



# ARS NAUTICA SEAFARING THROUGH THE AGES

## Summer School (3<sup>rd</sup> Course Workshop)

ARS NAUTICA – SEAFARING THROUGH THE AGES

NAUTICAL HERITAGE OF THE MEDITERRANEAN: RESEARCH, CONSERVATION AND VALORISATION

3 – 10 June 2017, Inter University Centre Dubrovnik, Croatia

**SATURDAY 3 JUNE 2017**

Arrival of the participants

Venue:

Inter-University Centre  
Don Frana Bulića 4, 20000 Dubrovnik, Croatia

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**SUNDAY 4 JUNE 2017**

Cultural heritage tour & Welcome reception

<b>10:00-14:00</b>	Cultural heritage tour of Dubrovnik
<b>14:00-16:30</b>	<b>Free time</b>
<b>16:30-17:00</b>	Welcome speeches <b>Giulia Boetto</b> , Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France) <b>Irena Radić Rossi</b> , University of Zadar, Departement of Archaeology, Zadar (Croatia) <b>Patrice Pomey</b> , Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)
<b>17:00-18:00</b>	<i>Aspects of the cultural history of Renaissance Dalmatia: Villa and Villeggiatura in Renaissance Dubrovnik</i> <b>Josip Belamarić</b> , Institute of Art History, Centre Cvito Fisković, Split (Croatia)
<b>18:00-19:00</b>	Welcome Reception of the Inter-University Centre
<b>19:30</b>	<b>Dinner</b>



# ARS NAUTICA SEAFARING THROUGH THE AGES

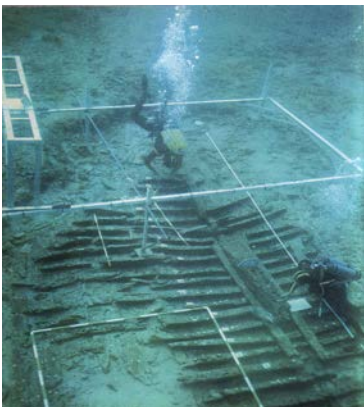
MONDAY 5 JUNE 2017

Thematic Unit 1 : The ship and its environment: technology and space of navigation

9:00-10:00	<i>Ships and shipbuilding in the Ancient Mediterranean</i> <b>Patrice Pomey</b> , Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)
10:00-11:00	<i>Ships, boats and harbours in the ancient Mediterranean</i> <b>Giulia Boetto</b> , Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)
11:00-11:30	<b>Coffee break</b>
11:30-12:30	<i>Ships and shipbuilding in the Middle Ages</i> <b>Eric Rieth</b> , LAMOP / Musée de la Marine, Paris (France)
12:30-13:30	<i>Digging in the sea of papers - Archival sources and the archaeological research: the Gnalčić Shipwreck case study</i> <b>Mauro Bondioli, Mariangela Nicolardi</b> , Institute for Maritime Heritage, Ars Nautica (Croatia)
13:30-15:00	<b>Lunch</b>
16:00-17:00	<i>Phoenician Shipwreck of Xlendi (Gozo, Malta, VIIe s. B.C.) - Results of the first two field campaigns 2014 and 2016</i> <b>Timoty Gambin</b> , University of Malta, Department of Classics and Archaeology, Imsida (Malta) <b>Jean-Christophe Sourisseau</b> , Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)

Thematic Unit 2 (part A): Valorisation of nautical heritage

17:00-18:00	<i>From the river to the museum: past and present of a Gallo-Roman shipwreck (Arles, France)</i> <b>Sabrina Marlier</b> , Musée départemental de l'Arles antique, Arles (France)
19:30	<b>Dinner</b>





# ARS NAUTICA SEAFARING THROUGH THE AGES

TUESDAY 6 JUNE 2017

Thematic Unit 2 (part B): Valorisation of nautical heritage

9:00-10:00

*The Viking Ship Museum of Roskilde*

**Morten Ravn**, The Viking Ships Museum, Roskilde (Denmark)

10:00-11:00

*The museum of Cesenatico and the valorisation of the Adriatic nautical tradition*

**Davide Gnola**, Museo della Marineria, Cesenatico (Italy)

11:00-11:30

Coffee break

Thematic Unit 3 (part A): The ship as reflection of a society

11:30-12:30

*The shipwreck of Gnalić (Gagliana Grossa, 1583); Archaeology of the Late Renaissance world*

**Irena Radić Rossi**, University of Zadar, Department of Archaeology, Zadar (Croatia)

12:30-13:30

*The wreck of the Amsterdam (1749); Archaeology of the European economy in the 18<sup>th</sup> century*

**Jerzy Gawronski**, University of Amsterdam / Department of the municipal Office of Monuments and Archaeology, Amsterdam (The Nederland)

13:30-15:00

Lunch

16:00-19:00

*Presentation of research projects*

*Trstenik 2015 – Preliminary results*

**Dave Ruff**, Texas A&M University, College Station (Texas, USA)

*Naval archaeology and navigation through the Stochades (France, Var, Mediterranean) during the Antiquity*

**Alex Sabastia**, Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)

*The twelve apostles: conception, outfitting, and history of 16<sup>th</sup> century Spanish galleons*

**José Luis Casaban**, Texas A&M University, College Station (Texas, USA)

*Iberian Bizcayan shipbuilding and the transition of a transnational network 1550-1650*

**Beñat Eguiluz Miranda**, University of Wales trinity Saint Davis, ForSEADiscovery project (United-Kingdom)

*The Use of Lead for the Protection of the Ships' Hulls on the Example of the 'Sv. Jerolim' Shipwreck (16<sup>th</sup> century)*

**Tena Festini**, University of Zadar, Department of Archaeology, Zadar (Croatia)

*Reconstruction of a regional Maritime Cultural Landscape through the naval vernacular architecture: focus on the southern coast of France and on Corsica*

**Hélène Botcazu**, Aix Marseille Univ, CNRS, LA3M, Aix-en-Provence (France)

19:30

Dinner





# ARS NAUTICA SEAFARING THROUGH THE AGES

WEDNESDAY 7 JUNE 2017

Thematic Unit 4: Nautical archaeology and ethnography in the digital era

<b>9:00-10:00</b>	<i>Rising to the Challenge of Deep Sea Wrecks</i> <b>Franca Cibecchini, Michel L'Hour</b> , Département des recherches archéologiques sous-marines et subaquatiques, Marseilles (France)
<b>10:00-11:00</b>	<i>Possibilities and limitations of numerical modelling of materials and environment in the nautical archaeology</i> <b>Smiljko Rudan</b> , University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb (Croatia)
<b>11:00-11:30</b>	<b>Coffee break</b>

**11:30-13:30** *Presentation of research projects*

*Studies of the wood of ancient shipwrecks and structures of the Adriatic Sea and South-eastern Europe: contribution to the study of the local shipbuilding traditions*

**Alba Ferreira Dominguez**, Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France) / Ecole française de Rome, Italy

*Kalverev Syd. A medieval ship-find from Storstrømmen, Denmark: description of fieldwork methods and post processing*

**Matko Čvrljak**, University of Zadar, Department of Archaeology, Zadar (Croatia) / The Viking Ships Museum, Roskilde, Denmark

*Production, trade and maritime transport of colouring materials based on post-medieval shipwreck of Gnalić*

**Katarina Batur**, University of Zadar, Department of Archaeology, Zadar (Croatia)

*Murano glass production of the 16<sup>th</sup> century in comparison with the glass finds from the shipwreck at islet of Gnalić near Biograd na Moru*

**Ines Šelendić**, University of Zadar, Department of Archaeology, Zadar (Croatia)

**13:30-15:00** **Lunch**

*Salt exploitation in the Eastern Adriatic in Classical Antiquity*

**Maja Grisonic**, University of Zadar, Department of Archaeology, Zadar (Croatia)

*The thermal development of maritime district of Ostia (Rome, Italy)*

**Marcello Turci**, Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)

Thematic Unit 4: Nautical archaeology and ethnography in the digital era

<b>17:00-18:00</b>	<i>Principles and methods of restitution of ancient shipwrecks of the Mediterranean: From cardboard to 3D models in nautical archaeology</i> <b>Pierre Poveda</b> , Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)
<b>18:00-19:00</b>	<i>Underwater robotics for the recording of shallow water archaeological sites</i> <b>Nikola Mišković</b> , University of Zagreb, Faculty of Electrical Engineering and Computing, Laboratory for Underwater Systems and Technologies
<b>19:30</b>	<b>Dinner</b>



# ARS NAUTICA SEAFARING THROUGH THE AGES

THURSDAY 8 JUNE 2017

Maritime Museum of Dubrovnik

Located on the first and second floor of Fort St John, the Maritime Museum focuses on the rich maritime history of the Republic of Dubrovnik. The exhibition halls trace the development of maritime trade and shipbuilding throughout the ages from numerous archaeological, historical and artistic documents. Particularly rich is the collection of models of ships and objects related to the maritime culture of Dubrovnik and its region.



## Discovering the ancient shipwrecks of Cavtat (collaboration with the Diving Centre Epidaurum)

The bay of Cavtat (ancient *Epidaurus* or *Epidaurum*), contains the remains of several ancient and modern shipwrecks. A steel cage protects a Late Roman shipwreck site, which can be visited through the Diving Centre Epidaurum.

The visit will allow participants to discuss the issue of the protection of underwater cultural heritage.





# ARS NAUTICA SEAFARING THROUGH THE AGES

FRIDAY 9 JUNE 2017

Thematic Unit 2 (part C): Valorisation of nautical heritage

9:00-10:00

*Publishing Nautical Archaeology in the 21<sup>st</sup> century*

**Miranda Richardson**, Nautical Archaeology Society / The International Journal of Nautical Archaeology (United-Kingdom)

10:00-17:00

*Presentation of research projects*

*African - Hispanic cargo shipwrecks in western Mediterranean (second half of the 3<sup>rd</sup> century AD – first half of the 4<sup>th</sup> century AD)*

**Sol Blasco**, Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)

*Transportation of Baetican olive oil and the Baetican olive oil industry in relation to the port system of Rome*

**Anna Danilova**, University of Bergen, Norway

11:00-11:30

**Coffee break**

*Traceology and Wood in Naval Archaeology*

**Axel Eeckman**, Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)

*A comparison between the Harbours of the East Mediterranean and the East China Sea in Hellenistic Period (Qin – Han Dynasty)*

**Shishao Wang**, Shanghai University of International Business and Economics

*Technical approaches for studying ships in the Caribbean Sea (from 16<sup>th</sup> to 18<sup>th</sup> centuries). Case study: the French fleet of Admiral Jean II d'Estrées wrecked in the Venezuelan territory*

**Yajaira Vargas Velasquez**, Aix Marseille Univ, CNRS, Min Culture & Comm, CCJ, Aix-en-Provence (France)

13:30-15:00

**Lunch**

*Seafaring in Eastern Mediterranean in the Early Middle Ages*

**Darko Kovačević**, University of Alexandria, Archaeological Department

Conclusion of the Summer School

17:00-18:00

*Archaeology and history of Dubrovnik*

**Domagoj Perkić**, Museums of Dubrovnik – Archaeological Museum, Dubrovnik (Croatia)

**Irena Radić Rossi**, University of Zadar, Department of Archaeology, Zadar (Croatia)

19:30

**Dinner**

SATURDAY 10 JUNE 2017 - Departure of the participants

