

Exposition Hours

Tuesday
February 10, 2009 10:00 am - 5:00 pm
Wednesday
February 11, 2009 10:00 am - 5:00 pm
Thursday
February 12, 2009 10:00 am - 12:00 pm

■ = SEM Corporate Member

A&D Technology, Inc.

4622 Runway Blvd.
Ann Arbor, MI 48108
734-973-1111, Fax: 734-973-1103
info@aanddtech.com
www.aanddtech.com

A&D Technology is a leading supplier of measurement, simulation and control solutions for product testing and development. Our open, flexible and cost-effective tools are designed to fit a wide variety of applications, including automotive powertrain durability and performance testing, embedded control prototyping tools, NVH analysis equipment, and material test systems.

■ APS Dynamics, Inc.

5731 Palmer Way, Suite A
Carlsbad, CA 92010
760-438-4848, Fax: 760-683-3184
sales@apsdynamics.com
www.apsdynamics.com

APS DYNAMICS produces vibration test products for modal test excitation, vibration sensor calibration and component test. Trade names include ELECTRO-SEIS® Shakers and DUAL-MODE™ Amplifiers.

ATA Engineering, Inc.

11995 El Camino Real #200
San Diego, CA 92130
858-480-2000, Fax: 858-792-8932
dave.hunt@ata-e.com
www.ata-e.com/

ATA provides analysis and test-driven design solutions that focus on the engineering needs of major manufacturers by addressing their cost, quality, and time-to-market engineering challenges for mechanical and aerospace systems. We use advanced computer-aided engineering software to solve problems for customers in the aerospace, biomedical, automotive, entertainment, and consumer products industries in the areas of structural dynamics, acoustics, thermal, and stress.

Benstone Instruments

32905 Northland Court
St. Paul, MN 55045
651-257-6500, Fax: 651-257-4004
bob@benstone.com
www.benstone.com

Benstone Instruments supplies state of the art Dynamic Signal Analysis Instrumentation. The Impaq is a powerful hand held 4 channel analyzer that is portable, lightweight and ideal for Modal Analysis, Operational Deflection Shape Testing, Acoustics, Order Tracking Analysis, Time Record, Rotor Balancing, Octave Analysis and Route Based Data Collection, to name a few features. Please visit Benstone Instruments at Booth 311 or visit our website at: <http://www.benstone.com> for details.

■ Brüel & Kjær Sound & Vibration Measurement

Skodsborgvej 307
Naerum DK-2850 Denmark
45-45-800-500, Fax: 45-45-801-405
bkinfo@bksv.com
www.bksv.com

Brüel & Kjær North America Inc.

2815 Colonnades Court
Norcross, GA 30071
800-332-2040, Fax: 770-448-3246
bkinfo@bksv.com
www.bkhome.com

Brüel & Kjær is the world leader within sound and vibration measurement solutions covering the complete chain from transducers over data acquisition systems to final analysis and reporting software packages. Our solutions are modular and scalable ranging from one to over thousand channels in centralized or distributed setups. Visit our booth to see significant new developments within structural analysis on PULSE and Test for I-DEAS including Classical Modal Analysis, Operational Modal Analysis, Operating Deflection Shapes Analysis and Model Updating and to discuss your specific measurement needs with our experts. Live demonstrations will be performed using PULSE LAN-XI – The next generation of data acquisition hardware.

Crystal Instruments

4633 Old Ironsides Dr., Suite 304
Santa Clara, CA 95054
408 986 8880, Fax: 408-834-7818
Mobile: 408-307-0379
Sales@go-ci.com
www.go-ci.com

CI will demonstrate a wide range of dynamic measurement instruments including CoCo-80, the first battery-powered handheld dynamic signal analyzer and data recorder that matches the performance and functions of high-end systems. At 130dB dynamic range, it can record all inputs simultaneously up to 102.4 kHz. Software includes FFT, transient capture, time recording, FRF, octave analysis, order tracking, limit checking, SRS and swept sine testing.

■ Data Physics Corporation

1741 Technology Drive, Suite 260
San Jose, CA 95110
408-437-0100, Fax: 408-437-0509
sales@dataphysics.com
www.dataphysics.com/

Data Physics will exhibit its SignalCalc Dynamic Signal Analyzers, SignalStar Vibration Control Systems and SignalForce Electrodynamic Shakers. Data Physics experienced team provides full service for all shaker models and brands including installation, relocation, repair, calibration, maintenance, replacement amplifiers, shaker and controller upgrades. Most spares in stock. Data Physics has been supplying high performance test and measurement solutions for 25 years. With the addition of a full line of electrodynamic shakers to complement its vibration controllers and dynamic signal analyzers, Data Physics is a total solution supplier for noise and vibration applications. Discover more at www.dataphysics.com.

Dewetron, Inc.

10 High Street, Ste K
Wakefield, RI 02879
401-284-3750, Fax: 401-284-3755
dewetron.sales@dewamerica.com
www.dewamerica.com

Dewetron is a maker of PC based data acquisition systems, simultaneous sampling, 16 to 24-bit resolution, which can record analog, PCM, CAN BUS, VIDEO, GPS and many other data types, synchronously. Portable and laboratory systems, from 8 to 1000 channels.

Dynamic Design Solutions

Interleuvenlaan 64
Leuven, 3001, Belgium
32-16-40-23-00, Fax: 32-16-40-24-00
info@femtools.com
www.femtools.com

Dynamic Design Solutions offers the FEMtools suite of software products for structural dynamics simulation, test planning, test-analysis correlation, FE model updating, and design optimization. The software is based on a customizable solver- and platform-independent framework. DDS introduces new tools for mass properties identification, material identification and structural health monitoring.

■ **Dytran Instruments, Inc.**

21592 Marilla Street
Chatsworth, CA 91311
818-700-7818, Fax: 818-700-7880
info@dytran.com
www.dytran.com

Dytran is a leading designer and manufacturer of piezoelectric and MEMS style accelerometers, force sensors, pressure sensors, impulse hammers, impedance heads, cable assemblies and support electronics. Their sensors serve in modal analysis, structural dynamics, NVH, ESS and crash application to name a few.

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Endevco Corporation

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www.endevco.com

For 60 years, Endevco has been the leader in mission critical measurement for demanding vibration, shock and pressure applications. Endevco's broad product offering includes piezoelectric, piezoresistive and variable capacitance based accelerometers and pressure sensors and complementary accessories.

ETS Solutions

575 Dogwood Street, S.E.
Concord, NC 28025
704-784-5527, Fax: 704-784-8674
etsusa@etssolution.com
www.etssolution.com

Global provider of vibration testing systems specializing in the design and manufacture of a wide-range of electrodynamic shaker systems, stand-alone and integrated horizontal slip tables, long-stroke shakers, head expanders, digital switching power amplifiers, and transducer calibration systems.

G.R.A.S. Sound & Vibration

23621 Lorain Road
North Olmsted, OH 44070
440-779-0100, Fax: 440-779-4148
sales@gras.us
www.gras.us

G.R.A.S. Sound and Vibration offers a broad range of standard measurement micro-phones, preamplifiers, transducers and accessories, sound intensity microphones, outdoor monitoring microphones, KEMAR head and torso, artificial ears, ear and mouth simulators, CCP preamplifiers, calibrators, etc. Our microphone-preamplifier combinations feature built in TEDS, microphone arrays. G.R.A.S. also offers microphone systems for measurement of low noise levels below the threshold of hearing.

■ **Hitec Products, Inc. (HPI)**

100 Park Street
Ayer, MA 01432
978-772-6963, Fax: 978-772-6966
vincew@hitecprod.com
www.hitecprod.com/

HPI is a manufacturer of strain gages for hostile environments. Other manufactured sensors include temperature sensors, fine wire devices and related products. Ultra-high temperature and encapsulated, ruggedized sensors are included in our product mix. Accessories and installation materials are also available from HPI.

Instrumented Sensor Technology, Inc.

4704 Moore Street
Okemos, MI 48864
517-349-8487, Fax: 517-349-8469
hoshal@isthq.com
www.isthq.com

Design and manufacture of portable, battery powered data recorders for dynamic measurements. Units from 1-9 channels, digitization to 50 kHz, onboard memory to 108MB. Low power for extended field deployment to several months. Specializing in shock, vibration, impact, angular rates. Applications cover transportation monitoring, crash test, drop test, flight test, ride quality, and more.

■ **Kistler Instrument**

75 John Glenn Drive
Amherst, NY 14228-2171
716-691-5100, Fax: 716-691-5226
sales.us@kistler.com
www.kistler.com

Kistler will exhibit a comprehensive line of accelerometers and instrumentation for modal testing. An expanded Line of triaxial piezoelectric accelerometers is the booth feature. New accelerometers with advanced crystal elements are highlighted.

LDS Test and Measurement

8551 Research Way, M/S 140
Middleton, WI 53562
608-821-6600, Fax: 608-821-6691
sales@lds.spx.com
www.lds-group.com

LDS is your single source supplier of a wide array of vibration test and data acquisition systems including modal testing and analysis. LDS shakers address excitation needs from small delicate structures to large complex structures. LDS-Dactron portable dynamic signal analyzers offer a choice of USB interfaced analyzers from hand-size 4 channel units to 40 channel systems. LDS-Nicolet provides high performance data acquisition systems and ruggedized transient recorders including the new portable single box solution Genesis 5i offering up to 40 configurable channels streaming up to 50 MB/s or up to 100 MS/s transient.

LMS North America

5755 New King Street
Troy, MI 48098
248-952-5664, Fax: 248-952-1610
info@lmsna.com
www.lmsintl.com/

LMS will be introducing significant new capabilities related to structural testing and civil structures (as well as traditional automotive and aerospace markets). On the hardware side, the signal conditioning for the Scadas Mobile has been extended with two new innovative modules. The first module is the VB8 which not only supports bridge measurements in 1/4, 1/2 and full bridge but also ICP and Voltage mode. The second module is the VC8 module supporting charge, ICP and Voltage measurements. For LMS Test.Lab software, several new modules are introduced. LMS Test.Lab now supports Stepped Sine as well as Normal Modes measurements making it the most complete acquisition and analysis system for aerospace customers. LMS Test.Lab has also been extended with a new Transfer Path Analysis Module, allowing any user to solve a transfer path problem in an easy, integrated solution. For Acoustics, LMS has brought its beamforming-focalization source localization product to the market. Please visit our booth where LMS engineers will explain how our solutions can be applied to civil structures. The applications range from strain gauge measurements for Fatigue life estimation, vibration control measurements to simulate earthquake testing, all the way to operational modal analysis and Polymax for detailed bridge monitoring applications.

Larson Davis, a PCB Piezotronics division

3425 Walden Ave.
Depew, NY 14043
888-258-3222, Fax: 716-926-8215
sales@LarsonDavis.com
www.LarsonDavis.com

Larson Davis will display their complete line of sound level meter and acoustic measurement products, including new Model 831. Model 831 features a lightweight ergonomic design, standard 120 dB dynamic range, real-time 1/3 octave spectra, exceedance logging, and the added capability to compute acoustic metrics, such as reverberation time, for architectural and material acoustics applications. For environmental monitoring Larson Davis, will also display their new outdoor microphone system, Model 426A12.

MB Dynamics

25865 Richmond Road
Cleveland, OH 44146
216-292-5850, Fax: 216-292-5614
sales@mbdynamics.com
www.mbdynamics.com

MB Dynamics is a leading supplier of modal exciters worldwide. The MB Modal Family includes the Modal 2, 25, 50, 110 and 250 exciters. MB introduces the MB Series amplifiers, a linear amplifier with voltage and current feedback and a programmable channel controller having various on-board peripherals and program memory. Thus, the PC controlling the modal test can communicate directly with every MB amplifier via Ethernet or wireless.

m+p international inc.

271 Grove Avenue, Building G
Verona, NJ 07044
973-239-3005, Fax: 973-239-2858
sales@mpina.com
www.mpihome.com

Product designers and test engineers throughout the world trust m+p international for reliable noise and vibration analysis, vibration/acoustic control and continuous on-line monitoring. On display will be m+p's Smart Office Analyzer with VXI, LXI and USB measurement hardware along with the new VibPilot 24 data acquisition and control system. Also available is the new m+p Continuous Online Data Acquisition Systems, LXI CODA.

MicroStrain, Inc.

459 Hurricane Lane
Williston, VT 05495
802-862-6629, Fax: 802-863-4093
TLBarrows@microstrain.com
www.microstrain.com

MicroStrain's smart, wireless, micro-miniature displacement and orientation systems provide reliable data under extreme operating conditions. Our Wireless Sensor Data Aggregator gathers highly synchronized data from wireless nodes measuring strain, load, displacement, pressure, acceleration and temperature. Applications include model analysis, health monitoring of structures and condition-based monitoring of machines.

The Modal Shop, Inc.

3149 East Kemper Road
Cincinnati, OH 45241
513-351-9919, Fax: 513-458-2172
sales@modalshop.com
www.modalshop.com

The Modal Shop is your "original one-stop sound & vibration shop" for all your dynamic measurement needs. Stop by to learn about our complete rental service program of modal test systems, data acquisition products, precision acoustic instrumentation, accelerometers, impact hammers, signal conditioning, calibration equipment, ICP[®] tachometers and test accessories. Products on display include our new 3D optical digitizer, our family of modal shakers, and innovative TEDS sensor support products.

NAFEMS

1829 Dickerson Blvd, Suite 102
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704-248-2628, Fax: 704-780-1352
matthew.ladzinski@nafems.org
www.nafems.org

NAFEMS is a non-profit membership association of more than 900 companies from all over the world. Its mission is to act as a trusted source and a collaborative resource for the best engineering modeling, simulation and analysis practices in the development of safe, reliable, and affordable products.

National Instruments

11500 N. Mopac Expy
Austin, TX 78759
512-683-5461, Fax: 512-683-5500
kurt.veggeberg@ni.com
www.ni.com/soundandvibration/

National Instruments offers sound and vibration hardware and software for a wide range of industrial and development applications, including predictive maintenance, machine diagnostics, and test cell applications. National Instruments sound and vibration hardware features 24-bit ADCs at sampling rates up to 204.8 kS/s in PXI, PCI, and USB platforms for flexible, accurate measurements. Sound and vibration analysis software, including both interactive, configuration-based software and NI LabVIEW analysis VIs, provides audio measurements, fractional-octave analysis, frequency analysis, transient analysis, and machine vibration order tracking.

OROS

502 Shaw Road, B - 101
Dulles, VA 20166-9435
888-200-OROS (6767), Fax: 703-478-3205
Info@OROSInc.com
www.oros.com/

Adding to the widest range of analyzers available, stop by our booth to see the new 3-series analyzers. The new 3-series vary in channel count from 2 to 64 channels, have 24-bit front-ends and offer an Excel-based sequencer for ease of modal acquisition. The 3-series are also multianalyzers enabling one to acquire spectral data and time records simultaneously. With a host of NV Solutions available, OROS is reaffirmed as trendsetter in modal analysis.

Ometron

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bkinfo@bksv.com
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See the state-of-the-art in scanning laser vibrometer systems. Built-in, on-axis color video imaging makes scan setup easy. Extreme optical sensitivity means no drop-outs or need for attaching retro tape. Flexible signal processing with integrated Nyquist diagrams gives unmatched analytical capabilities. The new MasterScan 6 module even allows your laser to be remotely controlled by I-DEAS.

■ **PCB Piezotronics, Inc.**

3425 Walden Ave.
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716-684-0001, Fax: 716-684-0987
info@pcb.com
www.pcb.com

PCB Piezotronics manufactures a complete range of accelerometers, microphones, pressure sensors, force sensors, and torque transducers utilizing ICP®, piezoelectric, capacitive, strain gage, piezoresistive, TEDS, and MEMS sensing technologies.

Pacific Instruments, Inc.

4080 Pike Lane
Concord, CA 94520
925-827-9010, Fax: 925-827-9023
sales@pacificinstruments.com
www.pacificinstruments.com

Pacific Instruments provides high-performance transducer signal conditioning and data acquisition systems. Hardened systems for explosive testing and transducer amplifiers with 300V common mode are offered as well. Each product is complimented by a turn-key, flexible and intuitive Windows-based software package.

Polytec, Inc.

16400 Bake Parkway, Suites 150 & 200
Irvine, CA 92618
714-850-1835, Fax: 714-850-1831
info@polytec.com
www.polytec.com

Polytec is the global leader in noncontact vibration measurement for micro and macro modal and structural analysis. Witness the PSV-400-3D quickly measure 3-D vibration vectors over entire structures without instrumenting with accelerometers. This eliminates the challenges of excessive wiring, gluing, mass loading, increased local stiffness and signal conditioning. Also see the New RoboVib Structural Test Station for automated modal analysis which was ranked highest of all vibration testing solutions in the MessTec & Sensor Masters Award 2008. Learn more about the most advanced technology for measuring single point, 1D and 3D vibrations on large and small structures.

Polytec is "Advancing Modal Analysis by Light".

Precision Filters, Inc.

240 Cherry St.
Ithaca, NY 14850
607-277-3550, Fax: 607-277-4466
pinfo@pfinc.com
www.pfinc.com

Precision Filters manufactures high performance instrumentation for test measurements including signal conditioning for vibration, shock and rotating machinery applications, programmable switch systems and portable filter/amplifier systems. PFI will exhibit the 28000 System which provides a complete range of transducer conditioning with up to 256 channels per chassis. Precision's new solid-state switch provides up to 256x256 cross-point switching and replaces tedious manual patch panels. The new PF-1U provides 8 or 16 channels of high performance filter/amplifiers in a compact package with Ethernet control.

SAVIAC

1104 Arvon Road
Arvon, VA 23004
(434) 581-3041, Fax: (434) 581-3037
ashley.shumaker@saviac.org
www.saviac.org

SAVIAC serves as a resource for people concerned with structural dynamics design, analysis, and testing; and shock physics and weapons effects. SAVIAC focuses on the design, analysis and testing of ships, aircraft, spacecraft, ground vehicles/structures, machinery and human systems subjected to dynamic conditions and loading, including watershock, vibration, blast, impact, and crash.

SINUS Messtechnik GmbH

FoepplstraBe 13
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49-34-124-4290, Fax: 49-34-124-42999
david.mackenzie@sinusmess.de
www.sinusmess.de/

US contact: roger@ancoustics.com
952-368-3590

SINUS Messtechnik is a leading manufacturer of Precision Noise & Vibration Measurement Instrumentation. We have the only PTB approved multi-channel Type 1 Sound Level Meter / Real Time Analyzer, the Soundbook. Our Soundbook is also a fully capable vibration analyzer and is built into the very rugged Panasonic CF-19 Toughbook computer. We offer other analyzers from 1 to 128 channels.

SpectraQuest, Inc.

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Richmond, VA 23228
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www.spectraquest.com

Machine Diagnostics products; Machinery Fault Simulators; Complete infrastructure for Turn-key Vibration Training System; Costeffective Software CDs for: Vibration and Signal Processing Simulation, Design Assist Vibration Calculations, Balancing and shaft alignment; Multi-channel DAQ with innovative software for analysis and modeling.

■ **Spectral Dynamics, Inc.**

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San Jose, CA 95134-2012
408-678-3500, Fax: 408-678-3580
sales@sd-star.com
www.spectraldynamics.com

Spectral Dynamics (SD) is a technically innovative company that has served the Shock and Vibration community continuously for 47 years. Whether it's true Sine control of challenging tests, innovative MIMO control of multiple shakers or accurate Phase-locked acquisition of hundreds of channels of data, Spectral Dynamics uses mathematics effectively to reduce the total costs of dynamic testing.

At IMAC XVII we will be showing the very latest in Data Acquisition, Shaker Control and Modal Analysis including our new BOBCAT, ruggedized, compact Analyzer and LYNX shaker control system. Call Spectral Dynamics for a customized solution to your needs in Vibration, Shock or Acoustic Test Control; Multi-Channel Data Acquisition; Modal Analysis or PIND Testing. We will help you craft a technically correct, affordable, solution.

Springer

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Springer is a leading publisher of engineering books and journals. Visit our booth at IMAC to pick up free sample journal copies and the chance to browse through our bestselling and recently published books in Structural Dynamics, with special discounts for SEM members and conference participants.

Structural Vibration Solutions A/S

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www.svibs.com

Structural Vibration Solutions A/S is the developer of ARTeMIS Extractor. The patented modal analysis software for the vast number of cases where it is preferred not to control or measure the loading. If you can measure the vibrations, ARTeMIS Extractor can give you the modes in terms of mode shape, natural frequency and damping ratio.

Team Corporation

11591 Watertank Road
Burlington, WA 98233
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sales@teamcorporation.com
www.teamcorporation.com

Team Corporation designs and manufactures test equipment to make sure the products our customers build (ship, use, test, own, etc) can survive the vibration environment they will experience during their use or lifetime. These products include vibration and shock test equipment – vibration exciters and vibration test support bearings.

Tritek / TEAC Data Recorders

569 Bay Rd., POB 357
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sastulfi@tritekdatasystems.com
www.tritekdatasystems.com

Tritek is proud to be the Authorized North American Distributor for TEAC Data Recorders and ROGA Instruments. TEAC offers a complete range of Instrumentation Data Recorders, utilizing AIT tape, flash-memory card, and hard-disk recording media, with onboard signal conditioning. The new LX-110/120 Series, featuring higher resolution and increased recording capacity, and the AQ-VU Video/Data Recorder, will be on display. ROGA Instruments offers USBbased Signal Conditioning and Front-end Data Acquisition solutions for noise and vibration measurements.

VXI Technology, Inc.

2031 Main Street
Irvine, CA 92614
949-955-1894, Fax: 949-955-3041
sales@vxitech.com
www.vxitech.com/

VXI Technology is a leading supplier of high-density, computer independent modular instruments. Our new VT1432B family of 24-bit digitizers with DSP is the most powerful multi-channel measurement system for Noise & Vibration testing. Our open user interface and multi-platform support provide for unmatched performance and flexibility.

■ Vibrant Technology, Inc.

5 Erba Lane, Suite B
Scotts Valley, CA 95066
831-430-9045, Fax: 831-430-9057
sales@vibetech.com
www.vibetech.com

ME'scopeVES 5.0 contains all of the tools you need to visualize, analyze, and document noise & vibration problems in structures and operating machinery. You can post-process impact, shaker, or operating data using single or multiple references. A variety of modal, operating modal, and ODS techniques are available, as well as advanced SDM tools for investigating the effects of structural modifications on resonances. You can start with a low cost ME'scopeVES option and upgrade to options with more features as you need them.

Vibration Research Corporation

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query@vibrationresearch.com
www.vibrationresearch.com

Vibration Research Corporation designs and manufactures innovative vibration control systems for electrodynamic and servohydraulic shakers. Vibration Research Corporation was the first to introduce and offer long time field data replication and is once again a pioneer in offering kurtosis control of random testing through our new Kurtosion® software module.

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