



Australian Acoustical Society

A.C.N. 000 712 658

NEW SOUTH WALES DIVISION

TECHNICAL MEETING

ROB BULLEN

External Sound Propagation: More Reasons to Mistrust Your Measurements

The Date: Tuesday 24th February 2009

The Venue: National Acoustics Laboratories
126 Greville Street, Chatswood

The Time: 6.30 pm

The Speaker: Rob Bullen, Director, Wilkinson Murray

Strange things happen in the Collie Basin, WA. A recent study investigated variations in sound level from a constant source, over several nights, at distances between approximately 1 and 4 km. Simultaneous meteorological measurements were also conducted. Measured noise levels varied significantly over periods of minutes, hours and days, and variations were only weakly correlated with any measurable meteorological variables. It is apparent that micro-meteorological factors involving very small-scale changes in wind and temperature gradients have a significant effect on sound level at these distances.

Modelling packages ENM and SoundPlan (using CONCAWE prediction algorithms) were used to predict mean and percentile exceedance noise levels over the measurement period. Which model was best? You'll have to come to the seminar to find out.

'ANYONE' is welcome to attend and refreshments will be provided

RSVP FOR CATERING PURPOSES BY

Monday 23th February 2009 to Neil Gross by email

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