

Honors and Awards

presented by the

Institute of Noise Control Engineering of the United States of America

with support from the

INCE Foundation

Fellows of the Institute of Noise Control Engineering of the USA

Distinguished International Members

INCE/USA Distinguished Noise Control Engineer Award

INCE/USA Outstanding Educator Award

INCE/USA Award for Excellence in Noise Control Engineering

INCE/USA Distinguished Service Medal

Martin Hirschorn IAC Prize - Best Paper Award

Martin Hirschorn IAC Prize - Graduate Student Project Award

INCE/USA Undergraduate Student Project Award

INCE/USA Student Papers Award

INCE/USA Undergraduate Student Achievement Award

Undergraduate Student Grant Award

Fellows, Institute of Noise Control Engineering of the USA

Fellowship in INCE/USA is to honor and recognize publicly any INCE-USA Member who has rendered conspicuous service to INCE/USA and has made notable or distinguished contributions to the advancement of noise control engineering and/or has notably promoted knowledge of noise control engineering.

Leo L. Beranek	Martin Hirschorn	Richard J. Peppin
Robert J. Bernhard	David K. Holger	Stephen I. Roth
Courtney B. Burroughs	Harvey H. Hubbard	Jeff G. Schmitt
William J. Cavanaugh	K. Uno Ingard	Paul D. Schomer
James Chalupnik	George W. Kamperman	James G. Seebold
Beth A. Cooper	Howard F. Kingsbury	Ben H. Sharp
Joseph M. Cuschieri	Francis Kirschner	Rajendra Singh
Patricia Davies	William W. Lang	Louis Sutherland
Paul Donavan	Gerald C. Lauchle	R. Bruce Tatge
Kenneth M. Eldred	Robert Lotz	Allan M. Teplitzky
Lewis S. Goodfriend	David Lubman	Nancy S. Timmerman
Stephen A. Hambric	Richard H. Lyon	Greg C. Tocci
Carl E. Hanson	George C. Maling, Jr.	Eric E. Ungar
Andrew S. Harris	Alan H. Marsh	Istvan L. Ver
Robert Hellweg	Steven E. Marshall	Henning E. Von Gierke
Ralph K. Hillquist		David, M. Yeager



Distinguished International Members

The status of INCE Distinguished International Member is conferred by the INCE Board of Directors upon eminent acousticians residing outside the U.S.A. who have personally made extraordinarily significant contributions to the theory and/or practice of noise control engineering.

- | | | | |
|---|---|---|---|
| ❖ | Australia
Louis Challis
Fergus Fricke
Colin Hansen
Leonard Koss | ❖ | India
M. Munjal |
| ❖ | Austria
Judith Lang | ❖ | Japan
Zyun Iti Maekawa
Seiichiro Namba
Toshio Sone |
| ❖ | Brazil
Samir N. Y. Gerges | ❖ | Portugal
Jorge Patrício |
| ❖ | Belgium
Gerrit Vermeir | ❖ | Russia
Vyacheslav Maslov |
| ❖ | Canada
Gilles Daigle
Michael Stinson | ❖ | Sweden
Tor Kihlman
Conny Larsson
Nils-Åke Nilsson
Juha Plunt
Ulf Sandberg |
| ❖ | Czech Republic
Josef Novák | ❖ | The Netherlands
Jan Granneman
Tjeert ten Wolde |
| ❖ | Finland
Kari Pesonen | ❖ | United Kingdom
Jeremy Astley
Bernard Berry
Frank Fahy
John Ffowcs-Williams
Hugh Jones
H. Leventhall
A. Middleton
Philip Nelson |
| ❖ | France
Michael Bockhoff
Daniel Commins
Jean Mattei | | |
| ❖ | Germany
Ulrich J. Kurze
Joachim Scheuren
Brigitte Schulte-Fortkamp
Werner Schirmer | | |
| ❖ | Hungary
Andras Kotschy | | |

INCE Distinguished Noise Control Engineer Award

The INCE Distinguished Noise Control Engineer Award recognizes individuals who have rendered conspicuous and consistently outstanding service to the Institute and to the field of noise control engineering over a sustained period. This honor corresponds to the title "Distinguished Professor" in academia and to the Honorary Fellowship Award of professional societies such as the Acoustical Society of America.

❖ **1997 Leo L. Beranek**

For extraordinary and sustained contributions in engineering and practical applications in noise control engineering, in teaching, and publications for the education of noise control engineers, and for the formation, development, and sustenance of the Institute.



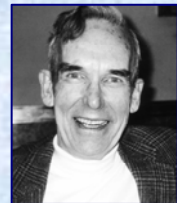
❖ **2001 George C. Maling Jr.**

For pioneering leadership in establishing noise control as an engineering discipline, and for exceptional contributions to the development of international and national noise control practice and standards.



❖ **2002 William W. Lang**

For leadership, nationally and internationally, in the establishment of industrial noise programs, noise control organizations, and standards for noise control.



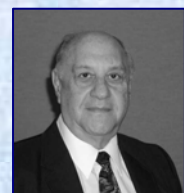
❖ **2003 Robert J. Bernhard**

For contributions to numerical, experimental, and active methods in noise control, and for exemplary service to noise control education and to INCE.



❖ **2004 Eric E Ungar**

World-class engineering scientist, consultant, teacher, and author with significant international contributions to acoustics, noise and vibration control, structural dynamics and damping.



❖ **2010 Alan H. Marsh**

For pioneering contributions to aircraft noise reduction, efforts to improve technical standards for sound level meters and for sustained service to INCE.



INCE Outstanding Educator Award

The INCE Outstanding Educator Award for Excellence in the Teaching of Noise Control Engineering is intended to honor a person who has significantly advanced the technology and practice of noise control engineering through unique contributions to the education of future noise control engineers, as demonstrated by one or more of the following qualifying accomplishments. The Award consists of a Certificate and a cash grant of \$2000.

Excellence in teaching, whether through the inspired dissemination of the principles of noise control engineering, or by inspiring students to attain high achievement in the field of noise control engineering.

The notable improvement of tools such as textbooks, laboratory experiments, courses, and student projects for the teaching of noise control engineering in a university.

Excellence in disseminating the principles of noise control engineering outside of a university setting through the teaching of short courses and seminars; by promoting cooperation among academic, industrial, or government sectors, or with other disciplines; or by advancing the public's understanding of the benefits of noise control technology.

Enhancing and diffusing the knowledge of noise control engineering through seminal research, scholarly publications, or patents; or the development of noise control materials, products, techniques, or programs.

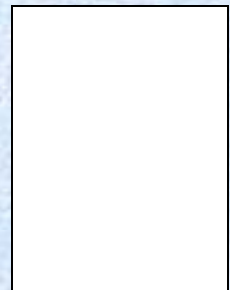
Providing sustained and effective leadership for the educational programs and activities of the Institute of Noise Control Engineering.

❖ 1984 Robert F. Lambert

This first INCE/USA Education Award was presented in memory of John C. Johnson.

For Excellence in Education of Noise Control Engineers

Looking for photograph



❖ **1989 Rajendra Singh**

This second INCE/USA Education Award was presented in memory of founding member Ken S. Oliphant.

For Excellence in Education of Noise Control Engineers



❖ **1992 Malcolm J. Crocker**

This third INCE/USA Education Award was presented in memory of Theodore J. Schultz.

For Excellence in Education of Noise Control Engineers

Looking photo with more resolution

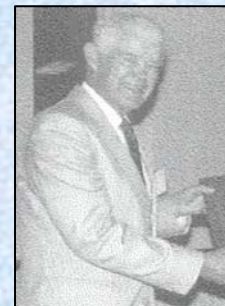


❖ **1995 Uno Ingard**

This fourth INCE/USA Education Award was presented in memory of Fritz Ingersley.

For Excellence in Education of Noise Control Engineers

Looking for photo with more resolution



❖ **1999 J. Stuart Bolton**

For Excellence in Education of Noise Control Engineers



❖ **2008 Laymon N. and Lucy Miller**

For developing and teaching to thousands of professionals the longest-running and best-attended series of lecture courses on the principles and practical aspects of applied engineering noise control. Since 1969, the course has been taught at dozens of cities and companies throughout North America. Published extensive lecture notes expanding on and supporting his courses has served as a valuable reference for his students. He has also prepared outstanding published handbooks and manuals on industrial noise control engineering in use by engineers nationwide. He has served as a trusted and respected mentor for many less-experienced younger associates, and has provided his students and clients a better understanding and awareness of the importance and benefits of acoustics and noise control engineering. Over a period of 60 years, he has prepared numerous scholarly publications, and has given presentations at professional societies. Laymon Miller's course is now taught by Reggie Keith.



INCE Award for Excellence in Noise Control Engineering

To stimulate the development and/or recognition of noise control engineering technology for the ultimate benefit of society, the following award will be offered from time to time by INCE/USA. The award is intended to provide, and disseminate widely, recognition for one or more individuals or institutions who have demonstrated one or more contemporary and outstanding products or processes in the applied art of noise control engineering. The product or process should also be capable to making an effective contribution toward a quieter environment. This honorary award would be similar, in concept, to the Malcolm Baldrige Award program of the US Department of Commerce or similar awards by professional societies such as the American Institute of Architects (AIA) or the American Institute of Aeronautics and Astronautics (AIAA). However, the award would not be considered an endorsement by INCE of any specific product or process.

❖ **1999 Glenn Frommer, Mass Transit Railroad Corp, Hong Kong, China**

For noise control innovations incorporated into the Airport Railway in Hong Kong, including:

- a wheel/rail interface integrating the track and rolling stock design,
- the use of a Noise Assurance Plan to manage the noise design of the rolling stock,
- the use of aggressive specifications for the noise emissions, reverberation times, and building services within stations,
- the use of RASTI modeling to ensure proper design and delivery of the public address system,
- the use of floating track slabs and other trackforms to minimize the transfer of structure-borne noise from the railway platforms to the overlying developments, and
- specialist training in acoustics and vibrations.



floating slab track



translucent noise barriers

❖ **2009 Paul R. Donovan, of Illingworth & Rodkin, Inc. (I&R)**

For development of On-Board Sound Intensity (OBSI) probes and decades of leadership and contributions to the measurement and understanding of tire/pavement noise at the source.



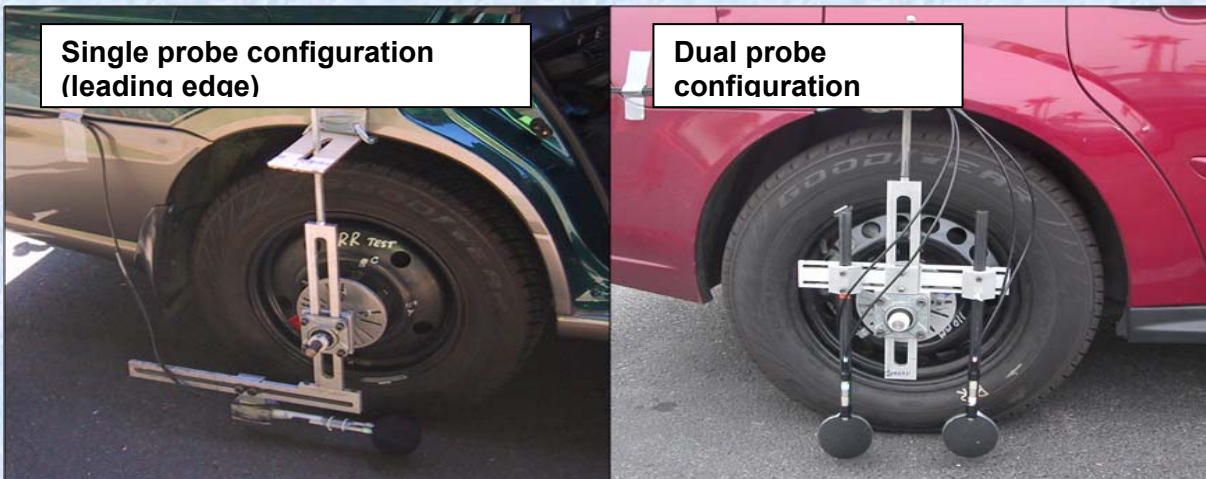
He has employed his innovative sound intensity probes during measurements from automobiles and trucks operating at speeds up to 60 mph (100 km/hr) along hundreds of in-service highways in California, Arizona, Nevada, and four European countries.

A recent configuration of the probe includes one or two pairs of phase-matched ½” diameter condenser microphones fitted with nose cones and spherical foam windscreens and located near the side wall of the test tire adjacent to the leading and trailing edges of the tire contact patch. The sound intensity level is analyzed in 1/3 octave bands in real time and the signals are also stored on a digital recorder. Photographs are shown below of the OBSI equipment installed on test vehicles.

The OBSI probes when located directly adjacent to a moving tire are well-suited to measure noise generation and radiation because it is able to localize individual noise sources, reject background noise, detect propagating energy in the acoustic nearfield, reduce contamination by flow-induced noise, and provide repeatable consistent measurement results.

Measurements using the OBSI probes are leading to better understandings of tire/pavement noise generation and radiation at a wide range of pavement types and are providing the information and insights needed in the development of quieter tires and pavements. The California Department of Transportation is currently implementing a program to build quieter highways throughout the State of California. One California highway environmental official has stated that “Dr. Donovan’s efforts in creating a quieter highway environment have put Caltrans at the forefront of this specialized field.”

With Paul’s participation, the OBSI methodology is being adopted as a measurement standard by the American Association of State Highway & Transportation Officials, the American Society for Testing Materials, and the Society of Automotive Engineers. Additional information is available at National Cooperative Highway Research Program (NCHRP) Report 630.

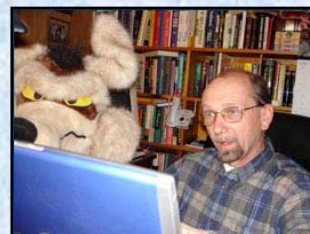


INCE/USA Distinguished Service Medal

The INCE/USA Distinguished Service Medal will be presented to individuals who have shown exceptional dedication and service (above and beyond the call of duty) to INCE/USA. It is an award that acknowledges volunteers who provide significant and sustained help to INCE/USA and thus also the profession. First awarded in 2009.

❖ 2009 Courtney B. Burroughs

Courtney had this great idea to make INCE conference papers available electronically, so that people with particular noise control problems could perform a search and see what people had done and find people to contact. I am not sure that Courtney knew how much work this would be when he had the thought several years ago, but he volunteered to do it. This effort has, and continues to be, very time consuming. However, he sees the benefits of it to INCE members as well as others and is gradually working through older proceedings (not so electronically friendly) and getting them prepped for insertion into the database. Having started on that, he also became the Editor of the Noise Control Engineering Journal. Courtney has helped for many years with reviewing and preparing new Board Certification exam questions and sample problems, and in the tedious process of grading exams taken by candidates. Again his focus has been on helping to advance the technical proficiency of the INCE membership. He also works with George Maling and the Technical Chairs of the INCE/USA conferences to put the current conference proceedings on CDs. Last but not least, Courtney has volunteered to serve as Technical Program Chair of Noise-Con 2010, just to fill in his remaining “idle” hours; this is one of many times that Courtney has helped in the organization of conferences for INCE.



❖ 2009 Joseph Cuschieri

“I don’t know when Joe sleeps”, said one Board member. Where would INCE be without him through the transitions with the various business offices? Joe has become the source of information for INCE, and all questions on day-to-day issues with the INCE business office get funneled through Joe. Joe is the Executive Director of INCE, but he doesn’t get paid for that job; this saves INCE a significant expense. In particular, his handling of the transition to the new INCE Business Office through Noise-Con 2008 was amazing; this was a difficult time, but Joe was always there to make sure things got done. He updated the website, set up the on-line registration, and has continued to implement much of the INCE website editing and conference website co-ordination since then. Over the years, Joe has also run several of our national and international conferences. What people perhaps don’t realize is that he has done a lot of the work of putting the conference on himself. Most of us need secretarial and IBO help to do that, but Joe has always done most of that work himself, even though he has a full time “day job”. Joe has also served as president of INCE. His responsiveness to everyone is admirable, particularly when you realize how busy he must be. As one member said, “If an email message is sent out by someone with a question or



problem needing attention, it seems that Joe is the first to respond with the most logical answer or solution.”

❖ **2009 George C. Maling Jr. and Norah Maling**

An incorporator and founding member of INCE/USA, George Maling has for 39 years tirelessly devoted an enormous amount of his own time to INCE/USA. He and Norah ran the organization as volunteers for many years. George and Norah always knew what to do so that things ran efficiently and smoothly. To this day George continues to contribute to INCE/USA. Among other things, he edited Noise/News and still edits Noise News International, attends INCE Board of Directors meetings, and also helps put together the CDs for the conference proceedings. George actually led the effort to place early issues of NCEJ and past issues of NOISE Control/Sound onto CDs. George also helped to form the INCE Foundation and has served as the president. His tireless efforts leading the NAE panel on Technology for a Quieter America are another example of his selfless dedication to the Noise Control Community. He also continues to be an important source of information, advice, and support for the INCE board, officers, and committees. Throughout this, Norah has been at his side, both directly helping INCE and indirectly through her support of George which enables him to dedicate long hours to INCE and the noise control community. Without George and Norah, INCE/USA would not be the fine organization that it is today; they are the personification of altruism and we are fortunate that they have focused on making INCE/USA successful.



Martin Hirschorn IAC Prize **Best Paper Award**

Awarded for the best paper on new and/or improved cost-effective noise control and/or acoustical conditioning products published in the two years preceding the award.

❖ **2000 Murray Hodgson**

Scale-Model Evaluation of the Effectiveness of Novel Absorber Treatments for Industrial Noise Control, NCEJ

❖ **2002 Gerald C. Lauchle and Timothy A. Brungart, Pennsylvania State University**

Modifications of a Handheld Vacuum Cleaner for Noise Control, NCEJ

❖ **2004 Kent L. Gee and Scott D. Sommerfeldt**

A compact active control implementation for axial cooling fan noise, NCEJ

❖ **2006 Michael Yang, George Lesieutre, Stephen Hambric, and Gary Koopman, Pennsylvania State University**

Development of a design curve for Particle Impact Dampers, NCEJ

❖ **2006 Penelope Menounou, Department of Mechanical Engineering, The University of Texas at Austin and Jeong Ho You, Department of Mechanical and Industrial Engineering, The University of Illinois at Urbana-Champaign**

Design of a jagged-edge noise barrier: Numerical and experimental study

❖ **2008 Nikola Holecek, Brane Sirok, Marko Hocevar, Rudolf Podgornik and Rok Grudnik, Gorenje and University of Ljubljana in Slovenia**

Reducing the noise emitted from a domestic clothes-drying machine, NCEJ

❖ **2010 Mark A. MacDonald, Jessica Gullbrand, Yoshifumi Nishi, and Eric Baugh, INTEL Corp**

Notebook blower inlet flow and acoustics: Experiments and simulations, NCEJ

Martin Hirschorn IAC Prize **Graduate Student Project Award**

Awarded as a contribution to the education of a graduate student studying noise control engineering in the United States of America who proposes a project related to an application of noise control engineering and/or acoustical conditioning of architectural spaces.

❖ **1999 Hyeong-seok Kim, Department of Architecture, University of Florida**

Study of Community Noise from Cooling Towers and Condensing Units

❖ **2001 Erica Bowden, University of Nebraska**

Investigation of Complex Background Noise Spectra in Normal and Hearing-Impaired Persons

❖ **2003 Ferdy Martinus, University of Kentucky**

Reconstruction of Acoustic Particle Velocity on an Open-Ended Duct

❖ **2005 Jonathan Rathsam, University of Nebraska**

Validation and Modeling of Diffraction around Three-dimensional Surfaces using 3D Boundary Element Method

❖ **2007 Brent W. Rudd, University of Cincinnati**

Noise Reduction for Magnetic Resonance Imaging (MRI) Patients

❖ **2009 Selen Okcu, Georgia Institute of Technology**

Development of New Acoustic Metrics for Complex Hospital Sound Environments

INCE Undergraduate Student Project Award

The objective of these awards is to recognize undergraduate students undertaking independent studies project work in noise control engineering and related topics and to provide them with nominal grants to cover expenses that otherwise would not be available from the university resources.

- ❖ **2008 Michael W. Lunoe and Nicholas Statzer, with Professor Robert D. Celmer, University of Hartford**

Acoustic modeling of data center noise

- ❖ **2008 Jared Liette, with Professor Raj Singh, Ohio State University**

Anatomy of high speed brake judder phenomenon using analytical and experimental methods

INCE Student Papers Awards

Student Paper Prize Competition for INTER-NOISE and NOISE-CON conferences.

- ❖ **1989 D. A. Ufford, Purdue University**

A Signal Processing Technique to Identify the Number of Incoherent Sources in a System

- ❖ **1989 S. E. Smith, Stevens Institute of Technology**

Evaluation of Fan Noise Loudness Using A-weighted Sound Level and Zwicker's Model

- ❖ **1989 D. S. Mandic, Purdue University**

Active Noise Control in Damped Elastic Cylinders Using Vibrational Force Inputs

- ❖ **1989 W. S. Chiu, Pennsylvania State University**

Subsonic Axial Flow Fan Noise and Inflow Velocity Disturbance

❖ **1989 R. W. Andrews, Purdue University**

Mechanisms of Sound Generation in Helical Twin-Screw Compressors

❖ **1990 Peter Konieczny, Purdue University**

A Broadband Noise Prediction Scheme for Low-noise Centrifugal Blowers

❖ **1990 Delores E. Brown, Purdue University**

Multi-piston Compressor Noise Source Identification Using Parametric Multichannel Spectral Techniques

❖ **1990 Jerry E. Farstad, Ohio State University**

Guidelines for the Effective Use of Refrigeration Discharge Mufflers

❖ **1991 Barry L. Agee and Allan D. Kelly, Virginia Polytechnic Institute**

Finite Element Model Updating Using Laser-based Experimental Dynamics for Noise Prediction Purposes

❖ **1991 Ming-Ran Lee, Ohio State University**

Identification of Pure Tones Radiated by a Computer Disk Drive

❖ **1991 Jinko Lee, University of Illinois**

Compact Sound-absorbing Structures for Low Frequencies

❖ **1991 Wei Wei, University of Mississippi**

Gated Sound Power Measurement Using Sound Intensity

❖ **1991 G. Wesley Blankenship, Ohio State University**

Development of a Signal Processing Technique for the Objective Rating of Gear Noise

❖ **1992 Chuan-Chiang Chen, Ohio State University**

Noise Reduction in Automotive Power Steering Transmission Lines

❖ **1992 D. L. Hallman, Ray W. Herrick Laboratories, Purdue University**

Multi-referenced Nearfield Acoustical Holography

- ❖ **1992 Alan R. Masters and Sung Jin Kim, Ray W. Herrick Laboratories, Purdue University**

Experimental Investigation into Active Control of Compressor Noise Radiation Using Piezoelectric Actuators

- ❖ **1992 Peter J. Nashif, Pennsylvania State University**

An Active Control Strategy for Minimizing the Energy Density in Enclosures

- ❖ **1992 Z. Hu, Ray W. Herrick Laboratories, Purdue University**

The Propagation of Sound from an Arbitrarily Oriented Dipole over a Finite Impedance Plane

- ❖ **1993 Kelly Kay, Pennsylvania State University**

Error Induced in Bending Wave Power Measurements Resulting from the Presence of Longitudinal Waves Part 2

- ❖ **1993 Seungbae Lee, University of California at Los Angeles**

Computation of Aerosound from Turbulent Flow Fields using Large-eddy Simulation

- ❖ **1993 Chandramouli Padmanabhan, Ohio State University**

Influence of Clutch Design on the Transmission and Perception of Automobile Transmission Rattle Noise

- ❖ **1993 Y. J. Kang and W. Tsoi, Purdue University**

The effect of Mounting on the Acoustical Properties of Finite-depth Polyimide Foam Layers

- ❖ **1994 Craig M. Heatvole, Purdue University**

Prediction of Multiple-input Active Control of Road Noise in Automobile Interiors

- ❖ **1994 Gary S. Madaras, University of Florida in Gainesville**

Techniques for Interaural Cross-correlation Measurements

- ❖ **1994 Todd E. Rook, Ohio State University in Columbus**

Analysis of Structure-borne Noise Power Flow through Bearings in a Gearbox

- ❖ **1994 Thomas J. Royston, Ohio State University in Columbus**

Shaped PVDF Sensors for Intelligent Measurement of Acoustic Pressure in Liquid-filled Pipes

- ❖ **1994 Lisa R. Taylor, Stevens Institute of Technology**

Acoustical and Fluid Dynamic Similarity for Air-moving Device Measurements on the ANSI Test Plenum

- ❖ **1995 Jonathan D. Blotter, Virginia Polytechnic Institute and State University at Blacksburg**

Identification of Energy Sources and sinks to Enhance Noise Control in Plates

- ❖ **1996 Bryan H. Song, Ray W. Herrick Laboratories, Purdue University**

Effect of Circumferential edge constraint un the transmission loss of glass fiber materials.

- ❖ **1996 Shuo Wang, Ray W. Herrick Laboratories, Purdue University**

A zero order energy finite element method: theory, applications, and similarity to SEA.

- ❖ **1997 Troy Hartwig, Ray W. Herrick Laboratories, Purdue University**

Effects of Refraction on Short Range Outdoor Propagation over Asphalt Surfaces.

- ❖ **1998 Fen Hai, Ray W. Herrick Laboratories, Purdue University**

Energy Flow Analysis of Flow-Induced Vibrations of Plates

- ❖ **1999 Byan H. Song, Ray W. Herrick Laboratories, Purdue University**

Effect of Circumferential Edge Constraint on the Transmission Loss of Glass Fiber Materials.

- ❖ **1999 Manish Vaishya, Ohio State University**

Experimental Study of the acoustic field near gear meshing zones.

- ❖ **1999 Shuo Wang, Ray W. Herrick Laboratories, Purdue University**

A Zero-order Energy Finite Element Method: theory, applications, and similarity to SEA.

- ❖ **2000 Laralee G. Ireland, Brigham Young University**

Modeling the normal modes and acoustics of a jet engine.

- ❖ **2000 Junhong Park, Ray W. Herrick Laboratories, Purdue University**

Transmission loss of bulb seals.

- ❖ **2001 Theodore M. Kostek, Purdue University**

Eigenvector analysis for vibration isolation.

- ❖ **2001 Kenneth Kaliski, Ayorkor Mills-Tetty, and Efrosyni Seitaridou, Dartmouth College**

Low-complexity continuous noise monitoring system for communities, small airports, and remote areas.

- ❖ **2002 Manmohan Moondra, Wayne State University**

Visualization of vehicle interior noise using HELS based NAH.

- ❖ **2002 Jinho Song, Purdue University**

Modeling of Membrane Sound Absorbers.

- ❖ **2002 T.C. Kim, Ohio State University**

Frequency Domain Analysis of Rattle in Gear Pairs and Clutches.

- ❖ **2002 Kent L. Gee, Brigham Young University**

Multi-Channel Active Control of Axial Cooling Fan Noise.

- ❖ **2002 Moohyung Lee, Purdue University**

Application of Cylindrical NAH to the Visualization of Aeroacoustic Sources.

- ❖ **2003 Daniel A. Hicks and Kha Vu, Michigan Technological University**

Study and Reduction of Noise from a Pneumatic Nail Gun.

- ❖ **2003 Kenji Homma, Virginia Tech Vibration and Acoustics Labs in Blacksburg**

Broadband Active-Passive Control of Small Axial Fan.

- ❖ **2003 Jeong Woo Kim, Ray W. Herrick Laboratories, Purdue University**

Sound Transmission through Lined Composite Fuselage Structures: Formulation of Anisotropic Poro-elastic Theory.

- ❖ **2004 Andrew R. Barnard, Michigan Technological University**

Measurement of Sound Transmission using a Modified Four Microphone Impedance Tube

- ❖ **2004 Jason D. LaLonde, Michigan Technological University**

Study and Reduction of Noise from an Electric Router

- ❖ **2004 Kiho Yom, Purdue University**

Sound Radiation Modes of a Tire on a Reflecting Surface

- ❖ **2004 Vivake Asnani, Rajendra Singh, and Stephen Yurkovich, Ohio State University**

Active Control of Modulated Sounds in a Duct

- ❖ **2004 H. Super, University of Twente, The Netherlands**

Feedforward Control of Broadband Disturbances on a Six-degrees-of-freedom Vibration Isolation Set-up

- ❖ **2005 Ferdy Martinus, University of Kentucky**

An Advanced Noise Source Identification Technique Using the Inverse Boundary Element Method

- ❖ **2005 Andrew Kankey, Pennsylvania State University**

Proposed Piezoceramic Array for Rotational and Translational Structural Mobility

- ❖ **2005 David Moensen, Pennsylvania State University**

Determination of Shell-Radiated Noise of an Automobile Engine Air Intake System Using Numerical and Experimental Techniques

- ❖ **2005 Peter Shapiro, Pennsylvania State University**

Subjective Response to Low-Frequency Aircraft Noise

- ❖ **2005 Todd Thompson, Iowa State University**

Evaluating the Bonding Conditions of NASA Spray on Foam Insulation (SOFI) Using Audio Frequency Sound Absorption Measurements

❖ **2007 Connor Duke, Brigham Young University**

Optimization of Control Source Locations in a Free-field Active Noise Control Application using a Genetic Algorithm

❖ **2007 Song He, Ohio State University**

Improved Gear Whine Model with Focus on Friction-induced Structural-borne Noise

❖ **2007 Geon-Seok Kim, Pennsylvania State University**

Prediction of Diesel Engine Cooling Fan Noise

❖ **2007 Kamal Idrisi, Virginia Polytechnic Institute and State University**

Passive Control of Sound Transmission through a Double Panel using Heterogeneous (HG) Blankets, Part II: HG Parametric Studies

❖ **2007 Portia Peters, University of Southern California**

Loss Factors of Honeycomb Sandwich Structures: An Experimental Approach

❖ **2008 Asim Iqbal, Ohio State University**

Effect of Flow on the Acoustic Attenuation Characteristics of Helmholtz Resonators

❖ **2008 Jinghao Liu, University of Kentucky**

A Simplified Two-load Method for Measuring source Impedance

❖ **2008 Brent Rudd, University of Cincinnati**

Evaluation of MRI Compatible Headphones for Active Noise Cancellation

❖ **2008 Taewook Yoo, Purdue University**

Absorption of Finite-sized Microperforated Panels with Finite Flexural stiffness at Normal Incidence

❖ **2009 Philip W. Robinson, Rensselaer Polytechnic Institute, USA**

A Synthesized Aperture Goniometer for Diffusion Coefficient Measurements

❖ **2009 Yoon-Shik Shin, Purdue University, USA**

Inflow Treatment for Small Scale Axial Fans under Unfavorable Inflow Conditions

- ❖ **2009 Jeremy Charbonneau, University of Windsor, CA**

Comparison of loudness calculation procedure results to equal loudness contours

- ❖ **2009 Csaba Huszty, The University of Tokyo, JA**

An algorithm to adjust the clarity of room impulse responses for subjective tests

- ❖ **2009 Matthew Shaw, Brigham Young University, USA**

Acoustical analysis of an indoor test facility for a 30-mm Gatling gun

- ❖ **2010 Joseph Corcoran, Virginia Tech, USA**

Output-only modal testing of simple residential structures and acoustic cavities using the response to simulated sonic booms and ambient excitation

- ❖ **2010 Tyler Dare, Purdue University, USA**

Noise generation in contraction joints in Portland cement concrete

- ❖ **2010 Jie Duan, University of Cincinnati, USA**

A novel delayless frequency domain filtered-x least mean square algorithm for vehicle powertrain noise control

- ❖ **2010 Wenwei Jiang, University of Cincinnati, USA**

Two-substructure, Time-Domain Transfer Path Analysis of Transient Dynamic Response of Mechanical Systems with Nonlinear Coupling

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