

PARTY STATUS ADDENDUM

Name: Bruce F. Lowrey

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EXPERT WITNESS RESUMES:

Resumes are included for expert witnesses Joe Mehra, President, MCV Associates, Inc., Alexandria, VA and Neil Thompson Shade, President, Acoustical Design Collaborative, Ruxton, MD. Mr. Mehra is an expert in traffic engineering/analysis and Mr. Shade is an expert in acoustics. Professional resumes for Messrs. Mehra and Thompson are included herewith.

CERTIFICATE OF SERVICE

I hereby certify that, on April 13, 2017, a copy of the foregoing Request for Party Status was served via e-mail to the following:

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Bruce F. Lowrey

Jawahar (Joe) Mehra, P.E. PTOE

President, MCV Associates, Inc

Education

- MS/1972/Industrial Engineering
- BS/1969/Mechanical Engineering

Registration/Certification

- Professional Engineer: TX, VA, MD, DE
- PTOE

Affiliations

- Fellow, Institute of Transportation Engineers
- Member, Transportation Research Board

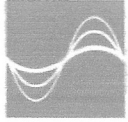
Summary

Mr. Mehra has over forty years of experience in the areas of project management, traffic engineering and transportation planning. He has managed numerous traffic engineering/operations studies including traffic analysis, impact studies and data collection. He has managed several traffic engineering studies in the Washington DC including the K Street Busway Study, the EISF preparation for Logan Circle residential development, EIS for PEPCO Project, The Bus rapid Transit Study, TIS for various land uses, traffic data collection projects for DDOT, Klinge Road Traffic Study, Field School Traffic Impact Study, etc. He has testified as an expert witness for several projects in Washington, DC and these include Georgetown University, George Washington University, Hine Jr. High PUD, American University, Shadow Night Club, Skyland Development, Sanctuary 21, St. Patrick School, Edmond Burke School, Field School, Tilden Street Residential Development, etc.

Relevant Experience

Traffic Engineering. He has managed several traffic engineering studies with extensive experience in traffic simulation models such as Synchro, CORSIM and TRANSYT-7F. He managed the traffic analysis study for Fort Meade that used the CORSIM Model to evaluate roadway improvements to accommodate security measures implemented after September 11, 2001. He was also the Project Manager for a three year transportation planning "on-call" contract with VDOT for Region 2. As part of this contract the Tysons Corner area was analyzed using the Synchro model. Approximately 40 signalized intersections were analyzed for the existing conditions and future conditions. CORSIM Model was also used on several other projects to evaluate corridors such as the Route 207 corridor in Caroline County, the Eisenhower Avenue corridor for the Patent and Trademark Office in Alexandria, etc. Other traffic engineering studies that he has managed include the Route 58 (Pennington Gap Bypass) Traffic Engineering Study for VDOT, Route 1/123 Interchange Study, etc.

Transportation Planning/Forecasting. He was the Project Manager for the Dulles Corridor Metrorail Project - Station Traffic Circulation Study For Preliminary Engineering Extension To Dulles Airport / Route 772 to validate the station layouts and the traffic forecasts as they relate to station access issues for the Metrorail Extension. He has conducted statewide, regional, corridor and subarea planning studies in Washington, DC, Fauquier County, Warren County, Fairfax County, Loudoun County (using COG's Version 2 Model and VIPER that resulted in the County's Comprehensive transportation plan), Chesterfield County, Richmond area, Hampton Roads, Tri-Cities, Prince William County, etc. in Virginia; Montgomery County, Baltimore County, St. Mary's County, Charles County, Prince George's County, Germantown, Silver Spring, etc. in Maryland; York County, Pennsylvania; St. Louis, Missouri; Denver, Colorado; New York City, Connecticut, etc. using MINUTP, TMODEL2, EMME/2 or QRSII. He has managed multimodal planning studies for a broad range of clients. He was the Project Director for the New Approach Study for Integrating Transportation and Development in the National Capital Region using the MINUTP model. He was the Principal Investigator of a FHWA study on Analysis and Use of Trip Generation Rates resulting in S.I.T.E. Handbook and updated NCHRP 187 trip rates. He was MCV's Project Manager on a multi-disciplinary team to prepare the Georgetown Branch Transitway MIS in Maryland. He managed the Charles Town Circulation Study and the Leesburg Downtown Courts Transportation Study. Corridor EIS, etc.



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NEIL THOMPSON SHADE, FASA **President and Principal Consultant**

Mr. Shade has 34 years of experience in consulting, project management, and teaching in acoustics, noise control, and audio/visual systems. He has served as Principal Consultant on over 1400 projects representing most building types. In addition to his acoustic consulting practice, Mr. Shade was an active acoustics educator for 28 years simultaneously while an acoustic consultant. He established the Acoustics Studies Program at the Johns Hopkins University/Peabody Institute in 2000. He holds a B.S. Degree in Audio Technology and Acoustics and studied under the noted acoustician Richard V. Waterhouse.

Consulting Experience

Mr. Shade has experience in theoretical and practical aspects of acoustics to include consulting assignments and laboratory research.

1992-Present. Mr. Shade is President and Principal Consultant of Acoustical Design Collaborative, Ltd where he is responsible for the overall management and technical aspects of the firm's acoustic consulting projects. He serves as Principal Consultant for diverse projects including broadcast and studio facilities, educational buildings, community, environmental, and industrial noise, historical preservation, LEED®-certified buildings, multi-family expert witness, housing, music and drama rehearsal rooms, performing arts spaces, and worship houses. His work involves acoustic measurements, client liaison, criteria development, calculations, specification writing, and drawing preparation for room acoustics, equipment noise control, sound isolation, and audio-visual system projects.

1985-1992. Prior to forming Acoustical Design Collaborative, Ltd, Mr. Shade was Project Manager of Architectural Acoustics for Wyle Laboratories in Arlington, VA. During this period, he consulted on a wide range of projects involving architectural acoustics, environmental noise, hearing conservation, HVAC equipment noise and vibration control, sound isolation, and sound systems design. Consulting projects included airports, courthouses, educational buildings, governmental centers, hospitals, performing arts spaces, recording studios, and worship houses. Laboratory work included small scale transmission loss measurements and developing sound intensity techniques for in-situ sound isolation measurements.

1982-1985. Mr. Shade began his acoustics career as a staff acoustician with Paul S. Veneklasen Associates/Western Electro-Acoustics Laboratory in Santa Monica, CA. He performed calibrations on acoustic transducers and conducted field and laboratory acoustic tests to ASTM standards. Mr. Shade also consulted on building projects including convention centers, educational buildings, hospitals, performing arts spaces, and research centers.

1976-1981. During his years in college, Mr. Shade was employed in the naval architecture/marine engineering industry as a draftsman and mechanical systems designer working on naval ship projects.

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Teaching Experience

Mr. Shade has been an acoustics educator at the university level and professional development classes.

Johns Hopkins University/Peabody Institute, Baltimore, MD. Adjunct Faculty, 2010 to 2016. Taught courses in Acoustic Measurements, Architectural Acoustics, Computer Modeling, Noise Control, and Professional Practices. Approximately 60 students were taught in these classes.

Johns Hopkins University/Peabody Institute, Baltimore, MD. Director Acoustics Program, 2000 to 2009. Taught courses in Acoustic Measurements, Architectural Acoustics, Computer Modeling, Electro-Acoustics, Musical Acoustics, Noise Control, Professional Practices, Psychoacoustics, Physical Acoustics, and Sound Systems. Approximately 40 students graduated from the Acoustics Studies program.

American University, Physics/Audio Technology Department, Washington, D.C. Adjunct Faculty, 1988 to 2000. Taught courses in Architectural Acoustics, Advanced Architectural Acoustics, Audio Technology, and Sound System Design. Approximately 150 students were taught in these classes.

University of Maryland, School of Architecture, College Park, MD. Guest Lecturer, 1987 to 1992. Taught courses in Architectural Acoustics and juried student design work. Approximately 100 students were taught in these classes.

Omega School of Recording, Rockville, MD. Guest Lecturer, 1998 to 2000. Lectured on basic acoustics and room acoustics for recording studio design. Approximately 100 students were taught in these classes.

American Institute of Architects, Baltimore and Hampton Roads Chapters. Guest Lecturer, 1993 to 2008. Led acoustics sessions for Architectural Registration Examination review courses. Approximately 150 students were taught in these classes.

Voice of America, Guest Lecturer, 1990 to 2006. Taught classes in studio design to radio engineers from developing nations. Approximately 100 students were taught in these classes.

Honors and Awards

Elected to Fellow of Acoustical Society of America, 2014.

“Voice of America Teaching Appreciation Award”, 2006.

“Theodore John Schultz Grant for Advancement in Acoustical Education,” 1997.

“WBC Craftsmanship Award for WAMU-FM Radio Studios,” Washington Building Congress, Inc., 1995.

Publications

Mr. Shade has considerable experience as author, reviewer, and editor of acoustics publications.

Books

Editor, An NCAC Anthology in Noise and Vibration – The Collected Papers of Laymon Miller, 2013, 325 pages.

Author, Electronic Sound Systems Design – Equipment, Application, Specification, and Installation, sponsored by the Theodore John Schultz Grant for Advancement in Acoustical Education” of the Robert Bradford Newman Student Award Fund, 2002, 475 pages.