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Shock Response Spectrum Calculation – An Overview	<i>Dr. Kjell Ahlin, Xielalin Consulting</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Coordinate Transformation of Vibration Autospectral Density (ASD)	<i>Dr. Arup Maji, Sandia National Laboratories</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
A Study of the Effects of the Digital Noise Floor on Flight Data Measured using a Uniform Resolution Analog to Digital Converter	<i>Jerome Cap, Melissa C' de Baca, Angela Montoya, Sandia National Laboratories</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
A Simplified Finite Element Model For Design of a Resonant Plate	<i>Angela Patterson, Dr. Vit Babuska, David Soine, Daniel Lee, Sandia National Laboratories</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Hampel Filtering of Power Spectral Densities to Remove Spurious Sine Tones in Random Vibration Data	<i>James Woodall, Dr. Vit Babuska, Sandia National Laboratories</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Micro-beaded Encapsulants for Electronics Packaging	<i>Joshua Stansfield, Dr. Jeffrey Hill, Brigham Young University, Alex Chen, Cayden Boll, Sandia National Laboratories</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Shock Model and Test Correlation for Structural Response Prediction	<i>Sean Pham, Dr. Ali Kolaini, Jet Propulsion Laboratory, California Institute of Technology</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
The Effects of Non-Contact Underwater Explosions on Naval Composite Structures: Design Numerical Analyses and Experimental Validation	<i>Francesco Mannacio, Fabrizio Di Marzo, Marco Venturini, Italian Navy, Naval Experimentation and Support Centre, Marco Gaiotti, Cesare Rizzo, University of Genova, Polytechnic School</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Ballistic Effects on 3D Printed Concrete	<i>Ryan Salter, John Lindquist, Michael Newberry, Air Force Civil Engineer Center Airbase Technologies Division/Battelle Memorial Institute, Kevin Wise/ Air Force Civil Engineer Center Airbase Technologies Division</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Pressure Testing Enclosure Projectile Impact Analysis	<i>Jonathan McConnell, University of Central Florida, Andrew Hicks, Louisiana State University, Neal Hubbard, Kimberly Haulenbeek, Thomas Ivanoff, Sandia National Laboratories</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Development and Testing of Thick Shock Resistant Gfrp-Steel Adhesive Bond	<i>Sander Dragt, J.H.A. Schipperen, TNO, Department of Naval &amp; Offshore Structures, C.P.R.J Verhaeghe, A. Ruitenber, Damen Naval, Department of Research &amp; Technology Support, J.A.A. Vaders, Defence Materiel Organisation, Department of Maritime Systems</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Guidelines for Reducing Uncertainty in Shock Analysis and Testing	<i>Monty Kennedy, MTU/MK Engineering, Dr. Jason Blough, MTU</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Towards Online Structural State-Estimation with Sub-Millisecond Latency	<i>Daniel Coble, Joud Satme, Austin Downey, Jason Bakos, University of South Carolina, Dr. Jacob Dodson, Air Force Research Laboratory, Adriane Moura, Applied Research Associates, Miaoqing Huang, Ehsan Kabir, David Andrews, University of Arkansas</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Feasibility of Using Lightweight Gas Guns for High-G Resonant Plate Shock Testing	<i>Carl Sisemore, ShockMec Engineering LLC</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Shape Evaluator: A Metric for Quantifying Modeling and Simulation Validation for Spectral Quantities	<i>Brian Lang, NSWC Carderock</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
Use of the Damage Potential Spectrum as a Comparison Descriptor for Multiple-Degree-of-Freedom Random Vibration Specifications	<i>Dr. Mike Hale, Trideum Corporation, William Barger, US Army Redstone Test Center, Jesse Porter, Hill Technical Solutions</i>	92	Proceedings from the 92nd Shock and Vibration Symposium
How Will it Survive? Informing Design Decisions for Tunnels Subject to High-Yield Weapons using Finite-Element Modeling	<i>2LT Johnathon Scheerer, CDT Mark Quesnel, 2LT Antonio Veria, MAJ Jes Barron, U.S. Military Academy</i>	91	Proceedings from the 91st Shock and Vibration Symposium
MEMS Shock Accelerometer Signal Modification Attributable to the Electrical Impedance of their Cables	<i>Dr. Patrick Walter, PCB Piezotronics/TCU Engineering, Alan Szary, James Woernley, Precision Filters</i>	91	Proceedings from the 91st Shock and Vibration Symposium
High Performance Silicones for IMU Isolation: Background, Materials, and Lessons Learned	<i>Robert Sharp, Kevin Underwood, Barry Controls</i>	91	Proceedings from the 91st Shock and Vibration Symposium
Constitutive Modeling of a Polyurethane Elastomer Subject to Large Deformations at High Rate	<i>John Puryear, Applied Physical Sciences, Dr. Lynsey Reese, Naval Facilities Engineering Command, Engineering and Expeditionary Warfare Center</i>	91	Proceedings from the 91st Shock and Vibration Symposium
Spectral Densities Statistics and Probability in the Frequency Domain	<i>Neil Loychik, Los Alamos National Laboratories</i>	91	Proceedings from the 91st Shock and Vibration Symposium
Quantification of Conservatism in the Maxi-Max Power Spectral Density Function	<i>Dr. Carl Sisemore, Melissa C de Baca, Sandia National Laboratories</i>	91	Proceedings from the 91st Shock and Vibration Symposium
Implementation of the Rickman-Murrell Clearing Model into BlastX	<i>Krystal Rodriguez-Soto, Dr. Gregory Bessette, US Army ERDC</i>	91	Proceedings from the 91st Shock and Vibration Symposium
More Repeatable Testing of Hermetically Sealed Electronic Components by Computerizing the Particle Impact Noise Detection (PIND) Test	<i>Mr. Stewart Slykhous, Spectral Dynamics</i>	91	Proceedings from the 91st Shock and Vibration Symposium
Deriving Best SDOF Shaker Inputs from 6 DOF Base Input Payload Models	<i>Randall Mayes, Consultant</i>	91	Proceedings from the 91st Shock and Vibration Symposium
Controlled Pyroshock Transients Can Be Used To Better Match Operational Shock Transients and Improve Shock Analysis and Testing	<i>Monty Kennedy, Dr. Jason Blough, Dr. Charles Van Karsen, Dr. James DeClerck, Michigan Tech University, William Zenk, Honeywell</i>	91	Proceedings from the 91st Shock and Vibration Symposium
Comparisons of the Structural Response of a Test Article Excited by DFAT™ Diffuse and Non-Diffuse Acoustic Fields	<i>Dr. Marcos Underwood, Tu'tuli Enterprises</i>	91	Proceedings from the 91st Shock and Vibration Symposium

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Spectrogram Analysis of Swept Sine Survey Data Both Pre-and Post-Vibration Testing	<i>Dr. Ricky Wayne Stanfield, Northrop Grumman Technology Services</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Static and Dynamic Load Equalization in Self-Equalizing Thrust Bearing Linkages	<i>Richard Armentrout, Curtiss-Wright Company</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Assessment of Flight Vibration versus Reynold's Number for Black Brant IX Sounding Rockets	<i>Dr. Ricky Wayne Stanfield, Northrop Grumman Technology Services</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Variations in Damage from Same Shock Response Spectra	<i>Dr. Arup Maji, Sandia National Laboratories</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Novel Distributed Impact or Force Vibration Test System Configuration – A Program	<i>Eliahu Elmalah, Consultant</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Numerical simulations of large high explosive charge detonating near ground surface with shallow layer of soil before ground rock	<i>Dr. Morgan Johansson, Norconsult AB, Dr. Leo Laine, LL Engineering, Dr. Joosef Leppanen, Chalmers University of Technology, Ola Pramm Larsen, CAFwiz Consulting AS</i>	90	Proceedings from the 90th Shock and Vibration Symposium
The Effects of Boundary Conditions on Damage Potential from Shocks	<i>Dr. Carl Sisemore, Mr. Vit Babuska, Mr. Robert Flores, Sandia National Laboratories</i>	90	Proceedings from the 90th Shock and Vibration Symposium
High-Fidelity Modeling and Structural Analysis of an Additively Manufactured Component with Defects	<i>Dr. Moheimin Khan, Dr. Justin Wilbanks, Dr. Brian C. Owens, Sandia National Laboratories</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Residual Capacity of RC Beams Subjected to Impact Loading	<i>Dr. Morgan Johansson, Norconsult AB, Dr. Joosef Leppanen, Chalmers University of Technology, Dr. Mathia Flansbjer, Chalmers University of Technology/RISE Research Institutes of Sweden, Dr. Fabio Lozano, Norconsult AB, Dr. Josef Makdesi, Sweco</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Analyzing Field Environments to Understand Product Failure Causes	<i>Jade Vande Kamp, Vibration Research</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Defining Resonant Plate Shock Test Specifications in the Time Domain	<i>Dr. Carl Sisemore, Sandia National Laboratories</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Full-field Flight Environments via a Hybrid Experimental-Analytical Method	<i>Dr. Brian C. Owens, Dr. Moheimin Khan, Dr. Gregory Tipton, Randall Maves, Mr. Brandon Zwink, Sandia National Laboratories</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Moving Delicate Air and Space Equipment	<i>Claude Prost, Joshua Partyka, Socitec Group</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Exploring Margins of Safety for Bolted Joints Undergoing Random Vibration Environments	<i>Dr. Justin Wilbanks, Dr. Brian Owens, Dr. Moheimin Khan, Sandia National Laboratories</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Techniques for Repeatable Pyroshock Testing on an Air Gun Shock Machine for Lean Satellites	<i>Ibukun Oluwatobi Adebolu, Hirokazu Masui, Isamu Inoue, Mengu Cho, Kyushu Institute of Technology</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Rapid Estimation of a Design Change's Effect on the Root Mean Square Stress and High-Cycle Fatigue Damage at a Location in a Structure Under Random Vibration Loading	<i>Sean Kelly, Cummins, Inc.</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Explorations in Multiple-Input Shaker Shock Testing	<i>Ryan Schultz, Sandia National Laboratories</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Combined Shaker-Acoustic Vibration Test Techniques	<i>Ryan Schultz, Sandia National Laboratories, Dr. Peter Avitabile, University of Massachusetts Lowell</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Enhancements in Version 2 of the Scenario and Target-Relevant Explosive Equivalence Tool: STREET	<i>Michelle Yokota, David Bogosian, Baker Engineering and Risk Consultants, Arturo Montalva, Stone Security Engineering</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Characterization and Compensation for Transverse Sensitivity in Shock Accelerometers	<i>Dr. Bryan S. Joyce, Dr. Jon Yagla, Sloan Burns, Garrett Wiles, NSWC Dahlgren Division</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Who represents realistically ships' vibration; Method 514 Ctg 21 of MIL STD 810 G or Mil Std 167 B? -Pt1	<i>Zeev Sherf, Consultant</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Who represents the naval vibration regime Mil Std 167 B or Method 514 Ctg 21 of MIL STD 810 G? Pt2 Accumulated energy considerations	<i>Zeev Sherf, Consultant</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Examples of using the extremes' counting and fatigue damage accumulation methods	<i>Zeev Sherf, Consultant</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Implementation of peak counting methods and fatigue damage evaluation in random loads regime with OCTAVE	<i>Zeev Sherf, Consultant</i>	90	Proceedings from the 90th Shock and Vibration Symposium
New Method to Determine Optimized Reference SDM for MIMO Random or Acoustic Testing	<i>Dr. Marcos Underwood, Tu'tuli Enterprises</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Calculating Fillet Weld Sizes Based on Finite Element Analyses	<i>Nicholas Pinco, Chris Campbell, Newport News Shipbuilding</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Estimation of Fundamental Natural Period for Shock Fixtures	<i>Jonathan Hower, Honeywell Federal Manufacturing &amp; Technologies</i>	90	Proceedings from the 90th Shock and Vibration Symposium
DAQ Evaluation for Pyroshock Testing	<i>Erica Jacobson, Dr. Jason Blough, Dr. James DeClerck, Charles Van Karsen, Michigan Technological University, David Soine, Sandia National Laboratories</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Computing the Maximum Expected Environment of a Small Data Set	<i>Chad Heitman, Sandia National Laboratories</i>	90	Proceedings from the 90th Shock and Vibration Symposium
Comparison of Piezoelectric and Foil Strain Gauges in Shock and Vibration Strain Detection	<i>Robert Ponder, Sloan Burns, NSWC Dahlgren Division</i>	90	Proceedings from the 90th Shock and Vibration Symposium
A New Line of Larger Wire Rope Isolators (WRI)	<i>Mr. Claude Prost, Mr. Joshua Partyka, Socitec Company</i>	89	Proceedings from the 89th Shock and Vibration Symposium

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Simulating the Dynamic Behavior of a Shipping Container	Mr. Claude Prost, Mr. Joshua Partyka, Socitec Company	89	Proceedings from the 89th Shock and Vibration Symposium
Design of a Resonant Plate Shock Test for Simultaneous Multi-Axis Excitation	Mr. Ron Hopkins, Mr. Carl Sisemore, Sandia National Laboratories	89	Proceedings from the 89th Shock and Vibration Symposium
Using Bispectral Analysis to Detect The Onset of Fatigue Damage in Randomly Excited Structures	Mr. Carl Sisemore, Mr. Vit Babuska, Sandia National Laboratories	89	Proceedings from the 89th Shock and Vibration Symposium
The Use of Shock Isolation Systems in Small High-Speed Planing Craft for Wave Impact Protection	Mr. Brock W. Aron, Dr. Timothy W. Coats, Naval Surface Warfare Center Carderock Detachment Norfolk, Mr. Michael R. Riley, The Columbia Group	89	Proceedings from the 89th Shock and Vibration Symposium
2D FE and 2DOF Simulations of Ground Shock Experiments – Total Structure’s Spring Energy Displacement Dependency to the Charge’s and Structure’s Properties	Prof. Leo Laine, LL Engineering, Mr. Morgan Johansson, Norconsult AB, Mr. Ola Pramm Larsen, CA Ewiz Consulting AS	89	Proceedings from the 89th Shock and Vibration Symposium
Shock modeling and shock generation	Mr. Zeev Sherf, Consultant	89	Proceedings from the 89th Shock and Vibration Symposium
Preparation of multi axis, multi shaker vibration testing programs for stationary and non-stationary flight conditions simulation Pt I	Mr. Zeev Sherf, Consultant	89	Proceedings from the 89th Shock and Vibration Symposium
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A Technique to Develop a Spectral Density Matrix with Synthesized Rotational Degrees-of-Freedom	Dr. Michael T. Hale, Trideum Corporation	89	Proceedings from the 89th Shock and Vibration Symposium
Several remarks on the shock spectrum's limitations as a descriptor of a Shock	Mr. Zeev Sherf, Consultant	89	Proceedings from the 89th Shock and Vibration Symposium
Using Recorded Data to Improve SRS Test Development	Mr. Joel Minderhoud, Vibration Research	89	Proceedings from the 89th Shock and Vibration Symposium
Applications of MIMO Digital Adaptive Control to High Level Acoustic Testing	Dr. Marcos A. Underwood, Tu’uli Enterprises	89	Proceedings from the 89th Shock and Vibration Symposium
Trending of Sounding Rocket Flight Vibration with Reynold’s Number	Dr. Ricky Wayne Stanfield, Northrop Grumman Technology Services, Inc.	89	Proceedings from the 89th Shock and Vibration Symposium
Derivation of Shaker Shock Input of an Oscillatory Decaying Shock to Optimize High Frequency SRS	Mr. Chad Heitman, Mr. Jerome Cap, Sandia National Laboratories	89	Proceedings from the 89th Shock and Vibration Symposium
INFLUENCE AND ENHANCEMENT OF DAMPING PROPERTIES OF WIRE ROPE ISOLATORS FOR NAVAL APPLICATIONS	Mr. Claude Prost, Mr. Bruno Abdelnour, The Socitec Group	88	Proceedings from the 88th Shock and Vibration Symposium
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2D FE AND 2DOF SIMULATIONS OF GROUND SHOCK EXPERIMENTS – REFLECTION PRESSURE TIME HISTORY DEPENDENCY DUE TO THE CHARGE’S AND STRUCTURE’S PROPERTIES	Mr. Leo Laine, Mr. Morgan Johansson, Mr. Ola Pramm Larsen, LL Engineering	88	Proceedings from the 88th Shock and Vibration Symposium
VELOCITY AND OTHER LOW FREQUENCY SRS SHAPE MODIFIERS	Mr. William Larsen, Dr. Jason Blough, Dr. James DeClerck, Mr. Charles VanKarsen, Michigan Technological University, Mr. David Soine, Mr. Richard Jones, Honeywell Federal Manufacturing & Technologies	88	Proceedings from the 88th Shock and Vibration Symposium
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An Automated Method to Identify Outlier Sensor Response	<i>Ms. Angela Montoya, Mr. Jason Booher, Mr. Vit Babuska, Sandia National Laboratories</i>	87	Proceedings from the 87th Shock and Vibration Symposium
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6-DOF Mechanical Shock Failure Predictions of a Cantilever Structure Using Energy Response Spectra Methods	<i>Mr. Carl Sisemore, Mr. Vit Babuška, Mr. Jason Booher, Sandia National Laboratories</i>	87	Proceedings from the 87th Shock and Vibration Symposium
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Monte Carlo Optimization of a Single Input Multiple Output (SIMO) Input Derivation for an Oscillatory Decaying Shock	<i>Mr. Chad Heitman, Mr. Jerome Cap, Sandia National Laboratories, Mr. Dylan Murphy, University of Georgia</i>	87	Proceedings from the 87th Shock and Vibration Symposium
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Tuned Mass Dampers Using Wire Rope Isolators	<i>Mr. Claude Prost, Mr. Bruno Abdelnour, Vibro/Dynamics/SOCIETEC</i>	87	Proceedings from the 87th Shock and Vibration Symposium
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Interaction Tools for Underwater Shock Analysis in Naval Platform Design	<i>Mr. Johannes E. van Aanhold, TNO Structural Dynamics, Mr. Johan T. Tuitman, TNO Structural Dynamics, Mr. Willem Trouwborst, TNO Structural Dynamics, Mr. Johannes A.A. Vaders, Ministry of Defence</i>	87	Proceedings from the 87th Shock and Vibration Symposium
Shock Response Spectrum Shaping Using Structural Modifications	<i>Dr. Jason Blough, Michigan Technical University, Mr. Charles VanKarsen, Michigan Technical University, Dr. James DeClerck, Michigan Technical University, Mr. David Soine, Honeywell Federal Manufacturing &amp; Technologies</i>	87	Proceedings from the 87th Shock and Vibration Symposium
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6 Degree of Freedom Shock and Vibration: Testing and Analysis	<i>Brian Owens, Gregory Tipton, and Matthew McDowell, Sandia National Laboratories</i>	86	The Symposium Proceedings Collection, Volume II (Symposia 76-86)
A Method for Extrapolating Haversine Shock Test Input Levels	<i>Carl Sisemore and Troy Skousen, Sandia National Laboratories</i>	86	The Symposium Proceedings Collection, Volume II (Symposia 76-86)
An Experimental Study of Loading from UNDEX Bubble Collapse	<i>John Brett, George Yiannakopoulos, and Andrew Krelle, Defence Science &amp; Technology Group</i>	86	The Symposium Proceedings Collection, Volume II (Symposia 76-86)

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Cause of and Solution for Cable Generated Noise in Accelerometer Signals	<i>Patrick Walter, Texas Christian University/PCB Piezotronics</i>	86	The Symposium Proceedings Collection, Volume II (Symposia 76-86)
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Finite Element Simulation of a Direct-Field Acoustic Test of a Flight System Using Acoustic Source Inversion	<i>Ryan Schultz, Eric Stasiunas, and Tim Walsh, Sandia National Laboratories</i>	86	The Symposium Proceedings Collection, Volume II (Symposia 76-86)
Mechanical Shock Failure Predictions of a Cantilever Structure Using Energy Response Spectra Methods	<i>Carl Sisemore, Vit Babuska, and Jason Booher, Sandia National Laboratories</i>	86	The Symposium Proceedings Collection, Volume II (Symposia 76-86)
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