JAWAHAR (JOE) MEHRA, P.E.

President, MCV Associates, Inc.

Education

- State University of New York, Buffalo, M.S. Industrial Engineering/Operations Research, 1972
- Indian Institute of Technology, Bombay, India, B.S. Mechanical Engineering, 1969

Previous Positions

- Callow Associates, Inc., Principal, 1988 - 1990
- Kellerco, Inc., Vice President, 1982 - 1988
- BKI Associates, Inc., Senior Transportation Engineer, 1978 - 1982
- Alan M. Voorhees and Associates, Associate Engineer, 1970 - 1978

Experience

He has over twenty five years experience in the areas of traffic engineering and transportation planning. He has managed several traffic engineering/operations studies in Maryland including traffic analysis, impact studies, accident analysis and data collection. He has extensive experience with SHA standards and procedures having participated in several SHA contracts and related studies.

- **Traffic Analysis**. He has managed several traffic engineering studies in Maryland using SHA approved procedures including the Georgetown Branch Transitway MIS/DEIS for MTA (traffic forecasts, traffic impact, capacity/levels of service, queue jumper analysis) , the Route 28 Corridor in Montgomery County (existing conditions, traffic forecasts, capacity/levels of service, geometric improvements, conceptual plans), Post Office Road Study in Charles County, MD (data collection, capacity/levels of service, traffic forecasts, signal design, pavement marking, signing), Suitland Parkway Study (Prince George's County MD), etc. He has conducted numerous traffic impact studies in Maryland using SHA format. All these studies were reviewed and approved by SHA. Some of these studies include the Villages of Piscataway Study (1000 acres), The Clinton/Townshend Property (800 acres), Expansion of Clinton Plaza, The Shady grove Life Sciences Center Traffic Study, The Heards Estates Traffic Study in St. Mary's County, College Park TDOZ, Waters Landing Corporate Park in Germantown, Milestone Property in Germantown, MD, etc. He is the Project Manager on two traffic engineering retainers -- with Montgomery County and Prince George's County. These studies include traffic analysis, signal design, data collection, capacity/levels of service, TCPs, etc. Other traffic engineering studies that he has managed include the Route 58 Traffic Engineering Study, Route 123 Corridor study in Fairfax City, TOPICS study for Buffalo, New York; TSM study for East End of Pittsburgh, Pennsylvania; etc.
- **Traffic Signal Design/Operations**. Most of the studies related to traffic signal design were prepared using SHA standards and specifications and include Middlebrook Road, Post Office Road and currently preparing as-built signal plans for twenty intersections in Montgomery County using SHA standards. He has managed the Route 30 corridor study that included the TRANSYT-7F analysis for the signal system study and timing development for 11 signals and the NETSIM analysis for the Springfield Mall subarea to conduct queuing and timing analysis.
- **Traffic Control Plans**. He has managed the preparation of traffic control plans for 46th Avenue Reconstruction in the Town of Edmonston (MD), TCP for Boyds Road in Calvert County, etc.
- **Traffic Data Collection/Analysis**. He has managed eight contracts to conduct various types of traffic data collection activities for SHA. Mr. Mehra is the Project Manager for SHA Contract BCS 97-02 to conduct portable machine counts for Maryland.

Professional Affiliations

- Fellow, Institute of Transportation Engineers, Chairman, ITE Technical Council Committee 6A35, "Use of Transportation Planning Models to Monitor and Review Growth Impacts"; Member TRB

BZA
Case No. 16852
Exhibit No. 313
Board of Zoning Adjustment
District of Columbia
CASE NO.16852
EXHIBIT NO.313

Publications

"People Mover System for New Towns/Communities" Presented at the Second International Conference on Automated People Movers (APM's) in Miami, Florida, March, 1989.

"The Public Presentation of Traffic Impacts: Strategies and Procedures", presented at the Development Impact Analysis Conference, Washington, D.C., May, 1986.

"Site Impact Traffic Evaluation Handbook", co-authored with C.R. Keller. Prepared for Federal Highway Administration, January, 1985.

"Development and Application of Trip Generation Rates", co-authored with C.R. Keller. Prepared for Federal Highway Administration, January, 1985.

"Crisis Relocation Movement Plan for the Tidewater Risk-Host Conglomerate", co-authored with D. Takacs and C.R. Keller. Prepared for presentation at the TRB meeting in January, 1984.

"A Cost-Effectiveness Model for the Analysis of Trade-Offs of Stationary Vs. Transportation Emissions Control in Baltimore", co-authored with A. Lago et al. Presented at the TRB Meeting in January, 1984.

"Study of Alternative Methodologies for Apportionment of Air Quality Control Requirements", co-authored with K. Hollenbeck et al. U.S. DOT, February, 1983.

"Study of the Cost-Effectiveness of Stationary Source, Mobile Source and Transportation Controls to Improve Air Quality", co-authored with S. Bellomo. U.S. DOT, November, 1981.

"Traffic Problems in the Bombay CBD." Presented at the ASCE International Conference in New York, held in May, 1981.

"Energy Impacts of Transportation: Some Relationships and Results", Prepared for presentation at the ASCE Portland Convention Energy Considerations in Transportation, 1980.

"Stationary and Mobile Source Controls and Trade-Offs". Prepared for presentation at the ASCE Speciality Conference Transportation and 1977 Clean Air Act Amendment, San Francisco, November, 1979.

"Evaluating Options in Statewide Transportation Planning/Programming Techniques and Applications;" co-authored with S. Bellomo, et al. NCHRP Report 199, March, 1979.

"Fuel Consumption and Emissions as Related to Vehicle Operations and Highway Design;" co-authored with P. Brach. Presented at the ASCE Speciality Conference on Energy Conversation, May, 1978.

"An Overview of a Methodology to Determine Fuel Consumption and Emissions as a Function of Traffic Operations and Road Geometry", co-authored with P. Brach. Presented at TRB Meeting, January, 1978.

Mehra, Continued

"Evaluation and Application of Priority Programming Methodologies in Maryland", co-authored with M. Stein, J. Cichy and S. Bellomo. TRR 610, 1979.

"Evaluating Options in Statewide Transportation Planning/Programming. Issues Techniques, and Their Relationships", co-authored with S. Bellomo, et al. NCHRP Report 179, 1977.

"Analysis of Weekend Travel", co-authored with S. Bellomo. Prepared for presentation to the Committee on Statewide Transportation of the Transportation Research Board, Washington, D.C., 1975.

"Statewide Travel Forecasting Procedures, Including Activity, Allocation and Weekend Travel - Phase II Weekend Travel Mode", co-authored with S. Bellomo, U.S. DOT, Federal Highway Administration, Washington, D.C., 1974.

"Statewide Travel Forecasting Procedures, Including Activity Allocation and Weekend Travel - Phase II Statewide Activity Allocation Model", co-authored with C. Schlappi and S. Bellomo. U.S. DOT, Federal Highway Administration, Washington, D.C., 1974.

"Simplified Statewide Travel Forecasting Procedures, Including Supply-Demand Relationships", co-authored with A. Lemer et al. U.S. DOT, Federal Highway Administration, Washington, D. C., 1973.