Center for International Trade and Transportation (CITT)
College of Professional and International Education (CPIE)
Annual Report Academic Year 2018-2019

CONTENTS

Areas of Expertise and Summary of Major Activities from July 1, 2018 - June 30, 2019	3
Mission	3
Education and Training	6
Research	12
Outreach	14
CITT Policy and Steering Committee Members and Advisors	18
Policy and Steering Committee Members	18
CITT Advisors	19
CITT Staff	19
Faculty Members Involved in CITT Research, Scholarly, and Creative Activities	20
Other Center Milestones	21
Current Professional Service and Organizational Affiliations for Dr. Thomas O'Brien	21
Current Professional Service and Organizational Affiliations for Dr. Tyler Reeb	22
Public Statements and Positions	22
CITT Awards	22
CITT Instructor Awards and Recognition	23
CITT Student Awards and Recognition	23
Extent of Student and Faculty Participation from other California State or other Universities	24
Extent of Participation by Industry and Non-Governmental Organizations	25
Scholarly Achievements Consistent with CITT Mission	26
A) Publications Developed by CITT	26
B) Presentations/Seminars/Workshops Presented by CITT	26
Research Consistency with Academic Standards and Legal Conformity	29
Sources and Amounts of CITT Income	29
A) Grants, Endowments, Contracts and Donations	29
Space Description and Amount Occupied	31
Acquisition of Equipment or Tangible Assets Valued over \$5,000	31
Minutes of CITT Policy and Steering Committee Meetings	31

CITT Annual Report 2018-2019

AREAS OF EXPERTISE AND SUMMARY OF MAJOR ACTIVITIES FROM JULY 1, 2018 - JUNE 30, 2019

The Center for International Trade and Transportation (CITT) Annual Report highlights the Center's major accomplishments of this past year. CITT is a national leader in supply chain and logistics education and workforce development.

MISSION

CITT is dedicated to the development, distillation and broad dissemination of objective information about the goods movement industry. CITT accomplishes this through the development and delivery of targeted training and education, innovative research, and outreach programs serving the mission of the University, as well as the needs of industry and the community.

Education and Training: Contribute to the development of a well-informed cross-sector and multidisciplinary community of industry professionals, governmental, and community leaders through certificate and degree programs and customized training;

Research: Conduct unbiased applied research that contributes to the knowledge base of goods movement, leading to an informed analysis of its operations and impacts; and

Outreach: Disseminate globally significant research findings and information through presentations, reports, articles, town hall meetings, conferences, and workshops.

Also, as an educational entity with institutional and structural links to the supply chain and logistics industry, CITT is uniquely positioned to:

- i) Provide an ongoing and neutral forum where all parties in the logistics industry and its community stakeholders can come together to present alternative solutions to complex trade problems, seek opportunities to build consensus around those solutions, and share expertise and resources;
- ii) Draw from our industry leading research, educational programs, and community outreach to serve as a trusted resource for the local and global transportation and trade communities; and
- iii) Be a catalyst for sustainable growth and global competitiveness.

Over the last twenty-two years, CITT has made an ongoing effort to develop its educational and training programs in partnership with industry and community stakeholders. From the creation of the Global Logistics Specialist (GLS) program in 1997, to the Marine Terminal Operations Professional Designation Program (MTOP), the Working and Living in a Port City seminar series, and the Sales Boot Camp for Logistics Professionals course, CITT continues to build its reputation as a highly relevant and respected education provider. CITT's research portfolio features policy analysis in the areas of trade and transportation, as well as workforce development. Our outreach programs include educational forums, research conferences, and media-based efforts. In addition, CITT has continued to lead

outreach efforts within the regional trade and transportation community through its annual Town Hall meetings, which are designed to provide a forum for stakeholders to present their perspectives on current issues and developments impacting the industry.

CITT is also the California State University, Long Beach home to four transportation research centers in a partnership with the University of Southern California known as the METRANS Transportation Center, a U.S. Department of Transportation-designated University Transportation Center (UTC):

- MetroFreight, a Volvo Research and Education Foundations Center of Excellence in Urban Freight based at the University of Southern California;
- National Center for Sustainable Transportation (NCST), a consortium of six institutions led by the University of California, Davis;
- The Pacific Southwest Region 9 University Transportation Center, a University Transportation Center designated by the U.S. Department of Transportation; and
- The Federal Highway Administration's Southwest Transportation Workforce Center (SWTWC) housed at CITT.

CITT Executive Director Thomas O'Brien serves as METRANS Associate Director.

These research centers address challenges raised by transportation industry observers and aim to conduct unbiased research that contributes to the knowledge base of transport systems including goods movement, leading to an informed analysis of its operations and impacts. Further descriptions of each research center follows.

MetroFreight

MetroFreight researches ways to streamline the transportation, handling and storage of goods in city centers while reducing the impact on traffic congestion, air quality, and urban livability. The consortium includes the following university partners:

- i) California State University, Long Beach
- ii) University of Southern California
- iii) City University of New York
- iv) Korean Transportation Institute
- v) The French Institute of Science and Technology for Transport, Development, and Networks

CITT's Executive Director, Thomas O'Brien, serves as the MetroFreight Director of Education.

National Center for Sustainable Transportation (NCST)

NCST is a United States Department of Transportation (USDOT)-funded national University

Transportation Center (UTC) with these participating research institutions:

- i) University of Southern California
- ii) California State University, Long Beach
- iii) University of California, Riverside
- iv) University of Vermont
- v) Georgia Tech

The USC/CSULB partnership coordinates research and training for NCST in the area of sustainable freight systems and workforce development.

Pacific Southwest Region (PSR) UTC

The U.S. Department of Transportation (USDOT) awarded METRANS a five-year \$12.5 million grant to operate the DOT Region 9 University Transportation Center (UTC). Under the most recent federal highway bill, the FAST Act, one regional center is selected for each of the nation's ten Standard Federal Regions. Region 9 includes the states of California, Arizona, Nevada, Hawaii, and the Pacific Island territories. Southwest Region UTC partners include:

- i) University of Southern California
- ii) University of California, Davis
- iii) University of California, Irvine
- iv) University of California, Los Angeles
- v) University of Hawaii at Manoa
- vi) Northern Arizona University
- vii) Pima Community College in Tucson, AZ

The goal of the Pacific Southwest Region UTC is to address regional needs and to generate and share knowledge throughout the region. The center's primary focus is to improve the mobility of people and goods. The center will focus on the following research themes:

- i) Technology to address transportation problems and improve mobility;
- ii) Improving mobility for vulnerable populations;
- iii) Improving resilience and protecting the environment; and
- iv) Managing mobility in high growth areas.

CITT Executive Director Thomas O'Brien serves as Director of Workforce Development for the PSR UTC.

Southwest Transportation Workforce Center (SWTWC)

SWTWC seeks to connect and empower the 21st century transportation workforce through research, education, and industry engagement. The Federal Highway Administration (FHWA) funded the launch of SWTWC in concert with four other regional centers that form the National Network for the Transportation Workforce (NNTW). Each center is dedicated to providing a more strategic and efficient approach to transportation workforce development. SWTWC builds partnerships and alliances between strategic stakeholders to advance an abiding goal: develop a skilled and career-ready transportation workforce throughout SWTWC's eight member states—California, Nevada, Arizona, New Mexico, Colorado, Utah, Texas, and Oklahoma. With CITT as lead, the SWTWC team is composed of the following members:

- i) California State University, Long Beach
 - CITT Executive Director Dr. Thomas O'Brien serves as SWTWC Executive Director
 - CITT Director of Research and Workforce Development Dr. Tyler Reeb serves as SWTWC Associate Director
- ii) Texas A&M University Transportation Institute (TTI)
- iii) ICF International
- iv) National Occupational Competency Testing Institute

EDUCATION AND TRAINING

Self-support Education and Training Programs

Global Logistics Specialist (GLS) Certificate Program

This is an industry-designated program serving every sector of the goods movement industry in Southern California and globally. It is offered both in person and online. Partnerships with local workforce development agencies ensure that this program reaches veterans and displaced workers and connects them to career opportunities in an exciting and vibrant industry that needs a diverse set of workforce skills. This two-year program is designed to serve the needs of working professionals who are re-entering education. Students acquire skills and knowledge in communication, critical thinking, language and literature, analytical and scientific reasoning, quantitative analysis, and philosophical foundations. Classes are a mix of in-person and online formats, field trips, and other activities. New instructors include Norman Harris and Elizabeth Warren:

Norman Harris

Norman Harris teaches Specialty Warehousing. A graduate of Boston University, he received his Customhouse Broker (CHB) License in 1989. Through various assignments with Harper, Robinson & Co., Air-Sea Forwarders, Inc., and Panalpina, Inc., Mr. Harris now works with Nippon Express NEC Logistics America, Inc. in the role of Manager of Customs Services and Compliance. In 2005, he joined the Board of Directors of the Los Angeles Customs Brokers and Freight Forwarders Association (LACBFFA) serving as Treasurer for six years, then one year each as Vice President, President and Chairman. Since 2009 he continues to teach a ten-week CHB Exam preparation course for the LACBFFA at El Camino College.

Elizabeth Warren, President and CEO of Dialed-In Partners, teaches Trends in World Trade and Goods Movement Policy with GLS. Prior to establishing Dialed-In Partners, Warren was the Executive Director of FuturePorts, a membership-based advocacy group representing business interests engaged in goods movement in Southern California to advocate for balance between economic growth and environmental stewardship, with an emphasis on policies at the local, state and federal level. In July 2016, she was appointed by Mayor Eric Garcetti to the Port of Los Angeles Sustainable Supply Chain Advisory Committee. Ms. Warren also serves on the CSULB Center for International Trade & Transportation (CITT) Policy & Steering Committee, and the Los Angeles Area Chamber of Commerce's World Trade Week Planning Committee. Previous appointments include the California Board for Professional Engineers and Land Surveyors by Governor Gray Davis.

Marine Terminal Operations Professional (MTOP)

The MTOP program covers all aspects of terminal operations and increases career opportunities for individuals who are seeking entry or advancement in terminal operation occupations. Students will gain the critical knowledge and skills required by marine terminal operators worldwide to thrive in this highly competitive environment. The designation documents the graduate's proficiency for either entry level or existing positions in marine terminal operations. This core of knowledge and skills will minimize on-the-job-training requirements and significantly enhance any existing in-house training programs at terminals.

Master of Supply Chain Management (MSSCM)

Created in partnership with the College of Business Administration and the College of Liberal Arts, The Master of Science in Supply Chain Management program (MSSCM) is an advanced degree that provides comprehensive training in modern supply chain management practices. This program also teaches analysis methods, technology applications, strategy development, and other relevant skills that advance student career prospects and prepares them for lifelong learning in a global-supply-chain environment.

Introduction to Logistics and Supply Chain Management Course

This is a self-paced, online training program based on 30 hours of content that exposes students to the key functional areas of supply chain management and international transportation. With an eye towards developing the tactical skills necessary to compete in the global economy, participants gain an understanding of the strategies, processes, activities, and technologies associated with the import and export of goods across international borders. Industry practitioners such as industrial realtors, computer technology consultants, and other professionals servicing the transportation industry, benefit from this program that is designed to enhance or advance careers. First piloted in 2015, this program is now a gateway course for other CITT programs.

GLS and MTOP Classroom Enrollment,* Academic Year 2018-19

GLS: 172MTOP: 27Online: 0

GLS and MTOP Student Completion

- Fall 2018 GLS –4 students were awarded the GLS Professional Designation.
- Spring 2019 GLS –14 students were awarded the GLS Professional Designation.
- 2018 MTOP –6 students were awarded the MTOP Professional Designation

Academy of Global Logistics (AGL)

The Academy of Global Logistics offers a four-year academic curriculum at Long Beach Unified School District's Juan Rodriguez Cabrillo High School that is integrated with real-world experiences through site visits and workshops presented by industry professionals. In partnership with the Port of Long Beach (POLB), the Long Beach Unified School District, and CITT, this program features workshops and activities that incorporate concepts across disciplines such as mathematics, social sciences, and humanities, while developing cultural competencies for a global economy. CITT's role is in industry coordination and in providing technical assistance to AGL faculty. CITT contributed to the development and support of the following AGL milestones and events:

 Development of the AGL Advisory Board: The AGL Advisory Board supports the mission of the Academy by providing feedback and input to help teachers collaborate across subject areas and develop relevant curriculum and work-based learning activities. Board Members also participate in career workshops and mentorship programs.

^{*}Reflects enrollment in different modules for the same student. Only students completing all modules including a capstone project are awarded the Professional Designation and are included in student completion numbers.

- Curriculum Support: As part of the support of the AGL program, CITT works with teachers
 to develop grade-appropriate curriculum for students. Through guided curriculum
 support, CITT helps the instructors develop integrated, grade-level projects that
 correspond to the course material they are learning. CITT also brokers connections with
 industry contacts to facilitate mentoring relationships with students and provides
 additional consulting on special topics.
- IANA Expo: The Intermodal Association of North America (IANA) presents a supply chain expo that educates and connects the intermodal industry by providing information and networking opportunities. AGL students learn the relationship between customers, partners and suppliers and network with industry professionals in attendance. The IANA conference was held September 16-18, 2018 in Long Beach, CA.
- Transpacific Maritime Conference (TPM) Conference: The Journal of Commerce's (JOC)
 annual TPM Conference brings together the trans-Pacific and global container shipping
 and logistics communities. This conference provides AGL students the chance to network
 with international logistics professionals from North America, Europe and Asia. The TPM
 Conference was held March 3-6, 2019.
- CITT Research Assistants GIS Presentation: Four research assistants from CITT -- Glen Shepherd, Benjamin Olson, Gulben Kaplan, and Kyle Chin -- visited AGL in December of 2018 to give a presentation on Geographic Information Systems (GIS). They were accompanied by CITT staff members Angeli Logan, Director of Trade and Transportation Programs; Dr. Thomas O'Brien, Executive Director; and Dr. Tyler Reeb, Director of Research and Workforce Development.
- CSULB Tour: Students gained valuable insights about career pathways in logistics and supply chain management as part of a tour of the California State University, Long Beach campus on April 10, 2019. CITT facilitated the event and hosted a panel discussion featuring current CSULB students and recent graduates.
- Introduction to Supply Chain Management video: CITT developed a short video introducing students to supply chain management for use in class: https://youtu.be/ 7U2fqkCB3pc
- Harbor Transportation Club (HTC): This annual meeting by the HTC is structured to review key events in the past year and opportunities for the upcoming year. At this event, HTC also announces the recipient of the \$500 HTC scholarship award for an AGL student.

METRANS Grant Supported Education Programs

Geospatial Tech Education: This project involves coordinating a five-year Train-the-Trainer GIS Initiative with CITT in partnership with Pima Community College to promote skills required for careers using geospatial technology and modelling. Enrolled trainers will receive hands-on instruction to help

them integrate GIS into the courses they teach. Grant Amount: \$ 110,291. Period of Performance 11/30/16 to 6/30/20.

Soft Skills Webinar: CITT is developing a curriculum called "Driving the Wheels of Success" that will help high school and community college instructors integrate transportation workforce soft skills into their courses. CITT will launch this curriculum with a webinar that features best practices from GIS, commercial driver's license (CDL) and supply chain and logistics professionals on specific targeted soft skills that are essential for success in those respective transportation-related fields. Grant Amount: \$ 27,784. Period of Performance: 11/30/16 to 6/30/20.

Commercial Driving License Training: CITT is developing a webinar series that presents best practices in migrating CDL training to online formats. Those webinars will present ways to eliminate barriers to entry for underserved populations: women, veterans, tribal communities and nonnative English speakers. Grant Amount: \$ 23,248. Period of Performance: 11/30/16 to 6/30/20.

Virtual Logistics Peer Exchange: Using its extensive experience in the development of both classroom-based and online logistics programs for audiences that include regional and statewide planning organizations, METRANS/CSULB-CITT hosts two virtual peer exchanges each year to allow municipal and MPO-level planners to share best practices on incorporating freight and logistics into local and regional plans. The peer exchanges will include content specific to the regional audience (e.g. cross-border trade logistics in Arizona and California) and will incorporate existing distance-based teaching tools developed by CITT and offer access to leading industry practitioners who will serve as virtual mentors. Grant Amount: \$ 25,015. Period of Performance: 11/30/16 to 6/30/20.

Battle for the Curb

In conjunction with the South Bay Cities Council of Governments (SBCOG) and the Volvo Research and Education Foundations, Metrofreight hosted a free, three-day course on urban freight on January 24 and 31, and February 7, 2019. The curriculum was created to help participants develop an understanding of urban freight logistics and related topics typically overlooked in traditional planning curricula. The course included a walking audit at the former Toyota headquarters to provide a spatial understanding of the study area. Participants were eligible to receive APA Continuing Education credits upon completion of the series. Speakers at the event included:

- Fran Fulton, Economic Development Manager for the City of Torrance
- Sue Dexter, former Toyota Employee, Urban Planning Ph.D. student, USC Price School of Public Policy
- Dr. Tom O'Brien, Executive Director of CITT

California State University Transportation Consortium (CSUTC) Grants

SB-1 Funding: California's Senate Bill 1 (SB 1), signed into law in April of 2017, is a comprehensive transportation funding package designed to address a wide range of transportation-related needs across California. As part of SB 1, annual appropriations of up to \$2 million are available to the CSU for the purpose of conducting transportation research and transportation-related workforce education,

training and development. The Mineta Transportation Institute (MTI) at San José State University was selected to lead the California State University Transportation Consortium (CSUTC).

Southern California Regional Transit Training Consortium (SCRTTC) Needs Assessment and Gap Analysis Project: As SCRTTC's first university partner, CITT will develop the relevant structures for transit agencies to determine workforce needs and, in turn, effectively and safely deploy new training to California's transit workforce with a focus on environmental and clean technology. Grant Amount: \$25,000. Period of Performance: 1/1/19 to 12/31/19.

Online training for EV Transit Bus Safety Awareness and Familiarization: This course provides a general understanding of safety protocols when working around all-electric high voltage (HV) transit vehicles. Two syllabi were developed for this course: an instructor-led version and an eLearning online version for Train-the-Trainer sessions (T-t-T). This training is being deployed at institutions that are part of the Southern California Regional Transit Training Consortium (SCRTTC). Instructors for the T-t-T course with Proterra were hosted at Foothill Transit's Arcadia facility on November 2, 2018. Ten (10) participants representing 5 transit agencies, 2 colleges and 1 private industry partner attended.

Southern California Regional Workforce Development Needs Assessment for the Transportation and Supply Chain Industry Sectors: This research will identify middle-skill workforce competencies with a focus on IT and develop career pathway models using a workforce/apprenticeship intermediary infrastructure. This project will encompass end-to-end (port to warehouse) workforce requirements from the Ports of Long Beach and Los Angeles to the Inland Empire. Grant Amount: \$75,000. Period of Performance: 5/01/19 to 4/30/20.

Southwest Workforce Transportation Center Education Initiatives

Los Angeles Trade Technical College GIS Pilot Course: In the spring and fall of 2018, CITT partnered with The Los Angeles Trade Technical College (LATTC) to offer a pilot transportation planning curriculum to demonstrate how students can pursue jobs in this field. This career pathway demonstration program is offered as part of a for-credit LATTC course and introduced students to fundamental principles and concepts that reinforce the practice of geographic analysis with Geographic Information Systems (GIS), including computer representation of geographic data, vector and raster data models, map projections, coordinate systems, spatial analysis, and map design. Students who completed the course earned transferable credits to UC and CSU schools. During academic year 2018-19, CITT continued working with LATTC to establish the course as a fully articulated class. The course was finalized as an official LATTC class on September 5, 2019, under the heading of "Introduction to Geographic Information Systems (GIS) For Transportation" and will be offered in Spring of 2020. This course received the American Planning Association – Los Angeles (APA LA) Opportunity and Empowerment Award in June of 2019.

Trucking Peer Exchange: In order to address the workforce shortage of heavy and tractor-trailer truck drivers, CITT will conduct outreach to underserved populations (e.g., tribal populations, women, and veterans), and develop an accessible career pipeline through accredited community colleges and top trucking companies in the region.

Tribal Training Initiative: This project will foster new career pipelines for both urban and rural youth and collect data related to road safety, transportation, and cultural metrics within tribal lands throughout eight states in the United States southwestern region. GIS-specific skills will be identified and subsequent training programs will be developed for urban and rural tribal youth.

21st Century Apprenticeships: SWTWC identified internship programs as a best practice for recruiting, retaining, and training the transportation workplace. SWTWC has found that those who participate in apprenticeship programs tend to earn more throughout the course of their career. In addition, agencies that offer apprenticeships economize on recruitment and training costs and can directly address critical skill gaps in their workforce. Thus, SWTWC will host a series of webinars primarily targeted at transportation agencies to help them create and implement apprenticeship programs. These webinars will double as resources for job-seekers to learn about opportunities, connect with industry leaders, and develop strategies for finding an apprenticeship.

GIS Training: Based on community and stakeholder feedback and labor market analyses, SWTWC concluded that the formation of a GIS Training Initiative for tribal populations will have both educational and economic merit by fostering new career pipelines for both urban and rural youth and collecting data related to road safety, transportation, and cultural metrics within tribal lands. This action plan focuses on developing a training program that engages tribal populations interested in a career with Geographic Information Systems (GIS) skills that can be used to build a cadre of skilled GIS professionals in tribal populations. Additionally, this action plan will result in data collection opportunities for road safety, transportation, and cultural metrics within regions of interest.

Supply Chain Diversity: Supply chain professionals regularly note that it is difficult to attract and retain employees in the supply chain industry. Further research efforts from SWTWC's labor market analyses shows that this is especially true for transportation, storage, and distribution managers; logisticians; and freight, stock, and materials movers and handlers. To help overcome this challenge, SWTWC will engage underserved populations to identify specific needs and barriers to develop a support system that will increase access for supply chain occupations and increase incentives for transportation employees through partnerships with key supply chain stakeholders.

Trucking: SWTWC's labor market analysis concluded that heavy and tractor-trailer drivers represent the largest gap in the transportation workforce. In order to meet the demand for heavy and tractor-trailer drivers, SWTWC will conduct targeted outreach efforts to non-traditional candidates (e.g., tribal populations, women, and veterans), and develop an accessible career pipeline through accredited community colleges and top trucking companies in the region.

Transportation Career Pathways Portal: SWTWC will develop a new feature to its site www.swtwc.org to provide job seekers (students, displaced/incumbent workers, other targeted populations) with information regarding the competencies, experience, and education needed to qualify for critical occupations within the transportation industry. This portal will provide ways for employers and educators to display credentials, certificates, degree programs, and workplace learning opportunities to enhance career pathways featured on the site. The scope of work for this effort includes: 1. Survey and research existing sites to identify best practices and to avoid duplication of content; 2. Develop structure/content to create a portal featuring four career pathway models; and 3. Develop a marketing plan to promote the web interface to job seekers, employers, and educators. SETWC

Executive Director Dr. Stephanie Ivey and Dr. Tyler Reeb will lead this effort in partnership with the Texas Transportation Institute (TTI).

National Network for the Transportation Workforce (NNTW)

Transportation Planning Professionals Plus (TPP+) is a multi-module program that provides planners with cross-disciplinary competencies through project-based learning featuring GIS. Developed to be piloted through CPIE and CITT, students will earn American Planning Association (APA) continuing education credits (CEUs). Partnering academic institutions include:

- LA Trade Technical College, Pima Community College
- LA Community College District
- CSULB, USC, UCLA, UCI, Cal Poly, CSUN, SDSU

Industry and agency partners include Esri, HNTB, LA Metro, APA, SCAG, ATRE/ATL, South Bay COG and Gateway COG.

RESEARCH

National Transportation Career Pathways Initiative (NTCPI): The overall objective of the NTCPI is to establish, document, and validate the knowledge, skills, abilities, and career pathways for the top occupations within the transportation planning, environment, engineering, safety, and operations disciplines, as forecast over the next 15 years. These results will include discipline-specific plans for the implementation of career pathways in post-secondary training and education institutions nationwide. Collectively, this effort will result in the creation of a user-friendly, practice-ready final report that documents career pathway templates for critical transportation occupations, along with a plan that explains how to implement those templates within technical schools, community colleges, and universities. Grant Amount: \$1,000,000. Period of Performance: 10/24/16 to 9/30/19.

Intelligent Transportation Systems (ITS) Professional Capacity Building (PCB)

The ITS PCB program seeks to enrich the interaction and partnership with academic institutions and programs to address the challenges in keeping pace with educating future transportation professionals about new ITS technologies, as well as to adapt their engineering and related curriculum to provide the multidisciplinary approach required for effective implementation of these solutions. USDOT ITS PCB will engage with the National Network for the Transportation Workforce (NNTW), the 5-regional surface transportation workforce centers created by FHWA, to advance three specific initiatives:

- Creating an Academic Community of Practice to advance ITS PCB workshop action items and help with design and implementation of the Academic Workshops 2019 & 2020;
- Reviewing and updating the ITS PCB Case Studies and adding to them for use in the classroom, and;
- Creating ITS Career Path Profiles and Project Case Studies.

Grant amount: \$112,500. Period of Performance: 10/1/14 to 12/31/19.

Expand Highway Construction Apprenticeships: CITT will research and develop a guide to improve apprenticeship programs in the highway construction industry. CITT will Identify interdisciplinary approaches to construction workforce development by conducting structured interviews with staff from FHWA's Highway Construction Workforce Pilot (HCWP), incorporating a national perspective on

the current state of programs. A comprehensive assessment will identify successful strategies and models, as well as limitations of current pilot programs. Information gathered will be used to develop an Apprenticeship Development Guide for the Highway Construction Workforce Guide to supplement FHWA's #RoadsToYourFuture Playbook. Grant Amount: \$75,000. Period of Performance: 10/1/14 to 12/31/19.

California Energy Commission

Port of Long Beach/California Energy Commission Zero-Emission Vehicle Workforce Development: CITT supported the Port of Long Beach's grant application to the California Energy Commission under GFO-17-604, Electric Vehicle (EV) Ready Communities Challenge Phase I – Blueprint Plan Development. CITT developed the Port Community EV Blueprint that addressed opportunities for the Port of Long Beach to accelerate adoption of zero-emissions equipment and will serve as a model for other California seaports to plan, collaborate, and act to implement their own EV-ready communities. CITT staff presented findings to Port stakeholders in March of 2019. This work aligns with California's Sustainable Freight Action Plan, which CITT is also working to implement. Grant Amount: \$12,000. Period of Performance: 9/24/18 to 9/24/19.

Workforce Development Impacts of the California Sustainable Freight Action Plan: Expanding well-paid trade sector job opportunities for state residents, including those living in disadvantaged communities, will improve the state's overall economic health and support the transition to a sustainable freight transport system. The California Energy Commission is partnering with the Governor's Office of Business and Economic Development (GO-Biz) and CITT to convene working groups with industry stakeholders and the California Workforce Development Board to identify and implement steps to ensure that the existing and future workforce meets the needs of the California sustainable freight transport system and that sufficiently skilled labor is available to meet the needs of an expanding freight-related job market. CITT's research and outreach will result in identifiable career pathways for sustainable freight-related occupations. Grant Amount: \$175,000. Period of Performance: 4/1/17 to 6/30/20.

MetroFreight

Improving Goods-Movement Efficiency with Load-Matching Technology: Load-matching technology for truckers and shippers helps an inefficient and often fragmented local trucking market by eliminating non-revenue-generating trips. There is reason to believe that the market for this kind of service will only grow; however, expansion will depend upon a combination of economic and political factors. The roll-out of load-matching services in Los Angeles will provide useful lessons for their adoption in other locations. To read more about this project, go to https://www.metrans.org/research/improving-goods-movement-efficiency-load-matching-technology Grant Amount: \$ 413,250. Period of Performance: 6/30/17 to 12/31/19.

Legislative Mandates: This research identified the impact of legislative mandates such as California's SB 375 on metropolitan planning organizations (MPOs). Preliminary research built upon assessing the changes in job functions and use of outsourcing to satisfy the Sustainable Communities Strategy (SCS) at MPOs in California. In-depth interviews were conducted with MPO professionals on workforce changes due to SB 375 and other allied regulations. Job screening and real-time skill analysis was

performed using Burning Glass. Findings from this project were published in February of 2019, and can be found here: https://escholarship.org/uc/item/9cr2p19v

Environmental Policy Case Studies: CITT is developing a series of case studies designed to evaluate the impacts of freight-related environmental policies. Building upon earlier METRANS policy evaluations of port-related strategies to reduce congestion, these case studies will assess the potential benefits of programs such as the Southern California Intermodal Gateway (SCIG) and analyze the institutional challenges to program implementation. They will provide context for the broader research agenda of CITT on sustainable freight. In conjunction with the CPIE Advanced Media Production team, CITT will produce brief videos to accompany the Environmental Policy Case Studies.

METRANS UTC

Developing Markets for Zero-Emission Vehicles (ZEVs) in Goods Movement: CSULB will support USC and UC Davis (with USC as the prime awardee) in examining the potential for ZEV or near-ZEV vehicles from both an economic and environmental perspective. The focus will be on heavy duty trucks (HDTs) used in short-haul service, using SCAQMD's current test demonstrations as the vehicle and service types for the investigation. The research will take place in two parts. The first part will analyze potential markets, and the second part will consider incentives for accelerating market penetration. Part 1 research will identify the main segments of the short-haul freight market including, as appropriate, truck trip distances and trip types in different markets; characterize the demand patterns of these markets; estimate the costs of vehicle purchase and operations for the various scenarios; and identify the best potential short-haul markets. Part 2 research will use the results of Part 1 to evaluate alternative policies for promoting ZEV use, including direct subsidies and revenue sources to support them, financial incentives (tax breaks, accelerated depreciation, etc.), and regulatory incentives (i.e., low emissions zones, fleet targets). Evaluation will include stakeholder focus groups as well as economic analysis. Grant Amount: \$ 106,500. Period of Performance: 4/1/17 to 2/28/20.

Southwest Transportation Workforce Center

Workforce Development White Paper: CITT will build upon its successful use of white papers to develop a research agenda focused on educational- and policy-driven approaches to sustainable transportation workforce development in the transit sector. This white paper will also identify the most critical technology transfer gaps in environmental technology facing the transit industry. After identifying those gaps, the white paper will suggest training strategies.

OUTREACH

CITT is continuously implementing effective outreach programs. CITT's State of the Trade and Transportation Industry Town Hall is one of the highest profile events in the goods movement industry in the Los Angeles region. During AY 18-19, CITT staff worked on Town Hall as well as the biennial METRANS International Urban Freight (I-NUF) Conference to be held in October 2019. The Center also works year-round to connect with the university, transportation and trade industry, and the surrounding community through newsletters, podcast series, and the CSULB manifest, which is the online repository for information on industry and employment opportunities.

CITT's State of the Trade and Transportation Industry Town Hall

This year's Town Hall Meeting, "Smart Port of the Future: Economy, Environment, Technology, and Workforce" will be held at the Hotel Maya on October 15, 2019. This year's event will address the future of how we move goods and what this means for our national and regional competitiveness, the livability of our communities, and the opportunities and challenges for the workforce. Technology can contribute to a more efficient and cleaner supply chain, including port and terminal operations, but technology also changes the way goods are moved and the skills needed by the waterfront workforce.

METRANS 7th International Urban Freight (I-NUF) Conference 2019

This biennial event will take place October 15th-19th of 2019 at the Hotel Maya in Long Beach. The event will host scholars and industry experts who will present research that is increasingly relevant as the rise of e-commerce, transformational technology, and other developments influence urban freight movement. CITT is responsible for all logistics related to the conference.

Trade Talks

Dr. Tom O'Brien, Executive Director of the Center for International Trade and Transportation, hosted three additional "Trade Talks," a quarterly video series program. The series examines pertinent issues in the trade sector with both global and local perspectives from industry experts. The series is produced by CPIE's Advanced Media Production team and distributed through the CSU network. Topics of discussion this year include the following:

- The present and future application of Geographic Information Systems (GIS) in transportation planning with Terry Bills, Global Transportation Industry Manager at ESRI (published August 28, 2018);
- The technological shifts in the goods movement industry and the zero-emission goals at the Port of Long Beach, with Mario Cordero, Executive Director of the POLB (published December 6, 2018);
- The impact of trade on regional, state, and national economics with Stephen Cheung, President of the World Trade Center Los Angeles and Executive Vice President of the Los Angeles County Economic Development Corporation (published March 27, 2019); and
- The state of the transportation industry with Fran Inman, Senior Vice President of Majestic Realty (published September 12, 2019).

All "Trade Talks" episodes will be archived on the Beach TV YouTube channel. Episodes of "Trade Talks" can also be viewed here:

https://www.cpie.csulb.edu/CITT/about.aspx?pID=143

ContainerCast

In December of 2018, CITT's podcast series, "ContainerCast," featured a four-part series featuring CITT's Executive Director, Thomas O'Brien; Director of Research and Workforce Development, Tyler Reeb; Director of Trade and Transportation Programs, Angeli Logan; and Career and Technical Education Specialist, Deanna Matsumoto.

Pacific Southwest Region UTC

The second annual Pacific Southwest Region (PSR) Congress took place in Tucson, Arizona on April 9, 2019. This year's theme of automation was highlighted through a site visit to TuSimple, a company

aiming to power the market's first driverless trucks, and through an "Ignite" presentation series designed to quickly highlight research conducted at the eight PSR UTC universities. Ben Olson, CITT Research Coordinator, presented "Geospatial Technology Education" during this Ignite series. Both faculty and student researchers from CITT participated, as well as industry and public agency representatives. METRANS Director Genevieve Giuliano gave the opening remarks for the research events.

SPONSORSHIPS

Harbor Association of Industry and Commerce Legislative Luncheon

The Harbor Association of Industry and Commerce hosts an annual luncheon allowing community members to meet with state representatives and discuss legislative proposals. This December 5, 2018 event was sponsored in part by CITT.

CSCMP SoCal Roundtable with CSCMP Global President, Rick Blasgen

CSCMP Global President Blasgen discussed major supply chain trends, e-commerce, talent, and future technology in CPIE's new building on January 28, 2019. CITT sponsored the event.

California Maritime Leadership Symposium

The California Maritime Leadership Symposium (CMLS), held in February of 2019, was sponsored in part by CITT. This symposium is the premier conference focused on all modes of California's maritime transportation system –ports, vessels, highways, warehousing, and rail –and the intricacies, challenges, and realities of maintaining and growing a viable, healthy, green, and dynamic maritime economy in the 21st century. Now in its 17th year, the Symposium brings together a diverse group of maritime transportation policymakers, industry leaders, academic researchers, and community representatives seeking resolution to the growing challenges facing the industry.

ACT Expo

The Advanced Clean Transportation (ACT) Expo, held in April of 2019, was sponsored in part by CITT. During the four-day event, OEMs, fleets, suppliers, and policymakers demonstrated their commitment to reducing costs and emissions, while driving innovation and sustainability on our roadways. Attendees witnessed several vehicle unveilings and were the first to learn about major technology announcements from leaders in the advanced clean transportation industry. Two CITT staff attended the Expo.

EXP's Oceans of Opportunity Dinner and Scholarship Celebration

EXP – The Opportunity Engine's 19th Annual Scholarship Celebration was held on April 4, 2019, and CITT provided a sponsorship for this event.

LA Area Chamber of Commerce 93rd Annual World Trade Week: Over 800 participants, including two CITT staff members, attended the 93rd Annual World Trade Week Kickoff Breakfast in May of 2019 at the InterContinental Hotel in downtown Los Angeles. The event, with CITT as sponsor, included speakers such as Fedex COO Udo Lange and Mayor Eric Garcetti's newly appointed Deputy Director of International Trade, Nina Hachigian, as well as an industry panel that discussed current competitive challenges and adjustments in global trade.

Events

METRANS 20th Anniversary: METRANS (USC/CSULB) celebrated its 20th anniversary with a reception and dinner on October 4th, 2018 at USC. Participants included 165 industry and agency executive leaders, faculty and students, and community members comprised of high school and workforce development students and union workers from the Port of Long Beach. The keynote speech was delivered by Randell Iwasaki, Executive Director of the Contra Costa Transportation Authority

Port of Los Angeles Tour: CITT Career Technical and Education Specialist Deanna Matsumoto and Program Specialist Sidra Shah, along with research assistants Jenanee Sekar, Gulben Kaplan, Glen Shepherd, and Sneha Jaishankar, toured the Port of Los Angeles in November 2018. The tour, which covered international freight and the day-to-day workings of import-export, gave research assistants an opportunity to see the logistics of international goods movement in action.

3rd Annual Partners Recognition: CITT hosted its 3rd Annual Partners Recognition event at a CSULB Dirtbags baseball game at Blair Field on March 16, 2019.

Women in Transportation (WTS) LA –Update with the Ports

In May of 2019, six GLS students had the opportunity to attend WTS-LA's seminar Update with the Ports, where they attended a panel discussion on current and upcoming projects, innovations, and improvements in Southern California ports. The panel, moderated by Eric Shen, Director of Mid-Pacific Gateway Office, featured the following Port leaders:

- Port of Los Angeles' Deputy Executive Director, Tony Gioiello
- Port of Hueneme's Chief Operating Officer, Christina Birdsey
- Port of Long Beach's Deputy Executive Director, Dr. Noel Hacegaba

Port of Long Beach Tour: As part of the hands-on training, eleven GLS students toured the fully-automated Long Beach Container Terminal at the Port of Long Beach on February 9, 2019. The tour, sponsored by METRANS, exposed students to the role of automation in ports, and the cutting-edge green technology that POLB employs.

Social Media

Social Media sites, e.g. LinkedIn and Facebook, continue to gain membership from industry and the community. CITT directs media and communication efforts of METRANS. The social media figures for METRANS are listed below:

METRANS Facebook likes: Total 439
METRANS Twitter Followers: 346
METRANS Twitter Following: 645
CITT LinkedIn Members: Total 1,168

CITT continued to update CITT's blog site available at https://www.cpie.csulb.edu/citt/blog/blogposts.aspx?pID=125 and Twitter feed (@CSULBCITT).

Blogs

MSGISCI GRADS NAMED FINALISTS IN STORY MAP CONTEST

- STUDENTS EXPERIENCE IANA'S INTERMODAL EXPO
- MSSCM STUDENT RECEIVES SCHOLARSHIP FROM CSCMP
- CSULB ALUMNI AND STUDENTS SHARE CAREER STRATEGIES WITH AGL HIGH SCHOOL STUDENTS
- CSULB AND USC STUDENTS ATTEND WTS-LA PORT DISCUSSION

CITT POLICY AND STEERING COMMITTEE MEMBERS AND ADVISORS

The Center's Policy and Steering Committee (PSC) includes representatives of the stakeholders from the trade and transportation industry. The constitution of the PSC and all CITT management functions are governed by the CITT bylaws. The CITT PSC helps guide the Center's outreach efforts and project activities. Recommendations or concerns from the PSC are implemented throughout the reporting year. The PSC generally meets at the CITT offices on the last Tuesday of every other month. PSC conference calls are held on alternating months.

POLICY AND STEERING COMMITTEE MEMBERS

Chair: Jeet Joshee, Ed.D., AVP for International Education; Dean, CPIE/CSULB

CITT Executive Director: Thomas O'Brien, Ph.D., CITT/CPIE/CSULB

Kerry Cartwright, Director of Goods Movement, Port of Los Angeles

Anastasios G. Chassiakos, Ph.D., Professor, Electrical Engineering, College of Engineering,

California State University, Long Beach

Rich Dines, Marine Clerk, ILWU Local 63

Genevieve Giuliano, Ph.D., Ferraro Chair in Effective Local Government, Sol Price School of

Public Policy and Director, METRANS Center, University of Southern California

Michele Grubbs, Vice President, Pacific Merchant Shipping Association

Mark Hirzel, Assistant Manager Trade Services, American Honda Motor Company

Trini Jimenez, Vice President, Public Affairs, Watson Land Company

Mike Jones, Senior Regional Planner, Southern California Association of Governments

Yatman Kwan, Acting Office Chief, Freight Planning, Caltrans

Steve Lantz, Transportation Director, South Bay Cities Council of Governments

Alan McCorkle, Vice President—West Coast Operations, Yusen Terminals, Inc.

C.J. Nord, C.P.M., Supply Chains for Good

Karen Quintana, President, Los Angeles Customs Brokers and Freight Forwarders

Patty Senecal, Manager, Southern California Region, Western States Petroleum Association

Don Snyder, Director, Trade Development, Port of Long Beach

John Taeleifi, Chief Executive Officer, Pasifica Financial Corp; West Long Beach Community Advocate

Elizabeth Warren, President and CEO, Dialed-In Partners

CITT ADVISORS

Special Advisors:

Marianne Venieris Gastelum, Senior Advisor and External Liaison, CITT, California State University, Long Beach

CITT Advisors:

Ray Familathe, President, Local 13, ILWU

Joe Gasperov, President, Marine Clerks Association, Local 63, ILWU

Monica Gourdine, Associate Division Administrator, California Division, Federal Highway Administration

Daniel Miranda, President, Local 94, ILWU

Eric Shen, Director, Southern California Gateway Office, Maritime Administration, U.S. Department of Transportation

In Memoriam:

Domenick Miretti, Ph.D., (1932-2016)

ILWU Senior Liaison, Ports of Long Beach and Los Angeles, Marine Clerks Association Connie Rivera, (1960-2019)

Government and Community Relations Officer, Alameda Corridor Transportation Authority

CITT STAFF

The Center for International Trade and Transportation (CITT) is part of the College of Professional and International Education (CPIE). The overall management of the CITT is the responsibility of the Executive Director. The list below indicates staff who are both presently employed at CITT and those who are no longer at CITT, but were employed during the reporting period.

Thomas O'Brien, Ph.D., Executive Director

Angeli Logan, Director of Trade and Transportation Programs

- *Tyler Reeb, Ph.D., Director of Research and Workforce Development
- *Alix Traver, CITT/METRANS Project Coordinator
- *Sue Schildt, Ph.D., METRANS Project Administrator
- *Deanna Matsumoto, Career Technical and Education (CTE) Specialist
- *Marisa Eide, Assistant to the Executive Director

Sidra Shah, Program Specialist (no longer at CITT)

- *Royce De Rivera, Assistant METRANS Project Administrator (no longer at CITT)
- *Scott Jakovich, NTCPI Project Coordinator
- *Marianne Gastelum, Senior Advisor & External Liaison
- *Kevin Argueta, Administrative Support Assistant (no longer at CITT)
- *Sneha Jaishankar, Administrative Support Assistant (no longer at CITT)
- *Ben Olson, Research and GIS Coordinator

Students on CITT Payroll as Fellow, Assistant, Internships, Volunteers during AY 2018-2019

^{*}Denotes Foundation employee

Student Name	Position	Major	Undergrad/Grad
Jesse Brouillette	Research Assistant	Supply Chain Management	Undergrad
Nick Roy	Research Assistant	Econ, Math	Undergrad
Naomi Suzuki	Research Assistant	Criminal Justice	Grad
Eleni Hala	Research Assistant	Business Management	Undergrad
Meghan Orr	Research Assistant	Social Work	Grad
Alehxys Pich	Research Assistant	International Business	Undergrad
Jacob Siciliano	Research Assistant	Film	Undergrad
Caitlin Mace	Research Assistant	Philosophy	Grad
Anete Brinke	Research Assistant	Economics	Grad
Blake Hannagan	Research Assistant	Economics	Undergrad
Diana Sanchez	Research Assistant	Economics	Undergrad
Glen Shephard	Research Assistant	Geography (GIS)	Grad
Gulben Kaplan	Research Assistant	Geography (GIS)	Grad
Jananee Sekar	Research Assistant	Business Administration	Grad
Kevin Argueta	Research Assistant	Political Science	Undergrad
Kyle Chin	Research Assistant	Geography (GIS)	Grad
Miles Winston	Research Assistant	MSSCM	Grad
Rachel Brownell	Research Assistant	English	Grad
Sneha Jaishankar	Research Assistant	MSSCM	Grad
Ben Olson	Research Assistant	Geography (GIS)	Grad
Stacey Park	Research Assistant	English	Grad
Erik Oehrstrom	Research Assistant	Journalism	Undergrad
Rex Pan	Research Assistant	MSSCM	Grad
Omolayo Ojo	Research Assistant	MSSCM	Grad
Nilesh Metkar	Research Assistant	MSSCM	Grad
Bhagyashree Shetye	Research Assistant	MSSCM	Grad
Omar Lopez	Office Assistant	Sociology	Undergrad

FACULTY MEMBERS INVOLVED IN CITT RESEARCH, SCHOLARLY, AND CREATIVE ACTIVITIES

Dr. James Miles, Psychology Department, Evaluation Of Autonomous Vehicles And Smart Technology For Impact On Traffic Safety And Congestion

This project proposes an analysis of human factors and driver error when considering the design of autonomous vehicles and the infrastructures that support them. The research will begin by reviewing existing research on operator inattention, with regard to situation awareness and trust in automation, to determine the potential impact on driver performance and subsequent traffic crash risk and surprise congestion. The project will develop and run a driving simulation to identify driver performance costs as the level of automation increases from manual driving to fully automated travel to assess the extent to which driver performance is affected by situation awareness, workload, trust in automation and inattention. With the results from the simulation, the project will model the effects identified on potential changes in vehicle crash rates and surprise traffic congestion associated with negative automation effects. The conclusive reports will contribute vital information for the design of autonomous vehicles and the necessary infrastructures. The PIs will present results at conferences and publish in journals related to human factors and traffic safety.

OTHER CENTER MILESTONES

APA Continuing Education Unit accreditation

The American Planning Association (APA) has approved CITT, through METRANS Transportation Center, as a Certificate Maintenance (CM) Provider. CM providers are educational organizations approved by the American Institute of Certified Planners (AICP) to provide continuing education activities and events for CM credits. The CM program links AICP-certified planners to education and training opportunities so they may earn mandatory credits and remain current with the latest trends, technologies, and best practices. CM Provider designation was approved in January 2019.

CUTC Membership

The Council of University Transportation Centers (CUTC) was established in 1979 by the major transportation research centers and institutes in the United States. CUTC provides a forum for the Universities and Centers to interact collectively with government and industry. CUTC's mission is to promote university research, education, workforce development, and technology transfer as essential to the nation's transportation system. In July of 2018, CITT Executive Director Dr. Tom O'Brien was elected CUTC Vice President. In June of 2019, CITT was granted membership to the CUTC and Dr. Tom O'Brien was elected President.

CURRENT PROFESSIONAL SERVICE AND ORGANIZATIONAL AFFILIATIONS FOR DR. THOMAS O'BRIEN

- President, Council of University Transportation Centers (2019)
- Member, Board of Directors, Harbor Association of Industry and Commerce (2018)
- Member, Board of Advisors, Eno Center for Transportation (2018)
- Member, Advisory Board, National Transit Institute (2018)

- Liaisons Subcommittee Chair, Transportation Research Board Intermodal Freight Transport Committee (2018)
- Member, Transportation Research Board Urban Freight Committee (2018)
- Board of Directors, Los Angeles Transportation Club (2018)
- Director-at-Large, Foreign Trade Association
- Chair, Southern California Regional Transit Training Consortium (2017-2018)
- Education Co-chair, Southern California Roundtable, Council of Supply Chain Management Professionals (2018)
- Vice President, Council of University Transportation Centers (2018)
- Chair, National Center for Supply Chain Technology Education National Visiting Committee (National Science Foundation) (2018)
- Chair, Board of Directors, Southern CA Regional Transit Training Consortium (SCRTTC) (2018)

CURRENT PROFESSIONAL SERVICE AND ORGANIZATIONAL AFFILIATIONS FOR DR. TYLER REEB

- Director of Research and Workforce Development, Center for International Trade and Transportation, California State University, Long Beach, California State University, Long Beach (CSULB) (2015-2018)
- Associate Director, Federal Highway Administration's Southwest Transportation Workforce Center, CSULB (2015-2018)
- Editor, METRANS NEWS, METRANS Transportation Center, University of Southern California (2014-2018)
- Member, METRANS Executive Committee (2018)
- Member, Transportation Research Board (TRB) Standing Committee on Native American Transportation Issues (2018)

PUBLIC STATEMENTS AND POSITIONS

International Trade, Tariffs, and Economic Outlooks: Dr. Tyler Reeb was featured in the July 2018 article by Samantha Mehlinger titled "International Trade: Tariff Escalations Cloud Outlook." The article, featuring several leading figures in Long Beach's international trade community, discusses the potential economic fallout that could occur with the Trump Administration's new tariffs. Dr. Reeb discussed the short- and long-term economic forecasts, how tariffs may negatively affect long-term economic development, and the importance of factoring in automation in a rapidly changing workforce.

CITT AWARDS

University Professional and Continuing Education Association (UPCEA) Regional Engagement Award: UPCEA's Regional Engagement Award was presented to CITT for its work on the Port of Long Beach Academy of Global Logistics. The award, presented in October of 2018 at the West Region Conference in Long Beach, was given for CITT's development of a program with an outstanding mutuallybeneficial exchange of knowledge and resources between an UPCEA member institution and local communities.

UPCEA National Engagement Award: UPCEA presented its National Engagement Award to CITT for the Port of Long Beach Academy of Global Logistics, citing the program's outstanding work in creating community and business engagement. The award was presented at the UPCEA Annual Conference in March of 2019, in Seattle, WA.

APA LA (American Planning Association – Los Angeles) Opportunity and Empowerment Award: On June 20, 2019, CITT was presented the APA LA Opportunity and Empowerment Award for work on the Metropolitan Access Planning Systems Pilot Course available to students at the Los Angeles Trade and Technical College (LATTC). This course was created to address the need to broaden the demographic pool of future transportation planners and to equip students with data-driven strategies to analyze transportation planning challenges through Geographic Information Systems.

CITT INSTRUCTOR AWARDS AND RECOGNITION

The George Marshall Instructor Award for outstanding GLS instructor was awarded to Kevin Turner, Executive Managing Director, Cushman and Wakefield, and Bob Rippel, President of RJ Learning Group.

The Bill Wisener Distinguished Service award, presented to a CITT instructor for contributions to CITT students and programs, was awarded to Cameron Roberts, a customs broker and partner in the law firm of Roberts and Kehagiaras, LLP.

The Carolyn Martin Outstanding MTOP Award was awarded to Charlie Doucette, Director of Operations at Long Beach Container Terminals LLC (LBCT).

CITT STUDENT AWARDS AND RECOGNITION

SCAG Story Map Competition: Research Assistants from CITT were the winners of the 2019 Southern California Association of Government's (SCAG) GIS Story Map Student Showcase. Kyle Chin, Gulben Kaplan, and Glen Shepherd were all current students of CSULB's GIS program and research assistants and at CITT at the time they were awarded the prize. Their story map, "Digital Freight Matching Technology and the Role of GIS," illustrates the consequences of traffic congestion caused by trucking in LA County and introduces how Digital Freight Matching (DFM) could serve as a potential solution. Traditionally, truckers have space available in their trucks and find it difficult to market that space in real time, so many of the trucks that are on the roads are either empty or partially full. Click here to view their story map: https://csulb.maps.arcgis.com

Scholarships: Students associated with CITT programs were awarded \$38,900 in scholarships for the 2018-2019 academic year from numerous industry associations and organizations:

- Carina Lam and Esmeralda Agredano-Salazar were the first two IANA Scholarship recipients at CSULB, IANA's newest award school.
- The Harbor Transportation Club awarded \$500 to AGL student Seraitgai Alo.
- The Harbor Transportation Club together with Marianne Venieries awarded \$2,550 to GLS student Jonathan Salazar.
- The Los Angeles Transportation Club Awarded GLS students Leidy Garcia and Jaturon Sompramotjit with \$2,650 scholarships each.
- The Port of Long Beach awarded \$15,000 in scholarships to students in the MSSCM program.
 - Morgan Foldesi, \$5,000
 - o David Palacio, \$5,000
 - Jeremy Pfaff, \$5,000
- Kevin Turner, GLS graduate and GLS Instructor, awarded \$500 to GLS student Loi Truong Thai.
- The Richard Hollingsworth Professional Development Scholarship (\$3,700) went to GLS student Kimberly Vasquez.
- The Container and Intermodal Institute awarded three scholarships for a total of \$9,000 to students in MSSCM programs during the CONNIE Awards held on Sept. 18, 2018.
 - Kevin Garrity: \$2,000 MSSCMCII
 - Samantha Ngyen: \$2,000 MSSCMCII
 - Jeremiah Pfaff: \$2,000 MSSCMCII
 - Morgan Foldesi: \$1,000 MSSCMCII (Sponsored by Direct Chassis Link)
 - Berl Unver: \$1,000 GLSCII (Sponsored by POLB)
 - o Esmerelda Agredano Salazar: \$1,000 GLSCII (Sponsored by SSA Marine)
- MSSCM student Evelyn Park was selected for the WTS Scholarship in the amount of \$3000. http://www.wtsinternational.org/losangeles//wts-la-directors%e2%80%99-scholarship-realizingyour-dream%e2%80%a6and-paying-for-it/
- MSSCM student Vo Chau was awarded \$2,000 by the Council of Supply Chain Management.
- AGL student Edgar Montes was awarded a scholarship presented by the Port of Los Angeles at the 2019 World Trade Week.

EXTENT OF STUDENT AND FACULTY PARTICIPATION FROM OTHER CALIFORNIA STATE OR OTHER UNIVERSITIES

CSULB has many partnerships through METRANS, which requires on-going collaboration with students and faculty from institutions in our various consortia. These partnerships are coordinated through the various research initiatives sponsored by METRANS, including:

Pacific Southwest Region 9 University Transportation Center (PSR-UTC)

- Northern Arizona University
- Pima Community College
- University of California, Davis
- University of California, Irvine

- University of California, Los Angeles
- University of Hawaii

Metrofreight

- METRANS Transportation Center at University of Southern California
- University Transportation Research Center (UTRC) housed at City College of New York
- French Institute of Science and Technology for Transport, Development and Networks (IFFSTAR)
 University of Paris-Est, in Paris, France
- Korean Transportation Institute, in Seoul, Korea

Southwest Transportation Workforce Center (SWTWC)

- METRANS Transportation Center at University of Southern California
- Texas A&M University Transportation Institute

National Center for Sustainable Transportation (NCST)

- The Institute of Transportation Studies at the University of California, Davis (ITS-Davis)
- University of Southern California
- University of California, Riverside
- Georgia Institute of Technology
- University of Vermont

National Network for the Transportation Workforce (NNTW)

As part of their membership in the SWTWC, CITT is part of a wide network of regional transportation workforce centers funded by the Federal Highway Administration. Each of the centers is dedicated to the development of the transportation workforce as well as certain disciplines unique to each center. The five centers are as follows:

- West Region Transportation Workforce Center (WRTWC) based at Montana State University
- Midwest Transportation Workforce Center (MTWC) based at the University of Wisconsin
- Northeast Transportation Workforce Center (NETWC) based at the University of Vermont
- Southeast Transportation Workforce Center (SETWC) based at University of Memphis
- Southwest Transportation Workforce Center (SWTWC) based at California State University, Long Beach.

EXTENT OF PARTICIPATION BY INDUSTRY AND NON-GOVERNMENTAL ORGANIZATIONS

All GLS and MTOP instructors represent industry leading organizations. The complete GLS roster can be found at https://www.ccpe.csulb.edu/continuinged/course_listing/programdescription.aspx?
https://www.ccpe.csulb.edu/continuinged/course_listing/programdescription.aspx?ProgramID=1
https://www.ccpe.csulb.edu/continuinged/course_listing/programdescription.aspx?ProgramID=1</

SCHOLARLY ACHIEVEMENTS CONSISTENT WITH CITT MISSION

A) PUBLICATIONS DEVELOPED BY CITT

Empowering the New Mobility Workforce: CITT Director of Research and Workforce Development and SWTWC Associate Director, Dr. Tyler Reeb, released his new publication, Empowering the New Mobility Workforce: Educating, Training, and Inspiring Future Transportation Professionals, with the publisher Elsevier in June of 2019. The book addresses major challenges impacting the field of transportation workforce development, including the demographic changes among the user population, the future workforce, lack of career awareness and competencies needed in the field, emerging technologies, and increasing and changing demands on transportation agencies. Featuring chapters by national leaders in transportation workforce development, this book seeks to build a case that transportation workforce development should be prioritized as a pressing public policy issue. The link between a well-prepared transportation workforce and an efficient transportation system promotes a healthy economy.

METRANS News: METRANS News is an eight-page newsletter and serves as the official newsletter of the METRANS Transportation Center. It features research, student awards and activities, new program initiatives, and summaries of events. It is distributed to University Transportation Centers, faculty, and industry stakeholders. Three issues were distributed in 2018-19 and are available in print and online at: https://www.metrans.org/newsletters-0 CITT Director of Research and Workforce, Dr. Tyler Reeb, serves as the METRANS News editor.

CITT website: The CITT website (https://www.cpie.csulb.edu/citt/) is continually updated to ensure that it is a reliable source of information.

METRANS website: CITT manages the METRANS website (https://www.metrans.org/). During 2018-19, CITT updated the website and it is currently under construction. The METRANS website is a central portal for information on METRANS and CITT's programs including the National Center for Sustainable Transportation, the MetroFreight Volvo Center, and the Southwest Transportation Workforce Center. All research reports generated by CSULB faculty using METRANS funding are available at metrans.org.

B) PRESENTATIONS/SEMINARS/WORKSHOPS PRESENTED BY CITT

SoCal Goods Movement Forum: Industry and public sector leaders convened at the Connect SoCal Goods Movement Forum, hosted by the Southern California Association of Governments (SCAG), on March 25, 2019, to discuss trade, workforce development, industrial land use, and the competitive regional freight landscape. Executive Director of CITT, Dr. Thomas O'Brien, presented on workforce development. In his presentation titled, "Existing and Future Challenges for Regional Freight Workforce Development," Dr. O'Brien addressed issues related to available educational pathways, emerging freight-related technologies, and high school graduation rates in Los Angeles County. Apprenticeship programs were a point of discussion between Dr. O'Brien and industry professionals.

The discussion focused on the potential benefits and barriers of apprenticeship programs, as well as what would constitute an ideal apprenticeship program.

Workforce of the Future: Educating and Retraining the Freight Industry Webinar: *Dr. Thomas O'Brien, Director of CITT, and Angeli Logan, Director of Trade and Transportation programs, conducted a webinar on Tuesday, August 28, 2018 that explored the future of freight education.*O'Brien and Logan focused on developing a talent pipeline starting in primary and secondary education (K12) and continuing through university programs, highlighting the AGL program at Cabrillo High School. The webinar provided information for the K12, community college, and university communities about how to support the freight industry. The webinar was organized by the Transportation Research Board (TRB) Standing Committee on Intermodal Freight Transport. 82 participants attended this webinar.

Empowering the New Mobility Workforce: Learning from Past Transformations Webinar:

This webinar was based in part on Dr. Tyler Reeb's recent publication, Empowering the New Mobility Workforce. 100 participants attended this webinar. Speakers for this webinar included:

- Tyler Reeb, PhD Director of Research and Workforce Development, Center for International Trade & Transportation
- Carol Zabin, PhD Director, Green Economy Program, UC Berkeley
- Austin Brown, PhD Executive Director, Policy Institute for Energy, Environment, and the Economy, UC Davis

Working and Living in a Port City: This seminar series, offered through CITT, consists of three courses that are designed to give students a broader perspective on the role of the ports and the value of international trade in our communities.

Seminar A, Ports: Local actors and Global Trade was held on October 30th, 2018. There were six attendees.

Seminar B, Ports: Gateway to International Trade was held on November 1st, 2018. There were seven attendees.

Seminar C, Careers: The Key to Success is an Educated and Skilled Workforce was held on November 6th, 2018. There were eight attendees.

Workforce Development Seminar: This seminar, held June 25-27, 2019 at Long Beach City College, focused on the future of the maritime workforce in the face of technical advancements. Port jobs are becoming more highly skilled and require specific technical training. CITT staff presented on workforce development:

- "Developing the Workforce Pipeline: Case Studies," Angeli Logan, Director of Trade and Transportation Programs
- "Empowering the New Mobility Workforce," Dr. Tyler Reeb, Director of Research and Workforce Development
- "Resources to Support Successful Apprenticeship Program Development," Deanna Matsumoto,
 Education and Workforce Development Analyst

Transportation Research Board Panel: The Transportation Research Board's 98th Annual Meeting was held January 13-17, 2019 in Washington, D.C. The meeting program covered all transportation modes, with more than 5,000 presentations in nearly 800 sessions and workshops, addressing topics of

interest to policy makers, administrators, practitioners, researchers, and representatives of government, industry, and academic institutions. CITT Executive Director Dr. Tom O'Brien presented on "The Future of Intermodal Freight Education," and Director of Research and Workforce Development Dr. Tyler Reeb presented "Issues of Employability in the Transportation Workforce –Transferability and Globalization Issues."

Port Authorities Spring Conference: Dr. Thomas O'Brien, Executive Director of CITT, was featured as a speaker at the American Association of Port Authorities (AAPA) 2019 Spring Conference. Dr. O'Brien presented on "Addressing Future Needs Through Workforce Development" with Kenneth Evans, President of Lamar University in Beaumont, Texas. The session was moderated by Noel Hacegaba, Deputy Executive Director of Administration and Operations, Port of Long Beach.

ITS Academic Workshop: The Department of Transportation's Volpe Center hosts annual workshops with faculty from universities, community colleges, and technical institutions, as well as public, private, and professional organization representatives. The goal is to incorporate ITS education into school curricula and to gather vital feedback for the ITS Joint Program Office to develop new tools to advance this training and education. In March 2019, Dr. Tyler Reeb, Director of Research and Workforce Development at CITT, presented "Best Practices in Career Development Addressing Transformational Technology." The workshop was held in Tampa, Florida.

Ideas Festival Workshop: Purdue Policy Research Institute hosted a four-part workshop series as part of the university's 150th anniversary. The February 7, 2019 workshop titled "Connected and Autonomous Transportation Vehicles Workshop: Workforce Impacts" featured Dr. Tyler Reeb, Director of Research and Workforce Development at CITT, as a panelist. The panel discussed the role of Connected and Autonomous Transportation Vehicles (CATV) in American economics and society —how it will impact transportation systems, urban planning and infrastructure, citizen safety, data privacy, cyber-security, and the industrial base.

Pacific Southwest Region UTC: The second annual Pacific Southwest Region (PSR) Congress took place in Tucson, Arizona on April 9, 2019. This year's theme of automation was highlighted through a site visit to TuSimple, a software company aiming to power the market's first driverless trucks, and through an "Ignite" presentation series designed to quickly highlight research conducted at the eight PSR UTC universities. Ben Olson, CITT Research Coordinator, presented "Geospatial Technology Education" during this Ignite series

CITT Chassis Research: Dr. O'Brien has assessed the potential benefits of the port-wide chassis pools at the Ports of Los Angeles and Long Beach, incentives for truckers, terminal operators, and ocean carriers to take part in shared equipment management strategies:

Chassis shortages affect supply-chain efficiency as they limit the volume of containers moving through a port. In the past 20 years, the ports of Los Angeles and Long Beach have faced unique chassis management challenges due to the state government's emphasis on reducing freight emissions and congestion and changing industry approaches met by stakeholders across the supply-chain. This paper studies the evolving management practices of chassis in both the Los Angeles and Long Beach ports by documenting the stakeholder collaboration process. Information on chassis practices in other parts of the United States, as well as various

theories based on port-collaboration case studies are provided to help frame the methodology. The study of chassis management at the ports of Los Angeles and Long Beach includes the following steps: (1) Conducting a literature review to perform inductive research; (2) Analyzing the problem by visualizing chassis movement; (3) Interviewing stakeholders to obtain feedback on chassis management practices; and (4) Creating reports to aid future research. Conducting research through this process reveals that chassis management has significant implications for planning and for supply-chain optimization. Not only does chassis management affect the local supply-chain, but it can also affect operations in different parts of the US. Chassis repositioning issues are an example of the port-supply chain having far-reaching effects, and so the implications are great in that they apply to both the government and supply chain context and can also be applied to other non-chassis related issues as well.

This report has been submitted to the TRB for presentation.

RESEARCH CONSISTENCY WITH ACADEMIC STANDARDS AND LEGAL CONFORMITY

CITT's federal funding through the METRANS Transportation Center for research includes a requirement that PIs publish in peer-reviewed journals and at academic conferences. Awarding of research funding is dependent upon established success in meeting these goals, or in the case of junior faculty, academic promise and potential

SOURCES AND AMOUNTS OF CITT INCOME

A) GRANTS, ENDOWMENTS, CONTRACTS AND DONATIONS

CITT received grants, contracts, and donations for its education, research, and outreach activities totaling \$794,446.

CITT continues to manage four endowments established in the College of Professional and International Education for Students in CITT-related credit and non-credit programs. Those endowments are:

- Los Angeles Transportation Club,
- Marianne Venieris Harbor Transportation Club Endowment Scholarship Fund,
- Richard Hollingsworth Fund, and
- Harbor Association for Industry and Commerce Endowment.

CITT is home to four endowments that were established in the College of Professional and International Education -- the Hollingswoth Endowed Scholarship, the Los Angeles Transportation

Endowed Award, the Marianne Venieris/Harbor Transportation Club Endowment, and the HAIC Endowment -- totaling \$173,815.75.

Fund	Begin	Revenue	Expense	Balance
Hollingsworth Endowed Scholarship	\$ 44,954.91	\$ 1,634.53	\$ (5,575.15)	\$ 41,014.29
LA Trans Club Endowed Award	\$ 90,955.13	\$ 3,270.09	\$ (8,988.00)	\$ 85,237.22
Marianne Venieris / HTC Endowment	\$ 34,003.81	\$ 1,256.57	\$ (2,550.81)	\$ 32,709.57
HAIC Endowment	\$ 14,501.56	\$ 353.11	\$ -	\$ 14,854.67
TOTAL	\$ 184,415.41	\$ 6,514.30	\$ (17,113.96)	\$ 173,815.75

CITT students were awarded \$38,900 in scholarships for the 2018-2019 academic year from numerous industry associations and organizations:

- The Harbor Transportation Club awarded \$500 to AGL student Seraitgai Alo
- The Harbor Transportation Club together with Marianne Venieries awarded \$2,550 to GLS student Jonathan Salazar.
- The Los Angeles Transportation Club Awarded GLS students Leidy Garcia and Jaturon Sompramotjit with \$2650 scholarships each.
- The Port of Long Beach awarded \$15,000 in scholarships to students in the MSSCM program.
 - o Morgan Foldesi, \$5,000
 - o David Palacio, \$5,000
 - Jeremy Pfaff, \$5,000
- Kevin Turner, GLS graduate and GLS Instructor, awarded \$500 to GLS student Loi Truong Thai.
- CITT's Richard Hollingsworth Professional Development Scholarship awarded \$3700 to GLS students Kimberly Vasquez.
- The Container and Intermodal Institute awarded three scholarships for a total of \$9000 to students in MSSCM programs during the CONNIE Awards held on Sept. 18, 2018.
 - Kevin Garrity: \$2,000 MSSCMCII
 - Samantha Ngyen: \$2,000 MSSCMCII
 - Jeremiah Pfaff: \$2,000 MSSCMCII
 - Morgan Foldesi: \$1,000 MSSCMCII (Sponsored by Direct Chassis Link)
 - Berl Unver: \$1,000 GLSCII (Sponsored by POLB)
 - Esmerelda Agredano Salazar: \$1,000 GLSCII (Sponsored by SSA Marine)
- MSSCM Student Evelyn Park was selected for the WTS Scholarship in the amount of \$3000.
 http://www.wtsinternational.org/losangeles//wts-la-directors%e2%80%99-scholarship-realizingyour-dream%e2%80%a6and-paying-for-it/
- MSSCM student Vo Chau was awarded \$2,000 by the Council of Supply Chain Management.

 Carina Lam and Esmeralda Agredano-Salazar were the first two IANA Scholarship recipients at CSULB, IANA's newest award school.

SPACE DESCRIPTION AND AMOUNT OCCUPIED

Since July 2016, CITT has been in the CSULB Research Foundation Building, 6300 State University Drive. CITT is now housed in Suite 255, part of Suite 104, and since September 2018, in Suite 109. The main office, in Suite 255, is approximately 1,663 square feet that includes 100 square feet of an outside patio and 100 square feet of a storage room and partial kitchen. Suite 255 houses seven permanent employees, one part-time employee, and one student assistant. There is a small area that provides two chairs for visitors. There are four cubicles in Suite 104 that house as many as nine research assistants. The space added in September 2018 in Suite 109 is set up with two cubicles for key part-time employees and two research assistant mini-cubicles designated for our research assistants that are GIS specialists. The furniture, computers, and the painting of this space were funded in total with CITT funds.

ACQUISITION OF EQUIPMENT OR TANGIBLE ASSETS VALUED OVER \$5,000

There are no assets to be reported.

MINUTES OF CITT POLICY AND STEERING COMMITTEE MEETINGS

Minutes for the seven CITT Policy and Steering Committee Meetings held during the reporting period are as follows:

CITT Policy and Steering Committee Meeting Conference Call July 24, 2018

CITT Members in attendance: Tom O'Brien, Patty Senecal, Monica Gourdine, Michele Grubbs, Connie Rivera, Steve Lantz, Mike Jones, and Elizabeth Warren

Staff in attendance: Marisa Eide, Alix Traver, and Marianne Gastelum

Tom O'Brien called the meeting to order.

Follow Up on 2018 Town Hall

As discussed at recent meetings, attendance at the last few years for the Town Hall has been low. Tom wanted the group to think about what audience do we want to serve and what do we do best. We need to determine the look and format of our next Town Hall –What we call it and what we do?

Last discussion – there has always been a connection to labor. Tom asked if we are OK doing something that has a focus on business in the community and taking it off campus.

Patty brought up that there are a lot of other business events going on already—it's a crowded arena, such as Pulse of the Port and others. Town Hall has continuously struggled with the focus on labor over the past few years. But she does like that the Town Hall is tied to both universities.

Tom mentioned that we do represent the role of academia and that we have continued to struggle with getting labor involved. He stated that we need to give ourselves permission to do something different.

Steve added that we have an incredible base of academic expertise and a plethora of expertise available across the country. He suggested that we bring together the best of each and focus on the global goods movement.

Elizabeth agreed that she too felt the challenge of getting people to events. Every year they talked about how to get more people, speakers, and what were the hot topics. A lot of organizations are having the same struggle. One that does seem to consistently grow is Mobility 21. She suggested that we look to partnering even broader. Tom noted that partnering is not a stumbling block and that we can do so.

Marianne added that we have two things that we have that are unique—we focus on education and we include labor. She agrees that we might need to part with labor. She does like the idea of tying it in with INUF. The "old" Town Hall format doesn't work anymore. Let's create something new and change out the whole thing.

Tom indicated that in the past meetings the topics of automations and electrification were mentioned. As we did with Point/Counterpoint, we could bring in two speakers with different positions and connect the event to a white paper. As far as the venue, we have been tied to the spring break date as that is when we could get a venue on campus and get free parking. We could also consider finding a different venue off campus or even make it virtual.

Connie questioned that having the event in the evening is a problem and suggested that perhaps we should have the Town Hall during the day.

Tom said that if we tied it to INUF that it might be a challenge to coordinate both events and how could we work it into the INUF schedule—would we do it the night before or something else? Alix added that a lot of people come in the night before INUF starts since we start early on the first day so that could work. Perhaps we could do it late afternoon on the day before. We could make it all happen whatever the decision. She also shared that she has just found out that Hotel Maya is available for INUF in October 2019.

Tom suggested that we could kick off INUF with the morning plenary session serving as the Town Hall. We would open the session then not only to the INUF registrants but also to the community. He talked about the importance of making sure that CITT is front and center of this sponsor of the event that is the middle of a METRANS event.

The committee members supported the idea of combining the Town Hall with INUF.

Tom asked what we should do about the Miretti award--should it be a separate function or keep it tied to Town Hall. He mentioned that we are considering having a smaller event in the spring that would focus on our workforce efforts. Marianne does not think we should present the award at a separate event but that we keep it as part of either the Town Hall or a smaller event.

Steven asked how do we finalize this and do we need to talk to labor? We want to be careful to keep continue our positive relationship with labor. Other members agreed that this smaller event might tie in better with labor. Tom agreed and will follow up with them.

Marianne added that we need to keep the video portion of the Town Hall. Dave Kelly has done such a great job over the years.

Steve brought up the upcoming workshops with Los Angeles Metro. Tom explained that it is a four-part class for urban freight planners and now also for consultants that we have funding from various grants to do and will be working with the South Bay Council of Governments. In the fall we will have four two hour sessions and plan to incorporate ESRIgrams as well as other interactive concepts.

Tom summarized that he will propose a scope of work to add the Town Hall to INUF and also to move forward with a spring event that will include labor. It is a possibility for the spring event that we could even our new CCPE building's meeting area.

CITT Policy and Steering Committee Meeting August 28, 2018

CITT Members in attendance: Tom O'Brien, Connie Rivera, Alan McCorkle, C.J. Nord, Steve Lantz, Don Snyder, Rich Dines, Mark Hirzel, Patty Senecal (by phone)

Staff in attendance: Marisa Eide, Alix Traver, Marianne Gastelum, Tyler Reeb

Tom O'Brien called the meeting to order.

Announcements & Calendar Items

- September 6 LATC Executive Speaker Series, Esther Mangan, Wayfair
- September 13 HTC Dinner: Hiring Independent Contractors in California: The ABC's of a Post Dynamex world
- September 14 LATC Transportation Night at Knott's Berry Farm
- September 16-18 IANA Intermodal Expo, Long Beach
- September 27 HAIC State of the Ports Luncheon, Gene Seroka and Mario Cordero

Don Snyder added that Mario Cordero was speaking on August 29 at the Propeller Club Los Angeles Long Beach on the topic, "Port Update on Tariffs and Peak Season."

CITT Updates

The new CCPE classroom building is completed and there will be an open house announced soon.

CITT has added a new staff member, Deanna Matsumoto, as our Career and Technical Education (CTE) Specialist.

CITT has won the UPCEA West Award for the Academy of Global Logistics (AGL) program

IANA is now offering scholarships for CSULB students to enroll in CITT's Global Logistics Specialist (GLS) or the Marine Terminal Operations Professional (MTOP). CITT was selected as one of a handful of universities to participate in this program.

FTA and CITT are finalizing the paperwork for FTA to set up an endowment to support student awards to highly qualified students in programs offered by the CITT.

METRANS Updates

METRANS' 20th Anniversary Dinner is to be held on October 4 at USC. Everyone on the CITT Policy & Steering Committee has been invited.

The METRANS International Urban Freight Conference will be held October 16-18, 2019 at Hotel Maya.

The METRANS website is in the process of a major overhaul. The home page will be designed to capture the look of METRANS' future.

Upcoming METRANS' events include Fleet Week and the Industry Outlook. The METRANS Industry Outlook will be November 7, 2018—more information will be forthcoming.

Several METRANS staff members and researchers were invited to participate in MOBILIZE in Dar es Salaam, Tanzania, including Gen Giuliano and Tom O'Brien.

MetroFreight will be funded for three more years.

Gen and Tom will be attending the next VREF Conference on Urban Freight in October in Gothenburg, Sweden.

Steve Lantz is working with Tom on the Policy Makers' Workshop to be held in November and December of this year. The previous class with LA Metro was designed to help with writing RFPs. This new workshop will focus on consultants that respond to RFPs. We are looking into making this as a certificate program and/or one for credit.

Town Hall Discussion

As part of next year's INUF, Tom is researching having an all-day international policymakers' roundtable at Hotel Maya two days before INUF (Oct, 14, 2019) and tying it to INUF. The draft plan is to have 10-15 people participate funded by VREF. The next day, Oct, 15, 2019--the day before INUF, we plan to have the CITT Town Hall and also tie it to INUF participants as well as local attendees as usual. It will be a breakfast meeting and will be, as usual, at no charge. We hope to engage a broader audience and to perhaps tie in some of the discussion from the roundtable the day before.

The discussion then was about how to format the Town Hall. Do we make it similar to those in the past with a table of panelists or do we do something different. The idea of using a case study was suggested and was of interest to the committee.

Some topics that were discussed were the impact of automation of technology, how as an industry will be implement block chain?, etc.

Tom indicated that we still plan to have a Dave Kelly video.

The discussion moved to the importance of the inclusion of labor at the event. It was agreed that we still want to encourage labor's participation and attendance but that we need to get leadership to help with that goal. We hope to meet with the local's leadership including their executive boards to get their buy-in.

The committee also discussed the Miretti Award and agreed that it should continue to be part of the Town Hall.

Tom suggested that we consider adding another event to fill the spring gap. He suggested a small workshop, perhaps also focusing on labor participation, to discuss as a possibility the Transportation Workforce Report. Again, we need to meet with ILWU leadership to get their support of this workshop and perhaps hold it at a union hall or at a location near the port.

CITT Policy and Steering Committee Meeting Conference Call November 27, 2018

CITT Members in attendance: *Tom O'Brien, Mark Hirzel, Alan McCorkle, Michele Grubbs, Marianne Gastelum, Steve Lantz, Pilar Hoyos, and Patty Senecal*

Staff in attendance: Marisa Eide and Alix Traver

Tom O'Brien called the meeting to order.

Announcements and Calendar

- December 4: Propeller Club Annual Holiday Lunch Hotel Maya
- December 5: HAIC Legislative Luncheon The Grand
- December 5: CSCMP 7th Annual Women & Men Leaders in Supply Chain The Grand
- December 5: POLB Annual Customer Appreciation Reception The Queen Mary
- December 6: FTA Annual Holiday Celebration Double Tree, San Pedro
- December 12: LATC Christmas Installation Dinner Old Ranch Country Club
- December 18: HTC Year in Review Mario Cordero & Gene Seroka The Reef

Policy and Steering Committee Membership

Yatman Kwan of Caltrans has been added as a member of the CITT Policy and Steering Committee.

CITT Updates

In October, CITT developed a grant proposal to the US Department of Labor to develop an apprenticeship program in logistics. The proposal was developed with the University of Memphis and Texas A&M. We expect to know results by the end of the year. The proposal was spearheaded by Deanna Matsumoto, CITT's Career and Technical Education Specialist and involved Pacific Gateway and LBCC.

UPCEA Awards were held on October 17 where CITT won the Community Engagement Award for the Western United States for our involvement with AGL with the Port of Long Beach and the Long Beach Unified School District. The video designed for the award ceremony is available at https://www.youtube.com/watch?v=CKRmN1H6fL0&list=PL1POu-XNKt4kMUJZxxUXsk8iZ0 187Gnu&t=354s&index=3.

CITT is coordinating with Steve Lantz and the South Bay Council of Governments to present a new three-part pilot class titled Fight for the Curb. Based on the class that was presented to LA Metro, these classes will focus on the municipal level to make sure that the last mile of freight is considered in policy making. The class is framed around reuse of the Toyota site in Torrance as a case study. As part of the class, there will be a reception held on the evening of the first class at the South Bay COG. The class will be publicized by email blasts in early December.

New cohorts for CITT's GLS and MTOP programs will be starting soon. New dates will be sent to the PSC. We are creating a new core set of classes as students are interest in a la carte type offerings.

CITT has continued its partnership with IANA. IANA has provided \$20,000 for scholarships for CSULB students to take GLS and MTOP classes and has now agreed to another \$20,000.

CITT is working on the development of an Executive Leadership Program focused on urban freight for senior level executives in the public and private sector.

We are also doing industry outreach for the CSFAP Workforce Development and POLB ZEV Blueprint.

We are also finalizing a training class for US Customs and Border Protection to train approximately 30 officers. The class will be customized for this audience and will include air cargo.

The Committee asked about enrollment in the CITT classes. O'Brien indicated that the market indicates that we need to offer more customization. We have recently overhauled our Capstone project. We are working with LBCC to create a pathway from the Maritime Center of Excellence to MTOP. MTOP is more of a niche class and more challenging to fill.

Mark Hirzel and Michele Grubbs indicated that they thought it a good idea to have the US Customs and Border Protection represented on the CITT PSC. O'Brien agreed to research.

METRANS Updates

The METRANS 20th Anniversary dinner was a successful event held on October 4 at USC with Randy Iwasaki as the keynote speaker.

We are working to shift the time and the look for the 2019 Town Hall. We plan to hold a breakfast event the morning prior to INUF (Tuesday, October 15) at Hotel Maya. We will start to work on the video. The focus will be on the future of how we move freight. The hope is to draw on the expertise of the INUF participants as well.

INUF, Town Hall and VREF Roundtable

INUF will be held October 16-18 at Hotel Maya. The plan is to have nearly an entire week of activities since we are now linking Town Hall to INUF with a policy forum the day before. VREF has renewed our grant and has asked us to coordinate programs with other centers, e.g., Gothenburg and Rensselaer. We are planning a roundtable workshop with global and local municipal and regional level planners to discuss how new technology is changing trade lanes. O'Brien asked the Committee what they would

Ilike to see discussed in the open discussion. A suggestion was that they discuss "connected technology —smart cities." What things have been done in other areas? What are some of the obstacles that have been dealt with? 5G will require more broadband—how has that been handled? Another suggestion was looking at the more efficient processes around the world. The Committee suggested discussing Business to Truck (B to T) and Business to Fridge (B to F). It was noted that consumers do not understand the issues of new technology. We here in California now have to deal with a new legislature, new governor, and the new distribution of taxes by origin rather than destination. Other suggestions included discussing electrification, congestion, air quality, and sustainability. What are others doing with delivery trucks blocking traffic and how to pay their fines? There are some goals that have no well identified funding strategies attached to them. O'Brien indicated that these topics will also be of interest in the video for the Town Hall. He will work with Dave Kelly on the video.

The plan is to structure the workshop around a designated policy and also create a white paper to correlate with it.

The Committee agreed to move forward with the new Town Hall concept. The question came up about expanding our reach to get more attendees. It was suggested that we partner with other organizations, e.g., League of California Cities, Los Angeles Chamber, SCAG, etc. (Steve Lantz can provide contact information for Jeff Kiernan, Communications Director for the League of California Cities.)

Spring 2019 Activity

O'Brien will meet with Vivian Malauulu member of ILWU Local 13 and member of the LBCC Board of Trustees in order to get her suggestions as to how to get labor to the event.

CITT Policy and Steering Committee Meeting Conference Call January 22, 2019

CITT Members in attendance: *Tom O'Brien, Marianne Gastelum, Steve Lantz, Yatman Kwan, Gen Giuliano, and Rich Dines*

Staff in attendance: Marisa Eide and Alix Traver

Tom O'Brien called the meeting to order.

Announcements and Calendar

- Membership Introduction: Yatman Kwan, Caltrans
- POLB January 23 State of the Port Long Beach Convention Center
- POLA January 24 State of the Port Los Angeles World Cruise Center
- CSCMP January 28 State of Logistics 2019 with CEO Rick Blasgen CPIE Conference Center, CSULB
- LATC February 12 2019 Executive Speaker Meeting, Rob Church, Suja Juice Old Ranch Country Club

Policy and Steering Committee Membership

Tom noted that we have some vacant spots on the committee. Some industry sectors that we are missing include ILWU Liaison, US Customs and Border Protection, academics, railroads, LACBFFA, and air cargo.

For LACBFFA, Tom will contact Karen Quintana, the current president, for suggestions.

ILWU – Tom will talk to ILWU Local 13 President Mark Mendoza to get his input. The committee suggested Gary Hererra and Vivian Malauulu as possibilities.

Academic – Tom will talk to Jeet about who we might invite from the University. Anastasios Chassiakos is still on the roster and it would be good to add an additional academic representative. Our main partners have been from College of Business and College of Liberal Arts.

Rich thought it might be good to have someone from rail. Suggestions included Scott Moore from UP and Otis Cliatt from Pacific Harbor Line.

For CPB, the committee suggested that Tom contact Bernice Conley.

The group discussed the consistent low attendance for the evening PSC meetings and what are some ideas on how to get members here. Tom mentioned the possibility of moving the in-person meeting to the morning. Marisa will send out a poll to all members to determine who prefers morning or evening. We still plan to alternate between in-person meetings and conference calls.

CITT Updates

CITT will have a Strategic Planning staff retreat this month. The goal is to have a strategic plan that aligns with the CPIE's (College for Professional International Education) plan. Kristine Billmyer who ran CPIE's staff retreat last July will serve as the facilitator

We are pleased to see an increase in GLS students. There are 26 GLS students enrolled in Module I. Module II start date is February 26. We are doing a better job in converting interest into seats.

AGL update: Please find the link to the video that Angeli Logan presented at TRB this year. AGL continues to be a success. http://www.amp.csulb.edu/download/files/CCPE/CITT/
201901 PolB AGL GIS.mp4

Tom announced that the book that Tyler Reeb has been editing has been completed and it will be rolled out on June 1. The title is "Empowering the New Mobility Workforce." We are planning various ways to promote it.

CITT is coordinating with Steve Lantz and the South Bay Council of Governments to present a new three-part pilot class titled Fight for the Curb. Based on the class that was presented to LA Metro, these classes will focus on the municipal level to make sure that the last mile of freight is considered in policy making. The class is framed around reuse of the Toyota site in Torrance as a case study. As part of the class, there will be a reception held on the evening of the first class at the South Bay COG. We have 21 students registered.

We are running the Caltrans Freight Academy again this year. We will hold two classes, possibly one in the Summer and one in the Fall.

METRANS Updates

The new METRANS website is still under construction and we hope to get it completed in the next few months.

PSR Congress will be meeting in Tucson on April 9. This year's congress will be hosted by Pima Community College.

Gen presented at TRB, as part of the FAST Act, on "The Future of the Interstate Highway."

Year 3 funding has been put on hold due to the government shutdown. This delay will affect things like the PSR Transfers magazine and other projects. Transfers contains short articles on research papers that is written to be of interest to anyone. https://transfersmagazine.org/

Gen reported on the AQMD project that USC, Tom, and UC Davis are working on regarding zero emissions. She asked for references to help with data regarding heavy duty trucks and tracking their routes. Rich Dines suggested Vic De Rosa of TTSI. Marisa will set up an in-person meeting for Gen, Tom, and Vic.

USC is recruiting transportation faculty for the Price School and for Systems Engineering.

USC's Price School has launched a hybrid Executive Masters Program.

"Smart Freight Week"

We are tying three events together the week of October 14 to create "Smart Freight Week." The plan is to have nearly an entire week of activities since we are now linking the Town Hall breakfast meeting, the 2½ day I-NUF Conference, and the VREF policy roundtable forum on the afternoon of the same day at the Town Hall. VREF has renewed our grant and has asked us to coordinate programs with other centers, e.g., Gothenburg and Rensselaer. We are planning a roundtable workshop with global and local municipal and regional level planners to discuss how new technology is changing trade lanes. The plan is to structure the workshop around a designated policy and also create a white paper to correlate with it.

To review, Smart Freight Week will consist of three activities: 1. Town Hall, October 15, Hotel Maya – this will be a free, morning event including breakfast. 2. MetroFreight Policy Makers Workshop, October 15, Hotel Maya – by invitation, lunch and afternoon. The plan is to structure the workshop around a designated policy and also create a white paper to correlate with it. 3. I-NUF Conference-October 16-18, Hotel Maya.

Possible Smart Freight Week topics that were suggested are blockchain, appointment system (part of CAP 3.0), and other smart port city topics.

Tom will put together a mini-abstract and will consider possible people and categories.

CITT Policy and Steering Committee Meeting Conference Call April 23, 2019

CITT Members in attendance: Tom O'Brien, Yatman Kwan, Gen Giuliano, Mark Hirzel, Alan McCorkle, Patty Senecal, Eric Shen, and Elizabeth Warren

Staff in attendance: Marisa Eide, Alix Traver, Dave Kelly, and Tyler Reeb

Tom O'Brien called the meeting to order.

Announcements and Calendar

- HAIC April 25 Joint Port Engineering Update Double Tree by Hilton, San Pedro
- PMSA April 25-26 Advance Clean Transportation Expo Long Beach Convention Center
- FTA May 8 The 93rd Annual World Trade Week & International Delegate Luncheon
- LATC May 14 Executive Speaker Series Greg Stefflre Old Ranch Country Club
- Propeller Club May 16 32nd Annual Seafood Fest Ports O'Call
- FuturePorts May 17 Future Ports 2019 Annual Conference

CITT Update

• Retreat update – Tom gave a quick update on where we are at after CITT's internal staff retreat. We are in the process of reworking our mission/vision statement. We will update the PSC members as we get closer to a final version.

"Smart Freight Week"—October 15-18, 2019 (including Town Hall, VREF Roundtable and I-NUF)
Town Hall: The topic of the Town Hall will be Smart Port City. The focus of today's discussion is to come up with possible speakers for Town Hall.

Tom reiterated the revised Town Hall/Policy Makers Workshop/INUF Smart Freight Week begins Oct 15. The Town Hall will be in the morning of the 15th and then followed by a Policy Makers Workshop that afternoon. I-NUF starts on Oct. 16.

The theme of the Town Hall that has been in discussion in previous meetings is Smart Port Cities. Tom asked the group if this is a topic of interest and if so, what are the key areas of the topic? Do we want a traditional panel? Or do we want a keynote? Or a debate? How do we define a port city? Do we talk about automation since it has been avoided in the past?

Yatman suggested that we should discuss the evolving nature of jobs. If someone wants to continue to work in this field, what will jobs look like 5-10 years from now? What avenues do they need to take to move with the changing nature of the jobs?

Elizabeth agrees with that topic and also believes we should talk about automation, robotics, AI, etc. It's a big topic that we should address. Tom agrees that it's a critical topic and suggested the concept "automation, technology and policy that makes a city work."

Eric agreed that automation is an important topic but it is one that people either love or abhor. He stated that ships and mariners need to be smart too. He mentioned the Port of Hueneme robotic competition as an example of the interest in automation. To many, automation means job loss. How do we help move the dialogue forward that technology is inevitable?

The thought is that for a smart port city, you must have focus on security, environment and the workforce.

Tom indicated that we should embed technology and automation in the Town Hall program. He shared that he and Gen attended a demonstration at TuSimple in AZ of self-driving cars. PIMA Community College is offering a new certificate in automated driving systems. We may ask TuSimple to speak at I-NUF or they might be appropriate for Town Hall.

Alan asked, if we are talking about automation, will the focus be on the automation within the workforce? He thinks we should discuss automation/technology/policies.

Eric mentioned that if the focus is on workforce development/automation that there will be lots of debate. But if you broaden it to education and technology advancement then you might have

Gen asked what the time frame is for Town Hall and what can be covered in that amount of time. Tom indicated the plan would be to serve breakfast first and then move to the discussion. We need to decide if we want a panel, a speaker, and how the video will work. We also have time constraints with a morning meeting. Alix stated that our Town Hall is usually 2 to 2½ hour time frame. So, we are thinking of a 7:30 am breakfast start then leading into the Town Hall discussion. We might have a guest speaker, a panel, and also the video. Gen asked about the need for the video. Tom indicated that it has been an important part of the Town Hall in that it helps sets the stage for the topic and has also been used after the event in teaching situations, etc.

Gen suggests that we will have more interest in the port interface—we should focus on a smart port rather than a smart port city. What would an evolution of technology and the workforce look like? Jobs are an issue – how technology changes jobs and also invents jobs. What are the jobs of the future and what are the skills needed?

Alan mentioned that this is a big topic and that we need to narrow the focus.

Elizabeth asked. Are there any transferable skills? How do we prepare for the future when we don't know what we need to train them on?

Tom asked the committee for suggestions of names or categories for possible panelists. It was stressed that we must have a labor representative.

Tom said if he narrows the focus to the ports, we should discuss jobs tied to the energy sector-changing equipment, maintenance, repair, hybrid fuel cells, energy systems, etc.

Alan made the point, as the port terminal automates (and companies have the right to do so), where are the jobs at for the future, especially for ILWU? Will they be shifting from the being the operators of equipment to the maintenance of equipment. What does the ILWU see the role for their people in the future?

Elizabeth suggested that we should look at Honda and Toyota and how they have changed their workforce with the new technologies in their industry. Mark said that he will look into what Honda is doing and will can see who we/he might talk to there about this subject.

Gen suggested that we should look at best practices in Europe, e.g., Rotterdam and Antwerp. They have done a lot of automation. Can they bring that expertise to the table? Tom agreed and said that this is also a good link to I-NUF.

Returning to the subject of panelists or speakers, Tom indicated that along with labor that perhaps we should have a terminal representative and from the port(s). Both ports are working on workforce development projects, e.g., Avin Sharma at Port of Los Angeles, and the Maritime Center of Excellence at LBCC, who is working with labor on pilot training in lashing. Tom suggested that someone from the Harry Bridges Institute might be an appropriate panelist and asked if anyone know someone from that group. Tom will ask Michele if she has any suggestions.

Tom asked Dave Kelly if he has any ideas for his video after being a part of this discussion. Dave said that the video might be a visualization of changing technology over time and that showing technology and automation helps tell the story.

Elizabeth added that we should showcase where things were and where they are now – maybe show some of the things that are actually happening. Mark said an example in how cars were repaired 20 years ago as opposed to how they are repaired now; Tom's example was the change in the pit stop process at Indy. Another example is the change in collecting tolls.

Eric said that it is important to discuss technology enhancement improvement in building our infrastructure and look at the environment and sustainability. It is important to look at all aspects—including security.

Tom then listed the possible speakers/panelists that had been discussed: labor, terminal operations, someone from Europe, the port. He asked if anyone knew someone on the operations side of the ports where some changes have already started. Alan suggested perhaps someone from Middle Harbor. Tom mentioned that he will have the chance to talk to Anthony Otto of LBCT TO will be at Tom will at an event at LBCT this weekend and will see if he can ask Anthony and John Beghin if they have any suggestions.

To-Do:

Mark will look into what they are doing at Honda with the new technology and see who we/he might talk to about this.

Tom will speak with someone at TuSimple about presenting at INUF.

Tom will reach out to Michele to see if she knows anyone from the Harry Bridges Institute.

Tom will ask Anthony Otto and/or John Beghin if they have any suggestions as to who we might get from Middle Harbor.

CITT Policy and Steering Committee Meeting Conference Call May 28, 2019

CITT Members in attendance: Tom O'Brien, Yatman Kwan, Gen Giuliano, Patty Senecal, Michele Grubbs, Steve Lantz,

Staff in attendance: Marisa Eide, Alix Traver, Dave Kelly, and Marianne Gastelum

Tom O'Brien called the meeting to order.

Announcements and Calendar:

Propeller Club- June 4 – Update in POLA with Gene Seroka – Double Tree by Hilton, San Pedro

- HAIC June 6 State of the Port Luncheon Port of Hueneme Kristin Decas The Grand Long Beach
- LATC June 11 Executive Speaker Series Aaron Peterson, Chief Executive Officer, My Mini Casa – Old Ranch Country Club
- FTA June 19 Summer Mixer L'Opera

CITT Update

July 9 – CITT Graduation – We will send information out to PSC members.

"Smart Freight Week"—October 15-18, 2019 (including Town Hall, VREF Roundtable and I-NUF)
Tom recapped the revised Town Hall/Policy Makers Workshop/INUF Smart Freight Week begins on Oct
15. The Town Hall will be in the morning of the 15th and then followed by a Policy Makers Workshop
that afternoon. I-NUF starts on Oct. 16.

For Tuesday, October 15, the Policy Makers Workshop will be by invitation only to include municipal regulators, state level policy makers, etc., and including people from other countries as well, around 20 international and 20 US based. (Gen mentioned that we should make sure to determine if we need any translators.) The plan is to use a recently released guide by Alison Conway, Associate Professor, Department of Civil Engineering, City College of New York to discuss the designs and policies from her book. The desired outcome will be a write up based on what we learn from the book and a modified set of solutions. Yatman suggested that we might add a panel discussion on urban freight challenges.

INUF

We have received around 115 abstracts – we are looking to have presentations from researchers and practitioners. We will also have some special sessions – some ideas for those include planning for the Olympics (city logistics) and electrification and workforce of the last mile.

We are currently looking for keynote speakers and appropriate welcome speakers. Tom mentioned that Jim Frazier is not available. We have confirmed Ian Roark from Pima Community College. Gen added that we had also invited Caitlin Hughes from FHWA for the welcome portion. Tom said he will reach out to Bernie Kotlier who he recently heard during a tour of the IBEW Training Center.

For the site tour, Tom will talk to John Beghin about LBCT. Gen is working with Kerry Cartwright on a tour of the POLA. We would like to have a demonstration of an automated vehicle test, the port info system, and perhaps a tour of where the tech demos actually happen. Tom will also reach out to someone at Alta Sea about doing a tour there.

Town Hall

Again, the title for the Town Hall is "Smart Technology and Port Operations: Implications for the Economy, the Environment and the Workforce." The Town Hall will start with breakfast at 7:30 with the program from 8:00 to 10:00. Dave Kelly will do the video.

We are developing the program. Tom has been talking to Avin Sharma from the POLA to find out what are they doing with their lashing testing. Michele asked how lashing fits in to our discussion. Tom suggested working with the LBCC Center of Excellence with their emphasis on the workforce development aspect. He asked who else would be a good choice to balance the discussion between the environment and the economy. Steve suggested that we should focus on the benefits of the environmental side. Other input suggested that we might include the IBEW. Tom asked if anyone has a contact at the Harry Bridges Institute.

Maybe someone from LBCT (terminal operators) to talk about efficiencies...

Gen asked, with all of the technology changes, what is the one big change? Are we going to have better yard vehicles? Faster trains? Are their dominant technologies that we can focus on? Is the idea with auto test that by 2030 we will have automated vehicles at the port? And how does that create economic benefits? Tom indicated that it would be good to look at the LBCT model and their use of robotics, automation, and environmental technology. Gen also added

Steve asked about block chain and supply chain. Michele stated that Maersk is working with block chain technology with IBM. Tom asked Michele for leads on who to talk to at IBM or Maersk.

Tom asked Dave if he has enough info to get started on a treatment for the video. Dave will put the treatment together and we will send out to the group. We need to get a chapter (Austin Brown) to Dave. Tom also referred him to both the ports' website and to the LBCT website.

Tom asked for a wish list of panelists. Perhaps someone from IBM. LBCT. Avin from POLA regarding workforce. Tom asked if we are missing someone from energy. Yatman explained that the state's goal is to move to zero emissions. There needs to be a link between private and public partnership.

Steve asked about battery technology. Tom believes that this is still relevant. Gen said that all kinds of people are working on batteries with little breakthrough. Heavy duty vehicles are posing a problem. But there is growing talk about hydrogen fuel cells. Tom suggested that maybe we have someone from the Port talk about this marriage of environmental goals vs. reality. Steve asked if this was happening internationally. The answer is yes. Europe is going with hydrogen fuel cells. Steve – should we have someone from Europe present on this? Tom mentioned that no one from Europe presented an abstract on this subject.

To-Do:

- We will send a summary write up about Smart Freight Week events and sponsorships to PSC.
- We will send the Policy Makers Workshop write up to the PSC members for review.
- Tom will contact Bernie Kotlier about speaking at I-NUF.
- Michele will reach out for a contact for Maersk/ IBM.
- Gen will see if we have anyone from Europe who can present on energy.
- Dave will create an outline of the video and Marisa will send it out to the group.
- Tom will submit a call for nominations for the Miretti award.

CITT Policy and Steering Committee Meeting

Conference Call

June 25, 2019

CITT Members in attendance: Tom O'Brien, Yatman Kwan, Kerry Cartwright, Rich Dines, Pilar Hoyos, Don Snyder, and Elizabeth Warren

Staff in attendance: Marisa Eide, Alix Traver, Dave Kelly, Tyler Reeb, and Marianne Gastelum

Tom O'Brien called the meeting to order.

Announcements and Calendar:

- HTA June 26 2nd Annual DrayTECH Hotel Maya
- LATC- July 9 Executive Speaker Series Mario Cordero, Port of Long Beach Old Ranch Country Club
- HAIC July 17 25th Annual Harbor Cup Challenge Los Verdes Golf Course
- June 28 Pilar is retiring and moving to Colorado! Congratulations, Pilar!

Smart Freight Week

Caltrans update – We are creating a package of activities for Smart Freight Week for Caltrans as part of the support that Caltrans provides to METRANS UTC. This will also be a bridge to the support of two upcoming Freight Academies in 2020. The Policy Makers Workshop will include Caltrans-relevant material and will include Caltrans personnel along with the policy makers from around the world. There will also be a Caltrans track in the I-NUF agenda that will address areas of interest to Caltrans attendees as well as others. During I-NUF, there will also be a pilot of the Industry Mentor Program. The proposal has been sent to USC for submittal to Caltrans.

Tom recapped the Policy Maker's Workshop and how it's designed to focus on smart solutions for urban freight. He gave a brief summary of the Alison Conway (CCNY) guide that will be the crux of the agenda. Policy makers will modify the guidebook for their use. We hope to have 20-25 from outside the US and provide travel funds from VREF (MetroFreight {MF}). We are working on getting to some MF people here that could give us some good insight on this. Last mile strategies will be the focus.

INUF

Alix gave us an abstract update – we received around 115 abstracts and outlines for special sessions. The next step is to build the agenda. We have two special sessions that have been accepted – one or two more to come. FHWA and TRB sponsored one of the special sessions. Gen is working on a special industry spotlight. Confirmed plenary speakers include Ian Roark from Pima and Bernie Kotlier, the designer of the electrical vehicle infrastructure training program discussing the electrification of the last mile. We will have someone from FHWA speak and Tom will follow up on that. Another session in the works is a Canadian Consul update on the USMCA from the Canadian and Mexican perspective. The site visit, designed to show smart freight in operation, will be held on the afternoon of October 18. LBCT has agreed to let us tour their facility. Gen will be talking to Kerry about possible tour options at POLA.

Town Hall

A new condensed title is "Smart Ports: Technology, Economy, Environment, and Workforce." It will be Oct 15. with breakfast at 7:30am and the program will be from 8:00am-10:00am.

Kerry asked Tom if he had been made aware of the proposed POLA automation projects that the LA City Council will probably overturn. It is expected that State Lands Commission will now oversee automation at the port. Kerry said that automation such as unmanned trucks is not something they plan to pursue. He suggested we might want to rethink the theme and perhaps the topics. Technology is important but perhaps we should be careful talking about autonomous trucks because of the controversy surrounding them.

Tom indicated that he understands the sensitivity of the subject. What we have learned is that technology can also offer opportunity and that is what we want to focus on. Kerry emphasized that the ILWU is concerned with job loss. Don added that perhaps we should not add more spotlight to a very contentious issue. Technology can have positive impacts but automation is political. There was discussion among the group about avoiding automation all together, that it has gotten very political and that we should rethink our focus, while some others think it's a hot ticket item and will bring people to the event. Per Marianne, if we do not speak about automation, it becomes the "elephant in the room."

Don mentioned that automation and technology are just a subset of what we are going to do to make the port efficient. He suggested that Tom reach out to Noel at POLB to hear what he has to say on the matter. Rich added that it would be great for Tom to connect with ILWU leadership to hear their thoughts on all of this, perhaps to Ray Familathe and to the local presidents. He said that it is important that the union members get all the information. Pilar thinks we need to look at how automation will impact the community, the jobs, the economy, and the environment. Tom talked about how there's a way to make sure it's not just on automation—we are looking at something port centric. Don said with the audience waning over the past years, we should find a subject of interest and one that people are passionate about and be prepared to manage that passion. Tom indicated that we might do a mini white paper looking at trends of employment. Kerry said that technology in general is assisting with emission reductions and compliance with SB32. He suggested that we frame the topic from an air quality perspective. Rich said that the Clear Air Action Plan is a push toward zero emissions not just electrification. How is our port going to be more efficient while helping the community and the environment?

Tom discussed ideas for panelists. Don indicated we should have the ports represented, e.g., Mike DiBernardo, Rick Cameron, or perhaps Don. Pilar was a suggested panelist but she declined due to her imminent retirement (Trini Jimenez from BNSF will be taking over her position,). Another suggestion -Tom asked if we need a tech provider and the group agreed that we that we do not. Rich said that it is important to look at the impact of it all on the ports, trucks, terminals, distribution centers, etc. We don't know if this is going to work. People want to know where the impacts are. Don added that this is process centric-technology is only a tool.

Tom also asked if we need a community rep to provide community perspective from the workforce angle. Tyler believes it would be beneficial to have a technology or human workforce angle. There will be systems of people that direct the technology. Direct the technology, don't let the technology direct you.

Dave indicated that he has been taking notes of the conversation today and will need time to process the discussion. Dave and Tom will meet to discuss the video treatment--Marisa will set up a call.

To-Do:

- We will send a summary write up about Smart Freight Week events and sponsorships to PSC.
- We will send the Policy Makers Workshop write up to the PSC members for review.
- Tom will contact Bernie Kotlier about speaking at I-NUF.
- Michele will reach out for a contact for Maersk/IBM.
- Gen will see if we have anyone from Europe who can present on energy.

- Tom will submit call for nominations for the Miretti award.
- Tom will remind Gen about contacting Kerry Cartwright about a tour of the POLA.
- Tom will reach out to someone at Alta Sea about doing a tour there.
- Rich Dines will help connect Tom with Ray Familathe and local presidents.
- Tom will contact Gen to discuss the Olympics panel and AltaSea.
- Marisa will set up a call for Tom and Dave to discuss the video treatment.