

NOISE-CON 2023, Grand Rapids, MI

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. Additional papers may be added to the list. If there is a Classic Paper that you feel should be added to the list, please write vp_education@inceusa.org.

1. Perception and Effects of Noise

(1.a) Fletcher, H. and Munson, W.A., “Loudness, Its Definition, Measurement and Calculation,” *J. Acoust. Soc. of Am.*, Vol. 5(2), pp. 81-108, 1933.

(1.b) Stevens, S.S., “The Measurement of Loudness,” *J. Acoust. Soc. of Am*, Vol. 27(5), pp.815-829.

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

(1.d) Kryter K.D., Ward, W.D., Miller J.D., Eldredge D. H., “Hazardous Exposure to Intermittent and Steady-State Noise,” *J. Acoust. Soc. Am.*, Vol. 39, pp. 451-464, 1965.

(1.e) Coles R.R.A., Garinther G.R., Hodge D.C., Rice C.G., “Hazardous Exposure to Impulse Noise,” *J. Acoust. Soc. Am.*, Vol. 43(2) 336-334 1967.

(1.f) Henderson D., and Hamernik, R.P., “Impulse noise: Critical review,” *J. Acoust. Soc. Am*. Vol 80, 569-584, 1986. doi: 10.1121/1.394052

(1.g) Hamernik R.P., Qiu W., and Davis B., “The effects of the amplitude distribution of equal energy exposures on noise-induced hearing loss: The kurtosis metric” *J. Acoust. Soc. Am*. Vol 114, 386-395 (2003); doi: 10.1121/1.1582446

2. Building Noise and Room Acoustics:

(2.a) Beranek, Leo L., "Revised Criteria for Noise in Buildings," *Noise Control*, Vol. 3, pp. 19-27, 1957.

(2.b) Hunt, F.V., Beranek, L.L. and Maa, D.Y., "Analysis of Sound Decay in Rectangular Rooms," *J. Acoust. Soc. Am*. Vol. 11, pp. 80-94, 1939.

(2.c) Beranek, L.L. "The Forty-Fifth Thomas Hawksley Lecture: The Transmission and Radiation of Acoustic Waves by Structures," *Proceedings of the Institution of Mechanical Engineers*, Vol. 173(1), pp.12-35, 1959.

(2.d) Sharp, B.H., “Prediction Methods for Sound-Transmission of Building Elements,” *Noise Control Engineering Journal*, Vol. 11(2), pp. 55-63, 1978.

3. Active Noise Control:

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

(3.b) Ffowcs Williams, J.E., “Anti-Sound,” *Proceedings of the Royal Society of London Series A – Mathematical and Physical Sciences* Vol. 395, pp.63-88, 1984.

(3.c) Elliott, S.J. and Nelson, P.A., “Active Noise Control,” *IEEE Signal Processing Magazine*, Vol. 10, pp. 12-35, October 1993.

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4. Passive Noise Control, and Acoustic Materials:

(4.a) Maa, D.Y., "Microperforated-Panel Wideband Absorbers", *Noise Control Engineering Journal*, Vol. 29(3), pp. 77-84, 1984.

(4.b) 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.

(4.c) Sabine, P.E., "A Critical Study of the Precision of Measurement of Absorption Coefficients by Reverberation Methods," *J. Acoust. Soc. Am.* Vol. 3, pp. 139-154, 1931.

5. Modeling of Sound Generation:

(5.a) Heckl, M., "Tyre Noise Generation," *Wear*, Vol. 113(1), pp.157-170, Dec 1 1986.

(5.b) Lighthill, M.J., and Newman, M.H.A., "On Sound Generated Aerodynamically. 1. General Theory," *Proceedings of the Royal Society of London Series A – Mathematical and Physical Sciences*, Vol. 211, pp.564-587, 1952.

(5.c) Sharland, I.J., "Sources of Noise in Axial Flow Fans," *Journal of Sound and Vibration*, Vol. 1(3), pp.302-322, 1964.

(5.d) Ffowcs Williams, J. E. and Hawkings, D. L., "Sound generation by turbulence and surfaces in arbitrary motion," *Philosophical Transactions of the Royal Society of London. Series A, Mathematical and Physical Sciences*, Vol. 264, pp. 321-342, 1969.

6. Modeling Techniques:

(6.a) Lyon, R.H. and Maidanik, G., "Power Flow between Linearly Coupled Oscillators", *J. Acoust. Soc. of Am.*, Vol. 34(5), pp. 623-639, 1962.

(6.b) Crocker, M.J. and Price, A.J., "Sound transmission using Statistical Energy Analysis.," *J. Acoust. Soc. of Am.*, Vol. 9 (3), pp. 469-486 , 1969.

(6.c) Schenck, H.A., "Improved Integral Formulation for Acoustic Radiation Problems," *J. Acoust. Soc. of Am.*, Vol. 44(1), pp. 41-58, 1968.

(6.d) Sung, S.H. and Nefske, D.J. "A Coupled Structural-Acoustic Finite Element Model for Vehicle Interior Noise Analysis" *Journal of Vibration, Acoustics, Stress and Reliability in Design*, Vol. 106(2), pp. 314-318, April 1984.

(6.e) Manning, J. E. and Maidanik, "Radiation Properties of Cylindrical Shells," *J. Acoust. Soc. of Am.*, Vol. 36(9), pp. 1691-1698, 1964.

(6.f) Manning, J. E., "Formulation of SEA Parameters using Mobility Functions," *Philosophical Transactions of the Royal Society of London. Series A: Physical and Engineering Sciences*, Vol. 346, pp. 477-488, 1994.

(6.g) Remington, P. J. and Manning, J. E., "Comparison of Statistical Energy Analysis Power Flow Predictions with an "Exact" Calculation," *J. Acoust. Soc. of Am.*, Vol. 57(2), pp. 374-379, 1975.

7. Sound Propagation

(7.a) Parkin, P.H. and Scholes, W.E., "Horizontal Propagation of Sound from a Jet Engine Close to the Ground at Hatfield," *J. Sound and Vib.*, Vol. 2(4), pp. 353-374, 1965.

(7.b) 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.