

75th S&V Symposium Planning Update

by *Joel Leifer* We have many exciting events planned for this year's Symposium, the 75th meeting since 1947. Our featured organizations, the Naval Surface Warfare Center Dahlgren Division, Northrop Grumman Newport News Shipbuilding and PCB Piezotronics, have combined to present a technical and relationship building event unlike anything ever done to date. It will start on Saturday evening, October 16, 2004, at the Cavalier Hotel in Virginia Beach, VA, with an Early Arrival Hospitality Suite hosted by PCB. This will provide attendees a central meeting place to meet new/old friends, get the latest program information and get a head start in planning their Symposium strategy. As is usual with any PCB sponsored event, there will be refreshments, good company and an opportunity to see the latest in PCB products. The Hospitality Suite will be open on Saturday and Sunday evenings, room and times are TBD.

We will continue the practice of offering tutorials on Sunday and Monday due to the overwhelming response of last year where we had a total attendance of 400. This will include the tutorial series on Navy Shock Qualification presented by Kurt Hartsough.

On Tuesday morning our Opening Session will feature Ms Mary Lacey, Technical Director, Naval Surface Warfare Center as our Keynote and Prof Al Wicks, Virginia Polytech and State University as our Elias Klein Lecturer. The Title of Prof Wicks talk is "If Newton Had a Laptop".

Tuesday afternoon will start the technical sessions. In addition to the usual paper presentations resulting from our call for papers we are currently developing the following sessions: Blast Pressure Measurements (Pat Walter, PCB Piezotronics), Structural Health Monitoring, Aerospace Perspective (Society of Experimental Mechanics), Historical Perspective on UNDEX Analysis (Jeff Cipolla, ABAQUS), Damping (Suri Ganeriwala), Test Method Design & Validation (Jamie Howell, NSWC/Dahlgren), Shock Perspective Panel (Jamie Howell, NSWC/Dahlgren), and Shock Mitigation (Tim Coats, NSWC/Carderock). We are also developing a session on the Navy Shock Qualification Process with presentations by INSURV and COMOPTEV-FOR and a session suggested by our Keynote, Ms Mary Lacey, on Thermobarics.

Tim Edwards, NSWC/Dahlgren and chair of our new com-

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Shock Response Spectrum Committee Chartered

Ed Alexander of UDLP briefed the topic "Forming a Shock Response Spectrum Committee" at the Winter Annual Technical Advisory Group (TAG) Meeting in Panama City, FL. The TAG recommended that the SAVIAC Director authorize the formation of the committee, to be chaired by Tim Edwards of NSWC/Dahlgren. Preliminary members include Ed Alexander (UDLP), Kjell Ahlin (BTH), Vesta Bateman (SANDIA), Jerome Cap (SANDIA), Robert DeWoody (NGSS), Timothy Edwards (NAVSEA/DD), David J. Evans (NIST), Howard Gaberson (Consultant), Jeff Gatscher (Square D), Dan Gregory (Sandia), Ron Merrit (NAVAIR), Allen Piersol (Consultant), Henry Pusey (MFPT, SAVIAC), Rudolph Scavuzzo (Consultant), Young Shin (NPGS), David Smallwood (Consultant), Del Wilson (Boeing), and Dan Worth (NASA/Goddard). The committee's duties, as suggested at the Discussion Group held at the 74th Shock & Vibration Symposium in San Diego, CA, include serving as a forum for airing new and related procedures, Validation & implementation of SRS algorithms, Interface with standards organizations (ISO, IEC & others) on standards for calculation of a SRS, Organize symposium discussion groups and/or dedicated paper session, Assembling landmark papers on SRS - a compilation or compendium, and Gatekeeper for representative (unclassified) digitized data sets (naval shock, El Centro, pyro-shock, classical). If you would like to become a member of the committee, send an e-mail to Tim Edwards at edwards@nswc.navy.mil.

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SAVIAC To Develop New Monograph

At the Winter Technical Advisory Group (TAG) Meeting, SAVIAC proposed, and the TAG endorsed, the development of a monograph to provide mathematical modelers a source book of techniques that other modelers have used with some success. The TAG directed me to search for an editor to start work on the project. If you are interested in serving as editor, send me a statement of your qualifications, your vision of the book, how you will execute the assignment, a timetable and how much, if any, you would like to be paid to be editor. If you would like to participate as an author of a chapter, section or smaller part, send me you're an e-mail indicating your desire. My goal is to have a discussion group lead by the editor at the Symposium to start the work.

Modern Protective Structures *

July 12-16, 2004

A Penn State engineering short course for engineers, architects, and safety and security managers. Catastrophic events such as the embassy bombings in Kenya and Tanzania, the destruction of the federal building in Oklahoma City, the attacks on the World Trade Center and the Pentagon, blasts in London's financial district, and explosions in petrochemical plants are becoming all-too-frequent occurrences. In today's world, knowledge of modern protective structures is vital.

The course gives engineers, architects, and safety and security managers practical background information relating to the performance and design requirements for hardened facilities. Comprehensive reviews and advanced research and development topics are designed to augment the technical capabilities of hardening and forensic engineers and scientists. In addition, a review of Blast Damage Assessment (BDA) issues provides forensic and rescue personnel with additional background information.

Additional features:

- Hands-on guided analysis and design activities
- Case-study, problem-solving approach
- Simulations and projects
- One-on-one contact with instructors for individual assistance
- Open computer lab sessions for extended analysis and problem solving

Take-aways:

- Computer disk with programs for analysis and design of protective structures
- Extensive design manual and reference materials

You will examine these topics:

- Fortification science and technology
- Analysis, design, assessment, and retrofit
- Industrial explosive safety
- Antiterrorist design
- Hazard sources
- Physical security
- Blast damage assessment

About the Instructor:

Dr. Theodor Krauthammer, Penn State professor of civil engineering and director of the University's Protective Technology Center, is an internationally recognized researcher in enhanced structural performance and safety and has more than thirty years of experience in protective structures. He has served as a technical consultant to government and industry in the United States and abroad and is the former chairman of the American Concrete Institute (ACI) Committee 370 on Short Duration Dynamics and Vibratory Load Effects, a member of five technical committees of ACI, a member of the American Society of Civil Engineers (ASCE) Task Committee on Structural Design for Physical Security, and a member of the ASCE Committee on Shock and Vibratory Effects.

Continuing Education

Penn State is a Registered Provider with the AIA Continuing Education System. This program qualifies for 32 hours of Health, Safety, Welfare (HSW).

Fee and Registration

The fee covers all instruction, course materials, refreshment breaks, and lunches. Registrants are responsible for all other meals and lodging. The fee may be paid by check, money order, or purchase order (made payable to Penn State), or by major credit card (American Express, MasterCard, VISA, or Discover). An additional charge of \$30 will be added to all walk-in registrations.

To register, go to <http://www.cde.psu.edu/C&I/protectivestructures/> and complete the printable registration form, and return with fee to Penn State by June 24, 2002. Or complete and submit the online registration form. Fax registrations must be accompanied by credit card payment information. You may also register with your credit card by calling 814-863-5162 or 800-PSU-TODAY (778-8632; toll free within the United States). You will be notified promptly of any cancellations or schedule or program changes. Conferences and Institutes will confirm your enrollment in the program and provide information on travel, accommodations, final registration, and parking.

Refunds

All cancellations must be received in writing by mail or fax. Full refunds will be made for cancellations received by June 21, 2002. Refund requests made after that time will not be honored, and the participant or sponsoring organization is responsible for the fee. Anyone who is registered but cannot attend may send a substitute.

University Policies

Access--Penn State encourages individuals with disabilities to participate in its programs and activities. If you anticipate needing special accommodations or have questions about the physical access provided, please contact the conference planner at 814-863-5100 before your visit.

Cancellation--The University may cancel or postpone any course or activity because of insufficient enrollment or other unforeseen circumstances. If a program is canceled or postponed, the University will refund registration fees but cannot be held responsible for any other related costs, charges, or expenses, including cancellation/change charges assessed by airlines or travel agencies.

For More Information

About registration

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SPECIAL NOTE TO 74TH SYMPOSIUM ATTENDEES: The 74th S&V Symposium Proceedings will be mailed to the attendees shortly. SAVIAC apologizes for the delay, but felt it necessary in order to include papers that were delayed by the approval process.

FREE
Summer Shock & Vibration Seminar

SAVIAC invites you to attend a FREE seminar on Shock & Vibration. The course will be held on Wednesday, June 30, 2004 at The Cavalier Hotel in Virginia Beach, VA, the day before the 75th Shock & Vibration Symposium Program Committee 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.

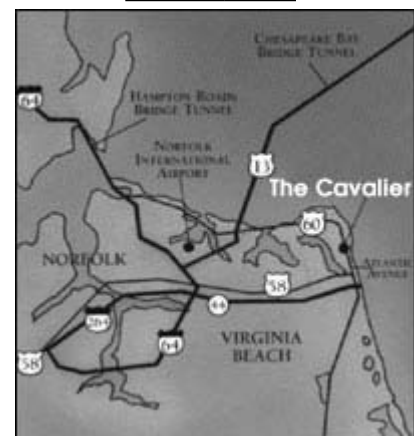
Agenda

| | | |
|---------------|-----------------------------------------------------------------------|------------------------------------------------|
| 8:00 - 8:30 | Registration & Continental Breakfast | |
| 8:30 - 8:45 | Introduction to SAVIAC | Joel Leifer, SAVIAC |
| 8:45 - 9:00 | Using SAVIAC to Address Your S&V Problems | Joel Leifer, SAVIAC |
| 9:00 - 9:30 | MIL-S-901 Requirements/Approval Process | Kurt Hartsough, NSWC/Carderock |
| 9:30 - 10:00 | Overview of Hazard Assessment Testing (HAT) per MIL-STD-2105 | Jamie Howell, NSWC/Dahlgren |
| 10:00 - 10:15 | Break | |
| 10:15 - 10:45 | TBD | Jay Warren, NG-NNS |
| 10:45 - 11:15 | Shock & Vibe from A to Z | Dan Worth, NASA Goddard |
| 11:15 - 11:45 | Wavlets | Tim Edwards, NSWC/Dahlgren |
| 11:45 - 1:00 | Lunch | Hosted by NTS |
| 1:00 - 1:30 | Strategy for FE Dynamic Analysis of Large DOF Models Using NEiNastran | Tony Abbey, Noran Engineering |
| 1:30 - 2:00 | Blast Pressure Measurements | Pat Walter, PCB Piezotronics |
| 2:00 - 2:30 | Aluminized Explosive Modeling | Eric Rinehart, Defense Threat Reduction Agency |
| 2:30 - 3:00 | Shock Response Spectrum | Howard Gaberson, Consultant |
| 3:00 - 3:15 | Break | |
| 3:15 - 3:45 | Seakeeping & Slam Effects on Combatant Craft | Tim Coats, NSWC/Carderock |
| 3:45 - 4:15 | Transportation Vibration | Skip Connon, US Army Aberdeen Test Center |
| 4:15 - 4:45 | Effect of Internal Fluid Pressure Vessel And Piping Shock Stresses | Rudy Scavuzzo, Consultant |
| 4:45 - 5:00 | Wrap-up & Questions | All |

Please feel free to 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 and **space is limited**. You may register online at www.saviac.org/75th_Symposium/seminar_registration_form.htm, or 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, or for a list of area hotels and directions to The Cavalier, please visit our website at http://www.saviac.org/s&v_seminar.htm. SAVIAC has NOT made any arrangements with the Cavalier Hotel for special rates to attend this seminar.

AREA MAP



Call For Papers

75th Shock and Vibration Symposium October 17-22, 2004 The Cavalier Virginia Beach, VA

Planning for the 75th Shock and Vibration Symposium is underway. NSWC/Dahlgren Division is the Government Featured Organization and Northrop Grumman Newport News and PCB Piezotronics are the Commercial Featured Organizations. The Cavalier Hotel in Virginia Beach is the location.

The Shock & Vibration Symposium is the oldest continuously held meeting 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.

Presentations in the following subject areas are welcomed:

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

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 3, 2004. You are encouraged to submit online at www.saviac.org, click on 75th S&V Symposium Abstract Submittal. The Program Committee will review the abstracts during the July Program Committee meeting and authors will be notified of acceptance by July 16, 2004. The full paper presentations must meet the following standards: They must be previously unpublished and unrepresented, 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 is October 8, 2004.

Questions should be directed to Joel Leifer, 301.596.0100 or joel.leifer@saviac.org.

INDUSTRY NEWS

Model 7302BM4 Accelerometer Accurately Measures Rotational or Torsional Accelerations

San Juan Capistrano, CA - Endevco's Model 7302BM4 angular accelerometer is designed to provide accurate measurements of rotational or torsional accelerations. The sensing system consists of a temperature compensated piezoresistive accelerometer, uniquely designed with a Wheatstone bridge element that provides high rejection of cross-axis angular and linear accelerations. Typical applications for the Model 7302BM4 accelerometer include the measurement of irregularities in shaft and drive train rotation for machine and turbine monitoring. The accelerometer is ideal for dynamic automotive applications including crash testing and suspension/chassis vibration monitoring. The accelerometer is also often employed in anthropomorphic crash test dummies to measure rotational body accelerations experienced under impact.

The Model 7302BM4 is fluid-damped to optimize frequency and phase response within a 0° to 250°F (-17°C to 120°C) temperature range. The accelerometer offers a stable frequency response from 0 to 1600 Hz and provides a linear output up to 50,000 rad/sec². The 7302BM4 accelerometer provides a nominal sensitivity of 5.0 mV per krad/sec² with 10 Vdc excitation voltage and offers high angular and linear shock resistance.

Endevco's Model 136 Three-Channel System, Model 4430A or OASIS 2000 Computer Controlled System are recommended as signal conditioner and power supply.

8 channels frequency counter is first of new PXI family

Lockport, IL — KineticSystems Company, LLC, is pleased to announce the first in what will be a major family of test and measurement modules for the PXI platform. Strong of the experience acquired by providing VXI solutions for Aerospace,

Automotive, Defense and Research applications, KineticSystems will now be introducing a full range of instruments and systems based on the PXI platform.

"A close relationship with customers has always been a matter of pride for us. And now it is a key strength as well. We continue to provide VXI modules and systems, but some of our customers are asking for PXI modules as well, so we have made a commitment to fulfill those needs," explained Bill Boston, CEO of KineticSystems.

The first product of this new family, the P635, is a single-width 3U module with eight frequency measurement channels. This counter module can be used to monitor a variety of pulse sources in a frequency range of 0.06 Hz to 100 kHz. Its unique circuitry allows the monitoring of a wide range of frequencies without changing any module settings. TTL inputs are provided as well as differential input circuits with input ranges from ± 20 mV to ± 20 V. The module has filtering and hysteresis features to ensure high noise immunity. AC or DC coupling of the differential inputs is programmable on a per-channel basis. A precision time base and a programmable observation window (from 1 ms to 1.024 seconds) contribute to making this a versatile and powerful addition to PXI test systems.

The P635 comes with a Plug-and-Play driver and application examples for configuring and using the device. LabVIEW VIs and the sample programs will operate under Windows NT, 2000, and XP.

The P635 is available immediately with a projected lead-time of 8 weeks ARO for small quantity orders. List price for the P635 starts at US\$4,795. Volume-based discounts are available to qualified OEMs.

For further information, contact Patrick Cassady, Executive Vice President, at 1 815 838 0005, extension 202, or via e-mail at cassady@kscorp.com.

Consumer Participation Needed for Standards Committees

Melville, NY — The Acoustical Society of America Standards Secretariat is seeking consumer interest members for Accredited Standards Committees S1, S2, and S12. Each of these ANSI-accredited standards committees is responsible for the development of national standards within its scope and also serves as the US Technical Advisory Groups (US TAG) to one or more parallel ISO/IEC standards committees. The scope of ASC S1 Acoustics is: "Standards, specifications, methods of measurement and test, and terminology in the field of physical acoustics including architectural acoustics, electroacoustics, sonics and ultrasonics, and underwater sound, but excluding those aspects which pertain to biological safety, tolerances and comfort." ASC S1 serves, in conjunction with S3 Bioacoustics, as the US TAG to IEC/TC 29 Electroacoustics, and ISO/TC 43 Acoustics. The scope of ASC S2 Mechanical Vibration and Shock is: "Standards, specification, methods of measurement and test, and terminology in the field of mechanical vibration and shock, and condition monitoring and diagnostics of machines, but excluding those aspects which pertain to biological safety, tolerance and comfort." ASC S2 serves as the US TAG to ISO/TC 108 Mechanical vibration and shock; ISO/TC 108/SC 2 Measurement and evaluation of mechanical vibration and shock as applied to machines, vehicles and structures; ISO/TC 108/SC3 Use and calibration of vibration and shock measuring instruments; ISO/TC 108/SC 5 Condition monitoring and diagnostics of machines; and ISO/TC 108/SC 6 Vibration and shock generating systems. The scope of ASC S12 Noise is: "Standards, specifications, and terminology in the field of acoustical noise pertaining to methods of measurement, evaluation, and control; including biological safety, tolerance and comfort, and physical acoustics as related to environmental and occupational noise." ASC S12 serves as the

Conference Announcements

Be sure to check www.saviac.org for more information on upcoming events.

**ASNE Day 2004
Naval Engineering:
Transforming Maritime Defense and
Sea Power**
American Society of Naval Engineers
June 28-29, 2004
Arlington, Virginia

The last couple of years have clearly demonstrated the need for transformational change in our nation's Navy and Coast Guard. The direction of change in the Navy is guided by the CNO's vision for Sea Power 21 and the future of the Coast Guard is centered on the Integrated Deepwater System Program. At the same time, increased emphasis on Homeland Defense and Homeland Security are prompting a quest for greater synergy between the Navy and Coast Guard.

As always, the ASNE Day Exhibit Hall will feature many interesting displays highlighting the key roles that leading defense system vendors, system support contractors and government acquisition, technology and support organizations all play in developing, deploying and sustaining these vital capabilities.

For more information about attending or exhibiting this event, please visit <http://www.navalengineers.org/Events/ADAY2004/AD04Index.html>.

**Third International Conference on
Numerical Analysis and
Applications**
University of Rousse
June 29-July 3, 2004
Rousse, Bulgaria

This conference is third in a series. The first meeting (June 24-28, 1996) attracted over 80 participants from more than 22 countries. Among them there were 24 participants from Bulgaria and 20 participants from the remaining Eastern European countries. In this way the meeting facilitated an exchange of ideas between East and West. The second one (June 11-15, 2000) attracted over 100 participants from more than 23 countries. Among them there were 21 participants from Bulgaria and 22 participants from the remaining Eastern European countries. We believe that we have created a significant international event and utilizing all of our experience we plan to repeat them in 2004. The largest group of numerical analysts in Bulgaria is in Sofia, they have a similar series of conferences each four years starting in the early eighties. The last three were held in 1994, 1998 and 2002. In the last several years a second group of scientists working on various aspects of Numerical Analysis came into being at the University of Rousse.

For more information about the upcoming conference and registration

please visit
<http://www.ru.acad.bg/naa04/>.

NOISE-CON 2004
*Institute of Noise Control Engineering
of the USA*
Baltimore, MD
July 12-14, 2004

The Institute of Noise Control Engineering of the USA (INCE/USA) holds a meeting every year. Noise-Con04 will be the 20th in the series of national conferences. This year, INCE/USA and A1F04 will be meeting together at the Wyndham Inner Harbor Hotel in Baltimore, Maryland, on 12-14 July 2004. This joint Noise-Con04/TRB A1F04 meeting will consist of technical sessions on all aspects of noise control engineering with an emphasis on transportation noise; receptions and socials, including a dinner cruise of the Baltimore Harbor; and an exposition of measurement instrumentation and noise and vibration control products.

Conference proceedings will be published on a CD-ROM that will be part of the package received at the conference by each attendee. Submission of papers for INCE technical sessions will be required. It will be left as an option for participants from TRB A1F04 to submit a paper for publication in the conference proceedings.

For more information and to register please visit <http://www.inceusa.org/>.

75th Planning, con't from Page 1

committee on the Shock Response Spectrum, is planning a session. SAVIAC is looking into updating SVM-2, Theory of Cushion Design and developing a new monograph on modeling (see accompanying article) and plans to have a discussion group on each. We are also planning a panel to discuss the development of a standard for building protection against terrorist threats. The Director of Homeland Security for the State of Maryland has agreed to send a representative to sit on the panel and we hope to get someone from the American Society of Civil

Engineers (ASCE), the group developing the standard, to participate along with members of academia, government and private industry.

All this brings us to Tuesday night (just kidding, these activities will be spread across the week) where PCB is hosting a pig roast at their Oceana facility a few miles south of Virginia Beach. I've attended pig roasts they've hosted for the Machinery Failure Prevention Technology Conference and can tell you they put on quite a feast. Later that evening, for those who like to stay up late, there will be hospitality suites

at the hotel run by various vendors. On Wednesday night we will have our networking event in the Exhibit Hall complete with piñatas and other activities to provide a more relaxed atmosphere to conduct business.

I know I've left out a number of events for which I apologize, but continue to read the newsletter over the coming months and I'll report on them as well as other activities that are proposed. I'm looking forward to seeing you all at the Symposium, to renew old friendships and make new ones. This is one meeting you don't want to miss.

Short Course Announcements

Be sure to check www.saviac.org for more information on upcoming events.

Practical Shock Analysis & Design Short Course

MFPT Society
July 26-30, 2004
Seattle, Washington

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 prob-

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

2004 Modal Analysis, Statistics and Uncertainty Training

Technology Training, Inc.

Dates ranging between June 23-30, 2004
Las Vegas, NV

Join TTI's Professor Colin Ratcliffe,

also of the US Naval Academy, for his practical, applications-oriented approach to Modal Analysis for Structural Validation and stay on for a one-day primer on Engineering Statistics. This course will benefit those attending Emil Hazarian's Measurement Uncertainty course thereafter, with a better understanding of the mathematics involved with that topic. Substantial multi-course discounts will apply.

Visit TTI's Home Page at <http://www.tti.edu> for more information, or go to <http://www.tti.edu/reg.html> to enroll now. You can also call Toll-free at 866-884-4338 (866-TTI-4edu).

Make sure your events get into the 2005 SAVIAC Calendar!

The 2005 SAVIAC Calendar is being compiled for distribution among the 75th Shock & Vibration Symposium attendees, as well as hundreds of other SAVIAC community members around the globe! Don't miss your opportunity to have your event placed in our calendar. Contact Lauren Yancey with your event dates and details at lauren.yancey@saviac.org.

Industry News, con't, from Page 5

US TAG to ISO/TC 43/SC 1 Noise. Accredited Standards Committees seek to maintain a balance of interests within their membership to help assure that a broad cross section of views is taken into consideration in the development of national standards and also in the development of US positions on draft International Standards. "Consumer interest" is defined as: A company or organization whose primary activity causes it to use or employ the products, goods or servic-

es that are affected by the standards developed by the particular committee. A Consumer may also be an organization that represents the health and safety interests of the general public or of specific groups including workers. A professional society made up of individuals whose scientific interest is centered the field of knowledge affected by the standards developed by the particular committee that is primarily focused on the educational and professional development of those individuals may

be considered a Consumer. A consultant whose primary business involves representing Consumers is considered to be in the Consumer interest category. If your company or organization is a consumer of standards developed by any of these committees and has an interest in becoming a member of the committee, please contact Susan Blaeser, Standards Manager, ASA Standards Secretariat, (631) 390-0215 or sblaeser@aip.org for additional information.



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In the May 2004 Current Awareness Newsletter

***75th Symposium Plans
Shock Response Spectrum Committee Chartered
SAVIAC To Develop New Monograph
Modern Protective Structures Course
Summer S&V Seminar
75th Call for Papers
Industry News
Conference Announcements
Short Course Announcements***

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