



# James Houston Accepts Invitation to Keynote at 76th Shock & Vibration Symposium

Dr. James R. Houston, the Director of the U.S. Army Engineer Research and Development Center, has accepted an invitation from Dr. Bob Welch, the SAVIAC Director, to deliver the Keynote Address at the 76th Shock & Vibration Symposium to be held the week of October 30-November 4, 2005 at the Royal Sonesta Hotel in New Orleans, LA. The Opening Session will be Tuesday morning, November 1.

Dr. Houston became the first Director of the U.S. Army Engineer Research and Development Center on May 24, 2000. The ERDC Director is located at the center's headquarters in Vicksburg, Miss. As Director, Houston manages one of the most diverse research organizations in the world — seven laboratories at four geographical sites, with over 2,000 employees (over 1,000 engineers and scientists), \$1.2 billion in facilities, and an annual program approaching \$700 million.

ERDC R&D supports the Department of Defense and other agencies in military and civilian projects. Principal research mission areas include water resources (civil works), military engineering, battlespace environment, military installations, and environmental quality. The ERDC was named the



From left: SAVIAC Director Dr. Bob Welch, Dr. James R. Houston, Director of the U.S. Army Engineer Research and Development Center, Joel Leifer, SAVIAC Program Manager and Dr. Paul Mlakar, Senior Research Scientist

Army's Large R&D Organization of the Year in 2002.

Prior to his current position, Houston served as Director of the ERDC Coastal and Hydraulics Laboratory (CHL). As CHL Director, he oversaw research programs in coastal and hydraulic engineering, oceanography, coastal geology, dredging, and numerical modeling of hydrodynamics and sediment transport, groundwater **Keynote, con't on Page 2**

## 76th S&V Symposium Planning Update

Combine a superior technical program with a location in the French Quarter of New Orleans and what do you get? The Royal Sonesta Hotel, the host for the 76th Shock & Vibration Symposium, agreed to increase our room block because advance reservations were filling it up. A message to the wise, if you wait until the last minute you won't be staying at the

Royal Sonesta at government per diem rates. SAVIAC is making arrangements at the Royal Sonesta sister property, the Chateau Sonesta, 800 Iberville, reservation number 504 586-0800, for overflow when the Royal Sonesta fills up.

This year's featured organizations are the Defense Threat Reduction Agency (poc Mike Giltrud), the U.S.

**76th Planning, con't on Page 2**

## Edwin M Rzepka

Edwin (Ed) Rzepka passed away on 11 April 2005 at age 77. Ed spent approximately 35 years of his professional career at the Naval Surface Warfare Center (previously the Naval Ordnance Laboratory) working in the field of mechanical shock of naval weapons. Upon retirement from the government service, Ed worked for Advanced Technology and Research as a consultant in the same field. Ed graduated from West Virginia University in mechanical engineering.

At the Naval Surface Warfare Center, Ed was Chief of the Shock Branch. In this position he headed a group of 10 engineers and technicians in making field measurements of shock encountered by naval weapons; prescribing shock parameters for design and test of weapon systems and their

**Rzepka, con't on Page 2**

**Keynote con't from Page 1** modeling, hydrology, and hydro-environmental modeling.

From 1970 to 1972, he was a Research Physicist in the Nuclear Weapons Effects Division, investigating waves generated by explosions. He worked from 1972 until 1983 as a Research Hydraulic Engineer in the Hydraulics Laboratory (HL), responsible for studies involving explosively generated waves, tsunamis, harbor resonance, lake seiching, wave interaction with structures, sediment transport, and scouring problems. He served as Chief of the Research Division of the Coastal Engineering Research Center (CERC) from 1983 until 1986, and Program Manager for the Shore Protection and Restoration Program and Harbor Entrances and Coastal Channels Program from 1983 until 1986. In January 1986, Houston became Director of CERC. CERC and HL merged in 1997, and Houston became director of the combined laboratory, CHL.

Houston received a bachelor's degree in Physics in 1969 from the University of California (Berkeley), a master's in Physics in 1970 from the University of Chicago, a master's in Coastal and Oceanographic Engineering in 1974 from the University of Florida, and a doctorate in Engineering Sciences in 1978 from the University of Florida.

He has published over 120 technical reports and papers. He has received several honors and awards including Phi Beta Kappa; Phi Kappa Phi; two SES Meritorious Presidential Rank Awards; Department of the Army R&D Achievement Award; Army Commendation Medal; Eminent Speaker, Institution of Engineers, Australia; 1997 National Beach Advocacy Award; and the 2003 Morrrough P. O'Brien Award, American Shore and Beach Preservation Association.

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**Rzepka, con't from Page 1** components; performing shock tests; evaluating the results of the shock tests; and designing facilities for the simulation of shock environments.

Under Ed's leadership, the team's work was vital in the role of shock hardening shipboard weapons systems. He led engineering teams which played important roles in the full scale Shipboard Shock test of the Aircraft Carrier USS JOHN F. KENNEDY, CV-67, and in two series of Submarine Shock Test Vehicles (SSTV) tests at San Clemente Island, which included a submarine-launched TOMAHAWK variant and many barge shock tests of Guns, Missiles, and other shipboard systems at Hunter's Point Naval Shipyard.

Beyond the shipboard environment, there are many other shock environments that have to be considered by the weapon designers. Some of these other environments with which Ed's group was concerned are: water-entry shock, rough-handling shock, aircraft-ejection shock, and target-impact shock. Weapons of concern to the Naval Surface Warfare Center during Ed's career included underwater mines, torpedoes, rockets, missiles, bombs, etc.

Aside from his remarkable career and technical accomplishments, Ed is remembered as a fair and even-handed supervisor and as the consummate team player.

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**76th Planning, con't from Page 1** Army Engineer Research and Development Center (ERDC) (poc Dr. Bob Welch), Weidlinger Associates (poc Dr. Ray Daddazio) and MSC.Software (poc Bart Mcpheeters). We have been meeting monthly via teleconference and have come up with some exciting programming for this year. Also helping in the planning are Charisse Jordan and Margaret Tang from Weidlinger, Linda Towler from MSC.Software, and Dr. Paul Mlakar from ERDC.

We will have a host of new tutorials with Jon Wilson returning after a short retirement to do "Introduction to Vibration Testing" and Prof. Pat Walter with a new one "Dynamic Pressure Measurements for Munitions, Ordnance, and Other Testing: Part Science and Part Art", in addition to the one he did last year. Prof. Ted Krauthammer will also be doing two this year, his second is "Blast Effects and Blast Resistant Design" and our other new tutorial is Wayne Tustin on "ESS, HALT and HASS".

What's new? Well, Dr. Bob Welch will be doing a tutorial on "A Primer On Explosion Effects In the Air, Water, and Soil", Dr. Ray Daddazio and Fred Costanzo (NSWC/Carderock Division) will do one on "UNDEX Analysis of Surface Ships". Bart Mcpheeters has one on "Performing DDAM Analysis with MSC.Software Products". Bart is also working on a dedicated session on analysis of composites. Ray is exploring the possibility of a session on imploding structures and two on bridges and tunnels and a joint UK/US session on sir gun technology. Bart is working getting a fellow from NASA to deliver the Elias Klein lecture. Our keynote is set (see article above) with Dr. James Houston, the Director of ERDC having accepted the invitation from the SAVIAC Director, Bob Welch. Paul Mlakar is working on a tour of one of the locks on the Mississippi by the New Orleans District of the Core of Engineers.

Other potential dedicated sessions include one on live fire testing and one on the revision of MIL-STD-810F. We are also expanding the training track to include limited distribution training at the classified facility. This brings me to another topic; in the past there has been one method of submitting, the abstract submittal form. With the proliferation of options, there are now six different submittal forms on the web site; abstract, dedicated session, tutorial, training, discussion group, and panel. Please be sure to use the correct form.

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.

# FREE

## Summer Shock & Vibration Seminar

SAVIAC invites you to attend a FREE seminar on Shock & Vibration. The course will be held on June 29, 2005 at the Royal Sonesta in New Orleans, LA in conjunction with the 76th Shock & Vibration 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

7:30 - 8:00	Registration & Continental Breakfast	
8:00 - 8:15	Introduction to SAVIAC	Joel Leifer, SAVIAC
8:15 - 9:15	A Primer On Explosion Effects In the Air, Water, and Soil	Dr. Charles Robert Welch, SAVIAC Director, US Army Engineer Research & Development Center
9:15 - 10:15	Oklahoma City Bombing - Lessons Learned	Dr. Paul Mlakar, US Army Engineer Research and Development Center
10:15 - 10:30	Break	
10:30 - 11:00	Shock Propagation in Water	Margaret Tang, Weidlinger Associates
11:00 - 11:30	Shock Spectra: Use & Abuse	Tim Edwards, Sandia National Laboratories
11:30 - 12:00	Earthquake vs Blast Design	Prof Sam Kiger, University of Missouri
12:00 - 1:15	Lunch	(no host)
1:15 - 1:45	An Innovative Approach For The Derivation Of Pressure-Impulse Relationships	Prof. Ted Krauthammer Protective Technology Center
1:45 - 2:15	TBD	
2:15 - 2:45	TBD	
2:45 - 3:00	Break	
3:00 - 3:30	TBD	Dr. Ray Daddazio, Weidlinger Associates
3:30 - 4:00	TBD	
4:00 - 4:30	Simulating Blast Loadings on Responding Structures; How to Work Less and Get More Out of Simulations	Bence I. Gerber, Century Dynamics, Inc.
4:30 - 4:45	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 and **space is limited**. You may register online at [www.saviac.org/76th Symposium/seminar registration form.htm](http://www.saviac.org/76th_Symposium/seminar_registration_form.htm), or RSVP to Darnise Johnson, (301) 596-0100 or [darnise.johnson@saviac.org](mailto:darnise.johnson@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 [http://www.saviac.org/s&v\\_seminar.htm](http://www.saviac.org/s&v_seminar.htm). For directions to the Royal Sonesta Hotel or to make reservations please visit [http://www.sonesta.com/neworleans\\_royal/](http://www.sonesta.com/neworleans_royal/). SAVIAC has NOT made any arrangements with the Royal Sonesta Hotel for special rates to attend this seminar.

***Don't Forget to Submit Your Abstract for the 76th Shock & Vibration Symposium***

Go to  
[http://www.saviac.org/76th\\_Symposium/76th\\_symposium.htm](http://www.saviac.org/76th_Symposium/76th_symposium.htm)  
 and follow the instructions

## INDUSTRY NEWS

### **KineticSystems New Pentium 4-based Slot-0 Controller**

KineticSystems Company, LLC, is pleased to announce its new VXI slot-0 controller featuring a high performance Pentium® 4 embedded processor. The V153 joins the family of high-performance PowerPC-based slot-0 controllers already offered by KineticSystems. This single-width C-size module with 1.7 GHz and 2.2 GHz clocking options provides a powerful platform for embedded applications with unparalleled processor speed. The V153 features two Ethernet controllers that support 10BaseT, 100BaseTX and 1000BaseT interfaces, up to 1 GByte of bootable flash on a secondary IDE, up to 1 GByte of PC1600 DDR SDRAM, and one PMC expansion site for user expandability for FDDI, compactFlash, GPIB, Fibre Channel, FPDP, etc. The V153 also supports the VXI Plug&Play Virtual Instruments Systems Architecture (VISA) Library with included Resource Manager (Resman). The VISA industry standard I/O control library allows modules to be controlled via several interfaces with the same I/O function calls. "KineticSystems is the first company to introduce a Pentium 4 based slot-0 controller," said Patrick Cassidy, Executive Vice President of KineticSystems. "This latest slot-0 controller delivers record-breaking performance while upholding KineticSystems' standards for quality and reliability, providing our customers with the most powerful and low-risk solution for the future," Cassidy added. For more information regarding the V153 or other slot-0 controller solutions from KineticSystems, please refer to the company's Web site: [http://www.kscorp.com/Products/vxi/memory\\_controllers\\_DSP\\_and\\_mainframes](http://www.kscorp.com/Products/vxi/memory_controllers_DSP_and_mainframes)

### **Mod-Tronic Instruments Limited new Explosion-Proof Room Sensor For Wall-Mounting**

How do you safely sense ambient air

temperature in a hazardous atmosphere? This problem has long puzzled contractors designing HVAC/R systems for paint booths, chemical storage rooms, explosives plants, and other installations where flammable materials may be present. Until now, the only solution has been a bulky, probe-style explosion-proof assembly which was designed for insertion into a pipe, not mounting on a wall. Now Minco introduces a series of RTD's and thermistors packaged in a compact (3.7" x 2.0" x 1.6") explosion-proof enclosure that is UL-listed and CSA-approved for Class I, Groups C and D; Class II, Groups E, F, and G; and Class III areas. (Request Minco Application Aid #19 for an explanation of these classifications.) The sensor features: two 1/2-NPT threads, compatible with standard conduit fittings, copper-free aluminum construction, 100 ohm or 1000 ohm platinum RTD sensing element, 2252 or 10,000 ohm thermistor sensing element, 4 to 20 mA transmitters (FM-approved) are optional, but must be mounted in a separate enclosure. For more information visit [http://www.modtronic.com/Minco\\_xpl\\_proof\\_wallmnt\\_sensor.html](http://www.modtronic.com/Minco_xpl_proof_wallmnt_sensor.html).

### **The History and Rationale of MIL-STD-810**

The Institute of Environmental Sciences and Technology (IEST) has issued The History and Rationale of MIL-STD-810, a comprehensive work by Herbert W. Egbert. The 140-page document captures the thought process behind the evolution of the Military Standard, Test Method Standard for Environmental Engineering Considerations and Laboratory Test. The author, a Fellow of IEST, was heavily involved in the development of MIL-STD-810D and E, and served as Tri-Service administrator of MIL-STD-810F. Available exclusively from IEST, this document serves as a record not only of the progression of the standard, but also of advances in related technology. In its pages, members of the design, test, and eval-

uation and product reliability technical communities will find: 1) a development history of most test methods in this area ; 2) rationale for many of the procedural changes that have occurred; 3) additional tailoring guidance for many test procedures; 4) a good source for questions related to using MIL-STD-810; 5) insight into the future direction of the standard. Publication of The History and Rationale of MIL-STD-810 is particularly timely as a tri-Service Working Group undertakes the development of a new edition of the Military Standard, MIL-STD-810G. The History provides a practical reference for those wishing to submit comments and recommended changes. Comments pertaining to the development of MIL-STD-810G should be submitted via e-mail by October 5, 2005, to [EngineeringStandards@wpafb.af.mil](mailto:EngineeringStandards@wpafb.af.mil). MIL-STD-810F can be obtained at <http://assist.daps.dla.mil/quicksearch>. A related IEST Recommended Practice, IEST-RP-DTE026.1: Using MIL-STD-810F, 519 Gunfire, includes guidelines for component and structure testing for the gunfire environment, and is structured to supplement guidelines provided in MIL-STD-810F. The History and Rationale of MIL-STD-810 and IEST-RP-DTE026.1 can be ordered online at [www.iest.org](http://www.iest.org) or by e-mailing IEST at [publicationsales@iest.org](mailto:publicationsales@iest.org).

## **Got News?**

Send your organization's  
press releases to:

SAVIAC Attn: Current Awareness  
5136 Celestial Way  
Columbia, MD 21044  
301 596-0100 fax

or to really make friends, e-mail it  
to

[darnise.johnson@saviac.org](mailto:darnise.johnson@saviac.org)

# Peter's Laws

## The Creed of the Sociopathic Obsessive Compulsive

If anything can go wrong, Fix it! (To hell with Murphy!)

When given a choice -- Take both!

Multiple projects lead to multiple successes.

Start at the top and work your way up.

Do it by the book...but be the author!

When forced to compromise, ask for more.

If you can't beat them, join them, and then beat them.

If it's worth doing, it's got to be done right now.

If you can't win, change the rules.

If you can't change the rules, ignore them.

When faced without a challenge, make one.

"No" simply means begin again at the next highest level.

Don't walk when you can run.

Bureaucracy is a challenge to be conquered with a righteous attitude, an intolerance for stupidity, and bulldozer when necessary.

When in doubt: THINK!

Patience is a virtue but persistence to the point of success is a blessing.

The squeaky wheel gets replaced.

The faster you move, the slower time passes, the longer you live.

## Conference & Short Course Announcements

**McMAT 2005  
Mechanics & Materials Conference  
ASME/ASCE  
June 1-3, 2005  
Baton Rouge, Louisiana**

McMat2005 is interested in materials research to discover new phenomena and to develop innovative methodology. The lectures will cover a broad spectrum of topics in solid and structural mechanics, materials, and fluid mechanics including the following: Biomechanics, Mechanics of Composites, Wave Propagation, Poromechanics, Fracture & Crack Propagation, Fluid-Structure Interaction, Solid Mechanics, Soil Mechanics and Dynamics, Fluid Mechanics and Turbulence, Damage Mechanics, Computational Fluid Dynamics, System Identification and Control, Computational Mechanics, Linear/Nonlinear Dynamics, Chaos, Micromechanics/Nanomechanics, Non-local approaches to deformation, Integrated Micromechanical and Structural Models, and Computational Simulation of Material Models. For more information and to register, visit <http://www.mcmat2005.eng.lsu.edu/>

**2005 National Technical Training Symposium (29th Annual Meeting - Vibration Institute)  
June 13-16, 2005  
Richmond, Virginia**

The Vibration Institute will conduct its 2005 National Technical Training Symposium (formerly termed the

Annual Meeting) in Richmond from June 13 through June 17 at Omni Richmond Hotel. The purpose of the Symposium is to provide specific training in practical vibration technology. For more information, and to register, visit <http://www.vibinst.org/vmeeting.htm>

**CMEM 2005 Twelfth International Conference on Computational Methods and Experimental Measurements**

*Wessex Institute of Technology, UK*  
**June 20 - 22, 2005  
Malta**

CMEM 2005 is the twelfth international conference in this well established series on Computational Methods and Experimental Measurements. These successful meetings provide a unique forum for the review of the latest work on the interaction between computational methods and experimental measurements. For more information go to <http://www.wessex.ac.uk/conferences/2005/cmem05/index.html>.

**Practical Shock Analysis & Design Short Course**

*MFPT Society*  
**July 25-29, 2005  
Portland, Maine**

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

## ***Make sure your events get into the 2006 SAVIAC Calendar!***

The 2006 SAVIAC Calendar is being compiled for distribution among the 76th 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 Joel Leifer with your event dates and details at [joel.leifer@saviac.org](mailto:joel.leifer@saviac.org).

## People in the News

Mohammed Ettouney of Weidlinger Associates, has been elected president of the American Society of Civil Engineer's (ASCE) Architectural Engineering Institute.

Sam Kiger has resigned as Department Chairman for Civil and Environmental Engineering and plans to direct a new Center for Transportation Security at the University of Missouri.

Dr. Deborah F. Dent of the U.S. Army Engineer Research and Development Center (ERDC) in Vicksburg, MS, was recently recognized as a "2004 Technology All-star in Government" by the Hispanic Engineer and Information Technology magazine, Women of Color magazine, and IBM Corporation.

# Modern Protective Structures Training

## July 18-22, 2005

**"Today the issue of abnormal loading on a building during a terrorist attack is part of everyday life. This issue directly impacts public safety. The key is knowledge--what exists and what can be done regarding simple to complex threats."**

**--Dr. Theodor Krauthammer, Director, Penn State's Protective Technology Center**

Building and retrofitting structures to withstand a terrorist attack is a relatively new problem in the United States. The Modern Protective Structures short course will present the entire problem--from understanding the nature of threats to analysis and design--and will provide engineers and architects with practical information on performance and design requirements for hardened facilities. In addition, a review of blast damage assessment issues will provide forensic and rescue personnel with information that is vital to rescue and investigative efforts after a catastrophic structure failure.

The course will examine these topics:

- \* fortification science and technology
- \* analysis, design, assessment, and retrofitting
- \* industrial explosive safety
- \* antiterrorist design
- \* hazard sources
- \* physical security
- \* blast damage assessment

The course will feature hands-on, guided analysis and design activities, including case studies and simulations. Participants will be given computer programs to assist in the analysis and design of protective structures, as well as a design manual and reference materials.

### About the Instructor:

Dr. Theodor Krauthammer, professor of civil engineering and director of the Protective Technology Center at Penn State, is an internationally renowned expert on enhanced structural performance and safety. In 2002 Dr. Krauthammer was recognized by the U.S. Army Engineer

Research and Development Center--the research branch of the U.S. Army Corps of Engineers--for his outstanding contributions to the plan to rebuild the Pentagon following the September 11, 2001, terrorist attack. He is currently the chairman of a task committee on structural design for physical security, working for the American Society of Civil Engineers' Structural Engineering Institute.

### Continuing Education

Continuing Education Units (CEUs) are based on a standard of 1 unit per ten hours of classroom instruction. Upon completion of this course, each participant will be awarded a certificate for the CEUs earned. In addition, 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

\$1,295--on or before May 18  
 \$1,195--two or more people on or before May 18  
 \$1,395--after May 18

The fee covers all instruction, program materials, refreshment breaks, and lunches. Registrants are responsible for all other meals and lodging.

You can register by phone with your credit card by calling 800-PSU-TODAY (778-8632). To register on-line go to <http://www.outreach.psu.edu/C&I/ProtectiveStructures/onlineereg.htm>

### For More Information

go to <http://www.outreach.psu.edu/C&I/ProtectiveStructures/default.asp> or contact:

About registration

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## ***In the April 2005 Current Awareness Newsletter***

***Dr. James Houston to Keynote  
Symposium Update  
Ed Rzepka  
Summer Shock & Vibration Seminar  
Industry News  
Peter's Laws  
Conference & Short Course Announcements  
People in the News  
Modern Protective Structures Training***

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