

**QUICK  
CALENDAR**

- Philadelphia to host 78th Shock and Vibration Symposium (November 2007)
- Free Shock and Vibration Seminar (March 7, 2007—New Orleans, LA)
- Practical Shock Analysis & Design Course (March 19-23, 2007—Hampton, VA)
- Final 77th Papers Due March 31, 2007

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**CURRENT AWARENESS**

JANUARY 2007

**HI-TEST Laboratories Win Second SAVIAC Contract**



SAVIAC is the oldest forum within the U. S. Government directed towards the transient and vibratory response of materials and structures. It covers many of the technological subjects of great importance to the services, DoD, and Nation such as ship shock trails, vibration of rotating equipment, UNDEX, structural response to blasts, target-weapon interaction, air blast, ground shock, antiterrorist technologies, and detonation physics. SAVIAC was authorized by the Chief of Naval Research on 20 December 1946 to collect, correlate, and disseminate shock and vibration information for the Navy. It quickly became the information forum of choice for the Army, Air Force, and DoD as well. SAVIAC now enjoys tri-service financial support, and financial support from the DoE Laboratories and the Defense Threat Reduction Agency.

HI-TEST Laboratories was awarded the contract to operate SAVIAC in March of 2002 by the U.S. Army Engineer Research and Development Center (ERDC), which directs SAVIAC for the Department of Defense. This contract was for 1 year, with four option years, and will expire in March of 2007. Those of you who have attended the annual Shock and Vibration Symposia managed by HI-TEST bear witness to their exceptional job.

ERDC issued a request for proposals to the community for a follow-on contract to operate SAVIAC in August 2006. The work statement, similar to the 2002 work statement, called for conducting annual Shock and Vibration Symposia, publishing the symposium proceedings, publishing the Current Awareness monthly newsletter, sponsoring the journal Shock and Vibration, etc. It is my pleasure to report that HI-TEST was awarded a follow-on 1-year contract, with four option years. The new contract will begin March 15, 2007, with the option years allowing for the operation of SAVIAC up until March 14, 2012.

The association of HI-TEST with SAVIAC and the SAVIAC community began with the inception of HI-TEST in 1975. Their support has been exceptional.

Congratulations to the HI-TEST team! This team includes, among others: Mr. Drew Perkins, the SAVIAC Program Manager; Mr. Bill Yancey, President of HI-TEST; Mr. Jeff Morris, Operations Manager; Mr. Henry Pusey, former Director of SAVIAC and HI-TEST Lead Technical Advisor; Ms. Sallie Pusey, Course Registrar and Symposium Registrar; and Ms. Laura Davis, Exhibit Hall Manager. We also thank Ms. Darnise Johnson for her past service to SAVIAC.

*By Dr. Bob Welch, SAVIAC Director*

**Philadelphia Selected for the 78th Shock and Vibration Symposium**

The upcoming 78th Shock and Vibration Symposium will be held at the Sheraton City Center Hotel in Philadelphia, PA. The dates for this event are set for November 4-8, 2007. The featured organizations for this symposium are NAVSEA Warfare Center (Carderock Division) and General Dynamics Electric Boat. The summer seminar and TAG Program Committee meeting will likely be held at this location in late June 2007.

For more information on the symposium, or for information on the hotel, please visit [www.saviac.org](http://www.saviac.org) and click the "78th Shock and Vibration Symposium" link from the main page.



Mr. Henry Pusey addresses the community during Opening Session of the 77th Symposium



Past Symposia Proceedings are Available on CD through the SAVIAC Office



SAVIAC has Published 17 Monographs and is Planning on Releasing the 18th in mid-2007

## SAVIAC Technical Services

By Henry Pusey, SAVIAC Lead Technical Advisor

January 2007 is the 60<sup>th</sup> anniversary of the first Shock and Vibration Symposium. Although the names have changed over the years from the Centralizing Activity in 1947 to the current SAVIAC, the mission and goals have changed very little. The technical community served has greatly expanded from Navy organizations and their contractors to a broad international government-industrial complex, although our principal users are still U.S. government agencies and their contractors. Our capability to serve our users has also increased greatly. In 1947 technical papers were prepared on typewriters and computations were done by hand or by slide rules. Today we have high speed personal computers and the internet for almost instantaneous transmission of technical information. The rapid advances in digital technology not only makes it possible to solve complex problems in dynamics, but also provides SAVIAC with the tools to respond rapidly to the information needs of our users.

The centerpiece of SAVIAC services is the annual Shock and Vibration Symposium. Each year over a five-day period it provides:

- a platform to present papers on advancements in shock and vibration technology
- a proceedings containing written versions of the papers presented
- the opportunity to present and publish papers for public release, as well as limited or classified papers
- a mechanism for the exchange information and ideas in Discussion Groups, Panel Sessions and by informal networking with colleagues in the foyers and at social events
- an extensive exhibition of organizations offering the latest new products and services
- educational opportunities through numerous and varied optional tutorials and lectures by experts during a dedicated Training Track
- a Town Meeting at which participants may offer constructive comments and ideas for improving future symposia

This series of symposia is unique; there are no other conferences dedicated solely to this important technology which has broad applications throughout government and industry. **Make your plans now to attend the 78<sup>th</sup> Symposium in Philadelphia, Pennsylvania this fall.**

In addition to symposium proceedings, SAVIAC has published monographs (SVM 1-17). Check [www.saviac.org](http://www.saviac.org) for availability and prices. SVM 18

will be a reprint of the classic book on *Underwater Explosions* by Robert Cole.

Although it has not been generally advertised, SAVIAC has been regularly responding to technical queries. As Technical Services Manager it is my responsibility to handle technical questions on any aspect of shock and vibration. You may email a description of your problem directly to me ([saviac@adelphia.net](mailto:saviac@adelphia.net)) or to Drew Perkins at [drew.perkins@saviac.org](mailto:drew.perkins@saviac.org). There is no charge for routine queries. For problems that require significant time by one of our consultants, a fee will be negotiated.

SAVIAC will provide specialized training on any aspect of shock and vibration for which there is a need. This training would be in the form of short courses such as our current course on *Practical Shock Analysis and Design* and may be presented on-site or offered publicly. If you are aware of a need for training in a specific technical area, email me a description of the requirement. I will first check to learn if such training is already available and, if so, identify the source. If it is not available I will find qualified instructors and develop a Syllabus. If the course is needed on-site I will send you a proposal. If you wish to discuss the course requirements, please call me on (540) 678-8677.

SAVIAC operates under an Army Grant although most of its operational funding must come from its users and sponsors. The operation of SAVIAC is the responsibility of Program Manager Drew Perkins who manages all SAVIAC activities with the approval of SAVIAC Director Dr. Charles R. Welch from the U.S. Army Engineer Research and Development Center. Dr. Welch and Mr. Perkins receive guidance from a Technical Advisory Group (TAG) made up of key representatives of government agencies and industry. If your organization has major activities or concerns about shock and vibration technology you may request that you or an alternate become a TAG Member. The TAG meets at the symposium and also in the winter and summer. At the summer TAG the preliminary program for the Fall symposium is developed. At both the winter and summer TAG meetings SAVIAC organizes and presents a full-day Seminar with key speakers on diverse topics selected to provide a sampling of technology one may expect at the symposium. The hope is that these public service seminars will attract new participants and speakers at future symposia. SAVIAC exists to serve you. Any suggestions on how we can do this job better are most welcome.



WILL BE EXHIBITING & PARTICIPATING  
IN THE TECHNICAL PROGRAM AT THE  
FOLLOWING SHOW:

# IMAC-XXV: Conference & Exposition on Structural Dynamics

February 19-22, 2007

Rosen Shingle Creek Resort & Golf Club  
Orlando, Florida USA

## Preconference Courses:

Modal Analysis: Theory & Application (Feb. 15-17)

Instructors: David L. Brown, R.J. Allemang, University of Cincinnati; P. Avitabile, University of Massachusetts, Lowell

Nonlinear Vibrations: Theory & Practice (Feb. 15-16)

Instructors: Charles M. Krousgrill, Doug E. Adams, Purdue University

Identification & Simulation of Nonlinear Systems (Feb. 16-17)

Instructors: Julius S. Bendat, J.S. Bendat Company; Kjell A. Ahlin, Axiom EduTech AB/Blekinge Institute of Technology

Using MATLAB® for Noise & Vibration Analysis (Feb. 18)

Instructors: Kjell A. Ahlin, Axiom EduTech AB/Blekinge Institute of Technology;

Anders Brandt, Axiom EduTech AB

Verification & Validation of Computational Models (Feb. 18)

Instructors: John A. Cafeo, General Motors; François M. Hemez, Los Alamos National Laboratory; Randall Mayes, Todd Simermacher, Sandia National Laboratories

Fiber Optic Sensors (Feb. 18)

Instructor: Chris Baldwin, Aither Engineering, Inc.

## Conference Highlights:

Three Plenary Presentations:

**Dr. David L. Brown**, University of Cincinnati,  
"IMAC 25<sup>th</sup> Anniversary - Historical Review"

**Dr. Paul F. Mlakar**, U.S. Army Engineer Research & Development Center,  
"Designing for Failure - Lessons from 9/11 and Katrina"

**Dr. David J. Ewins**, Imperial College, London,  
"Towards the Outer Envelope of Modal Analysis"

Awards Luncheon with Presentation by:

**Dr. Carlos E. Ventura**, The University of British Columbia,  
"Twenty-five Years of CIVILization of Modal Analysis"

Modal Analysis for the New/Young Engineer

Modal Topics - What's Next?

Teaching Technology in Education

Sessions on the World Trade Center, Non-linearities, and Model Validation & Uncertainty Quantification

Four Days of Technical Programming

Three-Day Exposition



Find Complete Course, Conference, and Hotel Details and  
Register *Now* Online at:

**sem.org**

IMAC-XXV is organized by the Society for Experimental Mechanics, Inc.

## Response of Marine Structures to Underwater Explosions

Shock & Vibration Research  
Professor Young Shin & Professor Thomas Geers  
March 27-30, 2007  
Monterey, CA

The purpose of this 4-day short course is to provide engineers, scientists, and naval architects a discriminating review of underwater explosion phenomena, structural response analysis, fluid-structure interaction, shock spectrum concept, and shock-induced vibration analysis of shipboard equipment.

The contents include: (1) Underwater Explosion Phenomena: Sequence of Underwater Explosion Events, Hydrodynamic Relations, Underwater Acoustic Waves, Air-Water Interface, Shock Wave Parameters, Bubble Behavior and Bubble-Pulse Loading, Bulk and Local Cavitation, Scaling; (2) Elements Of Structural Dynamics: Analytical Dynamics, Classical Linear Oscillator, Two-Degree-of-Freedom System, Finite Element Discretiza-

tion and Modelling, Finite Difference Time Integration; (3) Fluid-Structure Interaction: Athwartship Response of Submarine, Vertical Response of Surface Ship, Submerged Plate Oscillator; (4) DAA-Based Analysis: Submerged Spherical Shell, FE/BE Fluid-Structure Interaction; (5) Fluid Volume Discretization: Fluid Cavitation, Validation of Computer Codes; (6) Modelling And Shock Simulation: 3D Ship Shock Analysis, Modeling and Approaches; (7) Shock Qualification Of Shipboard Equipment By Design Analysis: Shock Spectra, Normal Mode Analysis, Response of a Multi-DOF System to Shock Motion; (8) Dynamic Design Analysis Workshop: Dynamic Design Analysis Method (DDAM), DDAM Step-by-step Analysis Procedure, Design Criteria of Shipboard Equipment Using DDAM; (9) Application To Shipboard Equipment Using Design Analysis: Application Problems.

Contact [yshin2004@sbcglobal.net](mailto:yshin2004@sbcglobal.net), Tel (831) 277-7117, Fax (831) 375-4999, Shock and Vibration Research.

## Explosion Effects and Structural Design for Blast

A 2-day Training Course  
Drury Inn & Suites  
Atlanta Airport  
February 21 and 22, 2007

Engineers have an opportunity to improve their skills in understanding explosion effects and designing facilities that are safer to occupants by understanding and minimizing the effects of explosive detonations on structures. Architects, first responders, builders and others will also benefit by understanding explosion effects and protective design methods. Most new government buildings now require some level of blast resistant design and this training will address those requirements. Each participant will receive a certificate indicating 15 Professional Development Hours (PDHs) that can be used to meet continuing education requirements for professional engineers in most states.

The course will focus on the fundamentals of explosion effects, determining

blast loads on structures, computing structural response to blast loads, and the design and retrofit of structures to resist blast effects. The emphasis will be on terrorist threats from vehicle bombs, but the fundamental concepts can be applied to other explosive scenarios. Currently available software and publications for blast effects and design guidance will be demonstrated and discussed. Much of the design guidance is restricted distribution to government agencies and their contractors, however specific information on how qualified users may obtain the software will be provided. Several computer programs for blast effects and blast design have recently been developed by the government for general release and those programs will be discussed along with instructions on how to obtain the software. All of the software and references discussed in this course is available free of charge to qualified users. Participant will gain an understanding of how to compute explosion effects like overpressure and impulse; blast loading on a structure; how

a structure responds to blast loading; and practical methods for designing and retrofitting structures to resist blast effects. Participants will be provided a complete set of class notes. Training will run 8am to 5pm each day, and lunch and coffee at breaks will be provided for participants each day of the course.

More information about the instructors, the course, and accommodations can be found at

<http://www.blastdesigntraining.com/>  
Secure on-line registration is available.

Questions should be directed to Dr. Sam Kiger at 573-882-3285, [KigerS@missouri.edu](mailto:KigerS@missouri.edu) or Dr. Stan Woodson at 601-636-4429, [woodsoneng@netzero.net](mailto:woodsoneng@netzero.net).

Room reservations can be made 1-800-325-0720 (mention explosion effects training to get a reduced rate). The room rate includes complimentary breakfast and airport shuttle.

**SAVIAC  
Course**

## Shock & Vibration Winter Seminar

**Course  
Announcement**

SAVIAC invites you to attend a FREE seminar on Shock & Vibration. The course will be held on March 7, 2007 at the Royal Sonesta Hotel, New Orleans, LA in conjunction with the SAVIAC Winter Technical Advisory Group (TAG) Meeting. SAVIAC and the featured experts in their disciplines have organized this seminar to introduce you to the SAVIAC community, while providing a valuable educational experience. Please view the seminar agenda on-line at [www.saviac.org](http://www.saviac.org).

The seminar is free, but you must register to attend. Please RSVP to Drew Perkins, (804) 282-5570 or [drew.perkins@saviac.org](mailto:drew.perkins@saviac.org) to assure your space and note packet.

For the Winter Seminar Registration form, directions to the Royal Sonesta Hotel, and additional information about SAVIAC, please visit our website at [www.saviac.org](http://www.saviac.org) and use the link for the Winter Seminar and TAG Meeting.

<b>Hotel:</b>	<b>The Royal Sonesta</b>	<b>Location:</b>	<b>New Orleans, LA</b>
<b>Room Rate:</b>	<b>\$148 (Group name - SAVIAC)</b>	<b>Phone #:</b>	<b>(504) 586-0300 or (800) SONESTA</b>

## Call For Papers

**78th Shock and Vibration Symposium  
November 4 - November 9, 2007  
Sheraton City Center ~ Philadelphia, PA**

**78th  
Symposium**

Planning the 78th Shock and Vibration Symposium is underway, with the selection of the Sheraton City Center in Philadelphia, PA. The featured government agency is the NAVSEA Warfare Center - Carderock Division. The featured commercial agency is General Dynamics Electric Boat.

The Shock & Vibration Symposium is the oldest US Government sponsored forum dealing specifically with the shock and vibratory response of air, sea, space, and ground vehicles and structures and blast effects. The Symposium was established as a mechanism for the exchange of information among Government activities, private industry, and academia on current work and new developments. Presentations on work in progress are encouraged. Separate sessions are held for presentation of classified or limited-distribution material.

The following is a list of suggested subject areas (other subject areas are welcome):

901D Case Studies	Dynamic Analysis Methods	Large Structures	Shock Hardening
Active Vibration Control	Dynamic Measurement	Live Fire Testing	Shock Qualification by Extension
Ballistic Shock	Dynamic Scale Modeling	Machinery Diagnostics	Shock Test/Equipment Failure Modes
Biodynamics	Dynamic Testing	Machinery Vibration	Simulation Methods
Blast Design	Environmental Databases	Material Dynamic Properties	Specifications and Standards
Combined Environments	Finite Element Analysis	Modal Analysis and Testing	System Identification
Computational Structural Dynamics	Fluid-Structure Interaction	Product Announcement/Facility Description	Test Criteria
COTS	Ground Shock	Seismic Shock	Test Tailoring
Crash Dynamics	Impact/Penetration Mechanics	Pyrotechnic Shock	Underwater Shock Testing
Damage Identification Damping	Instrumentation	Shock Characterization	Vibroacoustics
Data Analysis	Isolation Systems		

*If you have a specific group of papers or presentations, consider submitting them together as a dedicated session for the 78th symposium.*

Two categories of presentations will be accepted: full papers, suitable for publication in the Symposium Proceedings; and short discussion topics, consisting of viewgraphs with no written paper. Full papers will have a 15 minute technical presentation time plus 5 minutes for questions, while short discussion topics will have a 10 minute presentation time with no question period.

Presentations will be accepted on the basis of their abstracts, which must be submitted by June 1, 2007. You are encouraged to submit online at [www.saviac.org](http://www.saviac.org), click on 77th S&V Symposium Abstract Submittal. The Program Committee will review the abstracts during the June Program Committee meeting and authors will be notified of acceptance by July 14, 2007. The full paper presentations must meet the following standards: They must be previously unpublished, must be appropriate to community interests and must not be overtly commercial, except for papers in the Product/Facility Session. Standards for short discussion topics are similar except that they may include previously presented or published material.

The Proceedings will be published on CD-ROM.

The paper due-date (for the proceedings) is February 28, 2008.

Questions should be directed to Drew Perkins, 804-282-5570, or [drew.perkins@saviac.org](mailto:drew.perkins@saviac.org).

## PRACTICAL SHOCK ANALYSIS AND DESIGN COURSE

### 2007 Schedule and Locations

March 19-23, 2007 (Hampton, VA)  
August 20-24, 2007 (Philadelphia, PA)

May 7-11, 2007 (San Diego, CA)  
September 17-21, 2007 (Bath, ME)

#### ***About the Course***

At the first Shock and Vibration Symposium in 1947, mechanical shock was defined as "a sudden and violent change in the state of motion of the component parts or particles of a body or medium resulting from the sudden application of a relatively large external force, such as a blow or impact." Since then the specific words used have changed somewhat but the meaning remains the same. Most analysts treat shock as a transient vibration. No matter how it is described or what source produced it, the effects of mechanical shock on structures and equipment create major design problems for a wide variety of systems.

This course will provide a comprehensive treatment of practical shock design and analysis with special emphasis on applications related to the design of ship structures and equipment for shock loads produced by underwater explosions.

Participants in this course will have an opportunity to increase their knowledge and understanding of the analytical and experimental tools that are available for shock design and qualification particularly with respect to requirements that are imposed for shipboard equipment. The lectures will provide a basic review of vibration and shock theory and will present the analytical and experimental methodology in the context of particular design applications. Analytical lectures will emphasize the physical significance of the results. Examples and case histories will be used as illustrations of design approaches; workshop problems that involve class participation will be used to advantage throughout the course. Class members will be encouraged to propose real design problems. The instructors will provide guidance for solutions or the problems may be used as class exercises.

Although this course is aimed primarily at shock design applications on ships, the analysis and design techniques presented are equally applicable to problems related to design for seismic loads or blast induced ground shock. Thus, engineers in these related areas may find the course to be useful. For all who participate, the course will provide a comprehensive coverage of shock design practice and a solid basis for further exploration of shock technology.

#### ***Instructors***

Dr. Rudolph J. Scavuzzo, Mr. Henry Pusey, Mr. G. D.Hill, Mr. Jeffery Morris

#### ***Course Topics***

Review of Basic Vibration Theory	Introduction to Mechanical Shock	Shock Measurement
Underwater Shock Phenomena	Multi-Degree-of-Freedom Systems	Navy Shock Qualification Process
Shock Qualifications by Test	Shock Qualification by DDAM	Shock Qualification by Extension
2-Dimensional Normal Mode Theory	Practical Design Considerations	Special Design and Analysis Tools
3-Dimensional Normal Mode Theory	Optimum Foundation Design	Use of Finite Element Analysis-DDAM
General Problem Solving Workshop		Review and Wrap-up Sessions

#### ***Course Registration***

The Registration Fee is \$1500 per student. The registration is transferable to any person in the same organization. The fee includes a comprehensive set of course notes, a text book entitled Naval Shock Analysis and Design by Rudolph J. Scavuzzo and Henry C. Pusey, a Certificate of completion worth 3 CEUs, as well as a Continental Breakfast, Lunch and coffee breaks daily. A Registration Form may be printed out from the SAVIAC Web Site or may be requested from Sallie or Henry Pusey. As SAVIAC Technical Services Manager, Henry Pusey will arrange for the scheduling, management and presentation of all courses. All completed registration forms should be faxed or mailed to Sallie Pusey at the address given below.

#### ***For registration information contact:***

Sallie Pusey, Course Registrar  
1877 Rosser Lane  
Winchester, VA 22601

Tel: (540) 678-8678  
Fax: (540) 678-8799  
email: saviac@adelphia.net

**NOTE: Registrants will be provided details about the course location and hotel(s) as soon as the course is firmly scheduled.**

## Conferences/Courses

### Random Vibration and Shock Test Training

National Technical Systems (NTS)

1146 Mass Avenue

Boxborough, Massachusetts 01719

March 6-8, 2007

This is a short course on practical vibration and shock testing, measurement, analysis and calibration, also HALT, ESS and HASS.

This course is for engineers and technicians who conduct developmental and production vibration and shock tests. Also by designers of products that must survive tests AND rigorous service conditions. Also by metrologists who measure vibration and shock on automobiles, aircraft, etc. Also by sales/applications engineers involved in the sales of equipment used in test (shakers, shock test machines, etc.) and measurement (transducers, data acquisition etc.).

The course will be taught by Wayne Tustin, vibration and shock educator and also president of Equipment Reliability Institute (ERI).

Many people conducting vibration and shock tests, ESS, HALT and HASS lack formal training in this specialized area of mechanical engineering. They do what they have shown, but often they don't understand WHY certain steps are necessary.

Registration and Course details can be found at: <http://www.equipment-reliability.com/course7.htm>

To register, visit <http://www.equipment-reliability.com/>

### Technology Training, Inc. (TTi) Winter Schedule

#### KENNEDY SPACE CENTER, FLORIDA

Jan. 22-24 / Course 163

Instrumentation for Test and Measurement

Jan. 25-26 / Course 172

Fiber Optic Systems

#### LAS VEGAS, NEVADA

Feb. 21-23 / Course 116

Fundamentals of Vibration for Test Applications

Feb. 26-Mar. 2 / Courses 104-5

Electronics for Non-Electronic Engineers

Mar. 5-6 / Course 130

Metrology Concepts

Mar. 12-15 / Course 142-4

Mechanical Shock and Modal Test Techniques

Mar. 19-21 / Course 310

Mechanical Design for Product Reliability

Mar. 19-23 / Course 157

Fixture Design for Vibration and Shock Testing

Mar. 26-28 / Course 196

Digital Data Acquisition

Mar. 26-30 / Course 194

Vibration and Shock Test Control Techniques

For more information visit [www.tti.edu](http://www.tti.edu).

### ESTECH 2007

IEST 53rd Annual Technical Meeting

April 29–May 2

Indian Lakes Resort

Bloomington, Illinois

No other venue offers such a diverse array of tutorials, seminars, workshops, exhibits, and networking events. Launch a new beginning to your professional career with the knowledge you'll gain during ESTECH 2007!

- Learn from the experts in your field. No other venue attracts such an extensive array of high-level professionals who share their knowledge in an informal and productive setting.

- Take home can-do knowledge that you can apply right away. Bring to your workplace scores of practical applications of the best practices in your field. Tutorials and seminars offer intensive and lively interaction with those who have successfully met some of the very challenges you are confronting today.

- Be part of setting the standards for your industry. Roll up your sleeves, join a Working Group (or two), and help write IEST Recommended Practices.

- Browse and compare products and services at the IEST Tabletop Expo. Talk with vendors about their state-of-the-industry products and services.

- And don't forget to have fun! A golf outing, an opening reception, an awards luncheon, and countless opportunities to take advantage of the resort setting: all await you at ESTECH 2007.

Please visit [www.iest.org](http://www.iest.org) for more information.

### Got News or Conference Announcements?

Please submit your information to [drew.perkins@saviac.org](mailto:drew.perkins@saviac.org) with a subject heading of "Current Awareness News"

## Industry News

### Scantek, Inc. Releases Vibro-Matrix 4-Channel PC-Based Vibration Analyzer

Scantek, Inc. is pleased to announce the availability of a newly revised VibroMatrix 4-channel PC-based vibration analyzer. Using up to four sensors or one or more sensors with different filtering from the same sensor, the curves may be shifted, scaled independently. System is real time with no delay between channels. Perfect for run-up, vibration with speed, rpm, and phase curves can be displayed. Available is a balancing program.

Also available as an alternative is the pocket-sized, rugged, tri axial vibration meter from MMF. The VM-30 is a 12 oz (350 g) unit is suited for bearing vibration, whole-body-, and hand-arm-vibration.

You can download a fully operational test version of the VibroMatrix, free of charge from [www.mmf.de/software\\_download.htm](http://www.mmf.de/software_download.htm) and check [www.mmf.de/news](http://www.mmf.de/news) for information on MMF products, all available from Scantek.

Scantek, Inc., an ISO 17025 NIST/NVLAP accredited Calibration Laboratory, is a distributor for multiple sound and vibration lines, including Norsonic, RION, CESVA Acoustical Instrumentation, Castle Group, KCF Technologies, Metra Vibration Transducers, DataKustik, RTA Technologies, BSWA Transducers, and Extech Sound and Vibration Instruments. Scantek is committed to providing quality sales, customer repair, service, and calibration of sound & vibration instrumentation. For more information, call (800) 224-3813 or visit [www.scantekinc.com](http://www.scantekinc.com).

### LMS extends Eastern European development and engineering center in Romania

*Transilvania University of Brasov and LMS conclude partnership agreement*

Leuven, Belgium – December 11, 2006

LMS today announced the extension of its Eastern European software development and engineering center in Brasov, Romania. LMS created the new center in 2006 to take optimal advantage of the extensive availability of top-quality engineers in Romania. By the end of 2006, the center will employ 40 people and will move to a new office facility in Brasov, enabling the further expansion to 100 employees. LMS currently employs over 750 people at 23 locations worldwide.

To support its expansion in Eastern Europe, LMS also concluded a partnership with the College of Engineering of the Transilvania University of Brasov. Through the partnership, LMS and the Transilvania University created the Engineering Center for Automotive & Aerospace (ECAA) as a joint center of excellence in engineering. The ECAA organizes training programs in physical testing and simulation and develops joint R&D programs, with a focus on mechatronic engineering applications in the automotive and aerospace industries.

### Department of Energy (DoE) selects Data Physics SignalCalc Dynamic Signal Analyzers for testing Naval Propulsion Systems

A Department of Energy (DoE) research and development facility (Schenectady, NY) recently took delivery of eight 4 channel SignalCalc Ace Dynamic Signal Analyzers and twenty two 32 channel SignalCalc Mobilizer Dynamic Signal Analyzers which can also function as a single 704 channel Savant system to form a comprehensive dynamic data acquisition and analysis capability to support the Naval Nuclear Propulsion Program responsible for the research, design, construction, operation, and maintenance of U.S. nuclear-powered warships.

After an exhaustive evaluation of available solutions the Department of Energy selected Data Physics over the potential European suppliers as having the most complete realtime data acquisition and analysis platform.

SAVIAC / HI-Test Laboratories, Inc.  
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Suite 110  
Richmond, VA 23229

ADDRESS SERVICE REQUESTED

## A LOOK INSIDE THE JANUARY 2007 *CURRENT AWARENESS*



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The Current Awareness newsletter is published by the Shock and Vibration Information Analysis Center, which is operated by HI-Test Laboratories, Inc., under contract to the U.S. Army Engineer Research and Development Center.

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