



# T&DI CONNECTIONS

May 2022

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## KEY HIGHLIGHTS

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- CAV Impacts Committee Publishes New Book
- Navneet Garg Named ASCE Fellow
- Two NSF Workshops at ICTD22

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## Letter from T&DI President David Noyce

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### ***Another (Academic) Year in the Books!***

Not only do I have the privilege of serving you as the President of T&DI, but am also blessed with serving the students of the College of Engineering at the University of Wisconsin-Madison. As I write this message, I am looking out of my office window noticing large groups of graduating students dressed beautifully in their cap and gown taking photographs in front of our iconic engineering mall monument. What a wonderful time of year this is!



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

[Read More](#)

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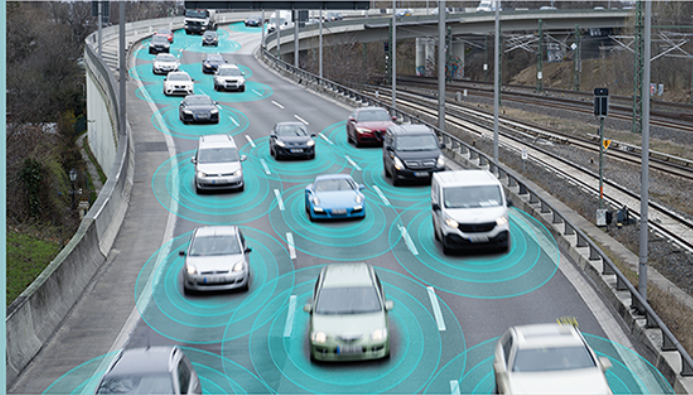
## **INSTITUTE NEWS**

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### **CAV Impacts Committee Publishes New Book**

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# Disruptive Emerging Transportation Technologies



Technical Committee on  
Connected and Automated Vehicles Impacts

**ASCE**

EDITED BY

Heng Wei, Ph.D., P.E.  
Yinhai Wang, Ph.D., P.E.  
Jianming Ma, Ph.D, P.E.



*Disruptive Emerging Transportation Technologies*, a new book prepared by T&DI's [CAV Impacts Technical Committee](#) members Heng Wei, Yinhai Wang, and Jianming Ma, is a valuable resource discussing the future of transportation technology. With a particular emphasis on 4IR technologies and their emergence in transportation engineering, the authors discuss ways to implement these strategies into transportation planning and development, infrastructure design, and traffic management. Topics include artificial intelligence, computing, virtual reality, surface transportation automation, emerging mobility services, unmanned aerial vehicle technologies, and much more. This material is suitable for anyone interested in disruptive emerging transportation technologies.

## **Governor Jay Inslee to Open ASCE International Conference on Transportation & Development**

Washington State Governor Jay Inslee to deliver opening remarks at the ASCE International Conference on Transportation & Development (ICTD). The conference will be held from May 31 to June 3 at Hyatt Regency in downtown Seattle. Delivered in partnership with Washington State DOT, the conference will include sessions from public sector leaders includes heads of five state DOTs, and leaders for private practice and academia. Detailed conference program and registration information can be accessed on the [ICTD website](#).

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## **Navneet Garg Named ASCE Fellow**



The Transportation & Development Institute congratulates Dr. Navneet Garg, Ph.D, M.ASCE, on being selected as an ASCE Fellow. ASCE Fellowship is a prestigious honor held by only 3% of members that are recognized for their contributions and achievements that change lives around the world.

Dr. Garg is a Program Manager in Airport Technology in the R&D Branch at the FAA's William J. Hughes Technical Center in Atlantic City, New Jersey. He has been actively involved in airport pavement research at the FAA's National Airport Pavement Test Facility since 1998. He manages projects on Full-Scale Accelerated Pavement Testing, Field Instrumentation and Testing, and Pavement Materials.

During his tenure, Dr. Garg conceptualized and developed the FAA's National Airport Pavement & Materials Research Center (NAPMRC) - a nine-million-dollar state-of-the-art research facility. In addition, he's authored several FAA technical reports and hundreds of research papers, and mentored a countless number of students - high school through Ph.D.

With such an accomplished career, Dr. Garg has received numerous awards and accolades including the 2018 [Airfield Pavements Practitioner Award](#), the 2004 Southern New Jersey Professional Societies Engineer of the Year Award, UIUC Chapter Chi-Epsilon Honor Member, International Society for Asphalt Pavements (ISAP) Board Member, Associate Editor of the International Journal of Pavement Engineering (IJPE), member of the TRB Committees on Geotechnical Instrumentation & Modeling and Aggregates, and current Chair of the T&DI [Airfield Pavements Committee](#). He is one of the founding members of non-profit organization [EduContests](#), and volunteers for [North South Foundation](#).

Dr. Garg earned his Ph.D. in Civil Engineering from University of Illinois at Urbana-Champaign in 1997, M.S. in Civil Engineering from Illinois Institute of Technology, Chicago, in 1993, and B.E in Civil Engineering from Karnataka Regional Engineering College (now National Institute of Technology), Suratkal, India, in 1990.

Congratulations, Dr. Garg!

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## NSF Workshops at ICTD 2022

### National Science Foundation Funding Workshop

Wednesday, June 1, 2022 | 6pm-7:30pm

This free workshop provides funding opportunities related to infrastructure systems and smart and connected communities at the National Science Foundation. Presenters will help attendees navigate the NSF proposal and review process, outline their specific expectations, and offer tips to complete error-free project proposals.

[NSF Funding Workshop Flyer](#)

### The Frontiers of AI-Empowered Methods and Solutions to Urban Transportation Challenges

Saturday, June 4, 2022 | 7:30am-5pm

Sunday, June 5, 2022 | 7:30am-12pm

The National Science Foundation is sponsoring another workshop just after the conclusion of ICTD at the University of Washington campus called *The Frontiers of AI-Empowered Methods and Solutions to Urban Transportation Challenges*. This workshop aims to identify the emerging research and education needs in both the transportation and AI communities.

[NSF AI Workshop Flyer](#)

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## Younger Member News

Are you 35 or younger and interested in networking with peers, making new friends, and sharing ideas? We're proud to announce that there are several events organized specifically for T&DI's Younger Members. #GetInvolved and see where the opportunity takes you!

## Younger Member Activities

### **Younger Members Social at Optimism Brewing Company**

Wednesday, June 1, 2022 | 7:30pm - End of Night

Get to know your new friends in a relaxing environment while taking in the ambiance of the city. Join us at [Optimism Brewing Company](#) for good beer and good conversation. This is your opportunity to unwind and socialize with no expectations or responsibilities except to have fun.

**RSVP for Optimism**

### **WSDOT Mentorship Workshop**

Wednesday, June 1, 2022 | 4:15pm-5:30pm

Looking for a mentor? The Washington State Department of Transportation has paired hundreds of young professionals with mentors throughout the state. Join Jeff Pelton, WSDOT Director of Human Resources & Safety; Jennifer Martin, WSDOT Talent Development Manager; and Alvina Mao, WSDOT Workforce Development Manager, for this one-of-a-kind workshop that offers a life-changing experience.

### **Younger Member Spotlight - Francis Tainter**



T&DI Younger Member Francis Tainter has always been interested in math and science, but it wasn't until he took an engineering class in college that he found the right fit.

Francis earned all three of his degrees from UMASS-Amherst and is currently a Research Assistant Professor at his alma mater. One of his proudest moments is earning his Ph.D during the height of COVID-19 and the passing of his father.

He's said his favorite thing about civil engineering is the people-serving aspect of the field. Some of his favorite projects include the Driving Simulator and the Flashing Yellow Arrow.

Francis is excited about attending ICTD22, where he can integrate with other younger members and once again participate in face-to-face meetings. His best piece of advice is ***"Hard work really does pay off. Everything pays off if you just keep working at it,"*** and the quote he lives by is, ***"Life is good."***

Indeed!

Thank you for letting us feature you, Francis!



## Follow T&DI on Social Media

Did you know T&DI is now on Instagram? Follow us there, on Twitter, and on LinkedIn for updates, promotions, networking opportunities, and much more.



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## Navneet Garg to Host Webinar on Life Cycle Assessment for Airfield Infrastructure and Sustainability Efforts

### Zero Carbon Emissions Webinar

Thursday, May 26, 2022 | 12pm  
EST

#### **Presentation 1:** CO2 in Concrete – Limit Setting

Speaker: Ms. Dorian Bailey,  
Chief of Science and Sustainable  
Construction, Engineering  
Department, PANYNJ

**Presentation 2:** Environmental  
Life Cycle Assessment and its  
Application for Airfield  
Infrastructure



[Click to Join](#): Passcode: 609965

Phone Dial-In:  
Call 1-888-924-3239; enter  
Meeting ID: 161 8570 8613;  
Passcode: 609965

Speaker: Dr. John Harvey,  
Professor of Civil and  
Environmental Engineering at the  
University of California, Davis

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## **FHA Announces Long-Term Infrastructure Performance (LTIP) Student Data Analysis Contest**

The Federal Highway Administration is pleased to announce the [2022 Long-Term Infrastructure Performance \(LTIP\) Student Data Analysis Contest](#). This contest encourages university students to use pavement or bridge performance data to study the various factors affecting long-term pavement and bridge performance, and to develop a technical paper documenting their research.

Undergraduate and graduate students enrolled in a college or university in the United States in 2022 are eligible to enter the contest. While students must be the primary authors, faculty may participate in an advisory role and be coauthors of the paper.

Here is a [sample of an exemplary paper](#). For more information, visit [InfoPave](#) or [InfoBridge](#).

Contest submissions are due by Friday, July 29, 2022, 11:59 p.m. ET.

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## **CHAPTER NEWS**

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### **ASCE T&DI UIUC Chapter Holds Board Elections**

The ASCE T&DI UIUC chapter have elected their new executive Board members for the academic year 2022-2023! The elections were held on May 4th in a general meeting. A review of the previous year activities was presented, followed by a discussion of next year ideas and a Karaoke night! Keep an eye on [their website](#) for more info!

### **Implementing Digital Twins (iTwin) for Design Review**

The [Connecticut Department of Transportation \(CTDOT\)](#) has retained Parsons to implement iTwin services on their I-91/I-691/Route 15 Interchange Improvements project in Meriden, CT. This presentation on May 10, 2022 highlighted various iTwin advantages such as web based program to review design elements and add comments, facilitates stakeholder collaboration and assist in asset management.

## **Philadelphia Chapter to Host Virtual Event Overview of Bipartisan Infrastructure Bill**

**Wednesday, June 15, 2022 | 12pm**

[Zoom Link](#)

Join us and our distinguished panel to learn how BIL (IIJA) will impact our industry. Key topics will include IIJA's five-year \$383.4 billion reauthorization for various programs, Amtrak's vision for expanding intercity passenger rail in the northeast and nationwide, and BIL's distribution and impact to PennDOT. This presentation is worth 1 PDH. For more details, visit [their website](#).

**IIJA Event Flyer**

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## **INDUSTRY NEWS**

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### **NatMec Virtual Conference - June 13-17, 2022**

Registration opened on February 1, 2022, for the National Travel Monitoring Exposition and Conference (NatMEC). 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. More information and registration information can be found at [natmec.org](https://natmec.org).

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## ASCE NEWS

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### ASCE's IIJA Implementation Series: Building A More Resilient Grid



#### ASCE's IIJA Implementation Series: Building A More Resilient Grid

Wednesday, May 25, 2022 | 3pm-4pm EST

Zoom Meeting

Join ASCE's Government Relations team and Whitney Muse (Chief of Staff for the Office of Electricity and the Office of Grid Deployment, DOE) on May 25th from 3:00 – 4:00 pm Eastern Time to learn more about how the agency is undertaking new programs to strengthen the resilience of our nation's grid, and what it means for transmission planning amidst a transition to renewables. The session will provide participants an opportunity to learn directly how the DOE is partnering with utilities and the engineering community, as well as state and local partners, and gain an understanding of the opportunities ahead for DOE funds. Register now for your chance to hear directly from the DOE and to ask questions about the status of new programs and changes to existing programs for the upcoming year.

[Register Today](#)

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# ASCE GOVERNMENT RELATIONS UPDATE

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## FHWA Issues Final Rule on Bridge Inspection Standards

The Federal Highway Administration (FHWA) on May 6th published a final rule updating the [National Bridge Inspection Standards](#) for highway bridges. The [final rule](#) outlines permissible inspection intervals for bridges and includes new time frames for updating inventory data. During the Notice of Proposed Rulemaking (NPRM) period, FHWA received 265 submissions to the docket, including a comment from ASCE that was sent in March 2020. The final rule accepts suggestions proposed in ASCE's comment, such as renaming the term "Fracture Critical" in a more descriptive way. Additionally, the final rule states unmanned aircraft systems (UAS) may be used to supplement a bridge inspection when their capabilities are able to meet the requirements of a specific task in the inspection process.

## Secs. Buttigieg and Granholm Testify at Appropriations Hearings; ASCE Shares FY 23 Funding Requests

Congressional appropriators continued to hear from top Biden Administration officials on the Fiscal Year (FY) 2023 budget. Many Senate Appropriations Subcommittee meetings have taken place as top appropriators in both the House of Representatives and Senate work on bipartisan negotiations on the top-line numbers for FY 23. Transportation Secretary Pete Buttigieg [testified](#) before the Senate Committee on Commerce, Science, and Transportation on May 3rd to speak about DOT's [FY 2023 budget priorities](#). During the hearing, Buttigieg said priorities include addressing supply chain disruptions and improving safety through actions such as eliminating highway-rail grade crossings. Secretary of Energy Jennifer Granholm appeared before the Senate Committee on Energy and Natural Resources on May 5th at a [hearing](#) to examine the FY 2023 budget request for her department. As Congress considers FY 23 appropriations, ASCE sent appropriators the organizations top funding priorities for the next fiscal year. Those letters included requests to the subcommittees on [Commerce, Justice, and Science](#); [Energy and Water](#); [Homeland Security](#); [Interior and Environment](#); and [Transportation, Housing, and Urban Development](#).

## ASCE Signs Industry Letter Supporting FY 2023 Funding for Bureau of Transportation Statistics

ASCE joined industry partners in [signing on to a letter](#) in support of the Bureau of Transportation Statistics' (BTS) budget for fiscal year (FY) 2023. Part of the Department of Transportation, BTS specializes in statistics on commercial aviation, multimodal freight movement, and transportation economics. Sent to appropriators in the House and Senate on May 3rd, the letter requests that BTS is provided with \$20 million during the FY 2023 appropriations process. According to the letter, this level of funding would support the administration's FY 2023 initiatives and provisions included in the [Infrastructure Investment and Jobs Act](#) (IIJA). ASCE relies on BTS data when producing the [Report Card for America's Infrastructure](#).

## **Bureau of Transportation Statistics Updates National Transportation Atlas Database**

The U.S. Department of Transportation's Bureau of Transportation Statistics (BTS) on May 6th released an [update](#) to the [National Transportation Atlas Database](#) (NTAD). A set of geographic databases of transportation facilities, networks, and associated infrastructure, NTAD includes spatial information and supports research and analysis across all modes of transportation. Updated layers include information on alternative fuel corridors and fueling stations, Fatality Analysis Reporting System (FARS) data, Congressional districts, marine highways, and railroad grade crossings. To raise the C- grade reflected on the [Report Card for America's Infrastructure](#), [ASCE believes leaders](#) from all levels of government, business, and labor should encourage the use of infrastructure data sets across classes and incentivize asset management.

## **ASCE Signs on to Transportation Construction Coalition Letter Supporting WRDA 2022**

ASCE joined Transportation Construction Coalition partners to send a [letter](#) to leaders on the Senate Committee on Environment and Public Works expressing support for the recently introduced [Water Resources Development Act](#) (WRDA) of 2022. The letter commended the lawmakers for keeping the bill on a biennial schedule and supporting U.S. Army Corps of Engineers (Corps) projects. The [bill](#) provides \$24.6 billion for 21 new Corps projects related to ports and inland waterways, flood risk management, storm risk reduction, and ecosystem restoration. It also includes policy provisions to protect shorelines against the effects of climate change, support the Corps' workforce recruitment efforts, and improve dam and levee safety programs. On May 4th, the Senate EPW Committee held a [markup](#) to consider the legislation and the bill was unanimously reported favorably to the Senate floor.

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## **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!

**Making the Case  
for Sustainable  
Infrastructure**

June 6 - July 15, 2022

[Learn More](#)

**Port Operations  
and Maintenance**

July 18 - August 26,  
2022

[Learn More](#)

## Live Online Training

**Construction and  
Management of  
Sidewalks and  
Recreational  
Trails**

June 9, 2022

[Learn More](#)

**Case Study: A  
Fresh Look at the  
Citicorp  
Engineering  
Ethics Dilemma –  
NEW**

June 15, 2022

[Learn More](#)

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- Choose your topic and learn on your own time.
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## ASCE Week Virtual

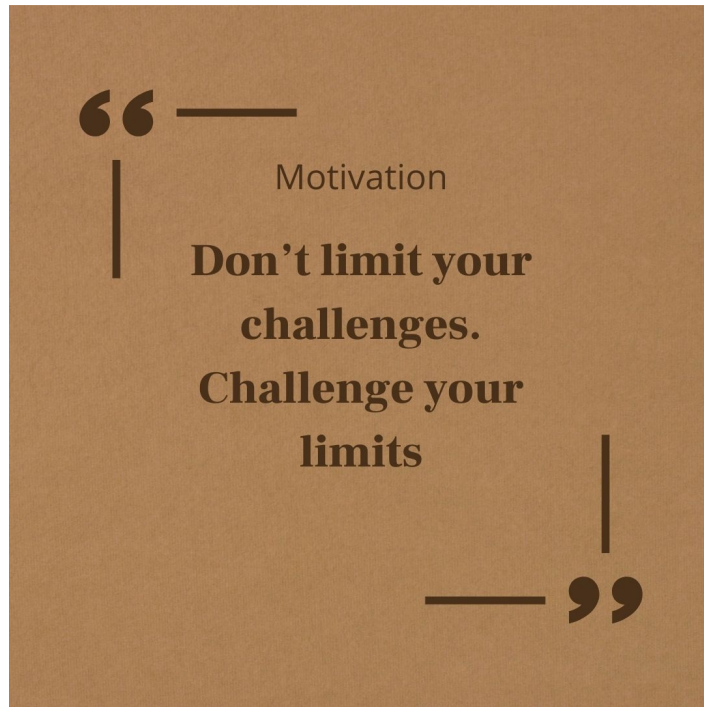
- June 13-17, 2022
- Fulfill your license renewal requirements in one week!
- New and popular topics
- Courses taught by experts in their fields
- Earn PDHs
- Choose one or multiple courses for additional savings

[Learn More](#)

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## Motivation Minute

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## AAPI Heritage Month

Thank you for helping us celebrate Asian American and Pacific Islander Heritage Month!

*“When you learn something from people, or from a culture, you accept it as a gift, and it is your lifelong commitment to preserve it and build on it.”—  
Yo-Yo Ma*



Thank you to all of our members!

Follow us on Social Media!



Questions? Comments? Concerns? Want to contribute to the next issue?

Please contact Melissa Willis at [mwillis@asce.org](mailto:mwillis@asce.org)



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