COUGHING IN FORMAL SOCIAL SETTINGS

Research about social constraints on coughing

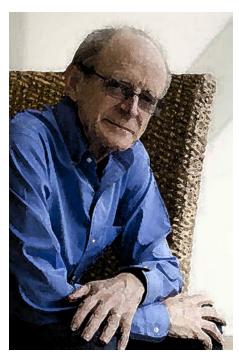
compiled by Stephen Drew, Improbable Research staff

The Economics of Coughing in Concert Halls

"Why Do People (Not) Cough in Concerts?: The Economics of Concert Etiquette," Andreas Wagener, Association for Cultural Economics International, Working Paper Series, 2012. The author, at the Institute of Social Policy at Leibniz Universität, Hannover, Germany, explains:

Concert etiquette demands that audiences of classical concerts avoid inept noises such as coughs. Yet, coughing in concerts occurs more frequently than elsewhere, implying a widespread and intentional breach of concert etiquette....

The likelihood that an individual will cough during a five-minute interval then is $1 - \exp(-0.05555) = 0.05404$, and the probability that nobody in an audience of N people will cough during a five-minute interval equals $(1 - 0.05404)^N$. For a small concert hall with N=200 people (the Golden Hall in Vienna's Musikverein or New York's Carnegie Hall seat well above 2,000 people), this amounts to 0.0015 percent, making the undisturbed performance even of a short piece of music extremely unlikely.



James W. Pennebaker, author of the study "Perceptual and Environmental Determinants of Coughing." Drawing by Nan Swift, Improbable Research staff.

They Studied Coughing in Classrooms

"Perceptual and Environmental Determinants of Coughing," James W. Pennebaker, *Basic and Applied Social Psychology*, vol. 1, no. 1, 1980, pp. 83-91. The author, at the University of Texas at Austin, reports:

> Several studies were conducted on coughing behavior in naturalistic classroom settings. The major findings include: (1) the larger the group, the more coughs per person;. (2) people are more likely to cough if they hear others cough; (3) the closer a person is to a cougher, the greater the probability that they will also emit a cough; (4) coughing varies as a function of external stimulus demands (i.e., when subjects viewed a movie that had previously been rated for its interest value every 30 seconds, subjects were more likely to cough during the uninteresting portions); and (5) high instructor evaluations were related to fewer coughs during lectures.



Andreas Wagener, author of the study "Why Do People (Not) Cough in Concerts?: The Economics of Concert Etiquette." Drawing by Nan Swift, Improbable Research staff.