

Resume

Vincent Mestre, P.E.

Education M.S., Engineering, University of California, Irvine, 1975
B.S., Engineering, University of California, Irvine, 1973

Registration and Work History Professional Engineer, State of California, Mechanical #18786
Ultrasystems, Noise and Air Quality Engineering, 1973 – 1977
Olson Laboratories, Aviation Noise Engineering, 1977- 1980
Mestre Greve Associates, Co-owner, Principal, 1980 – 2009
Landrum & Brown, Associate Vice President, 2009 – 2017
Semi-retired as of January 1, 2018

Overview Mr. Mestre has over forty years experience in noise control and acoustical engineering. Included in this experience are project management, program analysis, client coordination, and extensive computer modeling of environmental impacts for use in noise and acoustical analyses.

Vince founded Mestre Greve Associates (MGA) in 1978 as a Professional Engineering firm specializing in acoustics, noise control, and air quality analysis with special emphasis on computer modeling and measurements. In March of 2009, MGA was acquired by Landrum & Brown and operates as a Division of L&B.

Noise Analyses Mr. Mestre has completed noise studies as part of Environmental Analyses (EA), Environmental Impact Statements (EIS), Environmental Impact Reports (EIR), and Federal Air Regulation Part 150 Noise Compatibility Studies at more than two-dozen airports across the United States. Included in these are aircraft ground run-up studies at Vancouver International Airport, Santa Monica Municipal Airport, and the C-17 facilities at Long Beach.

Environmental Impact Statements

Environmental Impact Reports

FAR Part 150

Effects of Noise

Noise Monitoring System Specifications

Noise Monitoring System Testing/Tuning

Computer Modeling
Integrated Noise Model
Noise Barriers
Highway Noise
Room Acoustics
Sound Insulation

Mr. Mestre has provided international consulting services to the government of Taiwan on the development of a national noise policy, to the privatized Spanish airports authority (AENA) on the development of corporate wide noise policies, to NATO on the noise impacts and noise mitigation of its AWACS base in Germany, to the Thailand Airport Authority (AOT) on development of a comprehensive noise measurement system for the new Bangkok Airport and training of noise office staff, and to airports in New Zealand on the development of airport noise contours.

Vince was the Project Manager for noise demonstration testing program to evaluate departure procedures for John Wayne Airport. This was a one-year cooperative noise measurement effort with airlines, community, pilots, and the FAA. The results of the demonstration were used to determine whether amendments to current JWA noise limitations are necessary and if so, what the new limitations should be. This had national implications on noise departure procedures and was done in a framework to maintain grandfather status under the national noise policy act and led to the development of AC 91-53A, the FAA Advisory Circular on noise abatement procedures.

In addition to airport studies, Mr. Mestre provides consulting services on architectural acoustics including the design of interior spaces for noise sensitive



uses such as classrooms, churches, lecture halls, conference rooms, and residences. In addition, these services include the control of HVAC noise both in interior spaces and exterior spaces. Mr. Mestre has assisted many cities and counties in the State of California in the development of General Plan Noise Elements guiding municipal planning for noise control.

Professional Contributions

Mr. Mestre is the Chairman of the Society of Automotive Engineers A-21 Committee on Aviation Noise and Emissions and is the principal author of its international standard on airport noise monitoring systems best practice, Aerospace Recommended Practice 4721.

Vince has participated for many years on the UC Davis (formerly UC Berkeley) Airport Noise and Emissions Symposium planning committee as well as the ACI/AAAE Aviation Noise Symposium, and acted as session moderator and speaker.

Professional Affiliations

Vince is a member of the Acoustical Society of America, the Institute of Noise Control Engineers, and the Society of Automotive Engineers and is a Certified Acoustical Consultant for the County of Orange (California).

Published Papers

Effects of Aircraft Noise: Research Update on Selected Topics, ACRP Synthesis 9, Transportation Research Board of the National Academies, 2008.

Airport Noise Computational Models - Using Aircraft Trajectory Data to Assess Approach Profiles Including New Generation Continuous Descent Approach, Vincent Mestre, John Gulding, John-Paul Clarke, Eric Dinges, Internoise 2005.

Determining the Effects of Alternative Departure Cutback Altitudes and Power Settings: A Case Study, John Wayne Airport, 1994 National Conference on Noise Control Engineering, May 1994

John Wayne Airport: An Example of Noise Control, The Methods and The Results, 1989 International Conference on Noise Control Engineering, December 1989

Santa Monica Airport Noise Control Program - A New Concept in Airport Noise Ordinances, 1984 International Conference on Noise Control Engineering, 1984.

Comparison of Noise Measurements Along Arterial Roadways With the FHWA Highway Traffic Noise Prediction Model, 1982 National Conference Environmental and Occupational Noise Proceedings, September 1982.

A Monitoring System for Long Term Aircraft Noise Measurements, Sound and Vibration, February 1982.

Handbook of Environmental Impact Analysis, co-authored Noise Chapter with



D.C. Wooten, McGraw-Hill, 1980.

Anechoic Chamber for Transportation Noise Research, with D.C. Wooten, University of California, Irvine, June 1977.

The California General Plan Noise Elements, with D.C Wooten, Inter-Noise 74 Proceedings, Washington, D.C., October 1974.

A first-principles model for estimating the prevalence of annoyance with aircraft noise exposure, Sanford Fidell, Vincent Mestre, Paul Schomer, Bernard Berry, Truls Gjestland, Michel Vallet, Timothy Reid, Journal of the Acoustical Society of America, J. 130 (2), August 2011.

Role of a community tolerance value in predictions of the prevalence of annoyance due to road and rail noise, Sanford Fidell, Vincent Mestre, Paul Schomer, Bernard Berry, Truls Gjestland, Michel Vallet, Timothy Reid, Journal of the Acoustical Society of America, 131 (4), April 2012.

Effects of Aircraft Noise: Research Update on Selected Topics, ACRP Synthesis 9, Transportation Research Board of the National Academies, 2008.

Aircraft noise-induced awakenings are more reasonably predicted from relative than from absolute sound exposure levels, Sanford Fidell, Barbara Tabachnick, Vincent Mestre, Linda Fidell, J. Acoust. Soc. Am. 134 (5), November 2013.

Helicopter Noise Information for Airports and Communities, ACRP Synthesis 76, V. Mestre, P. Schomer, Transportation Research Board of the National Academies, 2016.

Assessing Community Annoyance of Helicopter Noise, Vincent Mestre, Sanford Fidell, Richard D. Horonjeff, Paul Schomer, Aaron Hastings, Barbara G. Tabachnick, and Fredric A. Schmitz; Research Report 181, Transportation Research Board of the National Academies, 2017.