

SOUND & VIBRATION CONFERENCE



CHICAGO, IL
MAY 15-17, 2018

Brüel & Kjær 

BEYOND MEASURE

Sound and vibration conference

The Brüel & Kjær Sound and Vibration Conference is almost an institution amongst sound and vibration professionals. For over 20 years, we have brought professionals and experts together for a multi-day event of technical sessions and courses, combined with plenty of opportunities to network with experts and peers.

The Sound & Vibration Conference is a collection of training courses covering a wide range of subjects, from introductory courses on acoustics and vibration, through PULSE training to advanced applications such as modal analysis and automotive testing, as well as detailed technical discussions about specific methods and applications. The courses are taught by highly experienced industry and application experts. Courses are a mix of lectures, demonstrations and hands-on sessions. During the breaks there is ample time to discuss specific challenges, implementation questions, upcoming projects, and ideas with application specialists. Each course lasts from ½ to 3 days depending on the subject. The format means that you can put together a customised program to fit individual needs, or attend just one or two sessions, while still getting the full advantage of access to the experts, and networking with peers.

A Brüel & Kjær Sound and Vibration Conference is a time-efficient opportunity to update your knowledge. It is invaluable for networking, particularly because attendees come from many industries and professions. These including engineering, R&D, and production sectors of the automotive, appliance, aerospace, telecommunications, audio, computer, environmental noise, and consulting industries.

For more information on the conference, or to register for a class, please visit us at www.bksv.com/courses, or call 800-332-2040.

Group discounts are available, contact your local sales engineer for more information on these discounts. Please note that space is limited and classes can fill up quickly, so please be sure to register early.

Register Now

www.bksv.com/courses

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Location

ADDRESS

Westin O'Hare
6100 North River Road
Rosemont, IL 60018

PHONE

(847) 698-6000

WEBSITE

WWW.WESTINOHARE.COM

TRANSPORTATION

- Self-Parking: \$15 per day
- Valet Parking: \$28 per day

GUEST SERVICES

- 24-hour front desk
- free airport shuttle

RECREATION

- Indoor pool
- 24-hour fitness center

BUSINESS SERVICES

- Indoor pool and whirlpool
 - 24-hour business center
 - Benchmark Gastropub
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Overview

Tuesday, May 15, 2018

PRINCIPLES OF ACOUSTICS– 1 Day Course

MODAL ANALYSIS– 1 Day Course

BKCONNECT SYSTEM TRAINING– 2 Day Course

Wednesday, May 16, 2018

PRINCIPLES OF VIBRATION– 1 Day Course

SOUND QUALITY & JURY TECHNIQUES – 1 Day Course



Thursday, May 17, 2018

PRACTICAL APPROACH TO SOUND & VIBRATION PROBLEM SOLVING – 1 Day Course

PRODUCT NOISE: WHY, WHAT & HOW TO MEASURE SOUND EMISSIONS OF PRODUCTS AND DEVICES – 1 Day Course

CAE AND TEST FOR NVH DESIGN, SIMULATION, AND TROUBLESHOOTING – 1 Day Course

General Information

Course registration begins at 8:30 AM each day. All full day courses begin at 9:00 AM and end at 4:30 PM each day. A continental breakfast, breaks and lunch will be provided.

Tuesday, May 15, 2018

BK Connect™ System Training

This course you will help you understand the general scope of BK Connect for measurement and analysis. You will become familiar with the user interface and user configurable workflow in BK Connect and be able to perform a detailed analysis on measured/recorded time data using the BK Connect Data Processing application. This class is for BK Connect, PULSE LabShop and PULSE Reflex users who need a basic understanding of how to operate the BK Connect Data Viewer, Hardware Setup, Time Data Recorder and Data Processing applications.

Start time May 15, 2018 9:00 AM

Registration deadline May 1, 2018

Duration 2 Day

Price Free

Principles of Acoustics

This course is an introduction to acoustic measurements. The topics covered will focus on the understanding, measurement and description of sound and noise. It will include an explanation of acoustical terminology, means of assessing noise in typical applications including Sound Intensity, Sound Quality and Workplace Noise.

Start time May 15, 2018 9:00 AM

Registration deadline May 1, 2018

Duration 1 Day

Price \$295

Modal Analysis

A broad introduction to modal analysis, from basic definitions to advanced applications of a modal model. Featured topics include mode shapes vs. operating deflection shapes, single degree of freedom systems, excitation techniques, modal measurements, lab measurements and modal parameter estimation (curvefitting).

Start time May 15, 2018 9:00 AM

Registration deadline May 1, 2018

Duration 1 Day

Price \$295



Wednesday, May 16, 2018

Principles of Vibration

The course introduces vibration theory and the measurement of vibration. The course emphasizes proper use of vibration instrumentation and covers the measurement chain from transducer to vibration meters and frequency analyzers. The FFT Analyzer and applications in Production Test, Modal Analysis, Vibration Testing, Human Vibration and Machine Monitoring & Diagnostics will be introduced. Recommended for engineers and technicians involved with product design & testing.

Start time	May 16, 2018 9:00 AM
Registration deadline	May 2, 2018
Duration	1 Day
Price	\$295

Sound Quality & Jury Techniques

The Sound Quality of a product is important when assessing its total quality. For products ranging from cars to hand tools to golf clubs, not only the level but also the quality of the sound it makes is part of the customer experience. Many factors come into play in the sound quality evaluation process and need to be considered both subjectively and objectively. Traditional objective measuring and analysis methods, such as A-weighted sound pressure and FFT analysis, are not enough to analyze product sound. Customer expectations and evaluations are important factors for determining Sound Quality because, in the end, only humans can tell the designer whether the product has the right sound.

Start time	May 16, 2018 9:00 AM
Registration deadline	May 2, 2018
Duration	1 Day
Price	\$295



Thursday, May 17, 2018

Practical Approach to Sound and Vibration Problem Solving

This course is meant to provide a strategy and an understanding of the tools involved to solve a product sound and/or vibration concern. Through hands-on instruction and several case-studies, this course outlines the standard troubleshooting process an experienced S&V Engineer would follow to address a sound or vibration concern. The importance of, and the options for making an objective measurement that represents the product concern are reviewed, along with some key aspects to making a repeatable test. Once the concern is understood, identification of the sound or vibration source is reviewed in detail along with an introduction to the latest measurement techniques.

Start time	May 17, 2018 9:00 AM
Registration deadline	May 3, 2018
Duration	1 Day
Price	\$295

Linking CAE and Test for NVH Design, Simulation and Troubleshooting

Automotive manufacturers and suppliers are facing many new NVH challenges, including new NVH phenomena introduced by new powertrain technology, light-weighting initiatives and compressed development time. At the same time, all of the traditional NVH phenomena are present and must be controlled and managed both inside the vehicle and for exterior vehicle noise, but often with a different emphasis in the case of hybrid, electric and alternative powertrain vehicles. In this course, NVH challenges will be addressed from basics of NVH design, utilizing simulation to speed development time, best practices for NVH design and development, as well as fundamentals of troubleshooting utilizing a combination of test measurement techniques and CAE solutions. Learn how to control the sound and vibration characteristics of the vehicle, achieve the right sound, and avoid common NVH pitfalls, while accelerating time to market utilizing and experiencing virtual NVH prototypes.

Start time	May 17, 2018 9:00 AM
Registration deadline	May 3, 2018
Duration	1 Day
Price	Free



COURSES–WEBINARS–EVENTS

www.bksv.com/courses

By investing in your skills, you are investing in your future. With hundreds of training opportunities on offer, you can decide exactly which are best suited to help broaden your expertise and to drive value across your business.

We hope that this catalog offers the inspiration to develop your sound and vibration knowledge, and we look forward to welcoming you at the course, webinar or event of your choice.

For more information on this conference visit us at www.bksv.com or call us at 800-332-2040.