

***Eighth E. Leonard Arnoﬀ Memorial Lecture
on the Practice of Management Science***

“Aviation Safety in Numbers”

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<http://sloancf.mit.edu/vpf/facstaff.cfm?ID=5&ProfType=F&sortorder=name>

7:30 P.M., Thursday, May 6, 1999

We consider the mortality risk of commercial air travel from a multiplicity of perspectives: the objective death risk in different settings, misconceptions of various kinds about observed risk patterns, public perceptions about safety and their effects on actual flying behavior, and, not least, the primary threats to future air safety.

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Arnold I. Barnett is the George Eastman Professor of Management Science, Sloan School of Management, Massachusetts Institute of Technology. Professor Barnett has a B.A. (Physics) from Columbia College in 1969 and a Ph.D. (Applied Mathematics) from MIT in 1973. He has been a member of the MIT faculty since 1975 and received tenure in 1982. Dr. Barnett has been a consultant to more than three dozen public and private organizations, including ten airlines, three airports, and several firms working under contract with the FAA. He has received several FAA grants and/or contracts; been the leader of a technical team for the Gore Commission/FAA investigation about Positive Passenger Bag Match as an antiterrorist measure; and worked for the Centers for Disease Control, Educational Testing Service, U.S. Department of Justice, U.S. General Accounting Office, and eight law firms.

Professor Barnett teaches numerous courses in Probability/Statistics, including Logistics and Transportation Planning and Mathematical Models and Policy Analysis. Selected five times (1977, 1982, 1986, 1991 & 1995) as the Sloan School's recipient of the MIT Graduate Student Council's Effective Teaching Award, he was also honored for outstanding teaching in 1992, 1997 & 1998. Dr. Barnett was one of eight US faculty honored in the 1982 Fortune article "B-School Students' Favorite Professors" and was designated the most "outstanding" Sloan School faculty member by ***Business Week*** after a 1992 poll of recent graduates.

Dr. Barnett's research involves applied probabilistic and statistical modeling on issues of policy importance, including two decades of study about the safety and efficiency of air travel. The author or co-author of nearly 100 published articles, his early work on homicide risk was presented to President Ford at the White House and his 1992 article about the Vietnam War casualty patterns was the subject of intense attention including a column by William F. Buckley. Professor Barnett's research papers about aviation safety have been extensively summarized in, among others, ***The New York Times***, ***The Wall Street Journal***, ***Scientific American***, ***The Economist***, and ***Fortune***. Dr. Barnett was recipient of the 1996 President's Award from the Institute for Operations Research and the Management Sciences for "outstanding contributions to the betterment of the society." In August, 1997, he was described by NBC News as "the nation's leading expert" about the safety of air travel.

“8th E. Leonard Arnoﬀ Lecture”

***Portfolio, Universtiy of Cincinnati, College of Business
Administration, Volume 16, p. 7, Spring, 2000.***

With all those operations researchers in town for the Institute of Operations Research and the Management Sciences (INFORMS) National Conference, May 6, 1999, was the perfect time to hold the Eight E. Leonard Arnoff Memorial Lecture on the Practice of Management Science. The keynote speaker was Dr. Arnold I. Barnett, the George Eastman Professor of Management Science at MIT's Sloan School of Management. His research involves applied probabilistic and statistical modeling on issues of policy importance, including two decades of study about the safety and efficiency of air travel. The topic of his presentations was "***Aviation Safety in Numbers***". Known as th4e nation's leading expert about the safety of air travel, Barnett was recipient of the 1997 President's Award from the Institute of Operations Research and the Management Sciences for his "outstanding contributions to the betterment of the society."

Among those in attendance were Susan Arnoff Spohr (MBA '86) and Ann Arnoff, the daughter and wife of Len Arnoff, who served as dean of CBA from 1983-88, and in whose memory the Lecture Series is dedicated.

Program

Welcome & Introduction David F. Rogers, Associate Professor of QAOM

Cincinnati INFORMS 1999 Presentations:

University of Cincinnati: Jeffrey D. Camm, Michael Magazine, Dennis J. Sweeney, W. David Kelton, Ali A. Houshmand, Amitabh Raturi, N.S. "Uma" Umanath, James R. Evans, Ram Ganeshan, Min Li, and Karen G. Camm

Procter & Gamble: Glenn W. Wegryn, Franz Dill, and Lisa P. Rogers

Miami University: James J. Cochran

Wright State University: George G. Polak and Joseph W. Coleman

Ohio State University: Erik Rolland

Air Force Institute of Technology: Richard F. Deckro, Jack M. Kloeber, Jr., and Yupo Chan

University of Dayton: Charles E. Wells

Speaker Introduction Michael Magazine, Ohio Eminent Scholar of QAOM

Eighth Arnoff Lecture Arnold I. Barnett, MIT

Speaker Presentation Jeffrey D. Camm, Professor & QAOM Dept. Head

Closing Remarks David F. Rogers, Associate Professor of QAOM

Reception