

**MARINE BOARD - EUROPEAN SCIENTIFIC DIVING PANEL  
(MB-ESDP)**

Sixth Meeting – 17 June 2011

ESF-COST Office, Brussels

MINUTES

|   |  | ACTIONS  |
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| Present   | <p>JP Féral (France), M Sayer (UK), A Carbonnière (ESF-MB), A Norro (Belgium), P Kekäläinen (Finland), G Caramanna (Italy/UK)</p> <p>M Vucas (Lithuania) - observer<br/>P Fischer (Germany) – part of the meeting<br/>R Lindblom (Sweden) – <i>via</i> video-conference 1000-1300</p>  |  |
| 1. Minutes of last meeting and updates on actions | <p><i>Approval of the last meeting report (fifth meeting – 20 January 2011)</i></p> <p>ACTIONS from last meeting –</p> <p>Literature database of scientific diving publications. Need to agree a format/software. Problems so far with identifying a server or shared resource to host the database. Finland has started the process of collating the literature outputs achieved using scientific diving (SD) and the idea is to combine the Finnish database with a larger EU initiative. Action is ongoing Pirkko</p> <p>Joint ESDP/AAUS meeting is planned to be held in 21-28 October 2013 in Curacao (Duth Antilles). This will be ISOSD4 jointly with the AAUS scientific meeting. A Memorandum of Understanding now exists between the two organisations (attached). The NIOZ programme acropora (<a href="http://www.acroporanet.nl">www.acroporanet.nl</a>) is based in Curacao. ESF funding has been examined for supporting early career scientists and invited speakers; will seek clarification as to whether our bid is applicable to the ESF call.</p> <p>Database on vessels supporting scientific diving – Aurélien will</p> | <p>PIRKKO: To continue examining how a literature database can be managed/hosted</p> <p>MARTIN: To keep ESDP informed of progress on joint ESDP/AAUS meeting; to apply for ESF funding if applicable<br/>AURÉLIEN: to check with ESF if this meeting is applicable</p> <p>AURÉLIEN: to</p> |

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|  | <p>send a request out to complete a database form.</p> <p>The scientific diving database was not discussed because Philipp was not present for much of the meeting – this will be addressed again at the next meeting</p> <p>Diving from research vessels. Alain has sent the Belgium guidelines; Philipp is working on a revision. The final version will be circulated within the ESDP with a target for approval by email or at least by the time of the next meeting. When agreed, to be sent to EuroFLEETs.</p> <p>Information of how to develop a national committee. Still ongoing; to be completed by Aurélien over the summer for delivery by the next ESDP meeting.</p> <p><i>WG1 SD contribution to address marine grand challenges</i> – completed. Document was released to the Marine Board and approved. It is named ESDP Consultation Document number 2</p> <p><i>WG2 – table on SD training</i>; still ongoing – call for all members to fill in the document <b>before end of June</b>. Final version to be circulated; when agreed, to be delivered to the marine Board for approval.</p> <p>ESDP membership –<br/> <i>Portugal</i> – progress being made but limited information at this time to ESDP<br/> <i>Slovenia</i> – now have a national committee for scientific diving.<br/> <i>Lithuania</i> – attended a joint meeting with Finland committee and Lithuania are interested in being associated with the ESDP. Update: At present, there is a national archaeological diving association; science is moving toward developing a national committee based on the ESD/AESD framework.<br/> <i>Estonia/Latvia</i> – tentative links exist. Ongoing efforts to establish links.</p> <p>Updates on COST action “BioDive” – second proposal was not funded and some of the reasons for this were discussed (although noted that some of the reviewers comments conflicted with those obtained for the first proposal). It was considered that there was an increased need to focus more on the scientific objectives and the expected impacts. However,</p> | <p>complete a database on vessels supporting SD</p> <p>ALAIN/PHILIPP:<br/>To complete and circulate guidelines on SD from research vessels</p> <p>AURÉLIEN: to complete information on how to develop a national committee for SD</p> <p>ALL: to complete the online form on SD training by end of June</p> <p>PHILIPP: to draft a new COST proposal with the emphasis shifted to work examining impacts in complex</p> |
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|   | <p>there was interest to submit again highlighting the scientific impact more. Intend to shift the emphasis more toward impacts in complex underwater environments. Philipp to redraft the proposal with a new emphasis and circulate within the group.</p> <p>ESDTN proposal to Marie Curie was not successful. However, it received good feedback with a score close to succeeding so will resubmit again. Open call for other partners to join the resubmission. Tentative suggestion that a meeting to discuss the resubmission should happen at the ISOSD3 in Italy.</p> <p>WG MPAs – ESDP to be kept informed. Possible requirement for ESDP to develop standard techniques for in situ monitoring.</p> <p>The ESDP SD database redesign is ongoing</p> <p>ESDP brochure publication costs would have to come from the partners. Design of A4 3-folded leaflet and publication would be less than €1000. Ongoing.</p> <p>Website – links to National Committee websites. To be updated as necessary – send links to Aurélien.</p>  | <p>u/w environments.<br/>Draft to be circulated for comment.</p> <p>ALL: check National Committee weblinks on ESDP website</p> |
| <p>2. National updates and international interactions</p> | <p>ISOSD3 organised by the Italian Association for Scientific Divers (AIOSS) – attach flyer. ESDP members to be encouraged to circulate the flyer widely (attached). Noted that the deadline for abstract submissions was <b>01 July 2011</b></p> <p>Joint group working on subtidal CO<sub>2</sub> emissions (ocean acidification) – Universities of Nottingham, Plymouth and the Italian SD committee. Diving is all based on the ESD/AESD framework. Hope to publish a method paper on how to measure/monitor gases <i>in situ</i>.</p> <p>National updates:<br/><i>Sweden</i> - New diving regulations for all professional divers introduced on 1<sup>st</sup> July 2011. Scientific diving is now specifically detailed and the European standards are also now recognised in the Swedish diving regulations. The regulations also detail the duties of the diving supervisor who must hold the same certificates as the divers. Five diving levels based on depth and equipment with additional work modules on top of the basic training; for science the work modules are the ESD and AESD modules. Training/certification route is S-30 to ESD to Diving Supervisor course to AESD. ESD/AESD</p> | <p>ALL: to publicise the ISOSD3 as widely as possible</p>  |

certification is co-ordinated through the Swedish scientific diving committee; the diving and dive supervisor courses are national courses co-ordinated by the Swedish armed forces. Foreign scientific divers can dive in Sweden with the ESD/AESD qualifications. ESD is equivalent to the Swedish S-30 (SCUBA to depth of 30m) – also equivalent to the IDSA level 1 certificate. Medical requirements – at this time, the medicals of the other country would need to be examined by a Swedish doctor – there was some discussion on this matter.

Roger reported on how easy was it for a Swedish ESD/AESD diver to travel within EU. Accepted in Belgium, Finland, France, Germany, Greece, Ireland, Italy, Norway, Portugal, Sweden, UK. Not accepted, at present: Cyprus, Israel, Poland, Turkey (although many of the countries not accepting, have no legislation for professional diving and will/may accept recreational standards instead).

*France* – new legislation introduced in 2011 for professional diving with specific mention of scientific diving. For scientific diving, the ESD and AESD standards are now recognised. The legislation will be fully endorsed by the end of 2011. The medical examination has been reduced to every year, or every two years. Use of decompression computers is also now permitted; the make and model of computer can be determined by the research institute.

*Italy* – There is some conflict between what is the national law and some regional interpretations. The ESD and AESD framework is recognised at the national level but some organisations interpret it differently. Ongoing with updates expected.

*Finland* – No significant changes. The committee have started an initiative to promote scientific diving in Finland to the wider science community.

*Belgium* – Completed updating peoples qualifications to make sure all existing ESD/AESD equivalent divers now comply with the new standards. An initiative to create a specific regulation for scientific diving and move SD from the Labour ministry to the science ministry is intended but complicated by the lack of any formal government in Belgium. Running training courses in September plus courses for offshore SD.

*UK* – ESD and AESD are recognised diving qualifications in UK law. Some universities have introduced new SD training courses that are based on the ESD standards. Students will

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|                               | <p>obtain the ESD certificate if they complete the course (i.e. not obtained through SD experience).</p> <p><i>Lithuania</i> – At present, most SD are trained in Finland. Before the SD certificate obtained only acknowledged the training; suggestion that this should now be certified using the ESD or AESD cards. However, now considered important that the training should be based on the ESD/AESD framework. Possible national committee may be established – under consideration as archaeologists have based their diving on the CMAS standards.</p> <p><i>Medicals</i> – some discussion on what medicals are acceptable in different countries. It was acknowledged that there was no standard medical certificate across Europe and that this was a highly complex and generic problem for all forms of professional diving. Appears to be more straightforward if the national medical certificate conforms to the EDTC equivalencies. Aurélien to compile national information on medical requirements.</p> <p><i>Proposed European Marine Biological Research Centre (EMBRC)</i> - seeking to establish a joint diving group between SAMS (UK), CNRS Roscoff (F) and AWI (DE). If successful, all diving to be based on the ESD/AESD framework. Diving has also now been added as an accepted infrastructure cost in ASSEMBLE-2.</p> <p><i>Marine Board update</i> – A number of changes to Marine Board membership. The following organisations have joined: BELSPO, Marine University of France (a consortium of nine “marine” universities), NIOZ (Dutch marine research organisation), The Croatian Institute of Oceanography and Fisheries (IZOR).</p> <p><i>Cyprus</i> – Plan to start SD courses based on the ESD standards. Martin to write to the Cyprus contact to make sure that any SD course is based on teaching scientists – can’t make a SD out of a non-scientist.</p> | <p>AURÉLIEN: to compile national information on medical requirements</p> <p>MARTIN: to write to Cyprus explaining the requirements for SD training</p> |
| <p>3. ESDP Review Process</p> | <p><i>Timing</i> – Review will take place in 2011. The terms of reference for the review committee were sent out by AC. The review committee will meet Q4 2011 to consider the ESDP report. The review will be submitted to the Marine Board Executive Committee for presenting to the Marine Board at their Spring 2012 Plenary Meeting.</p>   |  |

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|                          | <p>The evaluation report must not be more than 10 pages but with annexes. Must be complete by September/October for the Q4 review committee.</p> <p><i>Discussion of the ESDP Self Evaluation Report (SER) –</i></p> <ol style="list-style-type: none"> <li>1. Mission and objectives<br/>Aurélien has compiled mission statement and objectives (taken from the COST report).</li> <li>2. Membership, structure and history<br/>Aurélien has compiled this from previous documents. Decided that the membership levels present a very complex structure that was established before SD became a Panel. It was considered that the membership levels suggest that we are being exclusive rather than being inclusive. There was a suggestion that the emphasis on the type of membership should be diluted. History of the Panel discussed and agreed.</li> <li>3. Overview of activities and highlights<br/>Aurélien has collated the main highlights of ESDP since its establishment in 2008.</li> <li>4. Relationships, synergies and influence/impact in the context of the marine ERA<br/>Need to give examples of where SD fits into the science directions of the Marine Board members. Links to external organisations were discussed.</li> <li>5. Panel Self-Evaluation (SWOT analysis)<br/>Strengths, Weaknesses, Opportunities, Threats – were discussed and revised.</li> <li>6. Perspectives<br/>Aurélien has collated a first draft of the ESDP perspectives. These will be circulated for comment.</li> <li>7. Conclusions<br/>Emphasise benefits that the formal recognition of SD as a panel of the MB has created.</li> </ol> <p>The SER draft will be tidied up by Aurélien for circulation in June/July for replies by end of August.</p> | <p>AURÉLIEN: to draft the ESDP SER for circulation in July with deadline for comments back in Aug/Sept</p> |
| 4. Miscellaneous         | MS highlighted that UK sent divers to Finland this year (March) for under-ice training.   |  |
| 5. Date of next meetings | <p>Informal meeting at ISOSD3 for some in November 2011</p> <p>Next formal meeting of ESDP set for 03 February 2012 in Brussels (possibly at MUMM; Alain to investigate the possibility of diving NEMO33 on 02 Feb)</p>   | <p>ALAIN: to investigate a dive at NEMO33 the day before our next</p>                                      |

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|  | July 2012 meeting of ESDP tentatively set to be held in<br>Marseilles | formal meeting |
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## SUMMARY OF ACTION POINTS

- PIRKKO: To continue examining how a literature database can be managed/hosted
- MARTIN: To keep ESDP informed of progress on joint ESDP/AAUS meeting; to apply for ESF funding if applicable
- AURÉLIEN: to check with ESF if this meeting is applicable
- AURÉLIEN: to complete a database on vessels supporting SD
- ALAIN/PHILIPP: To complete and circulate guidelines on SD from research vessels
- AURÉLIEN: to complete information on how to develop a national committee for SD
- ALL: to complete the online form on SD training by end of June
- PHILIPP: to draft a new COST proposal with the emphasis shifted to work examining impacts in complex u/w environments. Draft to be circulated for comment.
- ALL: check National Committee weblinks on ESDP website
- ALL: to publicise the ISOSD3 as widely as possible
- AURÉLIEN: to compile national information on medical requirements
- MARTIN: to write to Cyprus explaining the requirements for SD training
- AURÉLIEN: to draft the ESDP SER for circulation in July with deadline for comments back in Aug/Sept
- ALAIN: to investigate a dive at NEMO33 the day before our next formal meeting

## MEMORANDUM OF UNDERSTANDING

2013 AAUS/ESDP Scientific Diving Symposium

Co- Sponsors: American Academy of Underwater Sciences  
European Scientific Diving Panel

Co-Chairs: Michael A. Lang, Smithsonian Institution  
Martin D.J. Sayer, NERC National Facility for Scientific Diving

Location: Curaçao, Netherlands Antilles

Dates: October 21-28, 2013

The American Academy of Underwater Sciences and the European Scientific Diving Panel agree to co-host and convene the AAUS/ESDP Scientific Diving Symposium, Oct. 21-28, 2013 in Curaçao. The information below is subject to change per mutual agreement. AAUS and ESDP agree to the appointment of co-chairs Michael A. Lang and Martin D.J. Sayer for the conduct and representation of mutual interests in this scientific event.

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Christian M. McDonald, President  
American Academy of Underwater Sciences

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Jean-Pierre Feral, Chairman  
European Scientific Diving Panel

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Michael A. Lang, President-Elect  
American Academy of Underwater Sciences

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Martin D.J. Sayer, Vice Chair  
European Scientific Diving Panel

### **Background:**

The mission of the American Academy of Underwater Sciences (AAUS) is to facilitate the development of safe and productive scientific divers through education, research, advocacy, and the advancement of standards for scientific diving practices, certifications, and operations. The European Scientific Diving Panel (ESDP) has, since 2008, acted as a scientific diving operational platform in Europe seeking to advance underwater scientific excellence and to promote and implement a practical support framework for scientific diving related activities.

There are commonalities in the aims and objectives of both organizations, which represent a considerable number of occupational scientific divers. Underwater scientific research is often conducted on an international scale. This symposium convenes scientists of multiple nationalities in an attempt to reduce insularity, encourage exchange of ideas and operational protocols, and expand the world-wide network of scientific divers. This joint symposium offers the ideal platform, through the ability to invite selected presenters, to highlight research results in high-impact journals that could otherwise not have been accomplished without placing the trained scientific eye in the underwater environment.

The precedent for successful international meetings occurred with the AAUS/CMAS Joint International Scientific Diving Symposium, Oct. 31 - Nov. 3, 1985 at Scripps Institution of



Oceanography in La Jolla, CA (Mitchell, 1985) and during the “International Year of the Oceans” the AAUS/CAUS Joint Scientific Diving Symposium, Oct. 8-11, 1998 at Simon Fraser University in Vancouver, BC (Hartwick et al., 1998).

**Meeting location:**

There are multiple reasons for selecting the island of Curaçao as symposium venue:

1. The combination of a location that is relatively close and cost-effective for attendance of AAUS membership (approximately 75% of registrants) and is European territory, which may facilitate obtaining EU financial support;
2. A relatively medium-cost location in terms of air travel and accommodation with direct flights from several US and EU locations;
3. A number of US and EU-based scientific diving research programs are already operational in Curaçao;
4. Existing links with CARMABI and the Curaçao Seaquarium, developed in 1984 on the ocean front at Bapor Kibra.
5. The opportunity for organized symposium diving field trips on Curaçao, Klein Curaçao, and Bonaire, in addition to opportunities with Nuytco-designed and built Substation Curaçao submersible.

**Venues:**

The following facilities with state-of-the-art convention/meeting facilities will be evaluated and a selection made based on competitive package offers of availability, facilities costs and preferred accommodation rates for attendees:

- Renaissance Curacao Resort & Casino
- Club Santa Catharina Convention Center
- Curacao Marriot Beach Resort & Emerald Casino
- Hilton Curacao
- Kura Hulanda Meeting Rooms & Business Center
- Plaza Hotel Curacao

**Transportation:**

Return flights from central Europe cost approximately € 800 to € 1050 Euro and US flights from main city hubs range from \$630 to \$1100 USD. Curaçao has a modern international airport served by a number of airlines with daily non-stop air services from the U.S., and daily flights to and from the Netherlands.

To/from North America: American Airlines; Continental Airlines; Delta Airlines

To/from Europe: KLM Royal Dutch Airlines; Martinair; Arkefly

To/from Latin America: Aires; Avianca; Surinam Airways

**Funding:**

The symposium budget will be largely attendee-registration based, in line with previous symposium fee structures, with an approximate target audience of 120-150 AAUS and 50-70 EU attendees (total 170-220). Concurrently, potential sources of external funding will be sought in the US and EU to support specific symposium elements and invited speakers including, but not limited to, the European Science Foundation, National Science Foundation, Natural Environment Research Council, European Cooperation in Science and Technology, Smithsonian Institution, Organization of American States, and Latin American NGOs. Requests for private and appropriate commercial sponsorship may also be considered.

**References:**

- Mitchell, C.T., ed. 1985. Proceedings of the Joint International Scientific Diving Symposium, Oct. 31-Nov. 3, 1985, La Jolla, California. Costa Mesa: American Academy of Underwater Sciences. 330 pp.
- Hartwick, E.B., E. Banister, and G. Morariu, eds. 1998. Diving for Science...1998. Proceedings of the AAUS 18<sup>th</sup> Annual Scientific Diving Symposium in Association with the Canadian Association for Underwater Science Annual Meeting, Oct. 8-11, 1998. Vancouver, BC: Simon Fraser University. 117 pp.



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

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

Organised by Italian Association for Scientific Divers (AIOSS), the Italian member of the European Scientific Diving Panel (ESF-MB-ESDP), in collaboration with Federation of Underwater Archaeologist (FAS), with the patronage of the Porto Cesareo MPA.

### 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.

#### Topics of the oral sessions

##### **Biology and ecology: Scientific diving techniques to experimentally approach bio-ecological processes**

Aquatic biologists and ecologists are concerned about very different types of researches. Some study areas are based on high observational skills and on descriptive/mensurative approaches; some require manipulative experiments to define cause/effect relationships at a broad range of biotic organisations and environmental interactions. This session will focus on the latter approach, where scientific diving represents often the solely, way to carry out such studies.

##### **Geology: Scientific diving as tool in remote or difficult places**

Scientific diving techniques represent an important research tool for geologist when surface or remote systems are not applicable or reliable. Coastal environments, lakes, caves are just a few examples of areas where scientific diving can be used. This session welcomes presentations of underwater studies where scientific diving represents a valuable way of data collection and survey, especially in otherwise inaccessible places.

##### **Archaeology: Maritime archaeology and coastal landscape**

The repertoire of the archaeological evidences, which are currently underwater due to the variations of sea level, is quite large. When they are used with a precise methodological approach, some artefacts today submerged can be significant markers of sea level changes and can give us interesting details to support the reconstruction of both the ancient coastal lines and the patterns of the coastal settlement. This session aims to focus interdisciplinary research works in the perspective of the *geoarchaeology* or *human ecology*: “an integrated way of understanding humans in dynamic landscapes” (Barker & Bintcliff, 1999).

#### Round tables

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



## Venues

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

Hotel Lo Scoglio quality and tradition are acknowledged by some of the most important international travel guides such as Michelin Guide and Le Guide du Routard.

The hotel is built in Mediterranean style and has 45 rooms some of which are placed in the garden and near our private shore. All rooms have private bathroom with hair-dryer, satellite TV, air conditioning, minibar, and central heating.

The private shore is equipped with beach-umbrellas and mattresses.

## Travel info

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.



## Contact information

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

### Registration enquiries:

### 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)

## 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  
Roberto Palozzi, University of Tuscia, Italy  
Stefano Acunto, International School for Scientific Diving, Italy  
Fabrizio Antonioli, ENEA, Italy



## Important dates

- 1<sup>st</sup> July 2011 Deadline for Abstract submission
- 15<sup>th</sup> July 2011 Notification of paper acceptance
- 2<sup>nd</sup> September 2011 Deadline for early registration
- late registration until space available.

## Preliminary program

| Date           | Time      | Activities                      |
|----------------|-----------|---------------------------------|
| Wed 09/11/2011 | Afternoon | Arrivals (transfer)             |
|                | 16:00     | <a href="#">Dive (optional)</a> |
|                | 20:00     | Dinner                          |
| Thu 10/11/2011 | 08:00     | Breakfast                       |
|                | 09:00     | <a href="#">Welcome</a>         |
|                | 09:30     | <a href="#">Invited Speaker</a> |
|                | 10:15     | <a href="#">Conference</a>      |
|                | 11:00     | Coffee break                    |
|                | 11:15     | <a href="#">Conference</a>      |
|                | 13:00     | Light lunch                     |
|                | 14:00     | <a href="#">Conference</a>      |
|                | 16:30     | Coffee break                    |
|                | 17:00     | <a href="#">Conference</a>      |
|                | 18:30     | <a href="#">Round Table</a>     |
| Fri 11/11/2011 | 20:00     | Dinner                          |
|                | 08:00     | Breakfast                       |
|                | 09:00     | <a href="#">Conference</a>      |
|                | 11:00     | Coffee break                    |
|                | 11:15     | <a href="#">Conference</a>      |
|                | 13:00     | Light lunch                     |
|                | 14:00     | <a href="#">Conference</a>      |
|                | 16:30     | Coffee break                    |
|                | 17:00     | <a href="#">Conference</a>      |
|                | 18:30     | <a href="#">Round Table</a>     |
|                | 20:00     | Social Dinner                   |
| Sat 12/11/2011 | 08:00     | Breakfast                       |
|                | 10:00     | <a href="#">Dive (optional)</a> |





## Directions for authors for abstract submission

### Abstracts

Symposium language is English. Please prepare your abstract according to the format in the Microsoft Word template (online available at [www.aioss.info](http://www.aioss.info)) taking care to keep within the 250 words limit for the body of your abstract. Submit the abstract by e-mail to [antheus@unisalento.it](mailto:antheus@unisalento.it) prior to the deadline **1<sup>st</sup> July 2011**.

You will receive an email containing a letter with committee decision by 15<sup>th</sup> July 2011.

The abstracts will be distributed to the participants as digital PDF book.

### Formatting guidelines

Symposium language is English. Oral presentations are not required to follow strict scientific guidelines, and may be in form of image slideshows, video, etc.

- Powerpoint (up to 2003), PDF up to 1024x768 pixel (XGA)
- video file formats: WMV, AVI (please inform us about the codec you used), MOV
- file size up 50MB (exemptions for presentations with embedded movies)
- time 10 mins & 5 mins discussion, altogether 15 mins.

Posters should be format portrait up to A0 (max width 841 mm \* height 1189 mm)

### Proceedings

A limited number of selected papers may be published in a special issue (July, 2012) of **Underwater Technology**, the peer-reviewed International Journal of the Society for Underwater Technology ([www.sut.org.uk](http://www.sut.org.uk)). The objectives of the journal are to inform and acquaint the Society's members and other readers with current views and new developments in the broad areas of underwater technology, ocean science and offshore engineering. The SUT's interests and the scope of the journal are interdisciplinary, covering technological aspects and applications of topics including: diving technology and physiology, environmental forces, geology/geotechnics, marine pollution, marine renewable energies, marine resources, oceanography, underwater archaeology.



Please note that submitted manuscripts must adhere to aims and objectives as well style and layout of the journal, as outlined in the Guidelines for Journal Contributors, and pass a formal peer-review process. Submission dead line **20<sup>th</sup> January 2012**.



## Registration

Please note unless at least one person named as an author on an oral presentation or a poster is registered to attend the meeting by 2<sup>nd</sup> September 2011, then the contribution will be deleted from the programme and the abstract volume.

To register:

- Fill the online "Symposium Registration Form"
- Pay the Symposium Fee

Due to restricted space, we will have to adhere to first-come, first-served principle. Registration effective only after payment.

## Conference Fees

|                                   | Early registration<br>2 <sup>nd</sup> September | Late until space<br>available |
|-----------------------------------|---|-------------------------------|
| Full registration                 | € 200.00  | € 250.00                      |
| Full registration AIOSS member    | € 150.00  | € 200.00                      |
| Full-time student                 | € 100.00  | € 150.00                      |
| Accompanying (including lunches)* | € 45.00   | € 45.00                       |

Registration includes conference proceeding, lunches and coffee breaks.

\* not applicable to co-authors.

## Accommodations

Special offer: all inclusive accommodation (3 nights in double room and 3 dinners), until space available, inside the hotel complex "Isola lo scoglio", **€120.00** each. Single room **€150.00**.

The price of the accommodation cannot be guaranteed for late registrations. For shorter/longer stay or special requests please contact the symposium secretariat ([antheus@unisalento.it](mailto:antheus@unisalento.it)).

## Dives

We also offer optional dives at sites of scientific and/or archaeological interest in the Ionian Sea. Each dive costs **€ 25.00** including weight belt and cylinder. For more information or equipment requests please contact the symposium secretariat ([antheus@unisalento.it](mailto:antheus@unisalento.it)).

## Payment methods

### • By bank transfer

Bank account name: Associazione Italiana Operatori Scientifici Subacquei

Reference: ISOSD2011

Bank account number: 000100898332

Bank address: UNICREDID BANCA

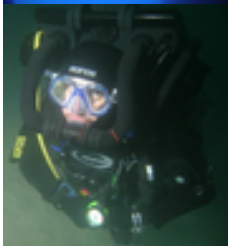
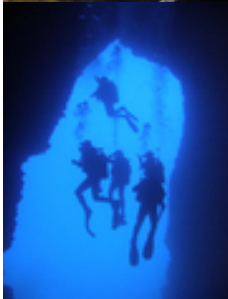
IBAN-account number: IT50J0200813171000100898332

SWIFT/BIC code: UNCRITM1PT1

Please make sure that your name and ISOSD2011 appears on the bank transfer form.

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