

Bruel & Kjaer UK **Monthly Newsletter**/October 2011

Welcome to the October issue of our monthly Newsletter, which provides a round up of the latest news, products and courses from Bruel & Kjaer UK.

If you would like further information about any of the features in this newsletter, please contact ukinfo@bksv.com

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[Download here](#)

Company News:

Brüel & Kjaer VTS “Highly Commended”

Brüel & Kjaer VTS is delighted to have been "highly commended" at the Best Factory Awards 2011, held on 30th September in London.

The company was a runner-up in the Best Electronics & Electrical Plant category. Having entered for the awards in March 2011, Brüel & Kjaer VTS was subsequently shortlisted for three categories: Best Electronics and Electrical Plant, People Management Award and Judge's Special Award.

All nominated plants were also eligible for nomination for the Factory of the Year category.

Vice President Brüel & Kjaer Vibration Test Systems, Dr Lawrence Grasty (*pictured right with certificate*) said: "This is a great achievement for everyone at the Royston facility and a sure sign that we are on the right development path as a business."



He added: "I am very proud of the Brüel & Kjaer VTS staff for their hard work and support - not only during the judging period, but over the years - to develop and improve the business. I look forward to us all continuing the journey towards manufacturing excellence and improving our service to customers."

The Best Factory awards were created by Works Management Magazine & Cranfield University School of Management.

[Read more about the Works Management Magazine and Best Factory Awards](#)

Meet Brüel & Kjaer UK at November events

Brüel & Kjaer UK is showcasing its latest equipment at two industry events next month:

ANC Annual Conference, Austin Court Birmingham

Wednesday 2nd November

Brüel & Kjaer UK will be exhibiting its latest noise measurement solutions at the ANC's conference - an event that focuses on the major issues in and around environmental noise.

[Visit ANC web site](#)

Aero Engineering Show, NEC Birmingham - Hall 20, Stand 804

Wednesday 9th & Thursday 10th November

Brüel & Kjaer UK's technical team will be exhibiting its latest industrial and aerospace equipment, including the unique 12-channel data analyser, LAN-XI 3053.

[Visit Aero Engineering web site](#)

For more information or to make an appointment, please contact :
heather.wilkins@bksv.com

Environmental:

Prevention is better than cure

As noise-induced hearing loss is one of the most prevailing and costly occupational health problems, Brüel & Kjær has launched a portable noise-dose meter that assesses work environments before the damage is done.

Millions of workers are at risk from repeat exposure to high noise levels. Once the damage is done, social and psychological handicaps can lead to potentially massive expenses from the loss of skilled labour, early retirement, and worker compensation.



Brüel & Kjær's Noise Dose Meter Type 4448 is shoulder-mounted and cable-free. It has been designed to accompany employees throughout their working day, measuring and registering all relevant data about their noise exposure.

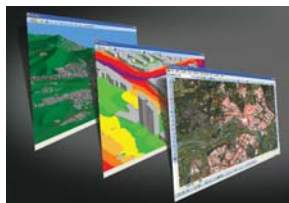
Type 4448 can be used to assess the risk of hearing damage to workers in noisy environments such as machinery workshops, forestry sites and music venues.

Special versions are available for use in hazardous areas where only certified equipment can be legally used, such as mining and petrochemical facilities.

Type 4448 is part of Brüel & Kjær's wide range of solutions for assessing noise and vibration exposure in the workplace.

For more information, please visit: www.bksv.com/Type4448

Predictor-LimA: Updated noise mapping software



Brüel & Kjær has made environmental noise mapping much simpler with a more user friendly version of its **Predictor-LimA 7810 software – Version 8.1**.

This latest version has an improved data handling system, an intuitive Windows®-based graphical user interface - and integrated project organisation options for scenario management and archiving.

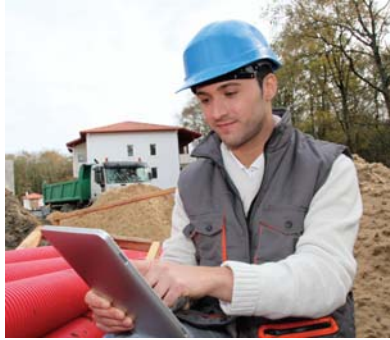
Predictor-LimA also has improved user support, including a closed website with a frequently asked questions (FAQ) section, downloads, license files and instruction videos. It has several new functions, including the recently updated NMPB-2008 method (French road traffic noise method) for calculation of road traffic noise.

A wind turbine catalogue option, which meets ISO 9613 method, allows measured data and information from manufacturers to be stored and retrieved, enabling consultants and power generation companies to perform calculation of noise from wind farms.

[Read more about Predictor-LimA 7810 Version 8.1](#)

Industrial:

Reduce Project Risk From Noise & Vibration - Construction Sentinel



Vibration from large construction projects can present a significant risk of damage to nearby property. Along with noise, vibration also has the potential to cause nuisance in the community, by triggering complaints. If not managed properly then both can cause delay, increased project cost and potential litigation.

Brüel & Kjær's Construction Sentinel system can reduce project risk by continuously monitoring noise and vibration.

The system allows you to:

- ✓ Receive direct, automatic alerts with all the information needed to investigate an exceedance in order to take immediate action
- ✓ Automatically record noise and vibration data so you can demonstrate compliance at all times
- ✓ Show communities and regulators you are taking your impact seriously and it is being controlled
- ✓ Have detailed measurements to hand for on-the-spot response to queries or complaints

As part of our Noise Sentinel family of subscription services - for long-term, unattended outdoor monitoring - Construction Sentinel provides continuous monitoring of noise and/or vibration specifically for large construction projects.

Properly managing noise and vibration is key to reducing project risk - and with proactive monitoring you can reduce it by maintaining compliance in order to keep communities and regulators happy.

The system operates 24/7 and alerts you immediately should noise or vibration exceed defined levels, allowing you to take immediate action to change operations before a breach occurs. You can investigate the source to verify if the exceedance is your responsibility, and then take appropriate action. Construction Sentinel operates over the internet, so you can be on-site, in your office or anywhere there is an internet connection.

Construction Sentinel takes care of all the hassle including instrument provision, installation, operation, data capture, records management, calibration and fault rectification. We even take everything away and give you all the data at the end of the contract, freeing you to focus on your construction project.

Provided as a fixed-price subscription service and including everything you need to provide high quality, accurate assessment of noise and vibration impact, you can be certain of your monitoring costs throughout the life of the project. And because you're not buying the equipment, there are much lower establishment fees than if you were to purchase and operate your own instrumentation.

For more information please contact: **+44 (0)1763 255 780** or email: ukinfo@bksv.com

Transducers & Conditioning:

Underwater vibration measurements – even at high temperatures

Until now, the most appropriate solution for vibration measurements underwater or in situations of temporary submersion, has been to use the DeltaTron® Accelerometer, Type 5958-A.

This is an excellent solution for use at temperatures up to 100°C



With the introduction of high-temperature DeltaTron® (IEPE) accelerometers and new waterproof cable assemblies however, it is now possible to make vibration measurements in the wet at temperatures up to 150°C.

Cable assembly Type WL-3330 can be used with any hermetically-sealed titanium construction accelerometer, with either top or side 10-32 UNF connector.

Brüel & Kjær's accelerometers are ideal for a wide range of applications within industries such as automotive, aerospace and defence.

For more information, please contact: **+44 (0)1763 255 780** or ukinfo@bksv.com

Brüel & Kjær Microphone Catalogue

Brüel & Kjær's microphone catalogue offers a straightforward guide to our wide variety of transducer products, including:

- ✓ Free field microphones
- ✓ Diffuse field microphones
- ✓ Pressure field microphones
- ✓ Low noise microphones
- ✓ Array microphones
- ✓ Outdoor microphones



Find the best tools for your needs: [download our latest Microphone Catalogue](#)

Brüel & Kjær Service Centre:

Accredited Services

To obtain UKAS Accreditation standard, Brüel & Kjær undergoes in-depth audits each year, so you can be sure your products are calibrated by procedures which have met approval from UKAS, the UK's national laboratory accreditation body.

Brüel & Kjær's Calibration Laboratories offer UKAS accredited calibration conforming to the demands for a wide range of customers.

Accreditation is approval given by an official authority to calibration laboratories. To obtain this approval, the calibration laboratory is subject to an in-depth assessment with respect to both formal Quality Management controls and technical competency.

The assessment is carried out in accordance with internationally accepted standards, for example the ISO 17025 standard. The international acceptance is obtained through multinational mutual agreements.

Brüel & Kjær's service centre offers both traceable or accredited calibration for:

- ✓ Sound level meters
- ✓ Microphones
- ✓ Calibrators
- ✓ Artificial ears
- ✓ Conditioning amplifiers
- ✓ Accelerometers

With more than 25 years experience in the calibration business, Brüel & Kjær has developed unique qualities that set it apart from other service suppliers.

As the original manufacturers of its products, Brüel & Kjær has the expertise, innovation and proprietary knowledge to make sure your equipment is tested and updated to obtain full utilisation to ensure maximum return on your investment.

Brüel & Kjær's systems - developed to verify and calibrate instrumentation and transducer performance - are used by national metrology institutes worldwide for maintenance of their own national standards, which means your assets are looked after by a company that is considered an expert in calibration by its peers.

International Support - Brüel & Kjær has accredited calibration centres throughout Europe, America and Asia, plus sales agents around the world, so support is at hand for businesses with operations outside the UK.

For more information on Brüel and Kjær's UK Service Centre, please visit the [Service Section](#) of our website or contact: **+44 (0) 01763 255 780**.



Training & Courses:

Bruel & Kjaer UK's Training Courses & Webinars 2011

Coming Soon - Bruel & Kjaer UK's **2012 Training Course Calendar**

Bruel & Kjaer UK FREE Interactive Training Sessions: Take advantage of free online training with Bruel and Kjaer UK's expert engineers by signing up for our one-hour web-based courses:

MATRON - 3rd November
[Register Now](#)

2250 User Basic - 17th November
[Register Now](#)

2250 User Advanced - 24th November
[Register Now](#)

MATRON - 1st December
[Register Now](#)



Vibration Testing for Engineers – 2011

Vibration Testing for Engineers and Technicians

This two day course provides a practical introduction to the subject of vibration testing. Designed around the needs of engineers new to the subject of vibration testing and yet offering a useful refresher course for the more experienced user, this course explains how to interpret vibration test specifications and apply them to a vibration test system.

Subjects covered are sinusoidal vibration, random vibration, and shock/bump testing together with a background to the equipment required for each type of test, methods of control and simple fixturing. The course emphasises the practical aspects of vibration testing - the realities, the problems encountered and the common mistakes which can be made.

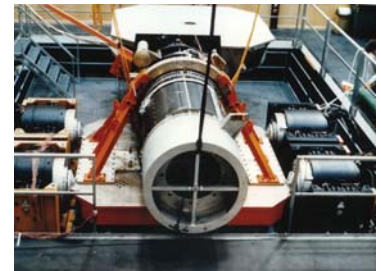
Vibration Testing - 29th & 30th November
[Register Now](#)

Vibration hands on practical course and test simulation

An optional 3rd day is available which covers the LDS Laser usb Controller for sine, random, shock and mixed mode testing and continues a more in depth hands on for the student. Tests will be run on an LDS V830 to provide each student with confidence for a realistic setup of an air cooled system.

Day 3 is 90% practical and puts into practice the lessons learnt on days 1 and 2, including all project parameters, error messages and control methods whilst observing resonance and Limit control on a test piece. The 3rd day will be restricted to a maximum of 6 customers to allow all students some test time. (Only available at Royston UK company Headquarters)

Practical Vibration Testing - 1st December
[Register Now](#)



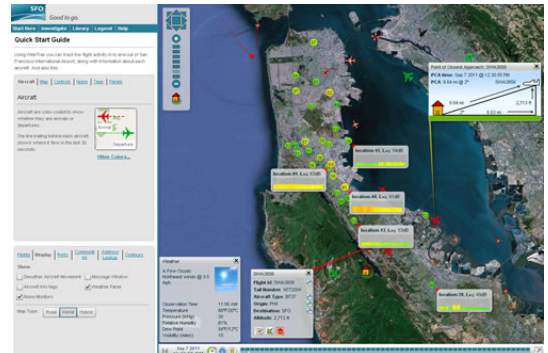
Global product & service information:

Delivering superior community engagement on aircraft noise issues: WebTrak updated

WebTrak, which is operational at over 55 airports worldwide, enables communities to view and investigate aircraft flight tracks around their local airport. It's an efficient way for airports to build their communities' understanding of airport operations, improve accessibility to aircraft noise information and to build trust between the community and airport.

The new WebTrak update improves the community experience with additional features to assist in the understanding of aircraft noise impact.

An updated user-interface enables replay of animated flight tracks at up to 120 times normal speed. Accurate and customisable aircraft icons also add to the new look.



Usability is improved with the introduction of a time slider that enables rapid backward and forward manipulation of the track display.

Displaying measured noise levels has been a key capability of WebTrak since it was first launched. Building on this real-time and historical noise level display, WebTrak now includes a colour-coded graph of noise at any measurement point, which is synchronised with aircraft locations.

Many airports have found that building their own track display website is expensive and rapidly becomes dated. Subscribing to WebTrak means continuous evolution is performed for the customer, ensuring a solution that continues to lead global best practice.

"This is a major update to WebTrak; adding new capabilities and taking on board ideas and requests from our current user base," said Matthew Barry, Product Manager for WebTrak.

"We've provided a fresher, more modern look, reflecting how web-based applications have changed since 2004. Even the look and feel is customisable to provide a more seamless integration into an airport's existing website."

As with all Brüel & Kjær subscription services, existing subscribers receive the update to WebTrak for no additional charge.

[Read more about WebTrak](#)

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