

JOHN C. FREYTAG, P.E., FREYTAG & ASSOCIATES, LLC

Experience

Freytag & Assoc., LLC, 2009-Present
HMMH, 2007-2009
C.M. Salter & Associates, 1986-2007
Bechtel Group, 1976-1986

Education

M.S., Engineering, Stanford University,
Palo Alto, CA, 1976
B.S.M.E., Arizona State University,
Tempe, AZ, 1972
Graduate Business Studies, Golden
Gate University, San Francisco, CA,
1980

Affiliations

Registered Professional Engineer, CA
Board Certified Member, Institute of
Noise Control Engineering, 1989-
present
Executive Member, Airport Consultants
Council, 1998-2007
American Institute of Architects, Affiliate
Member, 1988-2009
Editorial Advisory Board Member,
Airport Noise Report, 1999-2007
Senior Member, American Institute of
Aeronautics and Astronautics, 1995-
2009
Transportation Research Board,
Aviation Noise Subcommittee, 1994-
present
Member, Acoustical Society of America,
1985-present
Member, American Institute of Physics,
1985-present
American National Standards Institute
(ANSI), Standards Committee: Draft
ANSI S12.62, "Acoustics – Estimation of
outdoor sound propagation by
calculation". 2003-2009

Jack Freytag founded Freytag & Associates, LLC to provide expert consulting services in specific areas of acoustics using affiliated experts throughout the U.S. Until 2009 he also managed the southern California office of Harris Miller Miller & Hanson, the foremost transportation acoustics company in the U.S. For HMMH he was responsible for sound insulation projects for Los Angeles International Airport and supports other ongoing sound insulation projects in southern California and around the country.

Mr. Freytag has over 25 years of experience as an acoustical consultant and noise expert. His background includes expert witness in both state and federal courts, management of more than 40 FAA-sponsored sound insulation projects, management of environmental and community noise assessments, aero-acoustic research for NASA, management of several hundred architectural acoustics design projects, engineering of large industrial facilities, digital signal processing, and project management and engineering management of high technology business ventures. He has been a licensed pilot since 1966.

As a Director at Charles M. Salter Associates, Inc. for 20 years, he has served as expert witness, and was program manager responsible for business development and project management for acoustical consulting projects in aviation. He managed noise studies for civil and military airport clients, cities and counties, noise-impacted residents, land use litigation cases, and crash hazard potential studies. He also acquired and managed the Audio Forensic Center, a wholly-owned subsidiary company specializing in denoising (for dialog recovery), gunshot analyses and authentication of audio and video recordings. He has been an expert witness on cases involving gunfire, audio recordings, environmental noise, and audibility. He has also been the acoustical expert for three Discovery Channel programs.

From 1976 to 1986 Mr. Freytag held a variety of positions at The Bechtel Group as noise control engineer, venture capital analyst, manager of a 62-member CAD organization, project engineer for a large synthetic fuel project in New Zealand, and executive assistant to the vice-president of Bechtel's 3,600-member petroleum division.

From 1974 to 1976 Mr. Freytag conducted experimental and theoretical aero-acoustics research at NASA-Ames Research Center for his graduate research work at Stanford University.

Litigation Support and Expert Testimony

- National Science Foundation, ongoing research for determining optimum measurement of residential noise insulation. This is a follow-up to my previous related NSF research project.
- Kelly Frye hearing, testimony for the prosecution in case involving scientific acceptance of ShotSpotter gunshot location system, 2014.
- Simulation and audibility assessment of witnesses hearing fatal shooting incident, Federal Public Defender (case confidential), 2014.
- Simulation and investigation of fatal police shooting in Union City, GA, for County homicide and internal affairs departments, 2012.

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- People v. Cunningham, gunfire simulation and testimony in murder case involving audibility of gunshot, Visalia, CA.
- People v. Reynoso, investigation of authenticity of audio tape recording by FBI of a witness incarcerated out of state.
- Los Altos Rod and Gun Club, ongoing case involving noise complaints for neighbors, 2012-2014.
- U.S. v. Tamer Ibrahim, investigation of federal wiretap recordings in international drug smuggling case, .
- Minneapolis et. al. v Metropolitan Airports Commission, aircraft noise surveys and assessment leading to \$128M settlement for clients (the largest noise settlement in history), 2007.
- People v. (confidential), investigation of which weapon fired first for the defendant in a death penalty case.
- City of Alameda et al v. Oakland International Airport, expert challenging the validity of Environmental Impact Report for Airport expansion. Cited and supported by California Supreme Court.
- Polaris Amphitheater Concerts, Inc. v. City of Westerville drafted and testified for the complainant supporting a noise ordinance against amphitheater noise in federal court (1995-1999).

Television Programs

Client Quote or Project Highlight

Regarding the Discovery Channel 'Death of Diana' audio simulation of the crash in the Paris tunnel:

"I expected this to work well, but not this well."

- Discovery Channel, Unsolved History:
 - "The Boston Massacre" (2001)
 - "Death of Princess Diana" (2003)
 - "JFK – Beyond the Magic Bullet" (2005)

Representative Publications and Presentations

- J. C. Freytag, D. R. Begault and C. A. Peltier, *The Acoustics of Gunfire*, INTER-NOISE 2006, Honolulu, HI.
- J. C. Freytag and E. M. Reindel, *Noise Level Reduction Measurement Methods for Sound-Insulated Structures*, NOISE-CON 2008, Dearborn.
- J. C. Freytag and Paul D. Schomer, *Minneapolis et al. v Metropolitan Airports Commission*, N.O.I.S.E. Summer Conference, Dulles, VA.
- J. C. Freytag and E. M. Reindel, *Noise level reduction measurement methods for sound-insulated structures*, TRB Summer Meeting, Key West, FL.
- J. C. Freytag and Paul D. Schomer, *Assessing the relative noise contributions from independent time-varying sources*, Noise-Con 2007, Reno, NV.
- J. C. Freytag and Paul D. Schomer, *What is "Quietude" in an Urban Area?* INTER-NOISE 2007, Istanbul, Turkey.
- J. C. Freytag, *Noise Insulation Performance of Buildings near Airports: Measurement Issues and Perspectives*, NOISE-CON 2004, Baltimore.
- J. C. Freytag, *Retrofit Sound Insulation: The Morning After*, INTER-NOISE 2002, Dearborn, MI.
- J. C. Freytag, *The Airport Noise Paradox: DNL Drops While Problem Grows*, Noise-Con 2001, Portland, ME.
- J. C. Freytag (co-author), *ACOUSTICS: Architecture, Engineering, the Environment*. (1998, William Stout Publisher).