



75th Shock & Vibration Symposium Highlights

The 75th Shock & Vibration Symposium was held at the Cavalier Hotel in Virginia Beach, VA from October 17-22. The government featured agency this year was the Naval Surface Warfare Center, Dahlgren Division, represented by Mr. James Howell III. PCB Piezotronics, represented by Dr. Patrick Walter and Mr. Jim Sullivan, and Northrop Grumman Newport News, represented by Mr. Travis Kerr, were this year's two commercial featured agencies. With attendance exceeding 530, remarkable speakers, and excellent programming which included 25 tutorials, this year's symposium was an outstanding success that provided more opportunities for learning than any of the previous years.

The 75th spanned 6 days again this year for the second time in its history, proving that there is more of a demand than ever to learn more in the shock & vibration arena. This year's was the 3rd most attended meeting, drawing 536 attendees from 16 countries. Participants hailed from Belgium, Canada, Finland, France, Germany, Israel, Japan, Korea, New Zealand, Nova Scotia, People's Republic of China, Republic of Singapore, The Republic of Korea, Sweden, The Netherlands, United Kingdom as well as the United States. A full attendance list can be viewed at www.saviac.org.

SAVIAC provided a record-breaking 25 tutorials this year, spanning 2 days with 399 attendees. Classes were provided on DDAM, Shock & Vibration Testing, Underwater Shock, Building Protection from Blast Loading, Wavelets, Damping, Shock Response Spectrum, and Data Acquisition and

Analysis. Maintenance and operation of Lightweight and Mediumweight Shock Machines was held again this year, this time right in the hotel. NSWCCD Philadelphia's tutorial "The Navy Shock Qualification Process" returned again this year, along with 3 extensions offered by the group, "MIL-S-901D Shock Qualification Testing, MIL-S-901 Shock Qualification Extensions" and "Navy Shock Database User Certification." SAVIAC would like to extend a thank you to all tutorial instructors involved in this year's symposium. As always, we plan to expand our tutorial offerings even more for future symposia. If you are interested in conducting a tutorial at next year's Symposium, please contact SAVIAC for more information.

The opening session was brought to order Tuesday morning by Joel Leifer, the SAVIAC Program Manager. The attendees were welcomed by CDR James F. Barnes, Executive Officer, Naval Surface Warfare Center, Dahlgren Division, Mr. Irwin F. Edenzon, Vice President, Technology Development & Fleet Support, Northrop Grumman Newport News, and Mr. Jim Lally, CEO of PCB Piezotronics.

Mrs. Mary Lacey, Program Executive Officer of the National Security Personnel System, delivered the keynote address. She started her career with the Department of the Navy in 1973 as a Federal Junior Fellow working with the Naval Ordnance Laboratory and rose to be Technical Director of the Naval Surface Warfare



Mrs. Mary Lacey delivered the keynote address to the attendees of the symposium.

Center prior to assuming her present position. Her career path provided the attendees a unique opportunity to hear from someone who understood the challenges we face and yet could provide insights into how senior management views our contributions. Mrs. Lacey connected with the audience by relating her experiences as an engineer faced with complex shock issues and needing the support of management in order resolve them. Her support of our new mentoring program and initiative to encourage the publication of presented work will ensure a knowledgeable workforce for many years to come. Mrs. Lacey also chaired a classified session on Thermobaric Loading and encouraged SAVIAC to explore updating SVM-2 the "Theory and Practice of Cushion Design" monograph.

The Program Committee Co-Chairs presented the Henry Pusey Award for best paper presented at the 74th Shock & Vibration Symposium to Mr. Kjell Ahlin of the Blekinge Institute of Technology for his paper "On the Use

Explosion Effects and Structural Design for Blast

**A 2-day Training Course
At the Embassy Suites Hotel
St. Louis Airport
February 28 and March 1, 2005**

Instructors: Dr. Sam A. Kiger, PE and Dr. Stan Woodson, PE

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 and builders will also benefit by appreciating the impact of explosive design decisions early in the process. All new government buildings now require some level of blast resistant design and this training will specifically address those requirements.

Course Description:

This 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 discussed and demonstrated. Much of the design guidance and software is restricted distribution to government agencies and their contractors, however specific information on how to use and obtain the software will be covered in the course. The participant will gain an understanding of how to compute blast loads on a structure, how to compute structural response to blast loading, and practical methods for designing and retrofitting structures to resist blast effects. Participants will be provided with a complete set of class notes. A general background in structural analysis and structural design will be assumed.

Primary Topics Include:

Explosion Effects, Loads on Structures, Behavior of Structural Elements, Structural Dynamics, Response Calculations (approximate methods and computer codes), and Retrofit Techniques.

Course Location:

The course will be held at the Embassy Suites Hotel, St. Louis Airport. For reservations call 1-800-EMBASSY (1-800-362-2779) and ask for the "Blast Design Training" rate of \$102 per night. A full breakfast is included in the room rate.

Course Registration:

Registration Fee is \$895.00 (Includes lunch each day). Your payment, in full, must accompany your registration form.

Course Refund Policy:

Refund of registration fee, less \$50 to cover processing costs, are available upon cancellation notice by the registrant. Notification will be by fax, dated and signed by the person registered, to Dr. Sam Kiger at 573-882-4784. The refund will be by check mailed, within 30 days, to the registrant at the address requested on the fax. No refund will be allowed after five working days before the day the course begins. In the event the course is canceled a full refund will be paid to the individual at the address given at the time of registration. Questions may be directed to Dr. Sam Kiger at kigers@missouri.edu or by calling 573-882-3285.

More information about the instructors, the course, and accommodations can be found at <http://blastdesigntraining.com>. Professional engineers will get continuing education credit of 15 PDH's for the course. On-line registration is available and will ensure your seat is reserved. Questions regarding content and appropriateness can be obtained by contacting Dr. Sam Kiger at 573-882-3285, KigerS@missouri.edu or Stan Woodson at 601-636-4429, WoodsonEng@direcway.com.

Free Winter Shock & Vibration Seminar

SAVIAC invites you to attend a FREE seminar on Shock & Vibration. The course will be held in February, 2005 at a to be determined site 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.

Agenda

8:00 - 8:30	Registration & Continental Breakfast	
8:30 - 9:00	Introduction to SAVIAC	Joel Leifer, SAVIAC
9:00 - 9:30	MIL-S-901 Requirements/Approval Process	Kurt Hartsough, NSWC/CD
9:30 - 10:00	TBD	TBD
10:00 - 10:15	Break	
10:15 - 10:45	Overview of Hazard Assessment Testing (HAT) per MIL-STD-2105	Jamie Howell, NSWC/Dahlgren
10:45 - 11:15	Data Archiving Recommended Practice	Dan Worth, NASA Goddard
11:15 - 11:45	Zero offsets in Accelerometer data: Causes and Corrections	Tim Edwards, Sandia
12:00 - 1:00	Lunch (no host)	
1:00 - 1:30	SAVIAC Mentor Program	Bob Krezel, SAVIAC
1:30 - 2:00	Navy Hydrocode Development Efforts for Underwater Explosion Effects	Greg Harris, NSWC/IH
2:00 - 2:30	Aluminized Explosive Modeling	Eric Rinehart, DTRA
2:30 - 3:00	TBD	TBD
3:00 - 3:15	Break	
3:15 - 3:45	Lithium Battery Environmental Testing	Allen Parkes, NSWC/Crane
3:45 - 4:15	Joint Education Initiative	TBD
4:15 - 4:45	Shock Isolation	Chris Merrill, CM&A Engineering, PLC
4:45 - 5:00	Wrap-up & Questions	All

Please forward this invitation to anyone you know who may be interested in attending this program.

The seminar is free, but you must register to attend. Please RSVP to Lauren Yancey, (703) 892-0060 or lauren.yancey@saviac.org to assure your space and note packet. SAVIAC reserves the right to substitute topics and/or instructors when necessary. This schedule is subject to change. For more information about SAVIAC please visit our website at www.saviac.org.

Let Us Know What You Think!

Did you fill out a symposium evaluation form? You still can! Please visit http://www.saviac.org/75th_Symposium/75th%20Symposium%20Evaluation%20Form.htm to fill out our online 75th Symposium Evaluation Form so that we can continue to bring you the programming you want at future symposia!



Program Committee Co-Chairs Mr. Jim Sullivan, Mr. Travis Kerr, and Mr. James E. Howell III presented the 2004 Henry Pusey Award to Mr. Kjell Ahlin of Blekinge Institute of Technology, for his paper "On the use of digital filters for mechanical system simulation."

of Digital Filters for Mechanical System Simulation." During the presentation a PowerPoint slide of past awardees was displayed. Unfortunately, the recipients for the 71st Symposium, Erik Rasmussen (NSWCCD), Paul Lemmen & Gert-Jan Meijer (TNO Center for Mechanical Engineering) were omitted. SAVIAC apologizes for the omission. Dr. Raymond Daddazio of Weidlinger Associates and Dr. Thomas Paez of Sandia National Laboratories presented the Mel Baron Award to Mr. David Smallwood, formerly of Sandia National Laboratories, in recognition of a lifetime of outstanding leadership in shock and vibration, sustained technical excellence, and major contributions to the advancement of understanding structural response to shock and vibration. Mr. Henry Pusey of MFPT and Dr. Jack Henderson of Universal Technology Corp presented Dr. Eric Ungar a Lifetime Achievement Award for his singular and distinctive contributions to the discipline of Shock and Vibration. Mr. Michael Riley of NAVSEA 05P presented Mr. Jerry Sullivan a Lifetime Achievement Award for his contributions to the development of the Navy shock program. After the conclusion of the Opening Session, a lunch was held in the rooftop restaurant of the hotel to honor the two recipients.

This year, those who gave of their time, effort, and talents throughout the year were recognized by SAVIAC with the Director's Award by Dr. Charles Robert Welch, SAVIAC Director, and Mr. Joel Leifer, SAVIAC Program Manager. Dr.

Andrew Littlefield of US Army Benét Laboratory, Mr. James Howell III and Mr. Dave Houchins of NSWC Dahlgren, Dr. Al Ohrt of Eglin Air Force Base, Dr. Tom Paez of Sandia National Laboratories, Dr. Pat Walter of PCB Piezotronics/TCU, Dr. Jeff Cipolla of ABAQUS Inc., Mr. Ronald Peterson of NSWC Panama City, and Ms. Amy Herrmann-Spears of AFRL volunteered to be instructors at the Winter Shock & Vibration Seminar held in Panama City, FL on February of 2004. Mr. Dan Worth of NASA/Goddard Space Flight Center, Mr. Kurt Hartsough of NSWC CD Philadelphia Code 623, Mr. James Howell III and Mr. Dave Houchins of NSWC Dahlgren, Mr. Tim Edwards, Mr. Tony Abbey of Noran Engineering, Dr. Pat Walter of PCB Piezotronics/TCU, Dr. Howard Gaberson, Dr. Tim Coats of NSWC Carderock, Mr. Skip Connan and Mr. George White of US Army Aberdeen Proving Ground, and Dr. Rudy Scavuzzo, Professor Emeritus of University of Akron volunteered to be instructors at the Summer Shock & Vibration Seminar, held in Virginia Beach, VA in June of 2004. Mr. Strether Smith of DSPCon, Mr. Dan Worth of NASA/Goddard Space Flight Center, and Mr. Richard Cellary of Naval PHST Center volunteered to lead our discussion groups at the Symposium this year. Dr. Paul Mlakar of US Army Engineer Research &

Development Center, Mr. Robert Heyburn of NSWC Carderock Code 6202, Mr. Kurt Hartsough of NSWC CD Philadelphia Code 623, and Mr. James Howell III of NSWC Dahlgren volunteered to set up the panel sessions. Dr. Tim Hassleman of ACTA Inc., Prof. Patrick Walter of PCB Piezotronics, Dr. Ronald Peterson of NSWC DD Panama City, Mr. Thomas Walther of Electric Boat Corporation, Dr. John Henderson of AFRL, Dr. Robert Smilowitz of Weidlinger Associates, Inc., Prof. Ted Krauthammer of Penn State University, Mr. Gregory Harris of NSWC Indian Head, and Mr. Joseph Venne of NSWC Carderock volunteered to develop special sessions. Dr. Rudy Scavuzzo, Professor Emeritus of the University of Akron, Mr. Rick Lally of Oceana Sensors, Mr. Robert Sill of PCB Piezotronics, Dr. Howard Gaberson, Mr. Dan Worth of NASA/Goddard Space Flight Center, Dr. Josh Gordis of the Naval Post Graduate School, Mr. Gregory Harris of NSWC Indian Head, Dr. Tom Paez, Mr. Angel Urbina, and Mr. Todd Simmermacher of Sandia National Laboratories, Mr. Dave Houchins of NSWC Dahlgren, Mr. Jeff Weisbeck of Enidine, Inc., Mr. Ronald Peterson and Mr. Eric Pierce of NSWC DD Panama City, Mr. Scott Walton of US Army Aberdeen Test Center, Dr. Robert Woods of Battelle, and Prof. Cameron "Dale" Bass of the University of Virginia volunteered to be instructors for this year's Training Session Track.

General Dynamics Electric Boat Corporation, HI-TEST Laboratories,



Mr. Henry Pusey & Dr. Jack Henderson presented Dr. Eric Ungar the 2004 Lifetime Achievement award (left picture). Mr. Michael Riley presented Mr. Jerry Sullivan the 2004 Lifetime Achievement award (right picture). After the Opening Session, a luncheon was held in their honor.

and NAVSEA 05P3 were recognized for their Gold-Level Support for 2004. NSWC Dahlgren was recognized for its Silver Level Support for the year. BAE Systems, General Dynamics Corporation, Weidlinger Associates, Inc., NAVSEA Philadelphia, and Qinetiq were all Bronze Supporters for 2004. ABAQUS, Inc. and National Technical Systems were also recognized for their contribution to the Winter and Summer Shock & Vibration Seminars for 2004. Thanks to the generous support of these organizations, SAVIAC can continue to provide educational opportunities and respond to requests for assistance from the community.

Dr. Charles Robert Welch, USAERDC & SAVIAC Director, recognized this year's block funding agencies: Air Force Research Laboratory Munitions Directorate, Army Redstone Technical Test Center, Defense Threat Reduction Agency Headquarters, Defense Threat Reduction Agency Kirtland, Eglin Air Force Base, Engineer Research & Development Center - GSL, Engineer Research & Development Center - ITL, Engineer Research & Development Center - MSRC, Naval Undersea Warfare Center Keyport, Naval Surface Warfare Center Carderock, Naval Surface Warfare Center Crane, Naval Surface Warfare Center Dahlgren, Naval Surface Warfare Center Panama City, NAVSEA 05P, Space and Naval Warfare System Center & HQ, Sandia National Laboratories, and US Army Research Laboratory.

The opening session concluded with the Elias Klein Memorial Lecture, given by Dr. Al Wicks of Virginia Tech, who spoke on "If Newton Had A Laptop," a modern day look at how the engineering curriculum has been affected by the introduction of the computer and numerical methods.

35 exhibitors participated this year, providing the attendees the opportunity to learn about new products in the field and to have their questions answered. A list of exhibitors can be found on www.saviac.org.

211 papers were presented in 33

unclassified and 12 classified sessions, including 4 training sessions, as well as 5 panels, 7 working and discussion groups, 2 ASCE meetings, and 2 SAVIAC committee meetings. There was also an open community TAG meeting held just before the Wednesday Night Networking Event to gather ideas for the 76th Shock & Vibration Symposium and to hear the attendees' thoughts on the 75th Symposium. The classified sessions were held at facilities provided by NSWC Dahlgren at Dam Neck. SAVIAC would like to thank Dr. Dale Bloodgood Jr. of NSWC Dam Neck, and Ms. Linda McGowan and Ms. Mary Hallberg of the US Army Engineer Research & Development Center for their excellent work in providing security for the classified sessions.

PCB Piezotronics and HI-TEST Laboratories hosted a Luau-style Pig Roast Tuesday night for all attendees of the conference. On the outdoor deck of the historic Beach Cub, attendees enjoyed partaking in some of the famous Anchor buffalo wings that PCB had flown down from New York, as well as a roasted pig and other fine foods. Inclement weather brought the party indoors, where attendees danced the night away to the sounds of Liquid Pleasure. It was a great night for everyone!

This year's Guest Program was again a huge success, and incorporated 3 days of activities, raising the program to new heights. Mrs. Boo Perkins coordinated the program this year, and a generous donation from Electric Boat and PCB Piezotronics helped to defray the cost for the participants. On Tuesday afternoon, guests spent their day touring and shopping in historic Colonial Williamsburg. Wednesday, the group toured the Hampton Roads area. And on Thursday, the group was able to get into the kitchen at the Cavalier to enjoy a seafood preparation class with the decorated Chef Robert of the Cavalier, who kept everyone in attendance well fed all week.



The 2005 Mel Baron Award was presented to Mr. David Smallwood by Dr. Tom Paez of Sandia National Laboratories, and Dr. Raymond Daddazio of Weidlinger Associates, Inc.

Wednesday night's social event also was a spirited success, adding an uplifting and patriotic beat on the next to the last day of the symposium, about 2 weeks before the 2004 Presidential Election. On the left side of the room, attendees could enjoy a "Kerry Buffet" full of New England-style seafood and crab cakes. On the right side of the room, Bush fans were treated to a Tex-Mex barbeque. Both candidates were in attendance to help with the serving. By the end of the night, it looked as if Kerry was winning on the entrees, Bush was dominating the desserts, and the bar was running dead even. The attendees' stomachs had spoken - no matter who was running, they were truly fans of the food. Once again the infamous SAVIAC piñatas were available for frayed nerves - attendees could release some election-aggression onto either a republican "elephant" or a democratic "donkey."

Attendees were invited to take a tour on Friday of Dam Neck's facility in Virginia Beach.

Please don't forget to look for the proceedings of the 75th Symposium, published on CD-ROM and available through SAVIAC in 2005. Each attendee will automatically receive a copy of the proceedings.

SAVIAC would like to take the opportunity to thank everyone who helped make the 75th Shock & Vibration Symposium such a success. We look forward to seeing you at next year's symposium on October 30-November 4, 2005 at the Royal Sonesta, nestled in the heart of the French Quarter in New Orleans, LA.

INDUSTRY NEWS

Piezoresistive Crash Test Accelerometer

Depew, NY - The Vibration Division of PCB Piezotronics, Inc. introduces Model 3901F3HB2000G, a lightweight, piezoresistive accelerometer that is ideally suited for automotive crash test instrumentation. Maximum range is ± 2000 g with a frequency range up to 5000 Hz ($\pm 5\%$).

Featuring an aluminum housing and integral cable, this 2.0 gm sensor minimizes mass loading and can fit into vehicle recesses, such as frame members, floor pan, and engine compartment, where crash data is required. Use this sensor for acceleration data in front, side, and rear crash testing.

For additional information on this accelerometer, contact the Vibration Division of PCB Piezotronics, Inc. toll-free at 888-684-0013 (in the U.S. and Canada); E-mail: vibration@pcb.com; or fax at 716-685-3886. For other PCB products, contact PCB directly at 716-684-0001, or visit our web site at www.pcb.com.

A Fast Measure of Acoustical Absorption and Transmission

Columbia, MD — Scantek, Inc. now offers a set of acoustical ducts and measuring transducers and software to measure and report acoustical characteristics of small samples.

The new device, Acoustic Duct, from Scien Co. Ltd., is a complete system to measure sound absorption coefficient using ASTM E-1050 and sound transmission loss using a soon to be drafted-procedure. In absorption the sample is mounted at the end of a tube. In transmission it is mounted in the middle. The test, for one sample takes perhaps 25-minutes to set up and each sample can be tested with full graphics, in about five minutes. The main feature of this system is the ease of set-up and operation, and allows testing of small samples. It uses precision components and easily fits on a desk-

top." For more information, call (800) 224-3813 or visit www.scantekinc.com.

Larson Davis Announces Pimento 5.1 Release

Provo, UT - The 5.1 release of the popular Pimento analyzer includes a new 4-channel version with a price tag sure to please those needing to step up to a multi-channel analyzer on a limited budget. An upgrade path to as many as 24 channels insures you won't soon outgrow your investment.

Structural dynamic engineers will appreciate the exclusive LMS PolyMAX algorithm now available in this update of the powerful Pimento Modal Analysis software. Acoustics engineers can benefit from the expanded capabilities of the Pimento Sound Power and Sound Intensity software.

For more information, contact the Acoustic Test Products division of Larson Davis, Inc., toll-free at 888-258-3222 (U.S. and Canada) or 801-375-0177; fax at 801 375-0182, e-mail: info@larsondavis.com; or visit the Larson Davis web site at www.larsondavis.com.

Gage Applied Technologies Announces New Website

Montreal, Canada - Gage Applied Technologies is pleased to announce the launch of its new corporate Web site www.gage-applied.com, with a dynamic new look.

The new home page features Gage's new 14-bit family of digitizers in the eye-catching animated GIF that rotates between two of Gage's hot new products. Visually, visitors to the Web site can quickly find the information that they are looking for. The overall image of the new Web site is in keeping with the Dynamic Signals group of companies that Gage Applied Technologies is an integral part of. The Dynamic Signals Web site www.dynamicSignals.com is a portal to

all of the member companies including Gage Applied Technologies, as well as its sister company KineticSystems Corporation. The consistency across the Web sites is carried over to the new KineticSystems' Web site, www.kscorp.com, which was launched last week as well.

For further information, contact: Nicole Faubert, Marketing Manager, Gage Applied Technologies, KineticSystems Company, (514) 633-7007 ext. 3034, nfaubert@gage-applied.com.

Acquisition of Wilcoxon Research to Strengthen Endevco's Sensor Industry Leadership

SAN JUAN CAPISTRANO, Calif. - Endevco today announced its parent company, international aerospace, defense and electronic sensors group Meggitt PLC, has agreed to acquire Wilcoxon Research, Inc., a leading supplier of quality vibration sensors and accessories to the industrial market. Wilcoxon will become part of Meggitt's Electronics division, currently led by Endevco, the world leader in mission critical sensors for the aerospace, transportation and medical markets.

Wilcoxon, a privately held, Maryland-based company, has developed and manufactured sensors and wireless networks for industrial condition monitoring applications for over 40 years. With a complementary product portfolio that includes low cost industrial accelerometers and laboratory and test instrumentation, Wilcoxon will enhance Endevco's existing capabilities in sensor design and applications, uniquely positioning the company to provide customers with a broad range of high quality, cost-effective sensing alternatives.

Conference & Short Course Announcements

43rd AIAA Aerospace Sciences Meeting and Exhibit

American Institute of Aeronautics and Astronautics

January 10-13, 2005

Reno, NV

The 43rd AIAA Aerospace Sciences Meeting and Exhibit, with its traditionally multidisciplinary character, provides an ideal forum for scientists and engineers from industry, government, and academia to share and disseminate the scientific knowledge and research results with a view toward setting new milestones for human flight. Over 25 of the AIAA Technical Committees and several ad hoc teams have assembled a stimulating and informative program. The program encompasses technical presentations on state-of-the-art topics in aerospace sciences, a keynote address, lectures, workshops, short courses, an awards luncheon, technical committee meetings, and exhibits. This meeting provides participants with one of the largest-ever technical paper selections and the broadest peer interaction of any AIAA-sponsored conference. For more information and to register please visit <http://www.aiaa.org/content.cfm?pageid=230&lumeetingid=666>.

Measurement Science Conference

January 17-21, 2005

Anaheim, CA

The Measurement Science Conference was founded in 1970 to promote education and professionalism in measurement science and related disciplines. The Conference has grown and matured to meet the needs of dynamic measurement technologies as well as to address pertinent national and global measurement issues. Based in California, the MSC has attracted experts from around the world as speakers, exhibitors and attendees. 2005 Marks the 35th Anniversary of the Measurement Science Conference. The Measurement Science Conference was founded to promote education and

professionalism in the measurement sciences. The seminars, workshops and tutorials of the past 35 years addressed the changes we have witnessed in our industry. The goal of the 2005 and future conferences is to address the changes yet to come. For more information about MSC 2005 and to register online, please visit <http://www.msc-conf.com/msc/>.

Slcon/05

ISA and the IEEE Instrumentation and Measurement Society.

February 8-10, 2005

Houston, Texas

Slcon/05, the Sensors for Industry Conference, concentrates on the practical engineering aspects of sensors, their design, interface, safety, standards, utility and application. These are the concerns of the engineers in industry who use sensors. No other conference addresses these needs. Beginning next year, exhibitors will be afforded a time on the agenda to present a technical talk on their products. No longer just the salesman's pitch, at Slcon/05 they will be able to explain, in engineering terms, the use, benefits and technology of their products.

For more information about this conference and to register please visit <http://www.isa.org/sicon/>.

Random Vibration and Shock Testing Training

Equipment Reliability Institute

February 23-25, 2005

Las Vegas, NV

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., and 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/course9.htm>. To register, visit http://www.equipment-reliability.com/regist_form.htm. Instructor Wayne Tustin welcomes questions about the course.

Practical Shock Analysis & Design Short Course

MFPT Society

February 28-March 4, 2005

Bremerton, WA

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. For more information and to download the registration form, visit <http://www.saviac.org/Shock%20Course.htm>.



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In the November 2004 Current Awareness Newsletter

***75th S&V Symposium Highlights
Explosion Effects & Structural Design for Blast
Short Course
Winter S&V Seminar
Industry News
Conference & Short Course Announcements***

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