

UKAN Underwater Acoustic PhD Symposium

University of Bath / Room 8 West 2.5

16th December 2019

PROGRAMME

0830 – 0900 Arrival and coffee (Registration desk – **room 8 West 2.10**)

0900 – 0915 Opening address and welcome. Professor Gary Heald (Symposium Chair)

Session 1 Session chair – Prof Gary Heald (Dstl and Heriot Watt University)

0915 – 0945 **(Invited)** Sonar Design for Object Recognition and Characterisation.
Dr Yan Pailhas – cmre.

0945 – 1000 Imaging Ocean Waves with Sound Waves and Light Waves.
Oscar Bryan– University of Bath

1000 – 1015 Low Energy, Passive Acoustic Sensing for Wireless Underwater Monitoring Networks. **Gavin Lowes – Newcastle University**

1015 – 1030 Mechanical scanning image sonar.
Chris Moorhead – Aberdeen University

1030 – 1100 Tea and coffee (served in room 8 West 2.10)

Session 2 Session Chair – Dr Philippe Blondel (University of Bath)

1100 – 1115 Passive Acoustic Monitoring using a Towed Array from a Wave-propelled USV.
Alfie Treloar University of Bath

1115 – 1130 Detecting Weak Signals in Highly Impulsive Noise.
Dr Julian Deeks - University of Southampton and Dstl

1130 – 1145 A Pulsed Power Driven Transient Underwater Pressure Source.
Jessica Stobbs – Loughborough University

1145 – 1200 Very Low Frequency Ocean Acoustic Processes.
Shaula Garribo – University of Bath

1200 – 1230 **(Invites)** The PhD Process
Professor Cathryn Mitchell - Academic Director of the Doctoral College, University of Bath

1230 – 1330 Lunch(+ group photo) buffet served in **Room 8 West 2.10**

Session 3 **Session Chair – Dr Duncan Williams (Dstl and Imperial College London)**

1330 – 1400 Making a Career in Underwater Acoustics - Challenges & Opportunities.
Professor Gary Heald - Dstl and Heriot Watt University

1400 – 1415 Autonomous Underwater Gliders for Passive Acoustic Monitoring of the
Oceanic Environment. Pierre Cauchy - University of East Anglia

1415 – 1430 Coupled Scholte Modes in “Soft” Elastic Plates Underwater.
Beth Staples – University of Exeter

1430 – 1445 The d36 Mode for Underwater Acoustics
Hannah Rose – University of Glasgow and Thales UK

1445 – 1500 Using Acoustic Wavefield Coherence to Control Swarms of Marine Robots.
George Rossides – University of Bath

1500 – 1530 Tea and coffee (served in room 8 West 2.10)

Session 4 **Session Chair – Dr Alan Hunter (University of Bath)**

1530 – 1545 In Search of the Elusive Clickers: Experiences of an External Mature Student.
Dr Edward Harland – University of Southampton

1545 – 1600 Synthetic Aperture Sonar for a Low-cost Agile Platform: Preliminary Results
Ciaran Sanford – University of Bath

1600 – 1615 Multi-User Broadcast Acoustic Positioning System.
Aman Chawla – Newcastle University

1615 – 1630 **(Invited)** Transitioning from Academia to Industry: A Case Study.
Dr Andrew Mathieson – Thales UK

1630 – 1645 Closing Talk by the Chair of UKAN Special Interest Group in Underwater
Acoustics (SIGUA). **Dr Duncan Williams – Dstl and ICL**

1645 Depart