

Engineering a Quieter America: Progress on Consumer and Industrial Product Noise Reduction

A TQA workshop and International INCE symposium

sponsored by

The INCE Foundation and the Noise Control Foundation

organized by

The INCE Foundation

hosted by

The National Academy of Engineering, Washington, DC

Tamar Nordenberg, Rapporteur

Adnan Akay, Robert D. Hellweg, William W. Lang,
George C. Maling, Jr. and Eric W. Wood, Editors

The logo for the Institute of Noise Control Engineering of the USA (INCE). It consists of the letters 'INCE' in a bold, stylized, outlined font. The letters are white with a thick black outline, and they are set against a light blue background.

Institute of Noise Control Engineering of the USA

This report has been approved by the Board of Directors of INCE/USA for publication as a public information document. The content, opinions, findings, conclusions, and recommendations expressed in the report do not purport to present the views of INCE/USA, its members, or its staff.

Generous support for this project was provided by the International Institute of Noise Control Engineering, the INCE Foundation, and the Noise Control Foundation

Copyright © 2016, Institute of Noise Control Engineering of the USA, Inc.

All rights reserved

ISBN: 978-0-9899431-3-0

Library of Congress Control Number: 2016939856

Printed in the United States of America

This report is posted on the INCE/USA website, www.inceusa.org

INSTITUTES OF NOISE CONTROL ENGINEERING

4.1 INTERNATIONAL INSTITUTE OF NOISE CONTROL ENGINEERING

Rajendra Singh - *The Ohio State University and I-INCE Vice President of Technical Activities*

The International Institute of Noise Control Engineering (I-INCE) was founded in 1974. It is a worldwide consortium of over 40 organizations concerned with noise control, acoustics, and vibration. The primary focus of the Institute <http://i-ince.org/index.php> is on unwanted sounds and vibrations producing such sounds when transduced. I-INCE is the sponsor of the INTER-NOISE series of International Congresses on Noise Control Engineering held annually in leading cities of the world. For instance, the next two congresses will be held in Hamburg, Germany (INTER-NOISE 2016 <http://www.internoise2016.org/>) and Hong Kong (INTER-NOISE 2017 <http://www.internoise2017.org/>). I-INCE also co-sponsors symposia on specialized topics within the I-INCE field of interest. The quarterly magazine *Noise/News International* (NNI) is jointly published by I-INCE and the Institute of Noise Control Engineering of the USA (INCE/USA).

An overview of technical activities is given below and some elements are explained later. Also, *Noise/News International* published an editorial by the I-INCE Vice President of Technical Activities (Rajendra Singh) entitled “Expanding Horizons of I-INCE Technical Activities” in its 2012 June issue; the article is on page 47. Please go to <http://i-ince.org/activities.php> for more details.

<i>Activity</i>	<i>Summary</i>
Overview of Technical Study Groups (TSG)	Each group studies one important aspect of noise and its effect on society, and then issues a formal I-INCE report
Future Congress Technical Planners Meeting (FCTP)	Plan the technical programs of next congresses and offer advice on other aspects via meetings held at congress
Young Professionals Grant Program	Offers 12 to 18 travel grants (600 Euro per recipient) to young professionals to attend the next INTER-NOISE Congress
Young Professionals Workshop	A mentorship session for young professionals and students held at INTER-NOISE Congress
I-INCE Annually Sponsored Symposia	Symposia on Noise sponsored by I-INCE
Miscellaneous	<ol style="list-style-type: none"> 1. I-INCE report on noise control engineering education (based on the books on prior education workshops). 2. I-INCE Website and Information Dissemination

I-INCE instituted a program to undertake technical initiatives on critically important issues of international concern within the I-INCE field of interest. This initiative has resulted in several reports and a number of Technical Study Groups. Each group studies one important aspect of noise and its effect on society, and then issues a formal I-INCE report. Recent reports include the following: Lawrence S. Finegold, Guidelines for Community Noise Impact Assessment and Mitigation, I-INCE publication no. 11-1, 2011; Philip J. Dickinson, Outdoor Recreational Noise, Volume 1: A Review of Noise in National Parks and Motor Sport Activities, I-INCE publication no. 12-1, 2012; Andre Fiebig and Paul Schomer, Supplemental Metrics for Day/Night Average Sound Level and Day/Evening/Night Average Sound Level, I-INCE publication no. 2015-1, 2015. Links to the above reports and more can be found at: <http://i-ince.org/activities.php>.

The Future Congress Technical Planners (FCTP) offer advice on technical program aspects of a congress including the maximum number of parallel sessions, the type of structured sessions, and plans for plenary or keynote and poster sessions. The FCTP may recommend new concepts for future INTER-NOISE Congresses. The concepts may involve items that are specific to a particular congress and which depend upon local circumstances and local ideas. The FCTP holds two meetings at the INTER-NOISE Congress, a Pre-FCTP meeting on Sunday and the full FCTP meeting on Wednesday. The Pre-FCTP meeting is an informal meeting wherein the minutes of the previous FCTP meeting are discussed. The full FCTP meeting discusses the technical plan for the next two congresses and the experience of the congress that has just ended.

In 2010, I-INCE initiated a grant program for noise control engineering students and young professionals who are within the first 10 years of their careers. The goals of the grant are to expose students and young acousticians to senior professionals, give them experience in public presentation and paper writing, and assist them in developing networking abilities. In the beginning, I-INCE allocated 12 to 18 grants, with 500 Euros per recipient, to pay for conference registration and some travel expenses. This grant enabled these young professionals and students to attend the INTER-NOISE Congress and network with senior engineers. The Board approved an increase in the grant from 500 EUR to 600 EUR from 2014 (and at least 15 grants per year). Over a seven-year period since 2010, I-INCE has awarded 104 I-INCE grants; successful candidates have come from 34 countries of origin (and 30 countries of work). I-INCE has allocated 10,000 EUR each (9000 EUR for at least 15 grants and 1000 EUR for the Young Professionals Workshop) for INTER-NOISE 2016 and INTER-NOISE 2017. This would bring the total allocation of funds by I-INCE to 72,500 EUR over eight years. *Noise/News International* published a feature article by the Vice President of Technical Activities (Rajendra Singh) entitled "I-INCE Young Professionals Program Offers Grants, Advice and Opportunity" in its 2012 September issue. For more details, go to http://i-ince.org/travel_grants.php.

To meet the expanding needs of the noise control engineering field, I-INCE has also established a Symposium series. Finally, I-INCE is assuming a leadership role in formulating global noise policies; this includes an ongoing collaboration with CAETS (International Council of Academies of Engineering and Technological Sciences). For further details, go to <http://i-ince.org/>.