

Advanced Course in Noise Control
12-16 September 2011 – Southampton

Institute of Sound and Vibration Research
University of Southampton
Highfield
Southampton
SO17 1BJ

Tel: +44 (0)23 8059 2294
Fax: +44 (0)23 8059 3190

Brüel & Kjær 

Setting the standard in sound
and vibration measurement

www.bksv.co.uk
ukinfo@bksv.com

Sponsored by

Brüel & Kjær 

Advanced Course in Noise Control

The course

Noise in industry, in the work place, and in the community can potentially degrade quality of life. In extreme cases, exposure to high noise levels can be hazardous. The implementation of effective and economic noise control requires an appreciation of the fundamentals of acoustics and modern techniques for its measurement and characterisation.

This *Advanced Course in Noise Control* outlines the underlying principles of noise control, examines the character of noise in some key applications, and discusses how noise may be reduced by design or through palliative treatment. The course is divided into three

sections: *Basic principles*, *Techniques*, and *Applications and Case histories*.

There is a three-day core element of the course. This is preceded by an optional two-day refresher course in the principles of vibration and acoustics.

Fees

The course fees are shown on the attached enrolment form. The non-residential fee includes course literature, lunches and refreshments at the University, and a course meal on one evening. However, it does not include accommodation. The residential fee includes accommodation in a University hall of residence, with breakfast and evening meals from Sunday to Thursday inclusive (refresher

course plus advanced course) or from Tuesday to Thursday inclusive (advanced course only).

Attendance at the two-day refresher part only is usually possible on request, although it is not intended as a 'stand alone' course.

Location

The course is held in building 2 on the University of Southampton's main Highfield Campus, just 10 minutes' walk from University accommodation.

Other courses

For information on other short courses in acoustics, vibration and signal processing, please visit our website: www.isvr.soton.ac.uk

Monday 12 September (Refresher Day 1)

08.30–09.00 | Registration

09.00–09.15 | Introduction

09.15–10.15 | Fundamentals of sound propagation
| V Humphrey

10.30–11.30 | Basic concepts in vibration | N S Ferguson

11.45–12.45 | Introduction to frequency analysis
| J K Hammond

12.45–13.45 | Lunch

13.45–14.45 | Three-dimensional sound fields | P F Joseph

15.00–16.00 | Free and forced vibration | E Rustighi

16.15–17.15 | Analysis of random signals | J K Hammond

17.30 | Drinks reception

Tuesday 13 September (Refresher Day 2)

09.00–10.00 | Human response to vibration | M J Griffin

10.15–11.15 | Human response to sound | I H Flindell

11.30–12.30 | Analysis of sampled data | J K Hammond

12.30–13.30 | Lunch

13.30–14.30 | Acoustic source models | P F Joseph

14.45–15.45 | Classical vibration control | D J Thompson

16.00–17.00 | Structural wave motion | N S Ferguson

Wednesday 14 September (Advanced Day 1)

Basic principles

09.00–10.00 | Principles of noise control 1 | P F Joseph

10.15–11.15 | Principles of noise control 2 | P F Joseph

11.30–12.30 | Basic acoustic measurements | K R Holland

12.30–13.30 | Lunch

13.30–14.30 | Vibration control for noise radiation
| D J Thompson

14.45–15.45 | Numerical methods in acoustics | R J Astley

16.00–17.00 | Vibroacoustics | D J Thompson

17.15–18.15 | Tour of ISVR

Thursday 15 September (Advanced Day 2):

Techniques

09.00–10.00 | Identifying and ranking origins
and radiators of noise | M G Smith

10.15–11.15 | Beamforming and inverse methods | K R
Holland

11.30–12.30 | Sound intensity and sound power
measurement | P F Joseph

12.30–13.30 | Lunch

13.30–14.30 | Active control of sound | S J Elliott

Applications and case histories

14.45–15.45 | Case studies in noise control | D Rawlinson

16.00–17.00 | Control of road vehicle noise | J Dixon

19.30 | Course dinner

Friday 16 September (Advanced Day 3):

09.00–10.00 | Sound absorbent duct design | M G Smith

10.15–11.15 | Noise from wind turbines | A Mckenzie

11.30–12.30 | Plant noise propagation and propagation in
factories | S Dance

12.30–13.30 | Lunch

13.30–14.30 | Control of railway noise | D J Thompson

14.45–15.45 | Workshop | P F Joseph, D J Thompson

Enrolment form

Advanced Course in Noise Control
12-16 September 2011

Name _____

Job title _____

Company _____

Address _____

Tel _____ Fax _____

Email _____

Company VAT Number _____

If you would like to receive other promotional information please tick this box.

Privacy Policy The University of Southampton does not pass on information to any third party. The information is used in University marketing activities only in accordance with the Data Protection Act.

Fees	Refresher course	Advanced course only
------	------------------	----------------------

Non-residential	<input type="checkbox"/> £1150	<input type="checkbox"/> £1000
-----------------	--------------------------------	--------------------------------

Residential	<input type="checkbox"/> £1350	<input type="checkbox"/> £1200
-------------	--------------------------------	--------------------------------

There is a discount of £100 for applications received before 1 July 2011.

I enclose a cheque payable to
'University of Southampton' or

Please invoice my company

Signed _____

Please return this enrolment form as soon as possible and no later than **19 August 2011** to:

Miss J Hazell
ISVR, University of Southampton, Highfield,
Southampton, SO17 1BJ, United Kingdom.

Tel: +44 (0)23 8059 2936 Fax: +44 (0)23 8059 3190
Email: jh2@isvr.soton.ac.uk

Please note that there will be no refund of fees for cancellations received at ISVR less than two weeks before the start of a course. For cancellations received between four weeks and two weeks prior to the start of a course, 50 per cent of the fee will be refunded. Cancellations made by telephone will be accepted if confirmed immediately in writing. Delegate substitutions, however, may be made at any time.