

**QUICK
CALENDAR**

- Mechanical Shock Test Techniques & Data Analysis Course (April 7- 11, 2008—Phoenix, AZ & August 11-15, 2008—Long Island, NY)
- Final 78th Papers Due April 14, 2008
- Practical Shock Analysis & Design Course (September 8-12, 2008—Newport, RI)

**INSIDE THIS
ISSUE:**

- 78th S&V Symposium Paper Deadline Extended 1
- SAVIAC Awards Solicitations 1 & 6
- SAVIAC's 2008 Winter Seminar Wrap-up 2
- SAVIAC's Mechanical Shock Test Techniques Course Annc. 3
- SAVIAC's Practical Shock Analysis & Design Course Annc. 4
- 79th S&V Symposium "Call for Papers" 5
- Other Conferences & Courses Annc. 7



MARCH 2008

CURRENT AWARENESS

78th Shock and Vibration Symposium Proceedings

PAPER DUE DATE EXTENDED TO APRIL 25, 2008

There were about 200 presentations at last year's symposium in Philadelphia. In order to provide quality proceedings from the well-attended symposium, SAVIAC is making a final solicitation for authors to submit their paper that corresponds to their presentations delivered in at the 78th Shock and Vibration Symposium. The greater the number of papers submitted, the greater the benefit the proceedings are to the SAVIAC community.

In 2007 we were able to release the proceedings disks earlier than in previous years. We hope to do the same in 2008, meaning that our NEW deadline of April 25 will be crucial to this goal. All papers received by the deadline, and those papers that are received while we prepare the proceedings CDs after the deadline, will comprise the 78th Shock and Vibration Symposium Unlimited and Limited proceedings. However, if you are unable to make the April 25 deadline, your paper should still be submitted so that it will appear in next year's symposium proceedings. The SAVIAC Director has ruled that an author's failure to submit a paper following a full-paper presentation at a symposium (as opposed to a short topic presentation), will be considered in deciding whether to accept future abstracts from the author for future symposia.

By extending the deadline, we hope that authors may get a final opportunity to put the finishing touches on their paper and/or receive the necessary release approval in order to publish. We anticipate receiving an additional 20-30 papers between now and the new deadline. Please contact Drew Perkins at (434) 581-3041 if you have any questions. Papers and release forms should be sent to drew.perkins@saviac.org.

Henry Pusey Award Nominations Being Accepted

The Henry C. Pusey Award is presented for the outstanding paper in the field of shock and vibration presented during the last calendar year. The award is presented at the annual Shock & Vibration Symposium.

Criteria for Award

The paper would be well presented and well written in a manner consistent with the status of the award, and should make a significant technical contribution as well as advance the state-of-the-art in the author's field.

Papers must be published to the symposium proceedings to be eligible.

Henry Pusey Award Nomination Form

(from 78th Shock and Vibration Symposium or SAVIAC Seminar in 2007)

If you feel that one or more presentations you heard meets the criteria for the award, please fill out this nomination form. You may nominate as many papers as you want. Please do not nominate any one paper more than once.

Author (s) _____

Title _____

Session _____

Nominated By _____ Organization _____

PLEASE COPY THIS FORM & SEND COMPLETED FORM TO:

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THE DEADLINE FOR NOMINATIONS IS
JUNE 30, 2008



SEMINAR SPEAKERS'
ORGANIZATIONSWINTER 2008 SHOCK AND VIBRATION SEMINAR
WRAP-UP

SAVIAC continues to offer free one-day seminars twice per year: once in late winter and once in mid-summer in conjunction with our Technical Advisory Group (TAG) meetings. These seminars offer persons new to SAVIAC an opportunity to not only learn about SAVIAC, but get a sense of the technical presentations that our forums offer. But these seminars are not limited to new attendees; the topics covered typically attract experienced members as well due to the new and varying presentations offered each seminar.

Our most recent seminar was held at the Marriott in Charleston, SC on March 12, 2008. There were 26 attendees from over ten different organizations. The instructors and presentation titles from that seminar are listed below. Some of these same presentations will be offered in the summer seminar in Orlando (July 15, 2008) in addition to new instructors and topics. SAVIAC thanks all of our instructors from the Charleston seminar for their time and effort in offering these presentations.

Presentations Delivered at the 2008 Winter Seminar:

“Recent Developments in Field Data Recorders and Case Studies”

Mr. Jim Breault (Lansmont Corporation)

“Underwater Explosion Phenomena and Shock Physics”

Mr. Fred Costanzo (NSWCCD/UERD)

“Shock Qualification Process”

Mr. Kurt Hartsough (NSWCCD-Philadelphia)

“Introduction to Shock Isolation”

Mr. Alan Klembczyk (Taylor Devices)

“Thermobaric Energetics”

Dr. Jack Kreitinger (Defense Threat Reduction Agency)

“Introduction to Mil-Std-167 Type I Environmental Vibration Testing”

Mr. Jeff Morris (HI-TEST Laboratories)

“The Spectrum Dip of a Three Mass System”

Dr. Rudy Scavuzzo (University of Akron)

“Explosion Effects in Air, Water, and Soil”

Dr. Bob Welch (US Army ERDC)

SAVIAC recognizes and thanks Sal Detruit of National Technical Systems for NTS' continued sponsorship of the seminar lunch.



If you, or someone in your organization, has a 45-minute to 1 hour presentation that would be of interest to the shock and vibration community, please e-mail drew.perkins@saviac.org to inquire about presenting in SAVIAC's one-day seminars. Instructors come from both government and commercial organizations, but we ask that the presentations be primarily educational with minimal promotion or advertising of an organizations' products and services.

MECHANICAL SHOCK TEST TECHNIQUES & DATA ANALYSIS

2008 Schedule and Locations

April 7-11, 2008 (Phoenix, AZ)

August 11-15, 2008 (Long Island, NY)

About the Course

Mechanical Shock may be defined as a sudden change in velocity and is a major design consideration for a wide variety of systems and their components. The structural response to mechanical shock must be measured and characterized during the engineering development of these systems so that they will survive all environments during their service lifetime. These environments may include (but are not limited to): handling and transportation shocks, shocks during system delivery to a target, use impact shocks and shock originating from an explosive or pyrotechnic event. These different shock environments have quite a velocity change range from about 1 meter per second to 51 meters per second (40 - 2000 ips). Conversely acceleration magnitudes range from 4 g's in earthquakes to 200,000 g's in differentiated LDV measured pyroshocks.

This course will provide a comprehensive treatment of mechanical shock test techniques and data analysis for shocks from 100 g's to 200,000 g's. Mechanical shock instrumentation from low frequency techniques for underwater explosions (digitally filtered at 250 Hz as required by the US Navy) to high frequency techniques for ballistic shock will be reviewed in detail along with the techniques and data analyses to evaluate the instrumentation measuring these shocks.

Mechanical shock test techniques from package testing to conventional mechanical shock machines to pyroshock simulations and Hopkinson bar techniques will be presented. Design procedures for mechanical shock equipment will be discussed in detail. Where possible, theoretical bases for mechanical shock test techniques are provided. Mechanical shock data analysis and interpretation will be a major focus of all presentations and discussions and will include shock data examination and editing as well as interpolation, trend removal, and integration with Matlab.

Instructors

Dr. Vesta Bateman, Dr. Howard Gaberson, Mr. Jeffery Morris

Course Topics

Course Registration

Introduction to Mechanical Shock	Data Acquisition System Calibration/Use	Accelerometer, MEMS, and Materials
Mechanical Shock Measurement	Matlab Data Analysis	Evaluations
Mechanical Shock Instrumentation	Conventional Shock Testing Machines for	Hopkinson Bar Theory
Certification of Shock Instrumentation/ Measurement Devices	Components and Full Scale Systems	Hopkinson Bar Certifications
Time Domain Shock Specifications	Underwater Explosion Testing	Hopkinson Bar Materials and Configurations
Frequency Domain Shock Specifications	Navy Mechanical Shock Machines	Commercial Laser Doppler Vibrometer use and Certification
Shock Analysis using the Acceleration Shock Response Spectrum	Pyroshock Testing and Simulation	Uncertainty Analysis
Revolutionary Treatment of Pyroshock with the Pseudo Velocity Shock Spectrum	Full-Scale Pyroshock Tests and Simulations	Review and Wrap-up Sessions
	Component Pyroshock Simulations Including Apparatus and Fixture Design	

The Registration Fee is \$1500 per student. The registration is transferable to any person in the same organization. The fee includes a comprehensive set of course notes, a compilation of papers by Instructors Bateman and Gaberson, a text book entitled *Shock Data Analysis* by Rudolph J. Scavuzzo and Henry C. Pusey, a Certificate of completion worth 3 CEUs, as well as a Continental Breakfast, Lunch and coffee breaks daily. A Registration Form may be printed out from the SAVIAC Web Site or may be requested from Sallie Pusey, SAVIAC Course Registrar (Contact Information below). A Registration Form (available mid-Dec '07) may be printed out from the SAVIAC Web Site or may be requested from Sallie or Henry Pusey. As SAVIAC Technical Services Manager, Henry Pusey will arrange for the scheduling, management, and presentation of all courses. All completed registration forms should be faxed or mailed to Sallie Pusey at the address given below.

For registration information contact:

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

Tel: (540) 678-8677
Fax: (540) 678-8799
email: saviac@comcast.net

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

PRACTICAL SHOCK ANALYSIS AND DESIGN COURSE

2008 Schedule and Locations

September 8 - 12, 2008 (Newport, RI)

About the Course

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

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

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

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

Instructors

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

Course Topics

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

Course Registration

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

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email: saviac@comcast.net

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

CALL FOR PAPERS



79th Shock and Vibration Symposium
October 26-30, 2008
Rosen Plaza Hotel - Orlando, FL.

Planning of the 79th Shock and Vibration Symposium is underway, with the selection of the Rosen Plaza Hotel in Orlando, FL.. The featured government agency is the Air Force Research Laboratory (AFRL).

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

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

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

If you have a specific group of papers or presentations, consider submitting them together as a dedicated session for the 79th symposium.

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

Presentations will be accepted on the basis of their abstracts, which must be submitted by June 30, 2008 (extended to August 1, 2008). You are encouraged to submit online at www.saviac.org, click on 79th 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 14, 2008 (for on-time submittals). The full paper presentations must meet the following standards: They must be previously unpublished, must be appropriate to community interests and must not be overtly commercial, except for papers in the Product/Facility Session. Standards for short discussion topics are similar except that they may include previously presented or published material.

The Proceedings will be published on CD-ROM.

The paper due-date (for the proceedings) is February 28, 2009.

Questions should be directed to Drew Perkins, 434-581-3041, or drew.perkins@saviac.org.

SAVIAC Accepting Nominations for Lifetime Achievement Award and Mel Baron Award

In preparing for the 79th Shock and Vibration Symposium, SAVIAC is soliciting nominations for our two most prestigious awards: **Lifetime Achievement Award** and **Mel Baron Award**. The award criteria and award winners are listed below. The criteria for the awards are similar, but the main difference appears in bold in the criteria listing for the Mel Baron Award. If you would like to nominate a candidate, please visit www.saviac.org and click "SAVIAC Awards" from the main page and follow the directions from there. If you need assistance, please contact Drew Perkins at (434) 581-3041 or drew.perkins@saviac.org.

The Lifetime Achievement Award

This award is established by SAVIAC to honor individuals who, through a lifetime of professional dedication, have made outstanding contributions to the knowledge of, or practice in, the field of shock and vibration.

Award Criteria

The Lifetime Achievement Award shall be made to a person whose contributions to the field of shock and vibration are of such magnitude that they significantly improved the state of the art or state of practice at the time. Such contributions can be in the form of written publications, oral presentations, inventions, or program funding that directly caused such changes. The Award may also be given in recognition of an individual whose lifetime cumulative effect has been to significantly advance the state of the art or practice in the field. Demonstrated personal leadership in the shock and vibration community is an essential qualification for the Award. No individual may receive the Award more than once.

Lifetime Achievement Award Winners

Mr. Bob Bort
Mr. Bill Forehand
Dr. Howard Gaberson
Mr. George O'Hara
Prof. Rudy Scavuzzo
Mr. Peter Stein
Mr. Jerry Sullivan
Dr. Eric Ungar

THE DEADLINE FOR NOMINATIONS IS
JUNE 30, 2008

The Melvin L. Baron Award

This award is established by SAVIAC to honor Dr. Melvin L. Baron for his technical contributions and leadership in computational structural dynamics and related specialties in the field of shock and vibration.

Award Criteria

The Award shall be made annually to a person who has made outstanding contributions to the field of shock and vibration. Such contributions can be in the form of written publications, oral presentations, or other specific actions that have advanced the understanding and application of **computational methods for structures, and/or modeling of shock effects on structures**. The Award may also be given in recognition of an individual's lifetime achievements whose cumulative effect has been to advance the state of the art in the field. Demonstrated personal leadership in the shock and vibration community is an essential qualification for the Award. No individual may receive the Award more than once.

Melvin L. Baron Award Winners

Prof. Ted Belytschko
Dr. John DeRuntz
Prof. Frank DiMaggio
Dr. Tom Geers
Mr. George O'Hara
Dr. Walter Pilkey
Dr. Ivan Sandler
Dr. Gene Sevin
Mr. David Smallwood

THE DEADLINE FOR NOMINATIONS IS
JUNE 30, 2008

Conferences/Courses

Random Vibration and Shock Test Training

- May 13-15, 2008, 8am to 4pm.

- DfR Laboratories, College Park, Maryland

The severe vibrations aboard rockets, spacecraft and satellites en route to orbit and the less severe but sometimes troublesome vibrations of military and commercial aircraft (especially helicopters), military and naval land and sea vehicles and automobiles are among the vibration subjects that Wayne Tustin will discuss at the "Fundamentals of Random Vibration and Shock Testing, HALT, ESS, HASS (...)" course. Numerous testing laboratories, including DfR, utilize vibrating laboratory platforms (called shakers) to simulate those vibrations, proving that products will survive inservice vibrations. Further information on the event is available at <http://www.equipmentreliability.com/course3.htm>.

The May course will deal with accelerometers, used in measuring vibrations over the road, over the waves, in flight and during rocket launch and powered flight. Accelerometer signals are usually telemetered to recording stations. One use of the resulting data: generating programs to control shakers. These are used to test parts of future vehicles.

For more information,, please contact Wayne Tustin of the Equipment Reliability Institute at (805) 564-1260 or by email at tustin@equipment-reliability.com.

Random Vibration and Shock Test Training

- June 3-5, 2008, 8am to 4pm

- Celestica Inc., Toronto (Ontario), Canada,

Earthquakes are only one of the vibration subjects that Steve Brenner will discuss at the "Fundamentals of Random Vibration and Shock Testing, HALT, ESS, HASS (...)" course, meeting. He will also discuss the severe vibrations aboard helicopters and other aircraft, aboard rockets, spacecraft and satellites en route to orbit and the less severe but sometimes troublesome vibrations of automobiles and other land vehicles. Numerous testing laboratories, including one at Celestica, utilize shakers to simulate those vibrations, proving that products will survive in-service vibration. Further information on the event is available at <http://www.equipmentreliability.com/course1.htm>.

The June course will deal with accelerometers, used in measuring vibrations over the road, over the waves, in flight and during rocket launch and powered flight. Accelerometer signals are usually telemetered to recording stations. One use of the resulting data is the generating of programs to control vibrating laboratory platforms called shakers. These are used to test parts of future vehicles.

For more information,, please contact Wayne Tustin of the Equipment Reliability Institute at (805) 564-1260 or by email at tustin@equipment-reliability.com.

TTI Announces Course Schedule

- Las Vegas, NV.

"In just a few days you will obtain practical information to immediately improve your on-the-job performance."

- March 31 - April 4
Electronics for non Electronic Engineers
- April 7-9
Grounding & Shielding EMI/EMC/ESD
- April 10-11
Metrology Concepts
- April 21-23
Fundamentals of Vibration for Test
- April 24-25
Calibration Laboratory Procedures
- April 28-30
Digital Data Acquisition
- April 28 - May 2
Data Acq., Signal Processing & Analysis
- May 5-7
Mechanical Design for Product Reliability
- May 5-9
Fixture Design for Vibration & Shock Testing
- May 13-14
Test Procedures for EMI/EMC/ESD
- May 15-16
Dimensional Calibration Procedures
- May 19-20
Understanding ISO 17025
- May 21-23
Corrosion Control Techniques
- May 28-30
Reliability for Product Quality

Course Fees	
2-day courses	\$1495
3-day courses	\$1795
4-day course	\$2095
5-day courses	\$2395

\$100/person discount for group enrollments of two or more. \$100/course discount for one individual to multiple courses.

\$100 discount for 45 day early payment prior to course date. All courses are also available on-site.

Technology Training, Inc.
Brian P. Slattery - Vice President
toll-free: 866-884-4338 (866-TTI-4edu)
e-mail: brian@ttiedu.com
<http://www.ttiedu.com>

Explosion Effects and Structural Design for Blast

- July 22 and 23, 2008

- Holiday Inn Washington Dulles Airport

Led by Dr. Sam Kiger and Dr. Stan Woodson

Engineers have an opportunity to improve their skills in understanding explosion effects and designing facilities that are safer to occupants by understanding and minimizing the effects of explosive detonations on structures. Architects, first responders, builders and others will also benefit by understanding explosion effects and protective design methods. For more information and secure on-line registration visit <http://www.blastdesigntraining.com/>

New 2008 Endeveco Dynamic Test Handbook provides complete resource for frequently needed data

Endeveco, the leader in sensing solutions for demanding shock, vibration and pressure applications, has announced publication of its new 2008 Dynamic Test Handbook. This handy volume provides a convenient and complete reference for a wide range of commonly used data to assist in effective and efficient testing operations.

The Endeveco Dynamic Test Handbook has been a must-have reference in the measurement industry for over 30 years. It has now been revised and reprinted by popular demand. Sections include the following:

- Conversion factors
- Mathematical constants and relationships
- Dynamic measurements
- Electric circuit formulas
- Signal conditioning
- Environment factors

"One of our highest priorities is to assist design engineers and test professionals in selecting and using the right sensing solution for the needs," said Bruce Lent, Endeveco Applications Engineer. "Our Dynamic Test Handbook has been continually refined to provide critical reference data in a single, easy-to-use volume."

Visit www.endeveco.com/contactus/litrequest.aspx to order the 2008 Endeveco Dynamic Test Handbook. For information on Endeveco products and services, visit www.endeveco.com.

High Speed Boat Operations Forum

- Swedish Sea Rescue Institution Head Quarters—Ullman Dynamics in Royal Gothenburg Yacht Club Marina
- April 1, 2008

Topics for HSBO Forum 2008

- Acquisition procedures and experiences
- Defining future requirements
- Boarding operations - Hostile boarding
- Stern launch - Technologies and methods
- Clothing - How to stay dry and warm
- Legal and Regulatory issues - EU directives - ISO Standards
- New boat designs
- Human factors – Shock &Vibration Exposure
- Best practice and Guide lines

For more information, contact:

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www.hsbo.org

Got News or Conference Announcements?

Please submit your information to
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with a subject heading of
"Current Awareness News"

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**A LOOK INSIDE THE MARCH 2008
CURRENT AWARENESS**



**78th S&V Symposium Paper Deadline
Extended to April 25, 2008**

Henry Pusey “Best Paper” Nomination Form

2008 Winter Seminar Wrap-Up

SAVIAC Award Solicitations

SAVIAC Course Announcements

- Practical Shock Analysis & Design
- Mechanical Shock Test Techniques & Data Analysis

79th Symposium—Call for Papers

Other Course/Conference Announcements

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

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