

Eric C. Shen, P.E., PTP, CPE

PROFESSIONAL REGISTRATIONS:

- Professional Engineer (Civil), [California](#) (No. C56116)
- Professional Engineer, [Alabama](#) (No. 22587)
- Professional Transportation Planner (No. 9). [Transportation Professional Certification Board](#), Washington DC

EDUCATION & TRAININGS

- Master of Science in Civil Engineering, UC Irvine 1995
- Bachelor of Science in Civil Engineering with Honors, UC Irvine 1993
- Certified Port Executive™ (CPE)
- AASHTO National Transportation Management Training
- Mentor, U.S. Department of Transportation Training Program
- Sergeant, Chinese Army on Taiwan. Mandatory 2-year military service

EXPERT ADVISORY SERVICE

- [Los Angeles Metro Policy Advisory Council](#), Representative for SGVCOG
- National Cooperate Research Projects, Transportation Research Board, National Academy of Sciences
 - [NCHRP 20-59\(34\)](#): Methodologies to Estimate the Economic Impacts of Disruptions to the Goods Movement
 - [NCHRP 25-46](#): Developing Clean Truck Freight Corridors
 - [NCFRP-44](#): Factors Influencing Freight Modal Shift
 - [NCFRP-50](#): Improving Freight Transportation Resilience in Response to Supply Chain Disruptions
- [ITE Trip Generation Handbook](#) (3rd edition), Technical Advisor
- [ITE Manual of Transportation Studies](#) (2nd edition), Expert Advisory Committee

EXECUTIVE LEADERSHIP:

- Designated Federal Officer, U.S. Maritime Transportation System National Advisory Committee (MTSNAC)
- Transportation Research Board, National Academy of Sciences, Engineering and Medicine
 - Chairman, Marine Group (Term 2015-2018)
 - Ex Officio Member, Marine Board (Term 2015-2018)
 - Member, Technical Activities Council (Term 2015-2018)
 - Chair, Ports & Channels Committee (Two Terms: 2009 – 2015)
 - Committee Research Coordinator, US Major Cities Committee (Two Terms: 2005 – 2008)
- [At-Large Board of Director, WTS-Los Angeles](#) (2008-present)
- Board of Director, California Transportation Foundation (Term: 2015-2018)
- Board of Director, Coalition of America's Gateways and Trade Corridors (Team: 2012-2015)
- President, Arcadia Music Club (2017) – oversaw \$1.2 million operations budget and 200+ volunteers

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Institute of Transportation Engineers (ITE). USC Student Chapter Faculty Advisor
- WTS International

TEACHING & RESEARCH

- [Adjunct Associate Professor](#) of USC Civil and Environmental Engineering. Sol Price School of Public Policy: Transportation Studio (PPD531L) and Viterbi School of Engineering: Traffic Engineering & System Management (CE585). 2008 to present
- Lecturer, School of Engineering, UCLA, 2000-2006. Courses taught: Introduction to Transportation Engineering
- Lecturer, School of Engineering, UC Irvine, 1996-97. Courses taught: Traffic Control Laboratory
- Undergraduate Research Assistant, Institute of Transportation Studies, UC Irvine, 1990-1993

CAREER HIGHLIGHTS

SAN GABRIEL VALLEY COUNCIL OF GOVERNMENTS, CALIFORNIA

The San Gabriel Valley Council of Governments (SGVCOG) is a joint powers authority consisting of 31 incorporated cities, unincorporated communities in three Los Angeles County Supervisorial Districts, and three San Gabriel Valley Municipal Water Districts. Encompassing more than 374 square miles and has more than 2 million residents, SGVCOG is the largest and most diverse sub-regional council of governments in Los Angeles County.

DIRECTOR OF CAPITAL PROJECTS/CHIEF ENGINEER (December 2020 – Present)

I am responsible for directing, planning, and administering on-going and planned capital projects, including the Alameda Corridor East (ACE) program, regional and local capital improvement projects and the related professional services and construction management. As a member of the Executive Management Team, I participate in the development of the SGVCOG's annual budget, short- and long-term financial, and operational plans. I also oversee department staff, consultants, and the Agency's centralized contracting operations.

MAJOR ACCOMPLISHMENTS:

- Successfully selected and award a \$98.7 million construction contract for the Fullerton Road Grade Separation Project Contract
- Successfully negotiated with the Los Angeles County on park land acquisition (appx. \$30 million)
- Stabilizing financial plans for on-going capital projects
- Closely work with member cities on project funding, planning and implementations

MARITIME ADMINISTRATION, UNITED STATES DEPARTMENT OF TRANSPORTATION

The Maritime Administration provides critical marine transportation outreach activities at our major U.S. gateway ports. Under the leadership of Associate Administrator for Ports and Waterways, ten (10) Gateway Offices are the Agency's day-to-day presence throughout the Marine Transportation System. The Gateway Offices are critical to the viability and effectiveness of the Maritime Administration and its future programs.

DIRECTOR, MID-PACIFIC GATEWAY OFFICE (June 2018 – December 2020)

As Director of Mid-Pacific Gateway Office, I served as the agency's primary point of contact for twenty-five seaports and river ports in California, Hawaii, American Samoa, Commonwealth of North Marina Islands and Guam; and inland ports throughout Arizona, Nevada, and Utah.

DIRECTOR, SOUTHERN CALIFORNIA GATEWAY OFFICE (June 2015 – June 2018)

As the Director of Southern California Gateway Office, I was responsible for delivering federal services to seaports and inland ports in Arizona and Southern California. The Gateway office supports the Agency's priorities on America's Marine Highways initiative, port infrastructure development, improved delivery of federal services to the Marine Transportation System (MTS) and ports through regular coordination and leadership with port stakeholders. I also provided strategic planning on workforce development and promoted opportunities for American employment, participated in the development of Port Security Grants, and served as a designated Federal Response Official.

MARINE TRANSPORTATION SYSTEM NATIONAL ADVISORY COMMITTEE (MTSNAC) DESIGNATED FEDERAL OFFICER (DFO)

I served as the Designated Federal Officer (DFO) by Maritime Administrator under the delegated authority of the U.S. Secretary of Transportation, I served as the single point of contact between 43 appointed members of the U.S. Maritime Transportation System National Advisory Committee (MTSNAC), federal agencies, and the Office of Transportation Secretary. I was responsible for conducting all aspects of business, managing the day-to-day operations on budget and reports, and preparing for performance review.

AREA MARITIME SECURITY COMMITTEES (AMSC)

I was appointed to represent MARAD to the six Area Maritime Security Committees in California, Hawaii, and Guam. The Area Maritime Security Committees were established under the Maritime Transportation Security Act of 2002 (MTSA) and managed by the U.S. Coast Guard to provide a link for contingency planning, development and update of Area Maritime Security Plans (AMSP), and to enhance communication between port stakeholders within federal, state and local agencies, and industry to address maritime security issues. As the agency liaison, I served as the MARAD's single point of contact for situational awareness, workforce training, and operations supports.

CALIFORNIA MARITIME SECURITY COUNCIL

As the statutorily designated representative for MARAD/USDOT, I served as a federal liaison to the CA Maritime Security Council (CMSC) under the California Governor in matters related to Maritime Security.

PORT OF LONG BEACH, CALIFORNIA

The Port of Long Beach is the 2nd busiest container port in California and ranked 3rd in North America for throughput. The Port deals in all types of cargo, ranging from bulk cargo to automobiles.

DIRECTOR OF TRANSPORTATION PLANNING (October 2007 – May 2015)

I oversaw planning, design and development of future transportation strategies, and evaluation of the current transportation system. I helped to implement the Port's Green Port Policy programs to reduce air pollution from goods movement. I also served as Subject Matter Expert (SME) on intermodal freight/transportation planning and policy development.

I worked with California State Department of Transportation, the Southern California Association of Governments (SCAG), the Los Angeles County Metro, Orange County Transportation Authority, and other County Transportation Commissions on the development of Statewide Transportation Improvement Program (STIP), Regional Transportation Plans (RTPs), and Countywide Transportation Improvement Plans (CTIPs). I collaborated with the Alameda Construction Authority to secure additional State and Federal funding on grade separation projects.

I was responsible for developing port-specific transportation forecast models for the integration in CTIPs, RTPs, and STIP. I represented the Port and collaborated with USDOT modal offices in California on all aspects of transportation funding, grant management, project delivery and compliance. I worked with MARAD's Southern California Gateway Office, Federal Highway Administration California Division staff, and other resource agencies to represent and incorporate intermodal freight into the development of transportation planning processes and programs.

I worked extensively with the West Coast Ports Collaborative, the California Association of Port Authorities, and the American Association of Port Authorities on strategic freight policy development, financing options, and advocacy.

MAJOR ACCOMPLISHMENTS:

FUNDING FOR FREIGHT INFRASTRUCTURE PROJECTS

- Secured \$324 million of California State Proposition 1B Trade Corridor Improvement Funds (TCIF) for Port infrastructure projects in 2009
- Completed the initial \$962-million funding plan and agreements between USDOT, California Transportation Commission, Caltrans, and Los Angeles Metro for the Gerald Desmond Bridge Replacement Project in 2011.
- Secured \$17 million of USDOT TIGER Grants (FY2011) for the \$85-million Green Port Gateway Rail Improvement Project.
- Prepared a TIFIA loan application package of \$325 million for the Gerald Desmond Bridge Replacement Project. The loan was approved and closed in mid-2014.

GRANT MANAGEMENT:

- Responsible for preparing and submitting quarterly and annual plan of finance to USDOT and Caltrans for grant-funding projects.
- Designated Agency Representative for the funding agreement between the Port of Long Beach and MARAD (FY 2011 TIGER Grant Number DTMA1G12001)
- Develop and maintain interagency relationships between the Port and its funding partners to ensure effective project delivery while complying with federal and state requirements for funding and permitting

TECHNOLOGY ADVANCEMENT & POLICY DEVELOPMENT

- Partnered with FHWA/USDOT in developing the Freight Advanced Traveler Information System (FRATIS)
- Conducted the evaluation of a comprehensive Zero Emission Container Mover System (ZECMS) concepts and solutions for serving the Ports of Long Beach and Los Angeles, and the Alameda Corridor Transportation Authority (2008-2010).
- Responsible for the policy development of a joint Port Infrastructure Cargo Fee (ICF) (2007-2013).

THE CITY OF PASADENA, CALIFORNIA

The world-renowned Pasadena is a vibrant city nestled at the foothills of the San Gabriel Mountains, approximately ten miles northeast of downtown Los Angeles. Under the leadership of elected Mayor and City Council, the City of Pasadena delivers exemplary municipal services responsive to its 150,000+ citizens.

TRANSPORTATION PLANNING & DEVELOPMENT MANAGER/PRINCIPAL ENGINEER

DEPARTMENT OF TRANSPORTATION, CITY OF PASADENA, CA Jan. 2000 – Sept.2007

I was responsible for managing all aspects of transportation planning in the city, including project reviews, neighborhood traffic management, active transportation programs, and emergency response. As Division Manager, I led a team of engineers and planners on the review and approval of all Traffic Impact Studies and transportation analyses for development projects. I was responsible for developing transportation projects and programs in the City's annual capital projects in accordance with the General Plan and specific plans. I managed several state and federal grant-funded transportation projects in capital improvements; and researched and developed new projects/initiatives to promote alternative modes of transportation. I directed the preparation of the annual Congestion Management Program self-certification report and the bi-annual highway monitoring programs.

MAJOR ACCOMPLISHMENTS:

- Pasadena Bicycle Master Plan (2001)
- Pasadena General Plan Mobility Element (2004)
- Pasadena Pedestrian Plan (2006)
- Comprehensive Neighborhood Traffic Management Program (2000-2007)
- LA-Pasadena Gold Line Phase I – integrated transportation services at six transit stations in Pasadena

SENIOR TRANSPORTATION SYSTEMS ENGINEER

January 1998 – December 1999

GARDNER SYSTEMS (SIEMENS), LOS ANGELES, CA

I served as a Subject Matter Expert in Intelligent Transportation System (ITS) integration and development. Responsible for business development and project management. Served as Project Manager for the “I-405 Freeway Detector Testbed Design/Build Project” in Orange County and the “Section-Related Measures of Traffic System Performance” project with University of California Irvine PATH program.

TRANSPORTATION ENGINEER

July 1997 – December 1998

DKS ASSOCIATES, SANTA ANA, CA

I was a journey-level project engineer in traffic signal system and advanced transportation information system development. I supported the development of the Oregon State Intelligent Transportation System (ITS) Strategic Plan; and I served as client interface on the upgrade of City of Stockton (CA) Traffic Management Center. I conducted field reviews for the Alameda County Transit HOV Lane Design & Transbay Terminal Study in Oakland/San Francisco.

TRANSPORTATION ENGINEERING ASSISTANT

August 1993 – June 1997

DEPARTMENT OF TRANSPORTATION, CITY OF LOS ANGELES, CA ([LADOT](#))

I was a staff engineer in the City’s Automated Traffic and Surveillance Center (ATSAC) responsible for signal systems operations and research. I was specialized in the City’s Type-170 and NEMA-based controllers timing design, communication and operations. I performed complex simulations and translated computer-generated output into traffic signal controllers. I was assigned to the 1993 “Fuel Efficient Traffic Signal Management” (FETSIM) Team and responsible for developing and monitoring areawide traffic management improvements for 275 intersections in the South Los Angeles, Hollywood and Wilshire Districts.

HONORS

- [Silver Beaver Award](#), Boy Scouts of America (Class 2019)
- UC Irvine Samueli [School of Engineering Hall of Fame](#) (2015)
- District Award of Merit (2015) - Boy Scouts of America
- Outstanding Engineering Educator Award (2015) - Orange County Engineering Council, CA
- [Transportation Educator Award \(2013\)](#) – Institute of Transportation Engineers Western District
- [Lauds & Laurels - Distinguished Engineering Alumnus](#) (2003), UC Irvine Alumni Association

AWARDS

- Recipient of the [2018 WTS-LA Honorable Ray LaHood Award](#)
- Recipient of the 2007 Special Award of Merit – Pasadena Pedestrian Plan (Co-Author), by American Planning Association Los Angeles Section, California Chapter.
- Recipient of the 2005 Best Transportation Planning Program – Pasadena Mobility Element (Co-Author), by the Transportation Planning Council, Institute of Transportation Engineers
- Most Bicycle Friendly City of the Year Award (2004) – Pasadena Bicycle Plan & Implementation (Co-Author), by Los Angeles County Bicycle Coalition

PUBLICATIONS

- Pasadena Pedestrian Plan, 2006. Co-author
- Pasadena Neighborhood Traffic Management Program Community Handbook, 2005. Principal author
- Pasadena Guidelines for Transportation Review of Projects, 2005. Principal author
- Pasadena General Plan Mobility Element, 2004. Co-author
- “Effectiveness of the MUTCD 3B-27 Advance Speed Hump Markings” – Institute of Transportation Engineers, 2007 Annual Meeting, Pittsburgh, PA
- “The 2004 Pasadena Mobility Element: A Case Study in Shaping Future Transportation Services” - Institute of Transportation Engineers, 2005 Annual Meeting, Melbourne, Australia
- “Use it or Lose it – How does Pasadena change its belief in the coordination of land use and transportation?” Institute of Transportation Engineers, 2002 Annual Meeting, Philadelphia, PA
- “Neighborhood Traffic Management – A Grassroots Solution”. Institute of Transportation Engineers, District 6 Meeting, Palm Desert, CA, July 2002
- “OAK-TREE: One-of-a-Kind Traffic Research and Education Experiment”. Co-author, Transportation Research Record 1603, TRB Washington D.C. 1997.

COMMUNITY LEADERSHIP & INVOLVEMENTS

- Tournament of Roses Boy Scout Troop, Scoutmaster 2020
- Boy Scouts of America Tournament Troop Advisor (2016-2019) & Crew Advisor (2015-2019)
- Boy Scouts of America Assistant Scoutmaster (2003-2019) & Committee Chair (2013-2015)
- Arcadia Education Foundation Trustee (2006-2012)