



Australian Acoustical Society - Queensland Division

# Technical Meeting

6:30pm Tuesday 22<sup>nd</sup> March 2016

**Date:** Tuesday 22<sup>nd</sup> March 2016

**Time:** 6:30pm to 8:00pm

**Venue:** "66 on Ernest"  
COTAH Training Restaurants  
66 Ernest Street  
South Brisbane QLD 4101



**Title:** "Can You Call Me BACK? Back? back? ...this line is BAD, Bad, bad"

**Presenter:** Michael Caley  
PhD Candidate, Curtin University Centre for Marine Science and Technology

**Summary:** There is so much data from beneath the waves that we increasingly derive from the ocean continental shelf, relating to security, assessment of resources and monitoring of nature for conservation purposes. Yet if the data needs to be sent wirelessly through the water more than a few tens of metres, the data must be transmitted acoustically.

**Question:** If there is so much potential data to communicate underwater why isn't there a handy phone app and an underwater peripheral 'thingy'?

**Answer:** People are trying, however the shallow underwater acoustic channel is regarded as the worst communication channel in the world, for its unique combination of extreme biological noise, variable frequency selectivity, and Doppler distortions.

In this talk some of the challenges of the shallow underwater acoustic channel will be highlighted together with a brief description of recent research developing a realistic simulation of the time-varying distortion of underwater acoustic data signals.

**Cost:** Free to current members and guests of the Australian Acoustical Society.

**RSVP:** By close of business Friday 18<sup>th</sup> March 2016 to Richard Devereux  
[rdevereux@acran.com.au](mailto:rdevereux@acran.com.au)

**Parking:** Parking is available on site after 5:00pm on a first come first served basis (no guarantees). The parking area is underneath Buildings A, B etc. Drive forward and park as close as possible to Ernest Street.

To get to the carpark off Glenelg Street, it is best to travel along Ernest Street from Merivale Street, go around the block and enter the carpark from Glenelg Street. Entry to the venue is off Ernest Street.

