



T&DI CONNECTIONS

February 2022

KEY HIGHLIGHTS

- T&DI Board Announces their Decision for FY23 Board Positions
- ASCE ICTD and APM-ATS Early Registration Deadline Coming Up
- Final Opportunity to Take the Member Engagement Survey

Letter from T&DI President David Noyce

Dear T&DI Members and Friends:

The Transportation & Development Institute (T&DI) is currently surveying our membership with the goal of discovering new and perhaps innovative ways that the Institute can better serve each and every one of our members. Certainly, finding ways to earn your support and participation in T&DI, for those members who are not active, is the ultimate goal.

[Read More](#)



David A. Noyce, Ph.D., P.E.,
F.ASCE, President, Transportation
& Development Institute (T&DI)
American Society of Civil
Engineers (ASCE)

INSTITUTE NEWS

Scott Murrell Selected as T&DI Board's Official Nominee for the FY23 Board Position

Scott Murrell, P.E., M.ASCE has been selected by T&DI's Board of Governors as the Official Nominee for the 4-year position on the Board of Governors, commencing October 1, 2022. Mr. Murrell serves as the Director of Commercial Aviation Services at Applied Research Associates (ARA). Additional nominees for the 4-year position on T&DI's Board of Governors may be submitted through a petition process, the details of which can be accessed [here](#).



[Read More](#)

T&DI Board Appoints Jianming Ma to the FY23 Board of Governors

T&DI Board has reappointed Jianming Ma, Ph.D., P.E., PMP®, M.ASCE, to serve a two-year term on the FY23 Board of Governors. He currently serves as the Traffic Management Section Director of the Texas Department of Transportation (TxDOT).

[Read More](#)



THIS IS THE TIME TO INVEST IN YOURSELF:

RENEW NOW!

**ASCE ICTD and APM-ATS Early Registration
Deadline Coming Up**



Just a quick reminder: The [ASCE International Conference on Transportation and Development \(ICTD\) and ASCE Automated People Movers and Automated Transit Systems \(APM-ATS\) Conference](#) early registration deadline is March 28 and the reservation deadline for the Hyatt Regency Downtown is April 29. The conference is only 90 days away and things will be moving quickly, so don't miss out. [Registration](#) is quick and easy and the hotel group reservation block can be found [here](#).

The Preliminary Program is also available for download on the [Program page on the conference website](#).

This year's conference, with joint programming by ASCE and the Washington State Department of Transportation (WSDOT), will take place in Seattle, WA, from May 31 – June 3, 2022. Join us as leaders from public agencies, private industry, and research institutes share their vision, exchange experience, collaborate on research, and showcase practical solutions on smart and integrated mobility solutions. Chaired by Roger Millar, Secretary of Transportation, WSDOT and Yin Hai Wang, Professor, University of Washington, the conference has a stellar lineup of plenary speakers including Anna Zivarts, Director, Disability Mobility Initiative; Toks Omishakin, Director, Caltrans; Kristina Swallow, Director, NDOT; Carlos Bracerias, Executive Director, UDOT; Craig Thompson, Secretary of Transportation, WisDOT; Hani Mahmassani, Professor, Northwestern University; Jerry Buckwalter, Chief Innovation Officer, ASCE, and more.

ASCE International Automated People Movers and Automated Transit Systems (APM-ATS) Conference will also be delivered at ICTD 2022, resulting in a rich attendee experience on a variety of topics that cover all modes of transportation.

Register

Registration Sponsored by:



T&DI Member Engagement



If you haven't already completed the T&DI Member engagement survey, there's still time to share your thoughts with us. Please let us know what we're doing great and what you think we can improve on - we're here for you! **This is your final chance to share your feedback via the 5-minute survey before it closes on March 10.**

Respondents who are members of ASCE will be automatically entered into a drawing for free registration to T&DI's ICTD 2022.

[Complete the Survey](#)

T&DI Mourns the Loss of Lifetime Member Larry Smith



The American Society of Civil Engineers (ASCE) and the Transportation and Development Institute (T&DI) are sad to announce the passing of Larry Smith, respected lifetime member and Fellow of ASCE, T&DI member since its inception in 2002, APM Standards Committee Chair, and ASCE 21 Chair.

[Read More](#)

T&DI Free Virtual Events

CAV Impacts Committee to host:

DriveOhio VCETT -Advancing Smart Mobility

Wednesday, March 9, 2022, 1:30 PM – 3:00 PM ET

DriveOhio is the state's innovation hub for smart mobility. Together with its partners, DriveOhio has developed the world's most advanced smart mobility ecosystem of connected, autonomous, electric, and shared transportation – on the ground, in the air, everywhere.

REGISTER FOR DRIVE OHIO

T&DI –(MoDaaS) Committee Presents:

The Role of MoD & MaaS in Reviving Public Transportation

Wednesday, March 16, 2022, 4:00 PM - 5:30 PM ET

Understand challenges faced by transit agencies in light of Covid-19 and how different ways of providing service can aid in the revival of public transit systems.

REGISTER FOR ROLE OF MOD & MaaS

T&DI –(MoDaaS) Committee Presents:

Setting the Standard for How MaaS Projects are Evaluated

Tuesday, April 12, 2022, 4:00 PM - 5:30 PM ET

Join us for a 90-minute panel discussion of distinguished academia, public agency, and private sector professionals as they address the important questions on how MaaS projects are evaluated.

REGISTER FOR SETTING STANDARDS

MODaaS Committee Publishes Second Quarterly Newsletter



The ASCE Transportation and Development Institute's [Mobility on Demand and as a Service \(MODAaaS\) technical committee](#) has published its second quarterly newsletter. The committee's strategic plan is to develop a forum for the exchange of ideas and knowledge among professionals in the engineering industry and to connect the industry to academia and government. Interested in joining the MODaaS technical committee? [Join MODaaS Committee.](#)

MODaaS Newsletter

CHAPTER NEWS

Orange County Transportation Authority Update

ASCE LA Section Orange County T&DI held another virtual presentation on Tuesday, December 14th with speaker from OCTA, Chief Executive Officer, Darrell Johnson. This presentation provided updates to several on-going OCTA projects, upcoming projects, and the agency's plan for the funding through the newly passed Infrastructure Investment and Jobs Act (IIJA). Click [here](#) for highlights of the presentation.



ASCE NEWS

ASCE Launches Future World Vision: Mega City 2070 Desktop Platform



Download and experience an immersive 3D model that visualizes the evolution of a city from 2020 to 2070. Enter [Mega City 2070](#), explore the various active districts, walk through the streets, read the narrative on the

evolution of the city over the years, learn about the technologies, processes, and infrastructure of the future, and join the conversation in the discussion boards associated with each topic in the city.

[Download Now!](#)

Bridge Asset Management Collection

A Bridge Not Too Far: Toward Efficient Asset Management and Maintenance



There are over **617,000** bridges in the US

42% are at least 50 years old

46,154 bridges (**7.5%**) are considered structurally deficient, meaning in poor condition



In ASCE's 2021 Report Card for America's Infrastructure, the Bridges category scored a 'C'

The Federal Infrastructure Bill was recently passed



Infrastructure Investment and Jobs Act

Contains both a 5-year surface transportation reauthorization that increases investments, as well as an additional **\$40 billion** in investments for the nation's bridges



It is crucial to assist stakeholders and state Departments of Transportation (DOTs) in asset management and bridge maintenance to maximize use of this funding

ASCE collection of studies focused on bridge maintenance and management



Effect of stakeholders' behavioral patterns

- Risk perception
- Risk attitudes
- Time preference

Bridge testing and inspection

- Review on the state-of-the-practice of bridge load testing
- Load rating planning framework using deep reinforcement learning



Climate change

- Understanding increased risks due to more frequent extreme weather events
- Incorporating climate change in the decision-making process

Decision-making frameworks

- Network-level analysis
- Cost-benefit analysis
- Budget and performance constraints
- Managing uncertainty



Life-cycle management (LCM)

- Risk/reliability indices
- Overview of LCM for infrastructure networks
- Planning and optimization

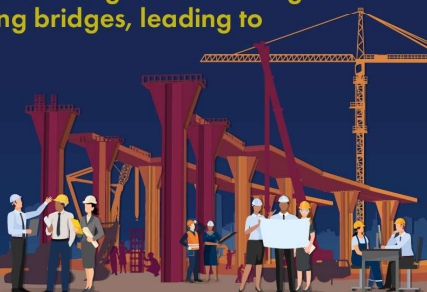
Case study

- Rehabilitation/replacement of approach spans of I78 bridge at Hamburg, PA



These studies will help decision-makers and engineers working on designing, managing, and rehabilitating bridges, leading to

- Safer infrastructure
- Higher bridge resilience and sustainability
- Smarter spending by minimizing life-cycle cost and maximizing bridge performance
- Optimal life-cycle inspection, monitoring, maintenance, and management



State DOTs and engineering firms need to be prepared for asset

With 42% of bridges in the United States being over 50 years old and 7.5% of them labelled structurally deficient, it is time that scholars and practitioners take stock of the most recent developments in the fields of bridge asset management and maintenance, as a first step to improving America's bridges. [ASCE's Special Collection](#) brings together recent research on a number of key issues in these fields—such as bridge testing and inspection, climate change, and life cycle management—to help engineers and decision-makers make bridges safer.

INDUSTRY NEWS

NatMec Registration is Now Open

Registration for the National Travel Monitoring Exposition and Conference (NatMEC) is now open. NatMEC 2022, organized and hosted by the Idaho Transportation Department in cooperation with the Pacific Northwest Transportation Consortium, will be held virtually on June 13 -17, 2022.

This biennial conference provides travel monitoring professionals and transportation data users from around the world opportunities to share knowledge and good practices, exchange ideas, revisit fundamental concepts, learn about new processes, procedures and techniques, and see the latest advancements in policy, technology and equipment.

For more information and to register visit natmec.org.

ASCE GOVERNMENT RELATIONS UPDATE

House Subcommittee on Highways and Transit Holds Hearing on Automated Vehicles

A panel of witnesses offered considerations regarding automated vehicle (AV) deployment to the House Committee on Transportation and Infrastructure's Subcommittee on Highways and Transit during a [hearing](#) on February 2nd. The witnesses, who included vehicle industry representatives and transportation experts, mentioned the importance of a national strategy for AVs and emphasized the need to consider the impacts autonomous technologies can have on the workforce. Prior to the hearing, [ASCE submitted a statement](#) for the record to the subcommittee. ASCE recommends industry and government representatives work cooperatively

to establish national standards for the planning and deployment of transportation infrastructure associated with AVs.

DOT Announces \$241 Million in Grants Through the Port Infrastructure Development Program

U.S. Department of Transportation Secretary Pete Buttigieg [announced](#) December 23 that the agency has awarded \$241 million to 25 projects to improve port facilities. The funding, which will support projects in 19 states and Puerto Rico, was issued through the Maritime Administration's [Port Infrastructure Development Program](#). Priorities for this round of funding included job creation, climate change, and environmental impacts. These projects are meant to support the goals outlined in the [Biden-Harris Action Plan for America's Ports and Waterways](#).

White House Issues Bipartisan Infrastructure Law Guidebook

The White House on January 31st released a [guidebook](#) to the [Infrastructure Investment and Jobs Act](#) (IIJA) geared toward state, local, tribal, and territorial governments. The 465-page guidebook is meant to serve as a roadmap with information on funding made available through the law. The White House also published an accompanying tool that allows users to look up information by searching agencies or programs. ASCE's IIJA Implementation [Resource Center](#) is a one-stop shop for ASCE members looking to understand and track implementation of the bipartisan infrastructure bill.

NHTSA Data Reflects Spike in Traffic Deaths in 2021

Recent [estimates](#) from the National Highway Traffic Safety Administration (NHTSA) indicate traffic fatalities climbed at a record pace during the first nine months of 2021. NHTSA's statistical projection shows that an estimated 31,720 people died in motor vehicle crashes between January and September 2021, marking an increase of about 12% from the traffic fatalities that were projected during the same period of 2020. This figure is the highest number of traffic fatalities to occur during the first nine months of any year since 2006. NHTSA's estimates were released less than a week after the Department of Transportation announced its [National Roadway Safety Strategy \(NRSS\)](#), which outlines steps to address roadway fatalities and serious injuries.

RAISE Grant Solicitation

The U.S. Department of Transportation on January 28th published a [Notice of Funding Opportunity](#) for \$1.5 billion in funding through the [Rebuilding American Infrastructure with Sustainability and Equity \(RAISE\)](#) discretionary grant program. This announcement marks the first discretionary funding program to accept applications as directed by the IIJA, which provides \$7.5 billion over five years for the RAISE program. DOT will evaluate projects based on a variety of factors, such as safety, environmental sustainability, economic competitiveness, innovation, mobility, and community connectivity. The deadline to submit applications is April 14th and awards will be given out by August 12th.

Federal Transit Administration Issues \$10.3 Million in Tribal Transit Grants

The Federal Transit Administration (FTA) on January 19th [awarded](#) \$10.3 million in grants to tribal government entities to support transit projects in rural areas. Awarded through the Tribal Transit Program, the grants were issued to [36 tribal governments](#) and are intended to address certain federal priority areas, such as enhancing economic development and increasing safety. Grants include \$100,000 to help the White Mountain Apache Tribe purchase a mobile maintenance vehicle and \$213,000 to assist the Crow Tribe of Indians with initiating on-demand transit service. According to the FTA, the IIJA makes an additional \$229 million available for Public Transportation on Indian Reservations formula and competitive grants over five years.

CONTINUING EDUCATION OPPORTUNITIES



Guided Online Courses

Guided Online Courses have begun, but it's not too late to register! Learn more and sign up today!

Pricing and Bidding: Lump Sum Jobs
Mar. 7 - Apr. 15, 2022

[Learn More](#)

Pricing and Bidding: Unit Price Jobs
Mar. 7 - Apr. 15, 2022

[Learn More](#)

Principles of Construction Contracting
Apr. 18 - May 27, 2022

[Learn More](#)

Principles of Critical Path Scheduling
Jan. 24 – April 15, 2022

[Learn More](#)

Live Online Training

An Introduction to Traffic Signal Operations - March 3, 2022

This webinar will identify the key parameters and explain how these parameters contribute to the overall efficiency and effectiveness of traffic signal operations.

[Learn More](#)

PE Exam Review

PE Civil Exam Review Courses - February 1 -April 1, 2022

Prepare for PE exams with focused courses designed to maximize your study time through the use of live and on-demand sessions, handouts, homework problems, study tips, and resources from faculty with 20+ years' experience.

[Learn More](#)

ASCE Week Orlando | March 20 – 25, 2022



[Learn More](#)

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- Breakfast, lunch, and breaks are included in your seminar price

- Network with colleagues and instructors

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Bikeways On-Demand Webinar Package

[Learn More](#)

Introduction of Geotechnical Grouting, Rock Mechanics, and Unsaturated Soil Mechanics On-Demand Webinar Package

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Permeable Pavements On-Demand Webinar Package

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Traffic Signals On-Demand Webinar Package

[Learn More](#)

On-Demand Learning

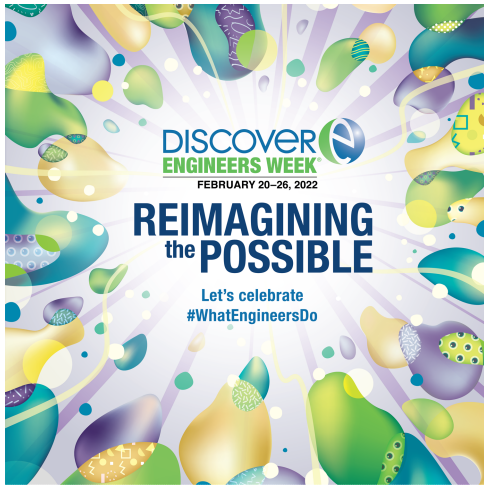
A Closer Look at Road Diets

[Learn More](#)

Traffic Signal Design

[Learn More](#)

Motivation Minute



"Nothing is impossible. The word itself says, 'I'm Possible!'"

Audrey Hepburn

Thank you for a great
Engineering Week 2022!

Wishing all our T&DI members safety and health!

Follow us on [Twitter @ASCE_TDI](#)



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