



PRESIDENT'S REPORT

The INCE Foundation plays an important role in support of education in noise control engineering and recognition of distinguished leaders in the field. INCE-USA's acknowledgement of achievements encompasses 16 awards and medals.

Annually, the INCE Foundation provides financial support for the INCE-USA awards, averaging \$15,000 each year. In 2019, the INCE Foundation funded 20 INCE-USA cash awards totaling \$18,009 (6 paper, 13 travel, 1 educator awards), 9 Beranek medals to students from six schools, and the Laymon N. Miller Award medallion. A complete list of honors and awards presented by INCE-USA, many with support from the INCE Foundation, is available on the INCE website here: <https://www.inceusa.org/about-ince-usa/honors-and-awards/>.

These awards are made possible through the financial commitment of individuals like you. This year, we were honored to receive a very generous donation from Acentech, the Elizabeth L. and Russell F. Hallberg Foundation, and also large refund from Tamar Nordenberg. Participating in INCE Foundation's work has been a source of great collegial and professional satisfaction to me personally. I also recognize that this all-volunteer effort is an important contribution to the evolution of our profession by fostering quality research and building the professional experience of students studying noise control. We are pleased to be a trustworthy steward for your financial contributions. Your generosity is much appreciated.

PROGRESS ON THE TECHNOLOGY FOR A QUIETER AMERICA PROGRAM

The **Technology for a Quieter America** (TQA) program is a partnership with the National Academy of Engineering (NAE). The program provides a forum for an engaged committee of NAE members and technical experts to address policy and implementation issues in relevant topics in noise. The current work includes a two-part approach exploring noise control engineering education. The first session was held at Noise-Con 2019 in San Diego and will be followed by a workshop on December 12-13, 2019 at the NAE offices in Washington, DC. Summary reports of both programs will be published in 2020. In late 2018 the TQA committee, in partnership with NASA and FAA, convened an NAE workshop with 70 participants from the public and private sectors to address small unmanned aerial systems (drones) and urban air mobility. A summary report of the 2018 workshop will soon be available.



TQA's first major report titled *Technology for a Quieter America* was published by the National Academies Press (NAP) in 2010. It is available at <https://www.nae.edu/27531/Technology-for-a-Quieter-America>. NAE received a grant to study noise policy issues and host a series of ad hoc workshops. Since the relationship was established in 2005, eight follow-on TQA workshops on various topics have been held and reports for each have been prepared. They may be found on the INCE-USA web site <https://www.inceusa.org/publications/technical-reports/>. Reports were written and printed by the Foundation, and approved as public information documents by the Board of Directors of INCE-USA.

CONTRIBUTIONS TO THE INCE FOUNDATION

Tax deductible contributions to the INCE Foundation (a 501(c)(3) organization) may be made by check or in conjunction with annual INCE/USA member renewal. Checks should be made payable to the INCE Foundation and sent to:

Robert D. Hellweg, Treasurer,
13 Pine Tree Road, Wellesley, MA 02482-4711.

All contributions will be gratefully acknowledged.

Individuals or companies contributing \$100 or more to the Foundation may receive one of the following:

- A copy of the National Academy of Engineering report titled "Technology for a Quieter America." The report was prepared by a study committee chaired by George Maling and was published in 2010.
- The booklet *Noise and Vibration Control: Principles and Applications* which was prepared by Stig Ingemansson, and has been made available through the generosity of Ingemansson Technology AB as a tribute to Stig who passed away a few years ago.
- A CD-ROM which contains the technical papers in volumes 1-48 (1973-2000) of *Noise Control Engineering Journal*. Volumes 1-41 have been scanned and converted to PDF files; volumes 42-48 were prepared as PDF files. The CD is being made available by the Foundation as an educational tool.

Recognition levels for donations to the INCE Foundation are:

Benefactor: \$1,000 and up **Patron:** \$500 - \$999

Sponsor: \$250 - \$499 **Donor:** \$100 - \$249 **Friends:** up to \$99

2019 INCE-USA AWARDS FUNDED BY THE INCE FOUNDATION

The INCE-USA Outstanding Educator Award for Excellence (\$2,000) in the Teaching of Noise Control Engineering

The award honors 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. The award is only given once every 4 years.

Professor David Herrin of the University of Kentucky received the award at Noise Con in San Diego in August, 2019.

Dr. Herrin earned his Ph.D. in 2000 from the University of Kentucky and is currently Director of the Vibro-Acoustics Consortium (VAC). As Director of the VAC, David leads a group of three faculty with research

in acoustics and noise control, which includes experimental research and testing in a specialized anechoic chamber facility, computational analysis and model development. Dr. Herrin has brought noise control into the undergraduate curriculum at the University of Kentucky and has taught more than 200 undergraduate students. Dr. Herrin is also actively involved in both SAE and INCE-USA.

One of the judges remarked, *“Dr. Herrin’s research is of high quality and he is productive and well respected in his field. He is an excellent mentor of his graduate students and his students regularly win best paper awards.”*



Hallberg Awards for student conference-travel expenses (\$715)

Supported by generous contributions from The Elizabeth L. and Russell F. Hallberg Foundation facilitated by INCE-USA member Douglas F. Winker.

- **Caoyang Li**, University of Kentucky, “Determination of Isolator Properties and Incorporation into a Simulation Model”
- **Keyu Chen**, University of Kentucky, “Determination of Correlated and Uncorrelated Blocked Forces on an Engine Valve Cover”
- **Zhuang Mo**, Purdue University, “A Review of Theories for Sound Transmission through Infinite Double Panels and Identification of Asymptotic Behavior”
- **Weimin Thor**, Purdue University, “Source identification of a bladeless fan by using SONAH in cylindrical coordinates”
- **Yu Xiong**, Penn State University, “An Analytical Model for Investigating Damping Effects in Beams with Acoustic Black Holes”
- **Brittany Wojciechowski**, Wichita State University, “Acoustic Properties of 3D Printed Bulk Absorbers with Novel Surface Topologies”

Michiko So Finegold Awards for student conference-travel expenses (\$834)

Supported by generous contributions from the Michiko So Finegold Memorial Trust facilitated by INCE-USA member Larry Finegold.

- **Won Hong Choi**, Purdue University, “A Laboratory Procedure for Measuring the Dispersion Characteristics of Loaded Tires”
- **Stephania Vaglica**, Michigan Tech University, “Design and Fabrication of an HVAC Test Stand for Active Noise Cancellation Comparison”
- **Yongjie Zhuang**, Purdue University, “Study on the Cone Programming Reformulation of Active Noise Control Filter Design in the Frequency Domain”
- **Gong Cheng**, University of Kentucky, “Developing Best Practices for Panel Contribution Analysis”
- **Steven Senczyszyn**, Michigan Tech University, “Design and Fabrication of an HVAC Test Stand for Active Noise Cancellation Comparison”
- **Guo Long**, University of Cincinnati, “An Enhanced Delayless Non-uniform Subband Adaptive Algorithm for Broadband Noise Cancellation”
- **Sunit Girdhar**, Michigan Tech University, “Predicting Sound Power Response from a Simply Supported Rectangular Panel for Impact Insulation Class (IIC) Test”



Caoyang Li



Keyu Chen



Zhuang Mo



Won Hong Choi



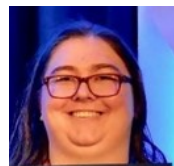
Yongjie Zhuang



Guo Long



Weimin Thor



Brittany Wojciechowski

Yu Xiong
Not pictured



Gong Cheng



Sunit Girdhar

Steven Senczyszyn
Stephania Vaglica
Not pictured

Leo Beranek Student Medals

Supported by the Beranek Family Trust

Pewter Medal (Graduate)

Jay Michael Bliefnick

University of Nebraska

Gong Cheng

University of Kentucky

Sunit Girdhar

Michigan Tech University

Ashish Dev Kotian

University of Texas at Arlington

Max Miller, III

Rensselaer Polytechnic Institute

Kyle Ritchie

Rensselaer Polytechnic Institute

Bronze Medal (Undergraduate)

Joshua Langlois

Michigan Tech University

Samuel Underwood

University of Nebraska

Ethan Wagner

University of Hartford

Laymon N. Miller Excellence in Acoustical Consulting Award Medallion



K. Anthony Hoover, Fellow ASA, Principal Consultant of “McKay Conant Hoover” for “his outstanding career in architectural acoustics and building and environmental noise.”

INCE-USA Classic Papers in Noise Control Engineering Student Presentation Award at NOISE-CON 2019 (\$1,000)



Sean Collier

Pennsylvania State University

“Overview of H. Fletcher and W. A. Munson’s 1933 Paper on ‘Loudness, Its Definition, Measurement, and Calculation.’”

Student Paper at the NOISE-CON 2019 (\$1,000)



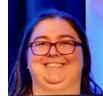
Daniel Carr, Purdue University, “An Investigation of the Contribution of Heaviness to Models of Annoyance for Sonic Booms and Other Impulsive Sounds”



Suraj Prabhu, Michigan Technological University, “COMSOL Model of an Enclosed Coaxial Carbon Nanotube (CNT) Speaker with Perforate Analysis”



Sunit Girdhar, Michigan Technological University, “Predicting Sound Power Response from a Simply Supported Rectangular Panel for Impact Insulation Class (IIC) Test”



Brittany Wojciechowski, Wichita State University, “Acoustic Properties of 3D Printed Bulk Absorbers with Novel Surface Topologies”



Yongjie Zhuang, Purdue University, “Study on the Cone Programming Reformulation of Active Noise Control Filter Design in the Frequency Domain”

The IAC prize for Graduate Student Project Award was not presented this year; unfortunately, there were no applicants or nominations received. At the Noise-Con 2020 in New Orleans, two Hirschorn IAC awards - the Graduate Student Project Award and the Best Paper Award will be given. For information on how to nominate or apply, please contact Ms. Dana M. Lodico, Vice President of Honors and Awards for INCE at vp_awards@inceusa.org.

In Memoriam

William J. (Bill) Cavanaugh



Bill Cavanaugh, President, Director and Fellow of INCE-USA; Director of the INCE Foundation; Acoustical Society of America (ASA) Fellow and 2019 Gold Medal recipient, passed away on July 14, 2019.

Bill had a distinguished career in acoustics beginning with his degree at MIT where he was awarded the American Institute of Architects Student Medal. He joined Bolt Beranek and Newman (BBN) in 1954, and in 1975 co-founded Cavanaugh Tocci Associates with Gregory Tocci. In addition to the ASA 2019 Gold Medal, Bill’s practice, leadership and advancement of Acoustical Consulting was recognized with the Laymon Miller Award 2015, Robert B Newman award 2011, Walter Clement Sabine award 2006, and Paul Boner Medal 1983. Bill was a President of INCE/USA and served on the INCE Foundation Board of Directors. Bill was a Fellow in INCE/USA and ASA and served as president the National Council of Acoustical Consultants. He contributed to the advancement of noise control engineering as a teacher, author, consultant and researcher on acoustical problems in and around buildings and founding partner of the distinguished acoustical consulting firm Cavanaugh Tocci Associates.

Thank you to the following hardworking individuals for their commitment to leading the INCE Foundation Awards Process:

Dana M. Lodico, PE, INCE Bd. Cert. Vice President, Honors and Awards

Andrew R. Barnard, Ph. D., INCE Bd. Cert., CLD Vice President, Student Activities and Education

INCE FOUNDATION ENDOWMENTS

The Martin Hirschorn IAC Prize

*Established in 1999 through an endowment from the
New York Community Trust*

Noise Control Foundation

Established in 2011

Beranek Family Trust

Established in 2012 by Leo Beranek

Michiko So Finegold Memorial Trust

Established in 2013 by Larry Lawrence Finegold

Elizabeth L. and Russell F. Hallberg Foundation

Established in 2014 by Douglas Winkler

William W. Lang Memorial Endowment

Established in 2018 by Robert W. Lang

Acentech Donated \$5,000 to INCE Foundation in recognition of Eric Wood's career and major contributions to INCE/USA



- 40+ Years of Acoustical Consulting:
"Pratt & Whitney"
BBN/Acentech (co-founder)
- INCE/USA, Past President and Board Member
- INCE Foundation President
- INCE Fellow and ASA Fellow

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July 1, 2018 - October 31, 2019

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Francis Kirschner George and Norah Maling Tamar Nordenberg	Joseph M. Cuschieri Felicia Doggett Egons Dunens	Arno S. Bommer David Braslau Darren Brown
Children of Lewis Goodfriend <i>Karen Chafee</i> <i>Henry Goodfriend</i> <i>Anne Orberg</i> <i>Jane Strandberg</i>	E. Curtis Eichelberger James Farquharson Anthony G. Galaitis William D. Gallagher Philip Gliebe Mardi Hastings Amanda L. Kachur Frank Kuhn	Robert D. Bruce Courtney Burroughs M. Kathryn Christensen Connor Cook Lawrence G. Copley Mike G. Greene Stephen A. Hambric David Healy
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Supporting education in noise control engineering IRS Tax ID# 14-1761628