

Seminar Agenda

Subject: Open Loop Testing for Smart Devices and Automotive Infotainment

Date: Thursday 17th May 2018

**Location: Wyboston Lakes Training Centre, Great North Road, Wyboston,
Bedfordshire, MK44 3AL**

Registration and coffee is from 9.00am with the first session starting at 9.30am. Lunch and refreshments will be provided. The day will finish by 4.30pm

- Introduction to Open Loop Testing
 - What is it?
 - What Kinds of Analysis Can Be Done?
 - Classic Acoustic Testing: Frequency Response and Distortion
 - Stimulus Signals
 - Distortion Methods: THD, THD+N, Rub and Buzz, Perceptual Rub and Buzz, Non Coherent Distortion
 - Mixing Digital and Analog Units
 - Capturing Signals Asynchronous to the Stimulus
 - Dealing with Delay, Resampling, Frequency Shift, and Triggering
- Open Loop Applications for Playback
 - Smart Devices
 - Frequency Response and Distortion
 - Directionality
 - Automotive
 - 6 Mic Array for Audio Tuning
 - Distortion methods
 - HATS for Impulse Response Testing @ seated position
- Open Loop Applications for Recording
 - Smart Devices
 - Frequency Response and Distortion
 - Voice Recognition
 - Directionality
 - Automotive
 - Frequency Response and Distortion (general and to ITU P.11xx)
 - SNR placement study
 - Impulse Response function from HATS mouth -> microphone
 - Directionality
- Handsfree Communications
 - Terminology for Handsfree Communications
 - Introduction to Telephony Metrics