STARC/CyI)
Dr. James Delgado, STACHEM Partner Representative (INA)
Dr. Stella Demesticha, STACHEM Partner Representative (ARU-UCY)
Justin Leidwanger, STACHEM Partner Representative (INA)

Organising Committee

Dr. Kirsi O. Lorentz, Chair, STACHEM Scientific Coordinator (STARC/CyI)
Justin Leidwanger, STACHEM Partner Representative (INA)
Dr. Stella Demesticha, STACHEM Partner Representative (ARU-UCY)
Dr. Noémi S. Müller, STACHEM Postdoctoral Fellow (STARC/CyI)

Local Organising Committee (University of Haifa)

Dr. Ya'acov Kahanov (RIMS)
Laura Cohen (RIMS)

Local Organising Committee (Israel Antiquities Authority)

Jacob Sharvit (IAA)
Sharon Ben-Yehuda (IAA)

The Cyprus Institute (CyI) is a non-profit, non-governmental research and educational institution with a scientific and technological orientation (www.cyi.ac.cy). The Cyprus Institute comprises several cross-disciplinary research centres, including the **Science and Technology in Archaeology Research Center (STARC)**, a research centre devoted to the development, introduction, and use of advanced science and technologies in archaeology and cultural heritage (<http://starc.cyi.ac.cy>).

The University of Cyprus (UCY) is an educational institution, established in 1989. The University is a vigorous community of scholars engaged in the generation and diffusion of knowledge (<http://www.ucy.ac.cy>). **The Archaeological Research Unit (ARU)** is part of the Faculty of Philosophy and placed in the Department of History and Archaeology and conducts and coordinates the research activities of the Department within the region.

The Institute of Nautical Archaeology (INA) is a non-profit private research institute affiliated with the Texas A&M University (<http://www.tamu.edu>). INA is a global leader in the field of underwater exploration and discovery. Its work includes some of the most significant archaeological discoveries of the past century. INA has pioneered technologies and fostered excellence in all aspects of nautical archaeology (<http://inadiscover.com/>).

The Leon Recanati Institute for Maritime Studies (RIMS) at the University of Haifa combines disciplines such as: underwater archaeology, coastal archaeology, maritime history, marine biology and marine resources, marine geology and coastal geomorphology (<http://maritime2.haifa.ac.il/eng/default.asp>). The Institute bridges between humanities, sciences and technology and conducts numerous cooperative research projects with other research institutions in Israel and abroad.

The Israel Antiquities Authority (IAA) is in charge of the country's antiquities and antiquity sites, their excavation, preservation, conservation, study and publication thereof, as well as the country's antiquity treasures (www.antiquities.org.il). The Israel Antiquities Authority preserves, conserves and studies the archaeological heritage of the country at the highest scientific level, and aims to increase public awareness and interest in the country's archaeological heritage.



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