

CLASSIC PAPERS IN NOISE CONTROL ENGINEERING SESSION --- PAPER LIST

You must select one of the following papers for your presentation. One presentation of each paper will be scheduled. The first person to submit an entry form identifying a particular paper will be the one to present that paper. Additional papers may be added to the list.

Sound Perception:

Fletcher and Munson, "Loudness, Its Definition, Measurement and Calculation," J. Acoust. Soc. of Am., Vol. 5(2), pp. 81-108, 1933.

Aircraft Noise – Noise Criteria:

Beranek, L.L., "Airplane Quieting II - Specification of Acceptable Noise Levels," Trans. Am. Soc. Mech. Eng., Vol. 69, pp. 97-100, 1947.

Building Noise:

Beranek, L.L., "Revised criteria for noise in buildings," Noise Control, Vol. 3, pp. 19-27, 1957.

Active noise control:

Olson, H.F. and May, E.G., "Electronic Sound Absorber," J. Acoust. Soc. Am., Vol. 25(6), pp. 1130-1136, 1953.

Room Acoustics:

Hunt, F.V., Beranek, L.L. and Maa, D.Y., "Analysis of Sound Decay in Rectangular Rooms," J. Acoust. Soc. Am., Vol. 11, 1939.

Passive Noise Control:

Maa, D.Y., "Microperforated-panel wideband absorbers", Noise Control Engineering Journal, Vol. 29(3), pp. 77-84, 1984.

Modeling Techniques:

Lyon, R.H. and Maidanik, G., "Power Flow Between Linearly Coupled Oscillators", J. of the Acoust. Soc. Am., Vol. 34, pp. 623-639, 1962.

Sound Propagation – Aircraft Noise:

Delany, M.E. and Bazley, E.N. "A note on the effect of ground absorption in the measurement of aircraft noise," J. Sound and Vib., Vol. 16(3), 315-322, 1971.

Outdoor Sound Propagation:

Embleton, T. F. W., Piercy, J. E. and Olson N., "Outdoor sound propagation over ground of finite impedance," J. Acoust. Soc. Am., Vol. 59(2), pp. 267-277, 1976.

Acoustics Materials Modeling:

Biot, M.A., "Theory of propagation of elastic waves in a fluid-saturated porous solid 1. Low-frequency range," J. Acoust. Soc. Am., Vol. 28 (2), pp. 168-178, 1956.

Measurement of Acoustical Properties of Materials:

Sabine, P.E., "A Critical Study of the Precision of Measurement of Absorption Coefficients by Reverberation Methods," J. Acoust. Soc. Am., Vol. 3, 1931.

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CLASSIC PAPERS IN NOISE CONTROL ENGINEERING PRESENTATION COMPETITION 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.

PAPER, 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 AND PAPER: 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 and a paper for the presentation must be submitted no later than **28 March, 2015** and **22 May, 2015**, respectively. 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 28 March 2015. Note that there is no cost to register as an INCE/USA Student Associate. **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 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 seminal paper.
- iv. The quality of the slides.
- v. The clarity and presentation style of the speaker

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 INCE/USA award ceremony (Wednesday morning of the conference) to receive the prize check of \$1000 USD.

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