

# International Symposium on Occupational Scientific Diving

09-12 November, 2011  
Porto Cesareo, Lecce (ITALY)



# ISOSD2011



## 3<sup>rd</sup> International Symposium on Occupational Scientific Diving of ESDP

09-12 November, 2011 – Porto Cesareo,  
Lecce (Italy)



### Symposium Themes

Symposium organisers welcome oral presentations and posters on all fields of scientific diving research and training (science, maritime archaeology, scientific engineering, etc.). Special emphasis is on methods, techniques, and instrumentation in actual underwater fieldwork. In addition to scientific presentations, we encourage you to submit presentations of scientific diving methods, projects characterized by an important contribution of scientific diving, the role of Scientific Divers in MPAs management, etc.

#### Round tables

- European Scientific Diver: legislation and safety
- Appropriate training path for scientific divers focusing on the worldwide available working scenario

#### Venues & Travel info

The conference will take place at the hotel complex “**Isola lo scoglio**”, Porto Cesareo, Lecce, Italy ([www.isolaloscoglio.it](http://www.isolaloscoglio.it)).

The Hotel Lo Scoglio is located in Porto Cesareo, at about 20 km from Lecce. Lecce is easily achievable by highway and train from everywhere. The nearest airport is located in Brindisi (about 35 km north from Lecce), which is connected with the Airport City Terminal in Lecce by bus. However, there will be transportation services for attendants, either from the airport, or from Lecce (airport city terminal, train station) to the Hotel and back.

#### Organising committee

Massimo Ponti, University of Bologna, Italy  
Carlo Cerrano, University of Genova, Italy  
Antonio Terlizzi, University of Salento, Italy  
Giorgio Caramanna, The University of Nottingham, UK  
Rita Auriemma, University of Salento, Italy  
Carlo Beltrame, University of Venice, Italy  
Roberto Palozzi, University of Tuscia, Italy  
Stefano Acunto, International School for Scientific Diving, Italy  
Fabrizio Antonioli, ENEA, Italy

The official symposium website is: [www.aioss.info](http://www.aioss.info)

#### Scientific secretariat

AIOSS c/o CIRSA, Università di  
Bologna  
Via S. Albero 163, 48123 Ravenna  
(Italy)  
[postmaster@aioss.info](mailto:postmaster@aioss.info)  
Tel.+39 0544 937400 (office hours)  
Fax: +39 0544 937411

#### Symposium secretariat

Antheus s.r.l. c/o Di.S.Te.B.A  
Università del Salento  
Ecotekne, Via Monteroni 73100 Lecce  
(Italy)  
[antheus@unisalento.it](mailto:antheus@unisalento.it)  
Tel/Fax +39 0832298803 (office hours)



# ISOSD2011



## General program

| Date       | Time                 | Session   | Title   |
|------------|----------------------|---|---|
| 09/11/2011 |                      | Arrivals  |   |
|            | 16:00                | <b>Dive (optional)</b>  |   |
|            | 20:00                | <b>Dinner</b>   |   |
| 10/11/2011 | 08:00                | <b>Breakfast</b>  |   |
|            | 08:30                | <b>Registration</b>   |   |
|            | 09:00                | <b>Welcome</b>  | <i>Local authorities and ESDP representative</i>  |
|            | 09:30                | <b>Biology and ecology</b>  | <b>Scientific diving techniques to experimentally approach bio-ecological processes</b> |
|            | 11:00                | <b>Coffee break</b>   |   |
|            | 11:40                | <b>Biology and ecology</b>  | <b>Scientific diving techniques to experimentally approach bio-ecological processes</b> |
|            | 13:00                | <b>Light lunch</b>  |   |
|            | 14:20                | <b>Biology and ecology</b>  | <b>Scientific diving techniques to experimentally approach bio-ecological processes</b> |
|            | 15:40                | <b>Coffee break</b>   |   |
|            | 16:20                | <b>Geology</b>  | <b>Scientific diving as tool in remote or difficult places</b>                          |
|            | 18:00                | <b>Round Table 1</b>  | <b>European Scientific Diver: legislation and safety</b>                                |
| 11/11/2011 | 08:00                | <b>Breakfast</b>  |   |
|            | 09:20                | <b>Innovation &amp; Technology</b>  | <b>New Technology in Underwater Science</b>   |
|            | 11:00                | <b>Coffee break</b>   |   |
|            | 11:30                | <b>Poster session</b>   | and ITN ESDTN internal meeting  |
|            | 12:45                | <b>Light lunch</b>  |   |
|            | 14:00                | <b>Archaeology</b>  | <b>Maritime archaeology and coastal landscape</b>                                       |
|            | 16:10                | <b>Coffee break</b>   |   |
|            | 16:40                | <b>Archaeology</b>  | <b>Maritime archaeology and coastal landscape</b>                                       |
| 18:20      | <b>Round Table 2</b> | <b>Appropriate training path for scientific divers focusing on the worldwide available working scenario</b> |   |
| 20:00      | <b>Dinner</b>        |   |   |
| 12/11/2011 | 08:00                | <b>Breakfast</b>  |   |
|            | 10:00                | <b>Dive (optional)</b>  |   |
|            |                      | Departures  |   |

# ISOSD2011

Thursday 10/11/2011



|       |  |   |
|-------|--|---|
| 08:00 | <b>Breakfast</b>                               |   |
| 08:30 | <b>Registration</b>                            |   |
| 09:00 | <b>Welcome</b>                                 | <i>Local authorities</i>  |
| 09:20 |  | <i>Philipp Fischer ESDP Steering Committee</i>  |
| 09:30 | <b>Biology and ecology</b>                     | <b>Scientific diving techniques to experimentally approach bio-ecological processes</b>   |
|       | <i>Chairmen: M. Sayer &amp; A. Terlizzi</i>    |   |
| 09:30 | <i>Invited speaker</i>                         | <b>You can learn a lot by just looking: diving and marine biology - Prof. Ferdinando Boero - University of Lecce</b>  |
| 10:00 | Carlo Cerrano                                  | Ecosystem engineers in the mesophotic coralligenous assemblages   |
| 10:20 | Lorenzo Bramanti                               | The application of mixed gas closed circuit rebreathers in experimental coral ecology   |
| 10:40 | Massimo Ponti                                  | Manipulative field experiments to investigate the ecology of the coralligenous assemblages  |
| 11:00 | <b>Coffee break</b>                            |   |
| 11:40 | <b>Biology and ecology</b>                     | <b>Scientific diving techniques to experimentally approach bio-ecological processes</b>   |
|       | <i>Chairmen: M. Weber &amp; M. Ponti</i>       |   |
| 11:40 | Antonio Terlizzi                               | Experimental monitoring of human impacts in subtidal systems  |
| 12:00 | Simone Modugno                                 | Three years of observation about the benthic marine macrofauna and fish composition on the artificial underwater barriers off the Emilia-Romagna coast (north Adriatic Sea) |
| 12:20 | Ken Collins                                    | Black bream ( <i>Spondyllosoma cantharus</i> ) nest studies   |
| 12:40 | Roberto Palozzi                                | A conservation ecology survey on a karst sink-hole in Central Italy   |
| 13:00 | <b>Light lunch</b>                             |   |
| 14:20 | <b>Biology and ecology</b>                     | <b>Scientific diving techniques to experimentally approach bio-ecological processes</b>   |
|       | <i>Chairmen: K. Collins &amp; C. Cerrano</i>   |   |
| 14:20 | Martin Sayer                                   | Seaweed and oomycete benthic diversity in the Canadian marine Arctic: managing scientific diving operations in a remote location  |
| 14:40 | Christian Lott                                 | Habitat and physiology of a chemosynthetic marine worm – the contribution of field research and its constraints   |
| 15:00 | Stefano Acunto                                 | Monitoring the recovery of Maldivian reefs ten years after the mass mortality of the 1998   |
| 15:20 | Miriam Weber                                   | SEDCOR: How sediment influences coral calcification   |
| 15:40 | <b>Coffee break</b>                            |   |
| 16:20 | <b>Geology</b>                                 | <b>Scientific diving as tool in remote or difficult places</b>  |
|       | <i>Chairmen: M. Schipek &amp; G. Caramanna</i> |   |
| 16:20 | Franco Tassi                                   | The 2011 seismic crisis at Santorini (Greece): new insights from fluid geochemistry of submarine and subaerial emissions  |
| 16:40 | Giorgio Caramanna                              | Scientific diving techniques for the study of flooded sinkholes in Italy  |
| 17:00 | Marco Ponopal                                  | Continuous measurement of gas discharge at Point 21, Panarea, Italy   |
| 17:20 | Mandy Schipek                                  | Gas geochemistry at the submarine volcano Panarea, Italy - results from 2006 to 2011  |
| 17:40 | Alessio Rovere                                 | Scuba scientific diving and beach monitoring: examples from Liguria (NW Mediterranean Sea)  |
| 18:00 | <b>Round Table 1</b>                           | <b>European Scientific Diver: legislation and safety</b>  |
|       | <i>Chairmen: M. Sayer &amp; G. Caramanna</i>   |   |
| 20:00 | <b>Social Dinner</b>                           |   |

# ISOSD2011

Friday 11/11/2011



|       |  |  |
|-------|--|--|
| 08:00 | <b>Breakfast</b>                                 |  |
| 09:20 | <b>Innovation &amp; Technology</b>               | <b>New Technology in Underwater Science</b>  |
|       | <i>Chairmen: C. Lott &amp; A. Norro</i>          |  |
| 09:20 | Elaine Azzopardi                                 | Diving computers: seeing isn't always believing  |
| 09:40 | Arne Sieber                                      | Head up display for full face masks  |
| 10:00 | Benjamin Kuch                                    | GSM/GPS diving computer for underwater tracking and mapping  |
| 10:20 | Alain Norro                                      | Marine habitat mapping ground truth. Testing the position accuracy of a geo-localization system used for <i>in-situ</i> sampling against a 'state of the art' acoustic USBL device |
| 10:40 | Marco Palma                                      | From underwater surveys to interactive virtual 3D visualization: new tools for spatial analyses and coastal management   |
| 11:00 | <b>Coffee break</b>                              |  |
| 11:30 | <b>Poster session</b>                            | <b>and ITN ESDTN internal meeting</b>  |
| 12:45 | <b>Light lunch</b>                               |  |
| 14:00 | <b>Archaeology</b>                               | <b>Maritime archaeology and coastal landscape</b>  |
|       | <i>Chairmen: M. Anzidei &amp; G. Mastronuzzi</i> |  |
| 14:00 | <i>Invited speaker</i>                           | <b>Prof. Giuliano Volpe - Rector of the University of Foggia</b>   |
| 14:30 | Essi Keskinen                                    | Cultural heritage in Hossa area  |
| 14:50 | Vladimir Kovačić                                 | A submerged building in the Busuja bay (Poreč, Croatia)  |
| 15:10 | Ida Koncani Uhač                                 | Savudrija (Umag, Croatia): a research programme for the harbour and the coastal landscape in the Roman age   |
| 15:30 | Saso Poglajen                                    | Multibeam application in underwater archaeology  |
| 15:50 | Rita Auriemma                                    | The Marano Lagoon landscape during the Roman age: a study in progress  |
| 16:10 | <b>Coffee break</b>                              |  |
| 16:40 | <b>Archaeology</b>                               | <b>Maritime archaeology and coastal landscape</b>  |
|       | <i>Chairmen: R. Auriemma &amp; G. Volpe</i>      |  |
| 16:40 | Angelo Cossa                                     | Coastal landscapes archaeology in southern Apulia. Ancient semi-submerged structures behind the modern harbour in Otranto  |
| 17:00 | Cristiano Alfonso                                | The ancient coastal landscape of Marine Protected Area of Porto Cesareo (Lecce, Italy): recent researches  |
| 17:20 | Giuseppe Mastronuzzi                             | New archaeological evidences of relative sea level changes along the coastlines of Apulia (southern Italy)   |
| 17:40 | Maurizio Simeone                                 | Sea level variations since Roman time and coastal landscape modifications in the Marine Protected Area "Gaiola Underwater Park"  |
| 18:00 | Claudia Pizzinato                                | Underwater archaeological parks: some ideas for the underwater archaeological sites of Leptis Magna and Apollonia (Libya)  |
| 18:20 | <b>Round Table 2</b>                             | <b>Appropriate training path for scientific divers focusing on the worldwide available working scenario</b>  |
|       | <i>Chairmen: A. Sieber &amp; S. Acunto</i>       |  |
|       | Planned interventions: Sieber, Acunto, Ponti     |  |
| 20:00 | <b>Dinner</b>                                    |  |