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CIRCULAR & CALL FOR PAPERS

The 5th Underwater Acoustics Conference & Exhibition (UACE2019)

will be held in Heraklion, Crete, Greece
30 June-5 July 2019

Conference chairmen

John S. Papadakis, Greece
(e-mail: johnsp@iacm.forth.gr)

David Bradley, USA
(email: dlb25@psu.edu)



The conference and exhibition is organized in co-operation with **CCBS Greece**



Message from the chairmen

The **1st, 2nd, 3rd and 4th international conference and exhibition on Underwater Acoustics** were held on the Greek islands of Corfu (June 2013), Rhodes (June 2014), Crete (June 2015) and Skiathos (2017). These conferences became very successful, each with more than 300 registered participants from more than 35 countries and with over 300 papers presented. Several companies showed their most advanced underwater acoustical instruments in the exhibition.

In the meeting of the Scientific Committee during the 4th Conference in Skiathos, it was decided that this series of Conferences will be continued and will be organized every other year. It was also decided that the Co-Chairmen, John S. Papadakis and David Bradley will decide on the venue and the dates of the next Conference.

The **5th Underwater Acoustics Conference & Exhibition (UACE2019)** will be held in Heraklion, Crete, Greece during the days Sunday 30th June through Friday 5th July, 2019. The conference venue will be the **Knossos Royal Hotel** (<https://www.aldemarknossosroyal.gr/>), with which an attractive agreement for the conference participants has been settled. The hotel is situated in **Limenas Hersonissou**, a well-organized resort located 27km to the east of Heraklion. The hotel has a Minoan-style architecture combined with recently refurbished rooms and the exquisite facilities for an international conference like the conference on **Underwater Acoustics**.

It is a great pleasure for us, on behalf of the Organizing Committee, to invite **you** to participate at the **5th Underwater Acoustics Conference & Exhibition** covering all fields of current interest in Underwater Acoustics.

The conference will comprise a prominent series of structured oral sessions with invited papers given by leading international scientists. These Structured Sessions will be organized by key persons actively engaged at the forefronts of research in underwater acoustics. In addition, most recent research results will be presented in contributed papers forming the basis for regular oral and poster sessions. The proceedings will include all full papers submitted for publication and will be available at the Conference website at the last day of the Conference. Papers published in the Proceedings will, like papers from the previous Underwater Acoustic Conferences, be freely available on the Conference Website with the address: <http://www.uaconferences.org/index.php/archive-past-proceedings/ua-proceedings>

To boost the interest in Underwater Acoustics the **Leif Bjørnø Award for Best Graduate Student Papers** on the presentation of the best papers will traditionally be arranged, and awards will be presented at a ceremony at the end of the conference.

The Conference customarily includes **tutorial sessions and plenary sessions**. We are in the process of organizing tutorials and plenary session which will be announced later.

An **exhibition** by leading international manufacturers of state-of-the-art technologies, equipment and services for underwater acoustic measurements, surveys and control of underwater processes will be arranged in the central area of the conference space.

Looking very much forward to meet with you in Crete in June 2019.

John S. Papadakis and David Bradley

Conference chairmen

Conference topics to which contributions are invited include:

- Acoustic imaging
- Acoustics in Oil and Gas Production
- Acoustic studies of marine mammals
- Ambient noise: sources, monitoring and long term trends
- Arctic acoustics
- Bioacoustics and Biosonar
- Cable laying
- Calibration of sonar and hydrophones
- Deep water acoustics
- Detection and remediation of objects on the seafloor
- Environmental protection
- Fibre optical systems
- Finite-Element and Spectral Element modelling
- Fisheries
- Flow generated noise
- Geoacoustics
- Hearing response
- Hydrography
- Impact of noise on marine life
- Inhomogeneous media
- International regulations and their impact
- Inversion methods in underwater acoustics
- Marine surveys
- Marine GIS
- Marine renewables
- Metamaterials
- Mine countermeasures
- Multibeam sonar and bathymetry
- National and international co-operative projects
- Neural networks and info processing
- New transducer materials
- Noise and vibration from marine piling
- Nonlinear underwater acoustics
- Ocean observatories
- Ocean technology policy
- Oceanographic instrumentation
- Pollution influence on sound propagation
- Radiated noise from ships and production platforms
- Risk assessment in underwater acoustic measurements
- Research vessel facilities and instruments
- Reverberation and clutter
- Rock dumping
- ROV's and AUV's and their use in underwater acoustics
- Scattering and fluctuations
- Seafloor characterization
- Seismic acoustics
- Signal and image processing
- Single- and multi-beam sonar advances
- Sonar performance measurements and modelling
- Sound propagation: shallow/deep water
- Synthetic aperture sonar
- Tank experiments
- Target recognition
- Tectonic plate movement monitoring and tsunami detection
- Tomography
- Transducer and array technology
- Underwater acoustic modelling
- Underwater archaeology
- Underwater communication, navigation and positioning
- Vector sensors
- Volume scattering and bubbly media
- Wake acoustics
- Waterside security

Structured Sessions

The list of Structured Sessions on topics of current interest in Underwater Acoustics as well as the name(s) of the organizer(s) will be available and regularly updated at the conference website. The list will be finalized on December 1st, 2018.

Conference participants interested in presenting a paper on topics in the list above are encouraged to contact the specific Structured Session Organizer on his/her e-mail address to indicate their interest/intention to submit a paper to the session. Abstracts for the structured sessions should be submitted by use of the template *Abstract Submission Form for Structured Sessions*. Electronic Abstract submission will be open on **December 15th, 2018**.

All abstracts of papers to be presented in a Structured Session are reviewed by the Structured Session Organizer, only. However, it is the responsibility of the authors to use the online *General Abstract Submission Form* that will be available on the conference website and submit their abstract to the Conference Secretariat as soon as the notification of acceptance has been received from the Structured Session organizer concerned, and no later than **February 15th, 2019**.

Abstracts and Full and Final Papers

The abstracts, in English and no more than 300 words, shall provide sufficient information to allow a fair assessment of the research and its results. The abstract must begin with the full title of the paper, the author(s) name(s), affiliation, full postal address, and e-mail address. It must in a clear way give pertinent information about the purpose of the work, the scientific method of approach and the technologies used, the main results obtained and the conclusions to be drawn. The abstract must also indicate which of the conference topics above it is addressing, if any.

Abstracts of Contributed papers shall be submitted electronically using the online *General Abstract Submission Form* **not later than January 31st, 2019**. The result of the review of the abstracts will be sent to authors of contributed papers not later than **February 15th, 2019** by the UACE2019 Organizing Committee.

Abstracts of Invited papers shall be sent initially to the Structured Session Organizer who has invited the paper using the template *Abstract Submission Form for Structured Sessions*. After notification of acceptance has been received from the Structured Session organizer concerned, the authors must submit their abstracts electronically to the Conference Secretariat using the online *General Abstract Submission Form* **not later than February 15th, 2019**.

Abstracts of papers submitted to Structured Sessions shall be sent initially to the Structured Session Organizer concerned, who will review the abstract and notify the authors. The template, *Abstract Submission Form for Structured Sessions* shall be used. After notification of acceptance has been received from the Structured Session organizer, the authors must submit their abstracts electronically to the Conference Secretariat using the online *General Abstract Submission Form* **not later than February 15th, 2019**.

*The General Abstract Submission Form to be used for electronic transfer to the Conference Secretariat for all abstracts – contributed as well as invited - will be available on the Conference Website at the beginning of November 2018. Online Abstract submission will be open on **December 15th, 2018**.*

All accepted abstracts shall be electronically accessible.

All full and final papers should be prepared according to the Instructions to Authors by the use of a template to be obtained from the conference website on, January 15th, 2019 . The papers must be submitted electronically to the Conference Secretariat using the *Full Papers Submission Form* no later than **April 19th** , to be included in the Conference Proceedings.

The *Full Papers Submission Form* will be available on the conference website on **February 15th 2019**

Conference publications

A paper version of the **Programme Book** will be available to all participants at the registration desk. The “Programme Book” will comprise the necessary information on conference program, lecture theatres, exhibition and exhibitors, social events, etc.

The **conference programme and abstracts** will be available at the conference website during the conference. The **conference proceedings** will be available at the conference website at the last day of the conference.

Poster presentations will be given the same number of pages in the Proceedings as oral presentations of contributed papers. The number of pages in the Proceedings allotted to plenary papers will be 12, to invited papers 8, and to contributed and poster papers 6. The dimensions of posters should be A0 (841*1189mm).

F.O.R.T.H. has established a **permanent database**, which already contains the Proceedings of all 4 international conferences on Underwater Acoustic Measurements: Technologies and Results of June 2005, June 2007, June 2009 and June 2011, as well as the Proceedings of the 1st, 2nd, 3rd and 4th international conferences and exhibitions on Underwater Acoustics of June 2013-2014-2015-2017. This database will also comprise all papers from the **5th Underwater Acoustics Conference & Exhibition** in Crete, with free access for everybody.

Authors, who wish to publish their paper later-on in a peer-reviewed international journal, are encouraged to publish 4 – 6 pages only in the conference proceedings, in order to achieve a level of duplication of no more than the 25 – 30% in the peer-reviewed journal.

Length of presentations

Invited and contributed papers will be allotted 20 minutes (incl. time for discussions). Plenary papers will be allotted 45 minutes (incl. time for questions)

Who should attend

Scientists and engineers from universities, research institutes, government organizations and industry dealing with all aspects of underwater acoustics. Representatives from naval material commands and procurement offices. The conference will provide a forum for exchange of recent research results, for discussion of future challenges in implementation and application of underwater acoustic technologies, and the exhibition will display the latest advances in instrumentation.

Language

The official language of the conference is English. All oral presentations and discussions will be in English, only.

The Scientific Committee of the conference includes:

- ② *John Papadakis, FORTH, Greece (Chairman)*
- ② *David Bradley, ARL, Penn State University, USA (Chairman)*
- ② *Michael Ainslie, TNO, The Netherlands*
- ② *Tuncay Akal, SUASIS, Turkey*
- ② *Philippe Blondel, University of Bath, UK*
- ② *Mike Buckingham, MPL, Scripps, USA*
- ② *Andrea Caiti, ISME/DII, Italy*
- ② *Chris Capus, Heriot-Watt Univ., Edinburgh, Scotland*
- ② *Ross Chapman, University of Victoria, Canada*
- ② *Chi-Fang Chen, National Taiwan University, Taiwan*
- ② *Nick Chotiros, Office of Naval, Research Global, London*
- ② *Alexander Gavrilov, Curtin University, Australia*
- ② *Peter Gerstorft, MPL, Scripps, USA*
- ② *Grazyna Grelowska, Naval Academy, Gdynia, Poland*
- ② *Hiroyuki Hachiya, Tokyo Inst. Technology, Japan*
- ② *Roy Edgar Hansen, FFI, Norway*
- ② *Georgios Haralabus, CTBTO, Austria*
- ② *Charles Holland, ARL, Penn State Univ., State College, USA*
- ② *Marcia Isakson, Univ. Texas at Austin, USA*
- ② *Kirk Jenne, NSWC HQ, Washington DC, USA*
- ② *Sergio Jesus, Univ. Algarve, Faro, Portugal*
- ② *Arata Kaneko, Hiroshima University, Japan*
- ② *Eugeniusz Kozaczka, Techn. Univ. Gdansk, Poland*
- ② *Tim Leighton, University of Southampton, UK*
- ② *Tony Lyons, University of New Hampshire, USA*
- ② *Qihu Li, Institute of Acoustics, Acad. Sinica, China*
- ② *Alain Maguer, CMRE, NATO Sci. & Techn. Org., Italy*
- ② *Jennifer Miksis-Olds, University of New Hampshire, USA*
- ② *Purnima Ratilal, Northeastern Univ., Boston, USA*
- ② *Jean-Pierre Sessarego, CNRS-LMA, Marseille, France*
- ② *Martin Siderius, Portland State University, USA*
- ② *Dick Simons, Delft Univ. Technology, The Netherlands*
- ② *Emmanuel Skarsoulis, F.O.R.T.H., Greece*
- ② *Michael Taroudakis, University of Crete & FORTH, Greece*
- ② *Alessandra Tesei, NATO-STO CMRE, Italy*
- ② *Peter Thorne, National Oceanographic Centre, Liverpool, UK*

The Organizing Committee of the conference includes:

- Ⓒ *John Papadakis, F.O.R.T.H., Greece (Chairman)*
- Ⓒ *David Bradley, ARL, Penn State University, USA (Chairman)*
- Ⓒ *Philippe Blondel, University of Bath, UK*
- Ⓒ *Mike Buckingham, MPL, Scripps, USA*
- Ⓒ *Ross Chapman, University of Victoria, Canada*
- Ⓒ *Qihu Li, Institute of Acoustics, Acad. Sinica, China*
- Ⓒ *Michael Taroudakis, University of Crete and FORTH, Greece*

Exhibition

An exhibition by leading international manufacturers of state-of-the-art technologies, equipment and services for underwater acoustic measurements, surveys and control of underwater processes will form an integrated part of the conference and will be arranged in the central area of the conference space. Since the conference participants include several senior decision makers in exploitation of underwater acoustics as well as the top scientists in this area, the exhibition forms a very important opportunity for hardware and software manufacturers and for providers of consulting and scientific services to meet with their customers during the exhibition.

Stands of various sizes are available, and potential exhibitors are encouraged to contact the Conference Secretariat on the address: info@uaconferences.org for a set of “**the Exhibitors Information Package**” to be mailed to their address. Alternatively, potential exhibitors can download the Exhibitors info package in the address:

<http://www.uaconferences.org/index.php/uace2015/exhibition>

Registration information

Registration will be available online on February 15th, 2019 at the conference website:

<http://www.uaconferences.org>

Registration fees are:

	Before April 1 st 2019	From April 1 st 2019 to May 31 st 2019	From June 1 st 2019
Full registration	500 €	600 €	620 €
2-days registration	400 €	400 €	400 €
Students*	275 €	300 €	320 €
On-site registration			625 €

***Students** (incl. Ph.D. students) must present a copy of their valid student identity card issued by their university.

A reduction in the registration fee for participants taking part in the conference for less than 3 days will be available.

Accompanying persons are most welcome to the conference. Tickets for the social events will be available to order in the registration form and at the registration desk during the

conference.

Payment options:

- ④ Credit Card (VISA, Mastercard) – available for online or on-site registrations
- ④ Bank transfer – available for online registrations
- ④ Cash – available for on-site registrations

Accommodation

Hotel rooms in various price classes will be available for conference participants and full information on the hotels as well as hotel booking forms will be available for download from the conference website early December 2018.

General information

Information on car rentals and tour bookings will be available on the conference website. The website will also provide a description for tours available in Crete before, during and after the conference. Tours during the conference hours for spouses and other accompanying family members to places on Crete will be announced on the conference website

An agent from the conference's official travel agency, **CCBS Greece** (former Katreia Holidays), will be available in the registration area to help with travel arrangements. A **map of Crete** with positions given for hotels as well as route descriptions between the airport, attractive places on Crete and the conference venue will be available on the conference website.

Participants who need a **Visa to travel** to Greece shall contact the Conference Secretariat at their earliest convenience [to request an invitation letter](#).

The social programme

The social programme will comprise:

- ④ The ice breaking party: Sunday, June 30th, from 19:00 to 23:00.
- ④ The conference banquet: Tuesday, July 2nd, from 19:00 to 24:00.
- ④ Excursion, (location and time to be announced): Wednesday, July 3rd

More information about the individual social events will be given on the conference website.

Contact information

Secretariat of the **5th Underwater Acoustics Conference & Exhibition (UACE2019)**

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