



ICUA2020

International Conference on
Underwater Acoustics

6-10 July 2020

Leonardo Royal Hotel Southampton Grand Harbour, Southampton, UK

In 2012, the IOA organised the successful European Conference on Underwater Acoustics (ECUA) in Edinburgh. The many advances in the field of underwater acoustics since then make it appropriate to hold another international conference to discuss the latest research and applications.

In the 400th year since the Pilgrim Fathers sailed to the New World on the Mayflower it is fitting that the IOA holds its International Conference on Underwater Acoustics in the city from which they departed. It is also appropriate that the IOA celebrates 50 years of the AB Wood medal, an award bestowed alternately to UK/European and US/Canadian researchers in the field of Underwater Acoustics.

The conference hotel is centrally located very close to the main historic area with many restaurants and hotels. The nearby ferry port offers regular sailings to the Isle of Wight. We look forward to welcoming our friends and colleagues from all over the world to present your latest research.

Topics for this conference include:

- Acoustic bathymetry mapping
- Acoustic measurement of sediment transport
- Ambient noise measurement and modelling
- Bioacoustics and Biosonar
- Bubble acoustics
- Geophysical exploration
- Geoacoustic inversion
- Effects of sound on marine life
- Fluctuations and scattering
- Habitat mapping
- Marine renewables
- Measurement and modelling of acoustic particle motion
- Measurement and modelling of airguns and airgun arrays
- Metamaterials
- Noise and vibration from pile driving
- Ocean observatories
- Polar Acoustics
- Radiated noise from ships
- Scattering from biota and particles in the water column
- Sea surface acoustic scattering
- Seabed and sediment classification
- Seabed propagation of interface waves & evanescent waves
- Sediment imaging and mapping
- Sediment surface and volume acoustic scattering
- Signal processing
- Sonar & transducer test and calibration
- Sonar Performance measurement and modelling
- Standards in underwater acoustics
- Synthetic aperture sonar
- Target scattering
- Tomography
- Transducer and array technology
- Underwater communications
- Underwater Propagation - 2D and 3D
- Underwater acoustic detection and classification on unexploded ordnance
- Very low frequency acoustics

Prospective authors for both papers and posters are invited to submit a title and a maximum 300 word abstract to www.icua2020.org by **31 January 2020**. Authors will be notified by 6 March 2020 and invited to submit a full paper by 24 April 2020. Completed papers may be up to 8 pages long, including diagrams. Abstracts and papers will be reviewed.

Organising Committee:

Andrew Holden

Dstl, UK

Philippe Blondel

University of Bath, UK

Gary Heald

Dstl, UK

Alex Booker

Clarke Saunders Acoustics, UK

Chris Capus

Hydrason Solutions, UK

Kevin Hamson

Frazer-Nash Consultancy, UK

Linda Canty

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Adam Woolley

Thales, UK

Steve Robinson

NPL, UK

Peter Dobbins

Chair, IOA Underwater Acoustics Group

Paul Lepper

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Michael Ainslie

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