

Arnhem, 4 th February 2008

RE: ON SITE CABIN INTERIOR PANEL NOISE CONTRIBUTION ANALYSIS SERVICES

Due to growing demand, as from the 1 st March 2008, Microflown Technologies has appointed Dr. Oliver Wolff as the first responsible for the on site services related to cabin interior panel noise contribution analysis based upon arrays of PU probes.



Since 1999, Oliver Wolff has been working in Germany and Switzerland in the field of acoustic testing at well respected companies like Collins & Aikman, Illbruck Automotive/Carcoustics, HEAD Acoustics and (recently) Rieter Automotive.

Oliver Wolff has been the first to identify the upside potential of using PU mini arrays for a fast and broad banded panel noise contribution. Some of his relevant publications include:

- [Panel Contribution Analysis – An Alternative Window Method](#), SAE 2005, Traverse City,MI,USA
- [Fast panel noise contribution analysis using large PU sensor arrays](#), Internoise 2007, Istanbul, Turkey

Some other relevant publications include:

- [Vehicle Acoustic Synthesis Method : improving acquisition time by using p-u probes](#), Jean-Francois Rondeau et al., SAE 2005,Traverse City,MI,USA
- [Vehicle Acoustic Synthesis Method 2nd Generation: New Developments with p-u Probes Allowing to Simulate Unsteady Operative Conditions Like Run-Ups](#), A.Duval et al, SAE 2007, St.Charles,IL,USA.

Main task of Oliver Wolff will be to support customers having acquired a PU array during their first tests. His activities will include on site testing and reporting, adhering to the strictest requirements on confidentiality and business ethics.

Since its inception in 1998, Microflown Technologies has been offering services to the market place, initially only recalibration of sensors.

A next step was made in 2006, when Microflown Technologies started its in house acoustic testing services, mainly focusing on:

- acoustic characterization of materials
- sound source localization trouble shooting on a broad range of products

Since early 2007, also on site testing services are provided, such as:

- acoustic near field measurements, using the PU direct camera

Thus, the extension to panel noise contribution analysis is only a logical next step, completing the range of skills required for a fully fledged experimental analysis of a cabin interior.

As from 1 st March 08 onwards, Microflown Technologies offers a single transducer 96 channel PU mini array for broad banded vehicle cabin interior testing for:

- lower frequencies, using the acoustic particle velocity signal
- mid/higher frequencies, using PU sound intensity (without the need to apply damping foam)

The method has also already been demonstrated whilst driving or flying!

For further information, please contact: test@microflown.com