



August 2003

Exciting New Program Additions For The 74th Shock & Vibration Symposium

The Shock And Vibration Information Analysis Center (SAVIAC) is holding the 74th annual Shock & Vibration Symposium in San Diego, CA, the week of 26 October 03. This is the premier symposium and in fact the only annual symposium covering Army Blast Effects (Anti-Terrorist and Structural Hardening) and Navy UNDEX. If you have attended past symposiums or have heard about them, you may think that they are geared toward the analyst and not oriented toward practical applications. This year will be different. An emphasis will be place on the acquisition and testing of Army and Navy equipment and technology.

There will be tutorials, papers and panels dealing mainly in the shock qualification of equipment on Navy ships. The shock qualification process, equipment specifications, Waivers, the test requirements, the shock testing of equipment and shock extensions of equipment will all be covered. Tutorials will be held both Sunday, 26 October and Monday 27 October. They will include four new courses. Last years course taught by NSWCCD Code 623 on the shock qualification process has been expanded into two, three hour courses, in order to cover more material and give time for a question and answer session. The two courses are "The Navy's Shock Qualification

Process and Responsibilities, NAVSEAINST 9072.1A" and "MIL-S-901D Shock Qualification Testing and Extensions."

In addition to these two courses, NSWCCD Code 623 will be presenting a certification course to Navy Shock Data Base (NSDB) users. This course will be geared toward the use of the NSDB. This course is intended to serve both as a users guide to the NSDB and a certification course for users requiring read/write access to the NSDB. Anyone working for the Navy that acts as either an equipment acquisition authority (PARM/LCM), as a Ship Acquisition or Logistics Program Manager (SHAPM/SLM) or contractor support to those Navy activities should attend. We also recommend those only needing read access to the NSDB to attend the course for help in understanding the NSDB and how to efficiently use it.

This year, for the first time, there will be course co-sponsored by NSWCCD and HI-TEST on how to conduct both Lightweight and Medium Weight shock tests using the test facilities at SPAWAR. This will be a hands-on course using the actual Lightweight and Medium Weight machines. This is recommended for anyone presently listed in NAVSEAINST 9491 as a certified shock test facility and persons or companies who plan to do shock test-

ing at those facilities. This course, along with the others previously discussed will give a good foundation in the understanding of the Navy's shock qualification and shock hardening program.

In addition to the outstanding tutorial being offered this year at the symposium, there will be several sessions covering shock testing, shock extensions (including case studies and a panel) and alternative test vehicles for shock testing of equipment and subsidiary components. Commercial Off The Shelf (COTS) Equipment will be covered in several sessions along with the long running COTS panel that has always been informative.

NSWCCD Code 623 will be in attendance the entire week, from Sunday on, to answer questions that may come up outside of the tutorial courses. A demonstration of the NSDB should also be available the entire week. The S&V Symposium is the one time each year that a group of people interested and involved in US Navy Shock get together as a group to discuss the acquisition of Navy shock hardened equipment.

For more information on the S&V Symposium, please go to www.saviac.org or contact Joel Leifer (301 596-0100).

Friday morning's tutorial, "Calibration, Maintenance, and Operation of the Lightweight and Medium Weight Shock Machines," has been moved to Monday morning. Please make your symposium plans accordingly.

INDUSTRY NEWS

IEST Commemorates Fifty Years of Service

ROLLING MEADOWS, IL, June 19, 2003 ... Founded in 1953, the Institute of Environmental Sciences and Technology (IEST) marks its fiftieth anniversary this year. Members formally observed the anniversary at a banquet on May 21 during ESTECH 2003, the annual technical meeting and exposition of the IEST in Phoenix, Arizona.

IEST is recognized as a leader with an outstanding reputation throughout the world for its Recommended Practices (RPs) and ISO standards in the following industries: contamination control in the electronics and pharmaceutical industries; design, test, and evaluation of commercial and military equipment; and product reliability for commercial and military systems.

IEST's parent organization was Environmental Equipment Institute (EEI) founded in New York City in 1953. Since its beginning, IEST served primarily as a forum for exchanging technical information.

Today, IEST develops Recommended Practices (RPs), Standards, and Guidelines used worldwide. IEST is a member of the American National Standards Institute (ANSI) and an ANSI-accredited standards developer. It serves as the Secretariat of ISO Technical Committee 209 (ISO/TC209), Cleanrooms and associated controlled environments, and is also Administrator of the US Technical Advisory Group to ISO/TC 209.

Working Groups made up of member volunteers develop industry Standards and RPs. Group members determine issues that will be addressed in each document and the procedures that will be included. They meet twice annually at ESTECH and the IEST Fall Conference. Between meetings, member continue to work using electronic communication.

Among its top selling publications are: High-Intensity Acoustics Testing; Management and Technical Guidelines for the ESS Process; Product Cleanliness Levels and Contamination Control; Cleanroom Housekeeping-Operating and Monitoring Procedures; Biocontamination Control-General Principles, Evaluation and Interpretation of Biocontamination Data, and Methodology for Measuring the Efficiency of Processes of Cleaning and/or Disinfection of Inert Surfaces Bearing Biocontaminated Wet Soiling or Biofilms; Classification of Air Cleanliness; ISO Standards and Technical Guides Handbook.

IEST's educational mission continues to be fulfilled through Technical Sessions and Tutorials presented at its regular meetings-ESTECH, the annual technical meeting and the Fall Conference. IEST also sponsors the Space Simulation Conferences, Aerospace Testing Seminars, and the Annual Reliability and Maintainability Symposiums (RAMS).

IEST published its premiere Proceedings for its first technical meeting in 1957. The Journal of Environmental Sciences became the association's official publication in 1961. Today, the Journal of the IEST is published annually. The Journal has been the leading provider of technical information and a permanent record of progress in the science and technology of the environmental sciences for over fifty years.

IEST has its headquarters in the Chicago metropolitan area. The membership tops 1600. Julie Kendrick, CAE, has been the Executive Director since 1997. Michael A. Roy (Northrop Grumman, Baltimore, MD) serves as President of IEST through June 2003; Robert L. Anderson (United Defense, Lakeville, MN) becomes President July 1.

IEST is an international professional organization serving members and industries through education and the

development of recommended practices and standards. Industries served are contamination control in electronics manufacturing and pharmaceutical processes; design, test, and evaluation of commercial and military equipment; and product reliability issues associated with commercial and military systems.

For more information, visit the IEST website at www.iest.org. You may e-mail the IEST at iest@iest.org, fax (847) 255-1699, or call (847) 255-1561.

A New Line of Vibration Instruments from Germany: Sensors, Amplifiers, Calibrators, Monitoring

Columbia, MD ... Scantek, Inc. is pleased to announce that it now distributes *Metra Mess-und Frequenztechnik Radebeul* (Metra). The company provides a full line of a high quality and affordable vibration transducers, power supplies, calibrators, and signal conditioners for North and South America.

The Metra line, very popular in Europe, and known for high quality and reliability, consists of charge and ICP® amplifiers, conditioning modules and multi-channel amplifiers and accessories. Its portable accelerometer exciter/calibrators handle up to 500 gr and its small affordable calibration systems allows every user to do his/her own traceable calibrations. A color datasheet is available at www.scantek-inc.com/datasheets/mmfcatalog.pdf.

The Metra line of vibration instruments and transducers takes its place with the other full range of sound level meters, hand-held FFTs, and vibration frequency analyzers available at Scantek. All products are supported with full calibration facilities at Scantek, Inc. in Maryland. For further information contact Richard J. Peppin, PE at 410.290.7726, or by e-mail at PeppinR@Scantekinc.com.



Sandia National Laboratories

A Department of Energy National Laboratory

ENVIRONMENTS ENGINEER

Sandia National Laboratories is one of the country's largest research and engineering laboratories in the nation, employing nearly 8,400 people at major facilities in Albuquerque, New Mexico and Livermore, California. We apply our world-class scientific and engineering creativity and expertise to comprehensive, timely and cost effective solutions to our nation's greatest challenges. Please visit our website at www.sandia.gov. We are searching for an Environments Engineer for the Albuquerque facility. An excellent benefit and relocation package is available. Salary is commensurate with experience. Must be able to obtain and maintain a DOE Security Clearance.

- Provide mechanical shock and vibration test specifications and data analysis support for component and system level tests and analytical/numerical studies.

- Work with the project groups to design field and laboratory tests, analyze data from tests and analyses, derive shock and vibration specifications, and document the results in a manner that is consistent with the role as the lab's repository for shock and vibration response data.
- Requires a Masters or Ph.D. Degree in Mechanical Engineering or related field with experimental or analytical experience with shock and vibration and/or digital signal processing. Need to be proficient in the use of data analysis software and commercial codes such as Matlab. Knowledge of Statistical Energy Analysis is desired, but not required.

Please send resumes to: Joseph Jung, Sandia National Laboratories, P.O. Box 5800 MS: 0847, Albuquerque, New Mexico 87185-0847, or Fax: 505-844-9297, or Email: jjung@sandia.gov. Please Reference Ad Number: 22194 – Environments Engineer.

U.S. Citizenship Normally Required.
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Conference & Short Course Announcements

Random Vibration and Shock Testing Training

The Equipment Reliability Institute

October 14-16, 2003, Newport, RI

This course is needed by engineers and technicians who conduct developmental and production vibration and shock tests; by designers of products that must survive tests AND rigorous service conditions; by metrologists who measure vibration and shock on automobiles, aircraft, etc; by sales/applications engineers involved in the sales of equipment used in test (shakers, shock test machines, etc.) and measurement (transducers, data acquisition etc.). Course details can be found at <http://www.equipment-reliability.com/course4.htm>. To register, visit http://www.equipment-reliability.com/regist_form.htm. Instructor Tustin welcomes questions about the course. Feel free to contact him by phone at (805) 564-1260, or by e-mail at tustin@equipment-reliability.com.

21st Aerospace Testing Seminar

"Effective Testing in a Challenging Project Environment"

The Aerospace Corporation

Oct 21st-23rd, 2003

This year you can Register Online for the ATS. This secure registration service is provided by CVENT and allows the use of all major credit cards. To register go to <http://www.aero.org/conferences/ats/> and select the REGISTER ONLINE button.

The upcoming 21st Aerospace Testing Seminar will have a record number of high quality and relevant presentations from Europe, Asia and the U.S on the latest in Testing. Effective Testing in a Challenging Project Environment will focus on achieving the goals of test professionals within the

Aerospace Test Community.

The ATS Board has added two new tutorials this year. The tutorials will be presented on October 20th, 2003 and will feature "Failure Prevention, Investigation and Analysis". All tutorials will be offered for a nominal charge and will include all course materials.

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SAVIAC / HI-TEST Laboratories Inc.
5136 Celestial Way
Columbia, MD 21044
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In the August 2003 Current Awareness Newsletter

***New To The Shock & Vibration Symposium
Industry News
Conference & Short Course Announcements
Symposium Registration Forms
Symposium Visit Request Form***

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.

Program Manager
Joel Leifer
(301) 596-0100
joel.leifer@saviac.org

Marketing & Event Planning
Lauren Yancey
(301) 596-0100
lauren.yancey@saviac.org

Manager of Technical Services
Henry Pusey
(540) 678-8678
henry.pusey@saviac.org

SAVIAC/HI-TEST Laboratories Inc.
5136 Celestial Way
Columbia, MD 21044
(301) 596-6400 (fax)

SAVIAC Director
Dr. Charles Robert Welch
US Army Engineer Research and
Development Center
Vicksburg, MS 39180
saviac@wes.army.mil