



## **Y. JOHN SUN, P.E.**

*Executive Director*

*Principal Urban Transportation Planner*

### **《YEARS OF EXPERIENCE》**

32

### **《EDUCATION》**

- M.S., Transportation Engineering, University of California, Berkeley, California, U.S.A., 1982
- B.S., Civil Engineering, National Taiwan University, Taipei, China, 1979
- Certificate in Application of TRANSYT-7F, Federal Highway Administration, U.S.A.
- Certificate in Traffic Signal Design, Institute of Transportation studies, Berkeley, California, U.S.A.

### **《PROFESSIONAL DATA》**

- Transportation Medal Award, Chinese Institute of Transportation, 2013
- Young Consultant Award, Institute of Transportation Engineers, 1987
- President, Intelligent Transportation Society of Taiwan (ITS-Taiwan), 2012-2014
- Board of Supervisors, Intelligent Transportation Society of Taiwan (ITS-Taiwan)
- Board Director, Chinese Institute of Transportation
- Board Director, Chinese Association of Engineering Consultants
- APEC Engineer – Civil Engineering
- IPEA International Professional Engineer – Civil Engineering
- Registered Civil Engineer, Taiwan, R.O.C.
- Registered Traffic Engineer, California, U.S.A.
- Registered Civil Engineer, California, U.S.A.
- Affiliate, Transportation Research Board (TRB), U.S.A
- Member, Institute of Transportation Engineers (ITE), U.S.A.
- Member, American Society of Civil Engineers (ASCE), U.S.A.

### **《KEY QUALIFICATIONS》**

Mr. Sun has 32 years of professional experience in urban public transportation, sustainable transportation, intelligent transportation systems (ITS), and traffic engineering. He has been responsible for major transportation projects in cities and regions around the world, including ITS, Bus Rapid Transit, Light Rail Transit, Mass



Rapid Transit, and bus systems planning projects, transportation demand modeling as well as comprehensive transportation studies. He also has extensive experience in highway planning, site planning, and traffic impact studies for large-scale land development projects.

Mr. Sun served as Senior Transportation Planning Consultant on the General Consultant teams of mega-projects such as Athens Metro, Taipei Rapid Transit Systems, San Francisco BART Extension, and Boston Central Artery.

#### 《PROFESSIONAL EXPERIENCE》

- 1999-Present Chairman/Executive Director, THI Consultants Inc.
- 2005-Present Chairman/Executive Director, THI Shanghai Consultants Inc.
- 1995-1998 Vice President, THI Consultants Inc.
- 1993-1995 Lead Transportation Planner, Bechtel Corporation
- 1989-1993 Senior Consultant, American Transit Corporation
- 1987-1989 Senior Traffic Engineer, Bechtel/Parsons Brinckerhoff Inc.
- 1982-1987 Associate, TJKM Transportation Consultants
- 1981-1982 Research Assistant, Institute of Transportation Studies, University of California, Berkeley

#### 《REPRESENTATIVE PROJECT EXPERIENCE》

- **Taoyuan Metropolitan Bus Network Planning, Taiwan** - Project Director. Directed the planning effort commissioned by Taoyuan County which has a population of 1.7 million. Existing bus services were evaluated, local needs and comments were surveyed, and bus ridership was forecasted. Bus exclusive lanes were also evaluated during the planning process. An updated full bus network was recommended as a result of this planning project.
- **Taipei City Medium And Small Bus System Planning, Taiwan** – Project Director. Directed the planning effort which redefined the role of buses in various sizes and evaluated bus service types required for Taipei. Recommended routes and service patterns for medium and small buses. Feeder bus services connecting to existing rail transit stations is emphasized.
- **Comprehensive Railway Network Planning of Taiwan** – Project Supervisor. Supervised the planning of a network of railways for the entire Taiwan Island, including high speed railways, intercity railways, urban railways, and tourism railways. A new railway network master plan was developed, along with a phased implementation plan and a GIS database.
- **Macau Comprehensive Land Transportation Policy Planning** – Project Director. Commissioned by the Macau Transport Bureau, a full set of urban



transportation policy was developed, containing strategies and actions for public transportation, non-motorized transportation, highway transportation, traffic management as well as ITS.

- **Taipei Rapid Transit Systems Project, Taipei, China** - Senior Technical Advisor. Served as an expatriate member of the General Consultant team advising the Taipei Department of Rapid Transit Systems on comprehensive mass rapid transit planning and traffic management.
- **Kowloon-Canton Railway West Rail Project, Hong Kong** – Lead Transportation Planner. Commissioned by the Kowloon-Canton Railway Corporation (KCRC) to study transportation planning issues on the West Rail project.
- **Polish A-1 Motorway Pre-Feasibility Study, Poland** - Lead Transportation Planner. Conducted pre-feasibility study for the 323-kilometer tollroad from Gdansk to Lodz and prepared study report.
- **Strategic Initiatives on Transport Hubs** - Senior Transportation Analyst. Evaluated strategic opportunities for major port-related transport hub developments in China and Mexico.
- **Athens Metro Development Study, Greece** - Transportation Planning Specialist. Provided technical input on survey requirements for Stated Preference survey, speed-flow relation survey, saturation flow rate survey, and parking survey.
- **Boston Central Artery and Third Harbor Tunnel, Massachusetts, U.S.A.** - Senior Traffic Engineer. Established a transportation planning computer model for the Boston region. Work critically supported air quality analysis, noise and vibration analysis, and the overall project environmental impact study.
- **Bay Area Rapid Transit (BART) Airport Extension, California, U.S.A.** - Traffic Engineering Consultant. Responsible for evaluating access and circulation elements of stations planned along the BART - San Francisco International Airport Extension.
- **Interstate 880 Freeway Interchange Improvement Project, California, U.S.A.** - Project Manager. Responsible for determining the improvements required to accommodate future traffic demand at eight freeway interchanges along Interstate Highway 880 in the San Francisco Bay Area.
- **San Francisco Downtown Traffic Study, California, U.S.A.** – Traffic Engineer. Performed work in areas involving analyses of peak hour modal split, downtown pedestrian activities, and intersection traffic conditions.
- **Pleasanton Traffic Signal System Project, California, U.S.A.** – Project Manager. Responsible for the project which included the planning, design, and monitoring of a citywide traffic signal control system.



- **Major Arterial Plan Line Studies, California, U.S.A.** - Project Manager.  
Responsible for the determination of future lane requirements along several major arterials and at their intersections, and the design of future roadway alignments, and intersection configurations.
- **Tri-Valley Transportation Study, California, U.S.A.** - Senior Traffic Engineer.  
Performed transportation planning and traffic engineering work on this comprehensive study of one of the fastest growing areas in the State of California.
- **National and Regional Land Planning of Taiwan** - Advisor. Served as a member of the General Consultant team and provided professional advice on the update of the National Land Use Plan and 7 Regional Plans of Taiwan.
- **Shenzhen Bus Rapid Transit System Planning, China** – Project Director.  
Commissioned by the Shenzhen Urban Transport Planning Center to provide technical advice on BRT planning. Provided guidelines for the planning and operation of the BRT network as well as the first BRT line in Shenzhen.
- **Shanghai Bus Rapid Transit Planning, China** - Project Director.  
Commissioned by the World Resource Institute (WRI) to provide technical advise on the planning of BRT on the Middle Ring Road and long-term BRT network planning for Shanghai.
- **Green Transport for Cities in China** – Technical Manager. The project was financially sponsored by W. Alton Jones Foundation (Blue Moon Foundation) of the U.S.A. and executed under the Chinese Institute of Transportation. Participating cities included Wuhan, Shanghai, Ningbo, Changchun, Xiamen, Guangzhou, Nanjing and Shenyang.
- **Daxie Island Development, Zhejiang Province, China** – Senior Transportation Analyst. Evaluated existing and planned regional transportation infrastructure surrounding Daxie Island. The evaluation focused on rail and highway modes in the Yangtze River Delta and Zhejiang Province.
- **Dongshui Port, Hainan, China** - Lead Transportation Planner. Responsible for evaluating existing and planned transportation infrastructure servicing the planned Dongshui Port area in Haikou, Hainan Province.
- **Shenzhen Tollroad Demand Forecasting, China** - Lead Transportation Planner. Responsible for managing technical work on the operations and maintenance (O&M) study for the tollroad, preparing O&M cost estimates, supervising and reviewing traffic studies, and assisting systems design.

#### 《LANGUAGE》

- English : Excellent
- Mandarin : Excellent



《PUBLICATION》

1. Hu, Y.C. and Sun, Y.J. "General Consultants and Development of the Taipei MRT Project", *Rapid Transit Systems & Technology*, Vol. 48, February 2014.
2. Shigeru Morichi, Surya Raj Acharya (Editors), John Sun et al. "Transport Development in Asian Megacities: A New Perspective", pp.5/1-5/34, 2011.
3. H. Ieda (Editor), John Sun et al. "Sustainable Urban Transport in an Asian Context", pp.296-301, 2010.
4. Luo, S.S. and Sun, Y.J. "Outlook on Taipei's Bus Network and Fare Structure Reform." *Economic Outlook Bimonthly*, Taipei, Taiwan, September 2009.
5. Sun, Y.J. and et al. "Progressive Development of Public Transportation System in Taipei", *Jiangsu Urban Planning*, Nanjing, China, August 2009.
6. Sun, Y.J. and et al. "Progressive Reform of Public Transportation System in Taipei." *16th Cross-Straits Urban Transport Conference*, Nanjing, China, September 2008.
7. Feng, C.M., Luo, S.S. and Sun, Y.J. "Case Study of Sustainable Transport for East Asian Megacities (STREAM) - Urban Transport In Taipei." *Proceedings of the Eastern Asia Society for Transportation Studies*, Vol.6, 2007.
8. Sun, Y.J. and et al. "Planning and Design Criteria for Light Rail Transit and Bus Rapid Transit Systems." *Seminar on Planning and Design of Rail Transportation Systems in Taiwan*, Taipei, Taiwan, July 2007.
9. Sun, Y.J. and et al. "Development of Rail Transit BOT Project in Taipei." *3rd China Tongzhou Forum on Transportation*, Shanghai, China, October 2006.
10. Sun, Y.J. and et al. "New Thoughts on Public Transportation Policy." *3rd China Tongzhou Forum on Transportation*, Shanghai, China, October 2006.
11. Sun, Y.J. and et al. "Vision and Inspiration on Urban Transportation Strategies of Quality Cities in the World." *High-Level Forum on Magacity Transportation in Wuhan*, November 2005.
12. Sun, Y.J. and et al. "Application of Freeway Detector Data to Travel Time Prediction." *Proceedings of 2004 Conference of Chinese Institute of Transportation*, Tainan, Taiwan, November 2004.
13. Sun, Y.J. and et al. "Static Travel Time Prediction Model for Taiwan Area Freeway." *Proceedings of 2004 Conference of Chinese Institute of Transportation*, Tainan, Taiwan, November 2004.
14. Chang, S.K., Sun, Y.J., and et al. "Development of Green Transport for Cities in China." *Proceedings of 2003 Conference of Taiwan Institute of Urban Planning*, Hsinchu, Taiwan, December 2003.
15. Chang, S.K. and Sun, Y.J. "Green Transport for Cities in China." *Proceedings of International Conference on Ecodesign*, New Delhi, India, November 2002.
16. Hu, Y.C., Ho Chen, T., Poo, D., and Sun, Y.J. "The Role and Effectiveness of General Consultants on Rapid Transit System Projects



- in Taiwan." *Proceedings of 2002 World Metro Symposium and Exhibition*, Taipei, Taiwan, April 25-27, 2002.
17. Chang, S.K., Tsao, S.M., Poo, D., and Sun, Y.J. "Taipei Bus Lane Development." *Proceedings of Second International Conference on Smart Urban Transport*, Brisbane, Australia, November 2001.
  18. Lin, C.K., Chen, C.H., Sun, Y.J., and et al. "Deployment of a Demonstrative Gravel Truck Management System." *Civil Technology*, No. 33, Taipei, Taiwan, November 2000.
  19. Su, C.C., Sun, Y.J., and Hu, Y.C. "Mass Rapid Transit System Planning in Taiwan Metropolitan Areas." *Proceedings of the Second Asian Pacific Transportation Development Conference and the Tenth ICTPA Annual Meeting*, San Francisco, February 1997.
  20. Sun, Y.J. and Cheng, W. "Highway Project Development in Guangdong Province." *Proceedings of the First Asian Pacific Transportation Development Conference*, Los Angeles, February 1995.
  21. Chu, C. and Sun, Y.J. "The Development of a Mode Choice Model in Taipei." *Proceedings of the Seventh International Conference on Travel Behaviour*, Santiago, Chile, June 1994.
  22. Sun, Y.J. and Dehghani, Y. "The Development of a Disaggregate Logit Model for Mode Choice Modeling in Taipei." *Proceedings of the Seventh International Conference on Travel Behaviour*, Santiago, Chile, June 1994.
  23. Sun, Y.J. and Hu, Y.C. "Traffic Management Model Application to Transit Construction." *Proceedings of the Managing Traffic and Transportation Conference 1992*, Netherlands Centre for Research and Contract Standardization in Civil and Traffic Engineering, Amsterdam, the Netherlands, 1992.
  24. Shattaneck G., Sun, Y.J., and Chow, J. "Applying TRANPLAN to Assist Air Quality Impact Analysis." *Microcomputer Applications in Transportation III*, American Society of Civil Engineers, New York, New York, 1990.
  25. Sun, Y.J., Weidner, T.J., and Whitmarsh, C.C. "Landside Vehicular Circulation at Boston Logan International Airport." *1989 Compendium of Technical Papers*, Institute of Transportation Engineers, Washington, D.C., 1989.
  26. Sun, Y.J. "Traffic Forecasting on the Central Artery/Third Harbor Tunnel Project." *Proceedings of the Second Conference on Application of Transportation Planning Methods*, Transportation Research Board, Washington, D.C., 1989.
  27. Sun, Y.J. "The Establishment of the Pleasanton Traffic Monitoring System." *ITE Journal*, Institute of Transport Engineers, Washington D.C., November 1987.