

**SPECIAL STUDENT SESSION  
PRESENTATIONS OF CLASSIC PAPERS IN NOISE CONTROL**

At the upcoming Noise-Con conference, INCE-USA is sponsoring a special session of student presentations of classic papers in noise control. A paper is NOT required but an abstract should be submitted. The application deadline is the same as the conference abstract submission deadline. The winner will receive \$1000 if she or he attends the NoiseCon Awards Ceremony usually on Tuesday or Wednesday morning of the conference. See page 4 of this document for the Contest Rules.

**COMPETITION ENTRY FORM**

Name(s) of contestant (presenter) – Only this person’s name should be on the Abstract Submission and the Presentation.

Address, email, and telephone number of contestant to which all correspondence should be directed:

Identifier and title of paper that you have chosen to present (must be chosen from list on pages 2-3)

Title of abstract: FORMAT should be: Overview of <original author list>'s <year> paper on <original paper title>

Number assigned when you submitted the abstract: NC20 \_\_\_\_\_

**CERTIFICATIONS**

I, the presenter of the overview of the work in the classic paper in noise control paper listed above, certify that I prepared the presentation myself. I am/I have submitted an application to be a student member of INCE-USA or an I-INCE Affiliated Organization. Please specify organization \_\_\_\_\_ and the organization email \_\_\_\_\_.

I have read the rules of the competition (page 4 of this document) and agree to abide by them.

\_\_\_\_\_  
(Signature and Date)

I, the faculty advisor to the above-named student(s), certify that the student prepared the presentation themselves and that I have only provided feedback to help the student improve the presentation. I also certify that this student is a full time student at \_\_\_\_\_ University.

\_\_\_\_\_  
DATE \_\_\_\_\_ NAME (PRINT) \_\_\_\_\_  
(Signature and Date)

ADVISOR’S EMAIL \_\_\_\_\_

**Complete CHECK-OFF LIST in Rules (page 4)**

**Submit abstract electronically** as part of the regular conference abstract submission procedure. Choose the special session for *Presentations of Classic Papers in Noise Control*.

**Material to be mailed to Patricia Davies ([daviesp@purdue.edu](mailto:daviesp@purdue.edu)) by conference abstract deadline (currently January 6<sup>th</sup>, 2020).**

Page 1. Competition Entry Form (this form, just this page), and Page 2. A Copy of Submitted Abstract

Include your name and abstract submission number in the names of the file:

e.g., Brown\_2150\_Classic\_EntryForm\_and\_Abstract.pdf WORD or .pdf format is acceptable.

Include NC20 Classic Papers in Noise Control in the subject line of your email.

**PRESENTATIONS OF CLASSIC PAPERS IN NOISE CONTROL SESSION – PAPER LIST**

You must select one of the following papers for your presentation. There may be multiple presentations of the same paper. This is a special list of papers from three well-known noise and vibration control engineers who have recently died, and the session this year is, in part, to honor their contributions to the field and to INCE-USA.

1. Lyon, R.H. and Maidanik, G., “Power Flow between Linearly Coupled Oscillators.” *J. Acoust. Soc. of Am.*, Vol. 34(5), pp. 623–639, 1962.
2. Lyon, R. H. “Noise reduction of rectangular enclosures with one flexible wall.” *J. Acoust. Soc. of Am.*, **35(11)**, 1791-1797, 1963.
3. Lyon, R.H. “Analysis of sound-structure interaction by theory and experiment.” *Proceedings of Noise-Con71*, West Lafayette, Indiana, USA, pp.182-192, 1971.
4. Lyon, R. H., “Vibration transmission in machine structures.” *Noise Control Engineering Journal*, **103(12)**, pp. 92-103, 1983.
5. Bowen, D. L. and Lyon, R.H. “Mapping perceptual attributes of sound to product design choices.” *Noise Control Engineering Journal*, **51(4)**, pp. 271-279, 2003.
6. Ver, I. L., “Measurement of dynamic stiffness and loss factor of elastic mounts as a function of frequency and static load.” *Noise Control Engineering*, **3(3)**, pp. 37-42, 1974.
7. Ver, I.L. “A review of the attenuation of sound in straight lined and unlined ductwork of rectangular cross section”. *ASHRAE Transactions*, **84(1)**, pp.122-149, 1978.
8. Ver, I.L. “Prediction of sound transmission through duct walls: breakout and pickup, ASHRAE Paper 2851 (RP-319), ASHRAE Transactions, **90(2)**, pp.391-413, 1984.
9. Ver, I. L. “Practical examples of noise and vibration control: case history of consulting projects.” *Noise Control Engineering Journal*, **35(3)**, pp. 115-125, 1990.
10. Ver, I.L. “Using Reciprocity and Superposition as a Diagnostic and Design Tool in Noise Control.”, *Acustica, Acta Acustica*, **82**, pp. 62-69, 1996.
11. Prasad, M.G. “Acoustical studies on louver-type orifices.” *Proceedings of Noise-Con83*, Massachusetts Institute of Technology, Cambridge, USA, Massachusetts, pp.51-58, 1983.
12. Prasad, M.G. “A four load method for evaluation of acoustical source impedance in a duct.” *Journal of Sound and Vibration*, **114(2)**, pp. 347-356, 1987.
13. Prasad, M.G. “Flow through corrugated tubing as an acoustic source.” *Proceedings of Noise-Con93*, Williamsburg, Virginia, USA, pp. 626-630, 1993.
14. Challa, V.R., Prasad, M.G., Shi, Y., and Fisher, F.T. “A vibration energy harvesting device with bidirectional resonance frequency tenability.” *Smart Materials and Structures*, **17**, 015035 (10pages), 2008.
15. Rajavel, B. and Prasad, M.G., “Parametric studies on acoustics of corrugated tubes using large eddy simulation (LES),” *Noise Control Engineering Journal*, **62 (4)**, pp. 218-231, 2014.

Noise-Con 2020, New Orleans, Louisiana, USA, June 29 – July 1, 2020

## PRESENTATION OF CLASSIC PAPERS IN NOISE CONTROL CONTEST RULES

**PAPER OVERVIEW BEING PRESENTED.** The paper being presented must be selected from the list provided in this entry form. Once the abstract has been submitted, the student must stick with a presentation of that paper, and not switch to another paper on the list.

**AUTHORSHIP OF PRESENTATION.** The presentation must be compiled by and presented by the student. The student must be **registered as student at a university or college at the time of the conference.**

**CONNECTION WITH I-INCE.** The student must be a student member of an I-INCE Affiliated organization, e.g., INCE-USA. <http://i-ince.org/membership.php#members>

**PRESENTATION AND ABSTRACT TITLE:** Format for the title of paper should be: "Overview of <original author list>'s <year> paper on <original paper title>"

**ABSTRACT:** This should highlight the main thrust of the original paper and the focus of the presentation, which could include additional work that has been done by the student presenter. Additional work could include reproduction of the results in the paper, additional analysis, or showing how the original paper has influenced subsequent research or noise control practice, etc.

**DEADLINE.** An abstract for the presentation must be submitted by **the conference abstract submission deadline (currently 6 January, 2020).** If the deadline is extended, then the new date will be used as the deadline for submission of your entry.

**SOCIETY MEMBERSHIP.** If the student is not a student member of an I-INCE affiliated organization, student member application forms and payments, if any, must be received by the I-INCE Affiliated Organization by the **abstract deadline. A Competition Entry Form (page 1 of this document) is required for the presentation to be considered for the session and in the competition.**

**JUDGES.** All decisions of the I-INCE and INCE/USA judges are final. The Institute reserves the right not to make an award should presentations not satisfy minimum levels of expectations by the panel of judges.

**JUDGING CRITERIA.** Judges will evaluate the presentations by considering:

- i. The judges' perceptions of the student's understanding of the technical content of the classic paper.
- ii. The student's understanding of the impact of the research reported in the paper.
- iii. The quality of the communication of the technical content of the classic paper.
- iv. The quality of the slides.
- v. The clarity and presentation style of the speaker.
- vi. The quality of any additional analysis performed.

**AWARDS CEREMONY.** All contest entrants must present their papers in person in the session to which their papers are assigned. They must also be present in person at the awards ceremony of the conference (expected to be Tuesday or Wednesday morning of the Conference, but check the final Conference Schedule) to receive prize.

### CHECK-OFF LIST.

**Submission of the abstract electronically** as part of the regular conference abstract submission procedures:

- Abstract Submitted in the Session: “**PRESENTATIONS OF CLASSIC PAPERS IN NOISE CONTROL**”
- Note Abstract Number Assigned on submission on form (page 1 of this document): NC20\_####
- Note title and identifier (in list on pages 2 and 3 ) of selected paper on form (page 1 of this document)
- Complete rest of form (page 1) including the signature of advisor.

**Material to be mailed to Patricia Davies ([daviesp@purdue.edu](mailto:daviesp@purdue.edu)) by conference abstract deadline. combined into 1 file.**

- PAGE 1: Competition Entry Form ( 1<sup>st</sup> page of this document) &  PAGE 2: Copy of Submitted Abstract