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president’s message

ITE Professional Development – We Share

Professional development (noun): the process of obtaining skills, qualifications, and experience that allow you to make progress in your career, including reviewing case studies, consultation, coaching, mentoring and technical assistance.

It’s October 2, 1930, and ITE was just formed. Fast forward to October 8, 1976, when I joined ITE. It’s now October 2020, and ITE is celebrating 90 years of serving its members and the transportation profession. One thing that has not changed in 90 years is ITE’s commitment to the career advancement of each of its members through professional development.

I can personally speak to my experience that spans nearly half of ITE’s existence. From the day Dr. Robert Layton introduced me to ITE at Oregon State to today, ITE was a central aspect of my professional development. It took on various forms as my career evolved. When I received my master’s degree from UC-Berkeley, ITE was a resource for finding a job and building a network. In those days, the professional directory was the source of employers that I reached out to for interviews. Today when I meet with students, I commonly hear, “I got my first job by coming to ITE meetings.” Things haven’t changed much.

As a young professional, I quickly learned I needed technical training and a greater understanding of project development. ITE has a Career Center, Learning Hub, Leadership, ITE Talks Transportation Podcast, Councils, Committees, meetings presentations, certifications, PDH record keeping, and awards to help you explore your passion in transportation in various ways, and has adapted them to fit in today’s virtual world. I was able to grow my knowledge of trip and parking generation, the Manual on Uniform Traffic Control Devices, traffic calming, speed management, and traffic signals through handbooks, seminars, presentations and, most importantly, technical committee participation. These groups provided a non-work space to explore issues (like parking generation, neighborhood traffic management, or this year, the use of big data during the pandemic and western fires). These topics were changing, but not commonly scoped on projects I was working on. Professional development allowed me to build competence and knowledge that I could later incorporate into projects.

As my career needs progressed, my experience with ITE leadership provided a safe harbor for learning as a committee chair and officer. I was able to quickly identify emerging topics and work in teams and serve on committees. Opportunities to present and share technical topics in a less risky setting allowed me to learn how to present effectively to communities, clients, and staff.

For employers, professional development helps build and maintain staff morale and can be used to attract higher quality talent to an organization. It fulfills an interest in lifelong learning and a sense of moral obligation to maintain and improve professional competence, keep abreast of new technology and practices, and comply with professional regulatory requirements.

ITE helps us shape our community in changing times. In the next 10 years we will see more change in transportation funding, technology, and innovation than in the 90 before. Taking advantage of ITE’s professional development offerings will help you keep pace with these changes. I know this because my career trajectory was guided and mentored through 40 years of change with ITE and its devotion to me as a professional.

RANSFORD S. MCCOURT, P.E., PTOE (F)
ITE International President
2020 Awards and Professional Development

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A Virtual Success

By all accounts, our first-ever virtual ITE Annual Meeting and Exhibition was a success, with nearly 1,800 participants during the two weeks of technical sessions, and many more joining in the 25 Council and Committee meetings held the third week. You can read highlights from the meeting in this issue of ITE Journal, and I want to take this opportunity to reflect on the event and thank those who contributed to its success.

It was with more than a little trepidation that we began developing the meeting, not knowing how well the program would translate to the virtual world, or if the technology would hold up. While we were able to gather lessons learned from other association colleagues, our meeting was the largest virtual event in the transportation field at the time of delivery—so we were pioneering, as well.

As I look back on the three plenaries, 30 technical sessions, 40 posters, eight workshops, 25+ exhibitors, and 10 social events, it all worked remarkably well. The virtual format allowed us to better manage the time allocated between presentations and questions better than what a live event permits. We reached members who have never attended an ITE Annual Meeting before, and recording all of the sessions gave registrants access to content they might have missed, even after the meeting’s conclusion.

While nothing replicates the social interaction of in-person meetings, we had some great social events using the virtual tools at our disposal. Thanks to John Davis and the Traffic Bowl Committee, Mike Salatti and Dan Beaty, and Dave Thatcher and Stantec for their efforts. Much appreciation goes to the Southern, Mid-Colonial, Midwest, MOVITE, Mountain, Northeast, and Florida Puerto Rico Districts for putting on excellent events.

Thanks to our Executive Committee—ITE International President Randy McCourt, International Vice President Alyssa Rodriguez, and Past President Bruce Belmore for their outstanding job in helping us deliver key elements of the program. Randy’s facilitation of the Opening and Closing sessions was carried off without a hitch, and Alyssa moderated one of the most impactful sessions, the Transportation and Equity Plenary. If you haven’t seen it, I highly recommend you watch the recording, available on YouTube.

I want to thank our Title sponsors—Cubic Trafficware, Econolite, Gannett-Fleming, GRIDSMART Technologies, Kimley-Horn, Miovision, Siemens, and Transoft Solutions—and all of our sponsors and exhibitors. Your support is essential to our success. And congratulations to all of our award winners.

Last, but certainly not least, I want to recognize the ITE staff. In March we began contingency planning for a possible virtual meeting. Much time was spent researching technology, engaging with speakers, exhibitors, and sponsors, developing schedules and scripts, building the online program and Guidebook, assisting attendees through the registration and access process, and providing behind-the-scenes support. The ITE staff shined as they turned that March vision into a very successful August reality.

While I look forward to being together in Portland, OR, USA at the 2021 ITE Annual Meeting, you can be certain that we will take advantage of the lessons learned from this year’s meeting to bring you more technical content virtually in the coming year. As always, you can connect with me on the ITE e-Community and on Twitter, @JeffPaniatiITE.
A Community of Transportation Professionals

90 YEARS

ITE
Obituaries
ITE recently learned of the passing of the following member. We recognize him for his contributions to ITE and the profession, and send condolences to his family.

Pioquinto Albert Ruiz, Jr., TSOS of Albuquerque, NM, USA passed away on June 30, 2020.

Letters in parentheses after individuals’ names indicate ITE membership status: S - Student Member; IA - Institute; M - Member; F - Fellow; R - Retired Member; and H - Honorary Member. Information reported here is based on news releases and other sources. If you have news of yourself or the profession that you would like considered for publication, please send it to Holly Stowell, hstowell@ite.org.

New Members
ITE welcomes the following new members who recently joined our community of transportation professionals.

Canadian
Matthew Buttrum
Shunxian Ou
Robin Marinac
Viktoriya Zaytseva
Rhett Soderberg

Mid-Colonial
Joseph Roman
Catherine Seebauer
Joshua Wolfgram

Midwestern
David Michael Siskowski
Ronald M. Rauchle, P.E.
Roberto Partida
Devon Dezort

Mountain
Tyler Schmidt
Jacob Mark Rogne
Benjamin Andrew Focht

Northeastern
Sarvjeet Singh

Southern
Lauren J. Triebert

Western
Greg McKhann
Harry Yip
Jay J. Henriksen
Robert Que Asuncion
Zoey Zhang
Pete Eyre
Anna Hartounianmishehparaei

Texas
Nader Ayoub
Trinh Ngoc Phuong Hoang
ITE NEWS

Community Corner
Community Corner highlights the efforts of ITE members to not only encourage transportation education among our youth but to improve the daily lives of people in their community beyond transportation through acts of service.

First In, Last Out - Volunteering Under Fire
Meet the chair of ITE’s Sustainability Standing Committee and vice chair of the LeadershipITE (LITE) Committee (LITE Class of 2016) Keith M. Hall, P.E., PTOE, LEED AP, STP, IMSA II (M), who is an active firefighter/EMT. He officially joined the volunteer ranks in 2007 after growing up in the firehouse environment and following in the footsteps of his father, who was also a volunteer firefighter. Keith has served in the volunteer fire service for several towns in New Jersey, USA, having accumulated countless hours responding to calls and extensive training spanning topics from fireground strategy and tactics, incident command, hazardous materials, vehicle extrication, emergency medical services, and everything in-between.

As part his volunteer role, Keith has served in fire line leadership as a lieutenant, fire company executive board positions from secretary to president, and numerous fire company committee chair roles and representative appointments. Most recently, he leveraged his engineering skill set volunteering to help design and spec a customized fire pumper apparatus for his hometown fire department. Keith remains an active first responder during the COVID-19 pandemic, continuing to serve his community. He extends his gratitude to all first responders, healthcare workers, and those on the frontline battling each and every day. In a number of U.S. states, October 28 is becoming recognized as National First Responders Day, and there is a campaign by the All Clear Foundation to have the day officially recognized.

Fire Prevention Week begins October 4. The 2020 campaign is “Serve up Fire Safety in the Kitchen!” and is designed to teach the simple but important actions we can take to keep ourselves and those around us safe in the kitchen. Cooking is the number one cause of home fires and home fire injuries, sparked by unattended cooking. Fire Safety Awareness is promoted each October, reminding everyone that smoke and carbon monoxide detectors save lives!

We want to hear from you!
Have you, your Section, or Chapter taken on a community project or provided assistance to a non-profit organization? Large or small, we want to hear about it! Please send photos (300 dpi or higher) along with a write-up (no more than 200 words) to Pam Goodell, pgoodell@ite.org for inclusion in a future issue of Community Corner.

ITE Talks Transportation Podcast

New from the Thought Leadership Series
Futurist Garry Golden shares how he sees the global COVID-19 pandemic shaping future outcomes for the transportation industry as a whole and for professionals. He explores future scenarios and discusses the various outcomes that could be in store for the industry, and identifies opportunities that could be advantageous to the transportation sector. Garry was a Plenary Speaker at the 2020 ITE Annual Meeting and Exhibition and the session was sponsored by the ITE Consultants Council.

All episodes available at www.ite.org/learninghub/podcast.asp | Subscribe for free via iTunes at http://apple.co/2hOUz8t
ITE Micromobility Sandbox Design Competition

Held in conjunction with the 2020 Virtual ITE Annual Meeting and Exhibition, the goal of the ITE Micromobility Sandbox Design Competition was to identify innovative solutions where current and future micromobility can co-exist with both faster and slower moving options.

Cities are being challenged by a growing number of micromobility options that are changing the way we need to look at mobility within our downtowns. Demand on curb space is increasing. Traditional uses such as parking, package delivery, and pick-up/drop-off compete with the desire to incorporate bike lanes, shared bike and e-scooter storage, as well as non-transportation uses as sidewalks cafes, rain gardens, and parklets. Moreover, new micromobility options such as e-scooters, e-bikes, and other devices are bringing a new set of challenges. Due to the limited right-of-way, cities must grapple with the challenge of accommodating all users.

The challenge for teams was to develop innovative design solutions that can best accommodate the range of users of urban rights-of-way, including current and future micromobility options. The competition focused on a three-block section in Las Vegas, NV, USA on Bridger Avenue from Casino Center Boulevard to Las Vegas Boulevard. As part of the challenge, teams were also asked to apply this solution to another community of their choosing.

Projects were scored in three categories: innovation, impacts, and applicability. After thoughtful deliberation, the panel of judges chose four finalists to present their solutions at a program at the Annual Meeting on Tuesday, August 4, who provided a great display of diversity and innovation in their solutions. In addition, three Honorable Mentions were awarded in the Professional category. The winners were announced at the Power Plenary on August 6, 2020 by ITE International Immediate Past President Bruce Belmore, who also chaired the judging panel.

The following article includes highlights from the competition, comments from the judges, snapshots from the projects, and a Q&A with ITE Immediate Past President Bruce Belmore on the inspiration behind the competition.

Designing for Las Vegas, NV, USA

"On behalf of the City of Las Vegas, I would like to thank ITE for the opportunity to partner with them on this competition and all of the participants for taking the time to share their innovative ideas. It was clear from the start that much thought and effort went into each of these submittals, and the city feels very fortunate to have been on the receiving end of so many promising ideas that we can consider for our future projects.

More often than not, Las Vegas’s bright neon lights drown out our topnotch transportation infrastructure. However, the city has invested $315 million in transportation infrastructure throughout our downtown core just over the past six years, so the integration of Complete Street concepts and new mobility options are certainly on the forefront of our minds as we plan and design for the future."

— Joey Paskey, P.E., PTOE (M), Deputy Director/Transportation Manager, City of Las Vegas
Student Competition

**Winner:** Ryerson University – Toronto, Ontario, Canada

**Team Members:** Maya Higeli, Joseph Magnoli, Neha Patel (S), Odin Ahlers, Mathias Sawicki, Marwa Al-Saqqar, Sujan Kisiju, and Sarah Matti

The winning design from the student competition from Ryerson University reduces vehicular dependency and makes an inviting environment for other modes of transportation, all while maintaining traffic flow.

- Two-meter lane width allows riders to pass others if required
- Reduces vehicle lane width, forcing motorists to slow down and monitor their surroundings
- A left-turn bike box to allow micromobility devices to easily navigate the environment

Through **landscaping**, the proposal revitalized Bridger Avenue while focusing on micromobility amenities

- Uses native vegetation as a buffer between pedestrians and the micromobility lane, uses banners to enhance placemaking
- Focused on amenities that facilitate micromobility use – benches, parklets, micromobility parking
- Municipal bike zones with seating that offer bike repair stations

**Three traffic phases** for the intersections to reduce the cases for vehicles, pedestrians, and micromobility users to share the right-of-way.

**Design Implications:** Safety

- Intersection design reduces pedestrian/cyclist conflict with motorists
- Additional buffer space between vehicle and cyclist right of way provides cyclists with additional clearance
- Accessibility is key. Curb ramps are placed from the mm lanes to sidewalks to access bike stops
- Tactile surface indicators are used at intersections and cycle lane crossings

**Case Study Location:** Front Street W., Toronto, Ontario, Canada

**WHAT THE JUDGES SAID**

“Thought about the conflict points at intersections between the various users.”

“Showed transferability to a city that gets snow.”

“Great graphics to articulate ideas!”

“Thought about the conflict points at intersections between the various users.”

[Diagram of traffic phases]
IDEAS | inside ITE

WHAT THE JUDGES SAID
“Obviously did their research on the city. Felt personal.”

Professional Competition

Winner: Toole Design Group
Team Members: Ella Ryan (M), Carly Haithcock (M), Gwen Shaw (M), Perrin Falkner, and Thomas Hillman

The Micromobility Design Toolkit presents design solutions that cities and communities across the United States can apply to address safety and economic vitality, and to bring comfort, joy, and life back to their streets—proactively accommodating and realize the benefits of micromobility.

Rapid Implementation Project Delivery – The recommended project delivery approach is to rapidly implement temporary design solutions allowing for performance and outcome testing, public and agency feedback, and adjustments—all before significant funds are invested.

The East Bridger Corridor, Las Vegas Toolkit Application envisions an oasis in downtown Las Vegas with shade, public space, and thriving local businesses. East Bridger Avenue is transformed into a multimodal street that safely accommodates micromobility devices now and in the future.

East Bridger Avenue Corridor Reimagined – The redesigned corridor optimizes safety, operations, and economic development along the corridor, with an emphasis on micromobility.

Micromobility Lane Extension Pavement Markings at intersections and driveways enhance safety at conflict points with motor vehicles.

Parklets – Expand existing park space and frame the corridor

Economy – Concentrated placemaking elements spur economic development

Loading Zone – Allows for goods and people loading and unloading at local small business, and deliveries to offices

Pop-Up Market – Space activated for season holiday, or regular farmers’ markets

Curb Radius Reduction/Median Protection – Curb extensions and median nose protected with gravel paint and flexposts/planters, or more permanent materials

Case Study Location: South Bend, IN, USA
Makings of the Micromobility Competition

ITE International Past President and chair of the judge’s panel for the Micromobility Competition Bruce Belmore, P.Eng., PTOE, VMA (F) shares his perspective on the value of the competition, how judges were selected, and what the projects presented ultimately say about the diversity and talent that exists within ITE.

ITE Journal: How did ITE go about choosing the topic of micromobility for this design competition?

BELMORE: The idea was inspired during last year’s ITE Annual Meeting in Austin, TX, USA, where there is a lot of scooter use downtown. During a Mobility as a Service/Mobility on Demand Plenary Session at the meeting, Karina Ricks from the City of Pittsburgh, PA, USA mentioned they were going to scrap their bicycle network plan—which had taken three years to develop at that point—to instead look at the development of lanes that could accommodate a variety of modes. The intent was to look at a new version of the Complete Streets concept, which was initially about the better integration of transit. The new Complete Street would need to address the growing popularity of micromobility options.

ITEJ: Why was there a separate student and professional competition?

BELMORE: The intent of having a student competition was really two-fold. First, if you do a Google search on micromobility, you will find there is really good work being done at the university level on this topic, and we saw a chance to further engage interest in ITE from student members. Secondly, it was an opportunity for students to gain a broader perspective on transportation. They would need to think about the users of the corridor, and issues like signal timing and traffic safety. Students would have an opportunity to conduct research, learn about something topical, and look at practical application of their knowledge.

ITEJ: What was the process of selecting the judges, and why did you ultimately choose the ones you did?

BELMORE: We saw much of the judging panel made up of representatives of public agencies. They are the infrastructure owners who have to deal with competing need for space in the street cross-section. We also had the private sector represented as those providing workable solutions to the growing attraction to scooters and other micromobility options. We also had the City of Las Vegas represented directly. The competition was focused around a street in Las Vegas, NV, USA so it was good for us to understand what the host city would like out of a micromobility solution, and how that could look different than the bike lane already present along the study corridor. The city graciously provided all the background information needed for our competition.

ITEJ: How do you think the projects reflect the diversity of talent and innovation that exists within ITE?

BELMORE: The judges were extremely excited to see the diversity of submissions received and the innovation that our members brought to the competition, and the results exceeded our expectations. We saw diversity in the submissions, partly because they came from different geographies across the United States, as well as Australia and Canada. While I expected similar themes, each of the submissions proved unique in their own way. Each displayed really good ideas that could successfully be transferred elsewhere. I hope that ITE continues to showcase cutting edge ideas of our members through similar competitions.

Judges

Chair
Bruce Belmore,
P.Eng., PTOE, VMA (F)
WSP

Jen Malzer, M.Sc., P.Eng. (F)
City of Calgary

Jennifer Toole (M)
Toole Design*

Jennifer Toth, P.E. (M)
Maricopa County

Peter Koonce (M)
City of Portland

Joey Paskey, P.E., PTOE (M)
City of Las Vegas

Johanna Zmud (M)
Texas A&M Transportation Institute

*Due to Toole Design’s entry, Jennifer Toole was recused from judging the professional competition.
Student Competition Finalist
University of Southern California

WHAT THE JUDGES SAID
“Good use of data to drive the solutions.”

Professional Competition Finalist
Stantec

WHAT THE JUDGES SAID
“Loved the timing technology, signal operations.”

WHAT THE JUDGES SAID
“Well done in innovation and impacts and applicability.”

“Design highlights were well done, lot of efforts and well written the research was very well done.”
Honorable Mentions were awarded by the judges to the following teams:

Sanderson Stewart
“Sanderson Stewart Design Studio Jam Session”

WHAT THE JUDGES SAID
“Made the street a destination and created a user experience.”

The team from Sanderson Stewart was the only team in the professional competition to submit the optional video. The judges said it was extremely high quality and well produced. Check it out here: http://bit.ly/SandersonVideo.

Ratio Consultants
“Team Ratio”

WHAT THE JUDGES SAID
“Liked the fact they thought about faster and slower-moving lanes for micromobility users.”

Snyder and Associates
“People Movers”

WHAT THE JUDGES SAID
“Highly innovative micromobility engineering coupled with the use of renewable energy and public art for a true interdisciplinary solution.”

Participating Teams

Professional Competition
Toole Design Group
Stantec
AECOM
Sanderson Stewart
Walker Consultants
Michael Baker International
Arcadis
Ratio Consultants
Snyder and Associates

Student Competition
Ryerson University
University of Southern California
University of Kansas
Florida International University
University of Central Florida
University of Tennessee
Milwaukee School of Engineering
California Polytechnic State University – San Luis Obispo

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THE DEADLINE TO APPLY FOR THE FEBRUARY 2021 EXAM PERIOD IS DECEMBER 3, 2020

www.ite.org  October 2020
ITE STEM Committee

The **ITE STEM Committee** under the ITE International Board of Direction is tasked with growing and developing ITE’s involvement in science, technology, engineering, and math (STEM) outreach at the K-12 level. The committee is composed of passionate ITE members who enthusiastically volunteer their time to advance this cause through a variety of different efforts. This article features more on what the committee has been up-to and what activities are being pursued.

**STEM Activity Day at the 2019 ITE Annual Meeting**

The ITE STEM Committee organized an exciting day of transportation-themed STEM activities at the 2019 ITE Annual Meeting in Austin, TX, USA. K-12 students from the local Austin community, as well as children of ITE members and attendees, were invited to participate. Volunteers brought transportation topics to life by guiding the kids through hands-on activities on sign design, retroreflectivity, and multimodal network planning. In addition to the STEM Activity Day, a technical session at the conference featured a panel of student stars who shared their perspectives on transportation topics in a session called *Generation Z – The Fortnite Evolution*.

**STEMx Network: Resources & Partnership Opportunities**

The STEMx network is a valuable resource that highlights STEM best practices throughout each of the U.S. states and shares STEM activities/resources across states. As described on their website: "the STEMx network is a multistate STEM network that provides an accessible platform to share, analyze, and disseminate quality STEM education tools to transform education, expand the number of STEM teachers, increase student achievement in STEM and grow tomorrow’s innovators. The network is composed of leading STEM organizations across more than a dozen states/territories."

They share several resources from the partners within the STEMx network and provide information about their efforts to promote STEM within their respective states/regions. STEMx strives to Educate, Engage, and Exchange information throughout their member states. STEMx can be accessed at https://stemx.us. The ITE STEM Committee is exploring partnership opportunities with STEMx for future ITE STEM outreach efforts.
STEM Outreach Part of New Criteria for Section Award
The ITE STEM Committee developed and successfully advocated for the inclusion of STEM outreach into the annual awards criteria. This year for the first time, a Section’s involvement in K-12 STEM outreach was included as part of the scoring criteria for the Section Activity Award. Consequently, when two Sections are neck-and-neck in the scoring, a couple of K-12 STEM outreach events could make a big difference. As an example, the Arizona Section stood out amongst its peers due to its heavy involvement with the Arizona Future City competition and for having one of its officers take part in an NBC News Learn video about transportation engineering. Next year, when your Section prepares its Section awards submittal, what K-12 STEM activities will you include?

ITE Spotlite Featurettes
For the past several months, each edition of ITE’s biweekly newsletter Spotlite has featured a STEM outreach-related write-up, such as a description of a STEM activity hosted by a District, Section, or Chapter or the promotion of a STEM resource. These Spotlite write-ups have provided a great avenue to share STEM activities with the wider ITE membership, encouraging others to get involved or share their own resources with the STEM Committee.

STEM Committee Members
Jennifer Warner Hayman, P.E. – Chair
Karen Aspelin, P.E., PTOE – Vice-Chair
Stephanie Ivey, Ph.D.
Melisa Finley, P.E.
Tim Foster, P.E.
Adam Greenstein, P.E., PTOE
Ravali Kosaraju, PE, P.E., PTOE
Beverly Thompson Kuhn, Ph.D., P.E., PMP
Ryan Martinson, M.Eng., P.Eng.
Mohjaba Al Mohammadi, Ph.D.
Emmanuel Nketah
Suzanna Set, P.E., PTOE
Charles Stevens, P.E., PTOE, RAS
Gaby Tassin, P.E., PTOE

We infused innovation into a wastewater treatment facility to strengthen a community.

EVERYONE’S A WINNER.

We’re Olsson, engineers who understand that where there’s a project, there’s a purpose. See how we used a bio-tech approach in Batesville, Arkansas, to upgrade an important piece of infrastructure at olsson.com.
Learn at Home: STEM Transportation Search Activity

In April, when most school children were doing their classwork from home, the ITE STEM committee developed the “Transportation Search” activity sheets for the elementary, middle, and high school level. A scavenger hunt that can be completed within your neighborhood, the Transportation Search activity link was clicked more than 1,100 times in just a few weeks. The main goal of the activity was to get kids outside to look for (and think a little more about) neighborhood transportation features that they probably see every day. Check out our website for other fun activities for all ages.

Partnership with the Diversity & Inclusion Committee

Promoting and supporting diversity and inclusion in the transportation field is an important part of being an ITE Member. The ITE STEM Committee has been working with the ITE Diversity & Inclusion (D&I) Committee to develop guidelines and content related to incorporating D&I into STEM outreach programs and activities.

It is essential that we create a diverse and inclusive environment for all ITE-sponsored activities, particularly so for outreach activities as they engage the transportation professionals of the future. ITE strives to provide an opportunity for ALL students to learn about the transportation profession (and engage in STEM outreach projects and programs) and strives to make sure that ALL participating students feel welcomed, included, and respected. The ITE STEM Committee is proud to partner with the ITE Diversity and Inclusion Committee on this important effort.

Future City Competition

Future City Competition (FCC) is one of the nation’s leading engineering education programs and has received national recognition and acclaim for its role in encouraging middle school students to develop their interest in STEM. ITE is involved with FCC in multiple ways:

• ITE was invited to participate on the FCC “2019 Eye on Engineering” webinar, which provides an opportunity for organizations to shine a light on their specific fields of engineering and get kids thinking about how that type of engineering can be incorporated into their Future City projects.

• ITE sponsors a Special Award, titled “Best Transportation System for the Community,” at the National FCC Finals, which are typically held in Washington, DC, in February.

• Multiple ITE Districts, Sections, and Chapters sponsor regional FCC awards — such as the Arizona Section’s “Best Multimodal Transportation System” award and the Idaho Chapter’s “Most Multimodal Transportation Network” award. The Idaho Chapter received a thank you video from the winning team.

How to Get Involved in the Future City Competition

Sponsoring regional awards and volunteering as judges are two of the countless ways ITE Districts, Sections, Chapters, and individual members can get involved. Contact your FCC Regional Coordinator for more information.

Winning model for the 2019 “Best Transportation System for the Community” at the National Future City Competition.

Winning team and model for the 2019 “Most Multimodal Transportation Network” for the Idaho Regional Competition.
Assisting UNC with the Development of STEM Lessons on Pedestrian Safety

The University of North Carolina (UNC) Highway Safety Research Center, as part of a larger Safe Transportation for Every Pedestrian (STEP) initiative for FHWA, is developing K-8 STEM materials focused on pedestrian safety. ITE’s STEM Committee has been asked to help! In August, committee members were provided five draft lessons for review and feedback. The lessons include activities with names like “Let’s Connect Our Community,” “Need for Speed,” and “Can I Get There from Here?” When completed, the lesson plans will be available for use by both transportation professionals and non-transportation instructors to introduce kids to concepts related to pedestrian safety.

ITE Innov8 Events for 2020 National STEM/STEAM Day

The ITE STEM Committee is developing resources to assist the ITE Sections, Chapters, and Student Chapters who wish to host STEM outreach events as part of the upcoming National STEM/STEAM Day on November 8, 2020. The suggested transportation-themed STEM activities will provide maximum flexibility/adaptability to accommodate both in-person and virtual outreach events. Even in a virtual educational environment, STEM outreach is still possible and can provide important educational opportunities for students who would not otherwise be exposed to these topics. Start brainstorming now about what schools or organizations you would like for your local ITE Chapter to partner with this fall! itej

Connect with Us

1) Join the ITE e-Community “K-12 STEM Outreach Network” group, an informal home for ITE members to share resources and best-practices, ask questions, talk about lessons-learned, and more.

2) Become a local or regional STEM Outreach Representative, our network of ITE members who organize, lead, or participate in K-12 STEM outreach. Sign-up via our online survey at www.surveymonkey.com/r/M696ZZY

3) Send us an email at STEM@ite.org. We always welcome new ideas for STEM activities and love to hear about ITE members’ experiences of STEM outreach events with K-12 students.

ClearMobility™ uses smart sensors, cloud-enabled software and end-to-end managed services to reduce traffic congestion and improve safety for all road users.

Mobility Simplified.
Catching up with ITE’s Diversity Scholar

Sebastian Velazquez is the Neel/Voigt ITE Diversity Scholar for 2020, and is one of two inaugural Diversity Scholars named last year. ITE Journal caught up with Sebastian to ask about his first year of school at Texas University A&M-Kingsville, his future career plans, and how he is dealing with the changes brought on by the COVID-19 pandemic.

ITE JOURNAL: How was your first year of college at Texas A&M University-Kingsville, and what were some of the highlights of your year?
VELAZQUEZ: The first year of school was a blast. I met new people from both here and outside the United States—people from Croatia, from Sweden, and Africa. It was nice to see how different people are from different places around the world. Classes are a challenge, but in a good way. Professors push you beyond your comfort zone to learn new things in new ways. They push you to where you can learn yourself, and they’ll give you strategies on how to study well, how to study with other people, how to talk to other people, and how to talk to people outside of school when you’re doing a job. I’m having a really good experience with my advisor as well. I joined the Society of Hispanic Professional Engineers. We visited the City of Corpus Christi and discussed blueprint plans and new buildings. We discussed the construction of new roads, perfecting them to help traffic flow better. I also played a lot of intramural sports—soccer, volleyball, and basketball.

ITEJ: How have you dealt with the changes brought on by COVID-19?
VELAZQUEZ: The university told us not to come back after spring break when COVID was hitting hard, so I haven’t been back to campus since March 16. This summer my dad and I worked maintenance, helping fix people’s homes. In the family, my dad is the one who is going out and taking risks in order to work, but he takes all the precautions to protect himself. It’s a lot to take in. I came back to Kingsville around the last week of July. I got an apartment so I wouldn’t have to be on campus since there are some COVID cases, and I was hired on the spot for a job in my building with the maintenance team. To distance myself, I’m taking all online classes. But the professors are still on campus if I need face-to-face help. I have also had Zoom meetings with my engineering club.

ITEJ: Do you still plan on studying civil engineering or have you become more focused on a specific area in the profession?
VELAZQUEZ: I’m still set on civil engineering, and am considering a double major in civil and architectural engineering. My advisor said in the future, civil engineers will always need an architectural engineer, and some the basic classes for architectural and civil engineering are the same. Coming into my junior year, we’ll look at my curriculum, compare it, and see which classes I’m going to need and which classes I already have.

ITEJ: How has being an ITE Diversity Scholar impacted you the last year?
VELAZQUEZ: The help ITE gave me with this scholarship money—without it, I wouldn’t be here completing my goals and my dreams. It was a huge blessing to have that money coming in, allowing me to live a new chapter of my life. My advice for future college students is don’t hesitate to just try and get a scholarship. If you don’t get it, there’s always another one you can apply for. Don’t hesitate to ask for help from your counselors—speak up for yourself and don’t stay quiet.

ITE Diversity Scholars Program

The purpose of this program is to increase underrepresented populations participation in the transportation profession by supporting increased diversity at the undergraduate level. This program is open to any U.S. high school student of African-American; Native American, Alaskan, and Hawaiian; or Hispanic/Latino heritage with an interest in a career in transportation and seeking to study transportation engineering, planning, or in a related-field at a school with an established ITE Student Chapter. Financing is provided through the ITE Legacy Fund.

ITE Will Begin Accepting 2021 Diversity Scholar Applications October 15th
Visit the Diversity Scholars Program page at www.ite.org/membership/diversity-scholars-program to find out how eligible students can apply for the scholarship. Scholars will receive a total of up to $20,000 in scholarship support (up to $4,000 annually per student for up to 5 years of undergraduate enrollment).
2020 EVENTS

Due to the fluid nature of COVID-19, event dates and times are subject to change. For an up-to-date listing of ITE event information, please visit https://www.ite.org/events-meetings/event-calendar/.

TEXAS DISTRICT ANNUAL MEETING
October 20-22 | Virtual Meeting
Visit www.texite.org for more information.

MET SECTION ANNUAL MEETING
November 12 | Virtual Meeting
Visit www.ite-metsection.org for more information.

2021 EVENTS

JOINT ITE INTERNATIONAL AND MOUNTAIN AND WESTERN DISTRICTS ANNUAL MEETING AND EXHIBITION
July 18 – 21 | Portland, OR, USA

WHERE IN THE WORLD?

Can you guess the location of the “Where in the World?” photo in this issue? The answer is on page 50. Feel free to send in your own photos to hstowell@ite.org. Good luck! itej
Florida Puerto Rico District Administrator

Peter J. Yauch, P.E., PTOE, RSP2I, ISMA III (F)
TSM&O Program Manager
Iteris, Inc.

A long career in transportation began in the early 1970s for Florida Puerto Rico District Administrator Peter J. Yauch, P.E., PTOE, RSP2I, ISMA III (F), and he has been a proud member of ITE for 45 years. When Pete stepped in as District Administrator in 2017, there had been two previous people in the position and, as an active member, he had worked with both of them and was familiar with their efforts. As with most districts, the Florida Puerto Rico District Administrator’s main role is to provide continuity of guidance to the District Board, along with assistance and support as needed. There are administrative tasks, such as preparing officer notebooks and ordering shirts and name badges for the board, answering membership questions, tracking continuing education credits, finding meeting venues, and assisting in various ways during meetings and ceremonies.

Pete was fortunate to know from a young age what he wanted to do with his life. In elementary school, he developed an interest in traffic control devices, his annual science projects typically had some sort of traffic theme, and he even restored an old traffic signal while he was still in high school. Upon entering college at Georgia Tech, he says he was fortunate to get to know Professor Peter Parsonson, a noted educator on traffic signalization, with whom he consequently worked as a student research assistant for three years.

Upon graduating, it was assumed that he would work for the City of Atlanta, GA, USA on their new signal system, since he had interfaced with them so much during school. But after going through the interview process, the city had a hiring freeze. With graduation looming and no job secured, Pete interviewed with Tom Stout of the Atlanta office of JHK & Associates and ended up working with JHK for eight years, until he moved back to his hometown in the Tampa Bay area. Since that time, Pete’s work has been in both the public and private sectors, including serving as a Florida Department of Transportation district signal systems engineer, the city traffic engineer for Clearwater, and the director of transportation for Pinellas County. He is currently with Iteris, Inc., after their acquisition of Albeck Gerken, Inc., in 2019.

Pete’s history with ITE and its impact on his professional life are a great testament to the value in being active and engaged. “I joined as a student member in 1975, so we’re looking at 45 years as a member. We were the Institute of Traffic Engineers at the time, and the magazine, then called Traffic Engineering, included some great articles, like how to use 8-millimeter movie cameras to record intersection operations and explaining the concept of dual ring actuated controllers,” Yauch says.

“Peter is such an asset to the District in so many ways. His institutional knowledge is invaluable and he always steps up to the plate to provide direction and support to our members and leadership.”

– Thuha Nguyen, P.E., PTOE (M)
Getting to Know ITE’s Florida Puerto Rico District

Membership
Approximately 920 members

Student Chapters
10

District Leadership
President – Elizabeth Birriel, P.E., PTOE (M)
Vice President & Program Chair – Vishal S. Kakkad, P.E., PTOE (M)
Secretary & FLITE Editor – Catalina Echeverri, PMP (M)
Treasurer & Membership Chair – Kari Pucker, P.E., PTOE (M)
FLPRITE District International Director – Andrew Velasquez, P.E., PTOE (M)
Immediate Past President – Thuha Nguyen, P.E., PTOE (M)
Florida Transportation Planning Council Chair – Robert (Bob) Agrusa, P.E., PTOE (M)
Florida Urban Traffic Engineer’s Council Chair – Benton S. J. Bonney, P.E. (F)
District Administrator – Pete Yauch, P.E., PTOE, RSP2I, IMSA III (F)
Associated Business Division Representative – Ian Cardozo

Did You Know?
- In 2019, the Florida Puerto Rico District hosted their annual meeting in San Juan, Puerto Rico, the first time it was hosted outside of Florida, and two short years after the catastrophic Hurricane Maria devastated the island.
- The District has reinvigorated their student engagement in the last few years, including the creation of three new Student Chapters. The District Board and members provide ongoing support to all the student chapters.
- In 2018, a Winter Workshop was hosted in conjunction with the first-in-the-State Student Leadership Summit at the University of Florida at Gainesville. The District is proud to continue to support the summits in the following two years and counting.
- A recurring event at District meetings is “Shark Tank” competition, which provides an opportunity for students to pitch their thesis as part of a request for “funding.” The process provides students with public speaking practice, learning to tell their story within the allotted time, and answering tough questions from potential “investors.”

Historical Perspective
- A Florida Section of the Institute of Traffic Engineers was formed in 1947, but later became inactive. The Florida Section was re-established in 1960 and celebrates its 60th anniversary this year.
- One ITE International President has hailed from Florida—John Freeman (2003). However, a number of Past Presidents have moved to Florida. ITE Past President Ed Mueller (1977) was a founder and initial president of the Florida Section in 1960. He also served as secretary of the Florida Department of Transportation, and was president of the Florida Transit Association in 1975.
- The Puerto Rico Section was established in 2005.

Pete Yauch observes that there are two big benefits from ITE that have each helped him significantly over the years: the technical resources, and networking with members. “In your early years—learn, learn, learn. Strive to become known as an expert in one or more fields. I had become JHK’s go-to guy for controller equipment; that led into being the principal investigator for a series of Federal Highway Administration training courses on signal controllers, and that led to writing an NCHRP synthesis on controller equipment—all before I was 35. Then, work to mentor the younger professionals coming after you. Share your experiences with them.”

The last five years have seen exciting changes as the Puerto Rico Section has really taken off, and merged with the Florida District to become the Florida Puerto Rico District. With the reorganization under ONE ITE, the Florida Section will be replaced with Chapters being elevated to Sections. The District meeting was held in San Juan, Puerto Rico late last year. Great things are ahead, thanks to dedicated leaders like Pete!
Looking Back: Transportation through the Decades

In celebration of ITE’s 90th anniversary, throughout 2020 ITE Journal will feature a monthly snapshot of the transportation industry by decade, beginning with the turn of the 20th century through present day. These are the technologies, events, and key players that transformed transportation to bring us where we are today.

2010s

The last 10 years represented a time of change for ITE and a new era of growth. Since 2015, ITE has been led by a new CEO and executive director for the first time in nearly 30 years—Jeffrey Paniati, P.E. (F). Among its many achievements over the last decade, ITE founded the LeadershipITE program in 2014 with more than 100 graduates to date, developed a new Strategic Plan (2018-2020), and through the ONE ITE initiative established the new Mountain District, 16 new Sections, and a more consistent and enhanced member experience. Five Institute Initiatives were also established—Vision Zero, Connected and Automated Vehicles, Transportation and Health, Smart Communities, and Mobility as a Service/Mobility on Demand—allowing ITE to lead on the most critical topics in the transportation field today. As new technology and business models have transformed the industry landscape in the last decade, ITE has evolved into a global community of more than 16,000 transportation professionals who diligently work to shape their communities for the better.

The inaugural class of LeadershipITE poses in 2014 in Washington, DC, USA. LeadershipITE was designed to identify, develop, and engage leaders for the future of ITE and the transportation profession.

Rideshare Ramps Up

The advent of transportation network companies (TNCs) represents a shift in how transportation options are made available to the public. The two largest companies are Uber, which started in 2009, and Lyft, founded in 2012. Riders simply use their mobile phone to summon a rideshare service, and payment seamlessly occurs via the app’s platform. A recent Pew Research Center poll found that more than one-third of Americans had used a ride-hailing service by 2019, double the amount from a previous survey in 2015.

Many airports have a separate pickup location for rideshare companies, like this one at the Montreal Pierre Elliott Trudeau International Airport in Canada.
**Connected and Automated Vehicles (CAVs)**
The development and testing of autonomous vehicles has exploded in the past decade. Twelve U.S. states now authorize testing, while 16 states and Washington, DC authorize full deployment of CAVs. Of these, 18 states now allow testing or deployment without a human operator in the vehicle. In 2014, SAE International, an automotive standardization body, published a classification system with six levels—ranging from fully manual to fully automated systems—as J3016, *Taxonomy and Definitions for Terms Related to On-Road Motor Vehicle Automated Driving Systems*. ITE has been a strong advocate for the safe development of CAVs and views this technology as a key way to achieve zero road fatalities and serious injuries by 2050.

**Nevada DMV Issues First Autonomous Vehicle Testing License to Google – May 7, 2012**
The Nevada Department of Motor Vehicles approved Google’s license application to test autonomous vehicles on Nevada public roads. It is the first license issued in the United States under new laws and regulations that put Nevada at the forefront of autonomous vehicle development.

![Image of a Google autonomous car]

**“Together we are the best”**
— Zaki Mustafa

Paul Eng-Wong, 2010
Appointed ITE’s first liaison to China’s transportation professionals – Eva Lerner-Lam

Zaki Mustafa, 2013

**“We must commit ourselves to be problem solvers.”**
— Robert C. Wunderlich

Robert C. Wunderlich, 2011
Leadership ITE and ITE Community established

W. Hibbett Neel, Jr., 2014
Created Advocacy, Student, and Young Professional Committees

**“Efforts like Vision Zero made us start to realize that safe is sometimes more important than swift.”**
— Rock E. Miller

Rock E. Miller, 2012

**“A year of change from Institute leadership to the dynamics of our profession.”**
— John J. Kennedy

Nevada license plate issued for testing autonomous vehicles on the state’s public roads on a Google autonomous car.
ITE Presidents – 2010s

“In 2016, the ‘New’ ITE emerged with a bold vision and leadership.”

— Paula Flores

“The status quo is always the easy path. Change is hard.”

— Michael P. Sanderson

“Transportation is essential to improving quality of life in our communities.”

— Shawn Leight

“While technology improves, our role to provide safety and mobility for the public remains unchanged.”

— Bruce Belmore

UN Conference on Sustainable Development – June 2012

The United Nation’s (UN) Sustainable Development Goals are declared at the UN Conference on Sustainable Development in Rio de Janeiro, Brazil, setting out calls to action represented by 17 goals. Three goals are strongly linked to sustainable transportation: #3) Good Health and Well Being; #9) Industry, Innovation, and Infrastructure; and #11) Sustainable Cities and Communities.

The Rise of Micromobility

Micromobility has burgeoned in the last decade with the growth of bike share, e-bikes, e-scooters, and other lightweight transport modes that can be used on-demand by the rider for a fee. Micromobility modes address the first-mile/last-mile problem, and can bring transportation options to communities underserved by other modes such as public transit, taxis/rideshare, light rail, etc. By 2030, the micromobility market is estimated to be worth between $200 billion to $300 billion in the United States, $100 billion to $150 billion in Europe, and $30 billion to $50 billion in China.

Courses Offered As Part of ITE’s Partnership with Consortium for Innovative Transportation Education at the University of Maryland

The following courses are offered through the ITE Learning Hub as a result of ITE’s partnership with the Consortium for Innovative Transportation Education at the University of Maryland. **ITE members receive a 20% discount by registering through ITE.**

**Data Archiving and Analytics for Planning, Operations, and Safety**  
October 16-December 14  
This course is designed to help you understand the benefits of creating an open and accessible data archive of your agency’s data. It will also explain the challenges you might face in trying to make your agency’s data more open and available to others, and ways in which you can mitigate those challenges. After showing you some real-world examples of how data can be leveraged for better decision making and analysis, we’ll discuss the pros and cons of building your very own archive, leveraging technologies that others have developed, or paying a consultant to help you with your archiving needs.

**Project Management for High Tech Systems**  
October 30-December 13  
This course is designed to improve the project management skills of public and private sector personnel who are responsible for managing the implementation of technology-intensive transportation projects. The course provides training related to the fundamental principles and practices of good project management; the steps of planning, designing, and implementing transportation systems projects; the types of project management tools available for managing transportation systems projects; and the basic skills required to be a good project manager.

**Road Safety Fundamentals Webinar Series: Safety for All Road Users**  
October 6, 2:00 - 3:30 p.m. ET, 1.5 PDH Credits  
Developed by the ITE Safety Council  
This webinar provides an introduction to explicit consideration of the safety of all road users. Content will include safety performance considerations concerning all road users including vehicular traffic, pedestrians, bicycles, motorcyclists, trucks, older road users, transit users, and micromobility devices. The webinar will also discuss the potential safety benefits of connected/automated vehicle (CAV) applications.

**Traffic Management Around Schools**  
October 8, 2:00 - 3:30 p.m. ET, 1.5 PDH Credits  
Developed by the ITE Traffic Engineering Council  
Satisfying the needs of all of the students, staff, and parents getting to and from schools by walking, biking, or car along with the overlapping community and commuter traffic has always been challenging. This webinar presents planning concepts, operational considerations, and safety factors that should be considered when examination traffic management in schools area.

**Arterial Traffic Incident Management**  
October 13, 2:00 - 3:30 p.m. ET, 1.5 PDH Credits  
Developed by the ITE TSMO Council  
This webinar will highlight successful programs and showcase great case studies on existing arterial TIM strategies by highlighting innovations in technology implementations. Participants will have the opportunity to learn from practitioners in private companies and local and federal government agencies about their experiences with arterial TIM.

Reminder! Recordings from the ITE 2020 Virtual Annual Meeting and Exhibition are only available through the end of October. Be sure to stream the sessions you may have missed!
In light of the COVID-19 pandemic, the 2020 ITE Annual Meeting and Exhibition was a completely virtual event for the first time ever, giving attendees a robust conference experience from the comfort of their own homes and offices. The full Technical Program, Exhibitor Showcase, and social gatherings were offered on an all-virtual platform, delivering the value attendees have come to expect from in-person ITE meetings. Many of the nearly 1,800 attendees were first-time participants who otherwise would not have the opportunity to attend.

The Opening Plenary session offered ITE leadership a chance to deliver a report on the current state of the industry and the association. ITE Executive Director and CEO Jeff Paniati, P.E. (F) remarked on the 90th anniversary of ITE and highlighted recent successes of the organization, including how ITE is bringing new ideas forward through our Institute Initiatives and new technical tools and resources. He also touched on membership growth, the ONE ITE initiative, and the establishment of six new student chapters. Of particular note were the wide range of new resources ITE delivered its members and the industry during the COVID-19 pandemic, including Virtual Drop-in Sessions, a multifaceted online resources page, and a working group whose efforts culminated in the technical publication, *What a Transportation Professional Needs to Know about Counts and Studies during a Pandemic*.

ITE International President Randy McCourt, P.E., PTOE (F) honored this year’s award winners, including the recipient of the Burton W. Marsh Distinguished Service Award, Jenny Grote, P.E., PTOE, PTP (R), and the Theodore M. Matson Memorial Award recipient, Walter Kraft, D.Eng.Sc., P.E. (H). ITE’s newest Honorary Member, Peter McCombs, DistFEng NZ, CPEng (H), delivered a short video message on the significance of ITE in his life and career. In the Opening Plenary, sponsored by the ITE Consultants Council, Futurist Garry Golden presented a dynamic look at how COVID-19 will impact the industry and transportation professionals in the short- and long-term. After his presentation, attendees were given the chance to engage in a lively Q&A with Garry. Later in the week, a plenary session, led by ITE International Vice President Alyssa Rodriguez on Transportation and Equity, sponsored by CBB Transportation Engineers+Planners, took an
introspective look at how racial, social, cultural, and economic disparities can be addressed through the planning, design, and operation of our communities’ transportation networks.

With attendees participating from around the world, the Technical Program was spread out over two weeks, and sessions were made available on-demand for further opportunity to earn PDH credits. Whether first-time attendees or longtime ITE members, sessions and workshops on everything from Vision Zero and speed management to big data/analytics provided a top-notch learning experience for all who participated. Poster presentation discussions facilitated further engagement on a range of technical topics. The final round of the Micromobility Design Competition also took place, where professional and student teams presented their innovative Complete Streets solutions for a corridor in downtown Las Vegas, NV, USA and another city of their choosing (see page 10).

The virtual Exhibitor Showcase was open throughout the conference, featuring the industry’s cutting-edge products and solutions. Interactive social events and social media campaigns gave attendees a chance to kick-back and show their creative side. During the third and final week of the Annual Meeting, nearly 30 ITE Council and Committee meetings took place.

ITE would like to express its thanks to the speakers and presenters, attendees, sponsors and exhibitors, and everyone who helped make this year’s event a success. A special thanks to our Local Arrangements Committee in New Orleans, LA, USA—we will see you in 2022 for the Annual Meeting. We would also, like to recognize this year’s Title Sponsors—Cubic Trafficware, Econolite, Gannett-Fleming, GRIDSMART Technologies, Kimley-Horn, Miovision, Siemens, and Transoft Solutions. Finally, we look forward to seeing you in Portland, OR, USA for the 2021 Joint ITE International and Mountain and Western Districts Annual Meeting and Exhibition, July 18-21, 2021.

The Power Plenary on Transportation and Equity featured a diverse panel of professionals discussing the disparities in the transportation system.

The University of Michigan was named the winner of the National Operations Center of Excellence (NOCe) Transportation Technology Tournament for the second year in a row.

The University of Michigan was named the winner of the National Operations Center of Excellence (NOCe) Transportation Technology Tournament for the second year in a row.

Private chef Airis Johnson of New Orleans, LA, USA was invited by the Southern District to give a cooking demonstration. Johnson was a Chopped Champion on the Food Network.

A social event with the Florida Puerto Rico District encouraged attendees to wear their crazy hats.
This year’s virtual meeting provided a unique opportunity to showcase the best and brightest in the transportation field. From transformative transportation projects, ITE Council Awards, to student papers, individual achievements, and the graduation of the LeadershipITE class, recognizing ITE’s 2020 Excellence in Transportation Award winners was a highlight of the ITE International Annual Meeting and Exhibition.
Theodore M. Matson Memorial Award

Walter H. Kraft, D.Eng.Sc., P.E. (H)
President, Walter H. Kraft and Associates, LLC, Summit, NJ, USA

Dr. Walter H. Kraft, D.Eng.Sc., P.E., is an internationally recognized transportation systems expert in Asia, New Zealand, Europe, and North America. He has more than 50 years of experience in transportation including design, implementation, integration, software, operations, management, and teaching. Kraft is a Past-International President and an Honorary Member of ITE and a recipient of the Burton W. Marsh Award for Distinguished Service, among other industry awards.

Dr. Kraft’s contributions include chairing and participating on various national steering committees on transportation management, developing A Recommended Practice of ITE on the Management and Operations of Intelligent Transportation Systems, developing and presenting technical courses and guidelines on the management and operations of Intelligent Transportation Systems, and serving as editor of the sixth edition of ITE’s Traffic Engineering Handbook and of ITE and IMSA’s Traffic Signal Maintenance Handbook. He developed the initial synthesis of highway practices related to transportation management functions, explored the impact of solid-state equipment and integrated systems on traffic signal control maintenance management practices, and led specific transportation information and control systems in many U.S. locations.

SEE AWARD PAPER ON PAGE 38

Burton W. Marsh Award for Distinguished Service to the Institute of Transportation Engineers

Jenny L. Grote, P.E., PTOE, PTP (R)
Principal – GroTrans Engineering, LLC, Phoenix, AZ, USA

Jenny L. Grote, P.E., PTOE, PTP, is the Principal of GroTrans Engineering, LLC, a transportation planning and engineering firm she launched in 2017 in the Phoenix, Arizona, area. Prior to that, she served the City of Phoenix Street Transportation Department for more than 30 years in progressively responsible positions, including Deputy Director of the Transportation Planning and Programming Division, and the Deputy Director of the Street Maintenance Division. She has been a member of ITE since graduating with a BSCE from the University of Colorado in 1983.

A long-time member, Grote has served ITE with distinction over an extended period of time. She has held all offices of the Arizona Section, and the Western District, was elected to two-terms on the International Board of Direction and in 2002 became the International President. She has continued active ITE involvement as the Western District Administrator for eight years, and today is the District Administrator of the newly formed Mountain District. Grote remains on several technical councils and committees, continues to contribute to industry publications and is a mentor for many younger members. In 2016, the Arizona Section established the Jenny L. Grote Student Leadership Award in her honor as she has dedicated countless hours over many years promoting ITE involvement to students.

SEE AWARD PAPER ON PAGE 41
Wilbur Smith Distinguished Transportation Educator Award
Dr. Stephanie Ivey (M)
University of Memphis

Young Member of the Year Award
Andy Kaplan, P.E. (M)
Port Authority of New York and New Jersey

ITE’s 2020 Rising Star Class
Andy Kaplan, P.E., (M) — Northeastern District
Priyanka Alluri, Ph.D., P.E. (M) — Florida Puerto Rico District
Lauren Arthur (M) — Great Lakes District
Rebecca Biro, P.E., PTOE (M) — Mid-Colonial District
Shannon Hobbs (M) — Texas District
Amy Jiang, P.Eng. (M) — Canadian District
Julie Kentosh, P.E., PTOE (M) — Western District
Lisa Nguyen (M) — Mountain District
Christine Potocki, P.E., PTOE (M) — Southern District
Christian Sternke, P.E., RSP1 (M) — Midwestern District
Viseth Uch (M) — Global District

LeadershipITE Class of 2020

The 2020 LeadershipITE class ended its program with a virtual graduation and group project presentations. This year, because the program was virtual, employers, the ITE Board of Direction, Coordinating Council Leadership, and LeadershipITE alumni were invited to attend.


Elisa C. Mitchell, P.E. (M)
Paul G. Pfleuger, C.E.T., TOPS (M)
Larry L. Picasso, P.E. (M)
Garreth T. Rempel, Ph.D., P.Eng. (M)
Mahmood Shehata, P.E. (M)
Christopher E. Sobie, P.E., PTOE (M)
Marvin L.R. Souza, P.E. (M)
Raymond Tam, E.I.T. (M)
HSIS Excellence in Highway Safety Data Contest

FIRST PLACE

Xiaoyu Guo (S), Yongxin Peng, and Chaolun Ma
Texas A&M University

SECOND PLACE

Amin Mohammadnazar
University of Tennessee, Knoxville

THIRD PLACE

Ziyuan Pu (S)
University of Washington

2020 HSIS Award Winners
(From left) First place recipient, Xiaoyu “Sky” Guo, second place recipient Amin Mohammadnazar, third place recipient Ziyuan Pu, and Dr. Carol Tan, Office of Safety and Research Development, FHWA.

ITE Headquarters
www.ite.org
October 2020
TRANSPORTATION ACHIEVEMENT AWARDS

Complete Streets

Miriam Jim (M) and Ali Shahzad, P.E. (M)
City of Escondido
Escondido Creek Bikeway Missing Link Project

Transportation Systems Management & Operations (TSMO)

Virginia Department of Transportation (VDOT)
NRO Signal Operations
“Achieving Safety and Mobility with Traffic Signal Management”

Traffic Engineering

City of Santa Clarita
GiveMeGreen Program

Planning

Transoft Solutions, Inc.
AutoTURN Pro

Safety

VDOT NRO Signal Operations
“Achieving Safety and Mobility with Traffic Signal Management”

The ITE Excellence in Transportation Awards program honors outstanding achievements in transportation and distinguished service to ITE.
DISTRICT AWARDS

District Innovation Award

Canadian District of ITE

Outstanding Section/Chapter Award

Georgia Section of ITE

Section/Chapter Momentum Award

Washington DC Section of ITE

Student Chapter Award

New York University – Tandon School of Engineering Student Chapter

Student Chapter Momentum Award

New York University – Tandon School of Engineering Student Chapter

Daniel B. Fambro Student Paper Award

Xiaoyu Guo (S), Texas A&M University
**Coordinating Council Best Project Award**

Dr. Priyanka Alluri, P.E. (M) and Dr. Raj Ponnaluri, P.E., PTOE (M)
Drafting, Designing, and Deploying Wrong-Way Driving Countermeasures - A Florida DOT Initiative

**Coordinating Council Outstanding Volunteer Award**

Phil Rust (M)
Traffic Engineer, City of San Diego

**Transportation Systems Management & Operations Award**

Jay Jaber, P.E. (M)
Assistant Commissioner for the NYCDOT Bureau of Permit Management

**Transportation Safety Council Edmund R. Ricker Award**

Dr. Peter Tarmo Savolainen, P.E. (F)
MSU Foundation Professor and Associate Chair for Graduate Studies

**Public Agency Council Achievement Award**

Manatee County’s Active Arterial Management Program

**Transportation Systems Management & Operations Award**

VDOT NRO Signal Operations
“Achieving Safety and Mobility with Traffic Signal Management”
These awards bestow international recognition upon the recipients and increase the public’s awareness of the role and responsibilities of the transportation professional. Congratulations to all the award winners!
Trip Generation Manual, 10th Edition Supplement

The supplement adds walk, transit, and bicycle trip generation data for 53 land uses and truck trip generation data for 50 land uses.

For pricing and purchasing information for the supplement, visit http://bit.ly/TripGenSupplement

Innovative Traffic Management and Control Equipment Procurement Methods

The first publication developed by the ITE Industry Council, this guidance document provides a summary of current practices in the procurement of Intelligent Transportation Systems (ITS) and traffic management and control equipment.

Sustainable Traffic Signal Development: An Informational Report of the Institute of Transportation Engineers

The report provides summaries and examples of sustainable practices in planning, designing, and constructing traffic signals. The report also takes a brief look into the future and the convergence of automated vehicles, wireless communications, alternative energy sources, application of data, and automated performance measurement systems.

Guidelines for Determining Traffic Signal Change and Clearance Intervals

ITE has published guidance on yellow change and red clearance intervals for signalized intersections. The goal of this guidance is to create a consensus methodology for calculating and evaluating traffic signal change intervals that can be consistently implemented by transportation agencies.
O
ur profession has been constantly changing and we must evolve to keep up with and initiate changes to remain relevant. This statement is in line with the Mission Statement of ITE, which is “To provide the global community of transportation professionals with the knowledge, practices, skills, and connections to serve the needs of their communities and help shape the future of the profession and transportation in the societal context.” Just think of the changes that have taken place over the years. Traffic signal controllers evolved from electromechanical to digital devices. Means of calculating traffic signal timing and roadway capacity analysis evolved from detailed hand calculations to the use of graphs and to our current use of computer programs. I am sure that you can think of the many other evolutions that have progressed our profession.

I did not meet or know Theodore Matson. I wish I had the chance to discuss the basic concepts of traffic engineering that he was identifying and bringing into practice. I would have asked him how he was overcoming the skepticism from his peers to bring forth new ideas and methods. Identifying new concepts and bringing them into common use is always a challenge. We need to continue to overcome those challenges to advance the profession of traffic engineering. I am sure that his pioneering efforts laid the foundation for what we would consider basic traffic engineering research. What we now consider basic, I am sure, was considered advanced when Theodore Matson implemented practical applications of traffic engineering techniques.

Trying something new to improve what we are doing has always been an important part of my life, and I hope it is or will be part of yours. Research has given me an understanding of basic traffic engineering concepts. It provides the basis of our profession and helps us advance our knowledge and not remain static in our methods and capabilities.

Research does not have to be done in a formal setting. I remember convincing a number of my colleagues at Edwards and Kelcey to spend some of their free time to count the vehicles entering and leaving a new shopping center in New Jersey, USA. These counts were done before and contributed to the ITE Trip Generation Manual. At times, my wife and children helped me...
take basic parking counts that improved my knowledge of parking characteristics. While I was actively involved with the American Society of Civil Engineers (ASCE) and before I became an International officer of ITE, I had the opportunity to attend meetings in many North American cities. At that time, I was also a doctoral student at the New Jersey Institute of Technology, working on a dissertation dealing with the time it would take passengers to board and alight from street transit vehicles. In the early days of the research, I would record the time for a number of passengers to board and alight using a stopwatch. As the project progressed, I used an 8-millimeter camera to do the recording and was able to analyze the counts at my home. I was encouraged when the research was referenced in the 1985 edition of the *Highway Capacity Manual* published by the Transportation Research Board. I also used the research when I designed exclusive bus lanes on Madison Avenue and other locations in New York City, NY, USA.

**Learn From Others**

I graduated college with excellent technical knowledge but did not always know how to use it practically in the consulting community. I was fortunate to have a number of mentors who helped me translate technical knowledge into practical use. While at Edwards and Kelcey, Inc. in Newark, New Jersey, I remember Guy Kelcey, a founder and Honorary Member of ITE and a 1966 Theodore M. Matson Memorial Award winner, calling me into his office and asking me what I was working on. After I told him, he would offer some thoughts that might help me, which they always did. As an engineering student graduating in 1962 from Newark College of Engineering (NCE), I had taken the usual English courses. While these were sufficient for writing college reports, I soon learned that writing consulting engineering reports were different. Fortunately, George Leland, who was president of Edwards and Kelcey, read each of my reports before they were sent to a client. I still use his directions when writing a report, particularly knowing the difference between using the words “that” and “which.” As I advanced in the profession, I continued to find new mentors. When I traveled outside of North America, I found mentors who helped me with local customs and language. Finding a mentor was not difficult since most professionals are happy to help fellow professionals succeed.

**Be Involved**

I attended my first ITE meeting in New York City. It was like going to Yankee Stadium and seeing Mickey Mantle. Henry Barnes was the traffic commissioner of New York City at the time and he attended the ITE meetings. At that time, Commissioner Barnes initiated many changes including increasing the capacity of the Long Island Expressway in Queens, repainting all traffic signals yellow, installing semi-actuated traffic signals, converting major avenues to one-way operation, building municipal parking garages, and endorsing the use of seat belts. These were pioneering efforts in traffic engineering that I, at the time, equated with the baseball abilities of Mickey Mantle. I still feel humble when I remember that Henry Barnes received the Theodore M. Matson Memorial Award in 1968.

After my initial ITE Meeting, I attended as many meetings as I could and became an officer in the ITE Met Section, then in the Northeast District, then on the International Board, and then as International President. These meetings allowed me to increase my professional relationships and continue to be involved in other professional associations.

I joined ASCE as a student at NCE. As a new graduate, I became involved in New York metropolitan and national meetings. I joined a national committee and then became a committee chair, division chair, and chair of Management Group C. I met many of the movers and shakers in the transportation field at that time. In
my later years, I tried to share my adventures in professional society membership and involvement by always taking a young engineer with me to professional membership meetings. That way, I was able to be a mentor and have others continue in my steps, and help increase membership in ASCE and ITE.

As a young engineer, I had the opportunity to attend a meeting of the Highway Research Board (later renamed the Transportation Research Board) in Washington, DC, USA. That initial meeting became an annual event where I was able to learn of research being conducted in the United States and elsewhere. I had the opportunity to increase my circle of professional associates while increasing my research knowledge. I became active in many committees and found that if I became a committee secretary, I would have a good chance to become a chair of the committee. Being chair would give me a greater opportunity to influence the direction of research. I had the good fortune to become chair of the Committee on Intermodal Transfer Facilities and the Committee on Regional Transportation Systems Management and Operations.

During the 1970s, I became a member of the Metropolitan Association of Urban Designers and Environmental Planners to plan for and participate in Canadian and U.S. meetings dealing with the planning, design, and maintenance of pedestrian, bicycle, and moped facilities, and the initial meetings on infrastructure. At that time, I got to know Constantine Sidamon-Eristoff, who served as transportation administrator when John Lindsey was mayor of New York City. He asked me how many bicyclists there were in Manhattan on a daily basis. After thinking about what I had observed, we decided there were about 500. As the time progressed, I was able to focus on bicycle facilities in New York and New Jersey. One of the premier projects was a dedicated bike lane on 6th Avenue and Broadway between 9th Street and 59th Street in Manhattan, New York when Anthony R. Ameruso was the commissioner of transportation. It was a highlight when we rode the bike lane on opening day.

**Share Your Knowledge**

I found that teaching was an excellent way to share what I had learned and to gain new knowledge. When I received a master of civil engineering degree from NCE in 1965, I was disappointed that there was not a master’s program in transportation. With the support of the civil engineering department, I was able to develop courses for a master’s program including traffic engineering, transportation planning, transportation design, land use planning, and others. I gained new knowledge by researching the topics I was teaching to improve my knowledge before class and by interacting with the students in class. I found that teaching also improved my engineering capabilities—therefore, I continued to teach as often as I could. Eventually, I was fortunate to be able to lecture on transportation issues in Asia, Europe, and North America.

While sharing transportation expertise is important, I also looked for opportunities to share knowledge outside of my professional life using what I learned while working. An important part of my professional career was developing and implementing strategic plans. Typically this group exercise involved identifying goals, means to achieve the goals, and means to measure success. For more than 40 years, I have been the secretary of the North American Federation of Bavarian and Austrian Folk Dancing Groups that includes 75 member organizations in Canada and the United States. Using my experience, I was able to facilitate a strategic planning exercise at two executive board meetings that provided plans for future initiatives. For a number of years, I have been a member of the Board of Visitors of the Albert Dorman Honors College of the New Jersey Institute of Technology. After helping prepare an earlier strategic plan, I was asked to chair a committee to develop the 2013–2018 Strategic Plan with the dean and some of the Board of Visitors. The plan was developed, implemented, and measured during this time. I found that these opportunities helped me improve my strategic planning skills, as I was dealing with non-transportation professions who had different skills and thought differently. Often, it is helpful to expand our comfort zone by dealing with others with whom we are not familiar.

**Be a Part of the Evolution**

I had the good fortune to be profiled in the May–June 2012 edition of TR News, and I would like to leave you with the last paragraph of that profile. "New transportation professionals should embrace technology and should use research to test current knowledge. Kraft urges. 'Realize that the basis of our profession evolves over time as research provides a new or greater understanding. Be a part of the evolution.'"1

As I said then, and still believe today, we don’t always know what path we will be on. Keep an open mind and join me to be a part of the evolution. [itej](http://www.ite.org)

See full bio on page page 31.

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Did you know that this is the Golden Anniversary for the Burton W. Marsh Award? “Mr. ITE,” as Burton W. Marsh was also known, was the first to receive this award in 1970 for his many years of distinguished service to ITE. There are very few ITE awards, scholarships, and recognitions that are named after our longtime, extraordinary, and dedicated members. At the International level, there are eight that I am aware of, in addition to several Districts who have honored their notable members, as well as many Sections that have recognized local members for their contributions.
I was very surprised to get a call from ITE Executive Director and CEO Jeff Paniati in mid-March, just as we were beginning to see the impacts of COVID-19. My husband and I were self-quarantined in Flagstaff, AZ, USA with sporadic internet and cell phone service, and only if you stand in this one exact spot in the kitchen. So, I was trying to stand still and jump around for joy at the same time; almost as exciting as being elected as International Vice President in 2000! I thought that office would be the culmination of my service to ITE… but add another 20 years to today…and the doors continue to open. When asked to write an article for ITE Journal about why I qualified for this award, I was honored once again, although it was in the midst of preparing for the very first Mountain District Annual Board Meeting and Annual Business Meeting, to be followed by my participation in the conversion of the Joint Western and Mountain Districts Annual Meeting in Hawaii, HI, USA to a virtual conference. So, I was way too busy doing my new Mountain District Administrator duties to write about my service to ITE. When I thought about it, it became a delightful task to pause and reflect about how ITE has been my professional home for the past 37 years.

ITE–Work–Life Harmony

ITE. My service to ITE began almost from the first day when I joined at my boss’s suggestion at BRW, Inc. in Denver, CO, USA. Since the University of Colorado-Denver, where I graduated from, did not have a student chapter (they do now, and they won the Best Student Chapter in the Mountain District!), I was introduced into the ITE family in the local Colorado-Wyoming Section. I was in awe at the camaraderie and warm welcome at my first meeting in 1983. I made a vow at that time to be one of those officers at the head table, like Nazir Lalani, Bob Kochevar, Dan Cronin, Kathleen Krager, Marshall Elizer, Pat Noyes, Mark Schaefer, Dave Hatton, and many others who dedicated every spare moment to ITE and our transportation profession. So, when my husband and I moved to Phoenix, AZ, USA two years later, in 1985, I decided it was time to step up and get involved in the local Arizona Section. That was the year the Phoenix Metropolitan Area was just beginning to develop a new regional freeway network and an expanded public transit system. Public agencies were staffing up and consultants were flooding into the Phoenix area, and thus, the ITE Arizona Section tripled in size, seemingly overnight. No one knew each other, including me, so I offered to make nametags for the attendees at our monthly luncheons. Soon I learned everyone’s name, and when it came time to solicit officer candidates, I was asked to serve. And that is how the first door opened, and the doors just kept opening for the next 35 years. I have continued to serve ITE in some capacity to this day; as an officer at all levels; including all offices in the Arizona Section, the Western District, and at the International level. I was honored to become International President in 2002, followed by Western District Administrator, and now Mountain District Administrator. What’s next?

To the detriment of my sleep cycles, I have always been eager to jump on the bandwagon and lend support to whatever ITE leadership is promoting. I know how much it means to have supporters for big programs to get them off the ground and be successful. When I looked back at my campaign platform in 2000, when I ran for International Vice President, I supported five tenents as an International officer and now my successors have added to them with their priorities as well:

1. Ensure maximum value for your ITE investment dollars
   - Electronic publications/e-Learning Hub.
   - Technical Councils as part of your membership dues.
   - Younger Member graduated dues.

2. Expand the network of transportation professionals
   - Public Agency Group Membership program.
   - Enhanced communication through Social Media: Facebook, Twitter, LinkedIn.
   - Tagline evolved into “A Community of Transportation Professionals” i.e., engineers, planners, technicians, practitioners.

3. Encourage international growth and involvement
   - International member(s) on each Technical Council.
   - District 8 renamed “Global District.”

4. Mentor and train younger members and students
   - LeadershipITE – Engaging leaders to ensure that ITE members are positioned to participate and shape the future of transportation.
   - Matson and Hammond Mentoring Program – Mirrored the same format that I developed for the City of Phoenix Mentor Program for street maintenance workers.
Student Leadership Summits – I attended the first one in 2014 at Cal Poly SLO. More than 15 SLSs have occurred since 2014, and more are in the works!

Diversity Scholars Program – to increase underrepresented populations in the transportation profession by supporting increased diversity at the undergraduate level.

5. Recognize volunteers and member accomplishments

Certification Program – PTOE, PTP, RSP, RSP2 (Behavioral and Infrastructure) – Certification holders possess the knowledge, skills, and abilities required to provide services to the public at a professional level with a competence.

ITE Awards Program – The international awards program honors outstanding achievements in transportation and distinguished service to ITE at all levels.

Nearly four years ago, ITE launched the Legacy Program to help fulfill ITE’s mission of “shaping the future of the profession and transportation” by supporting the growth of its future leaders. One of my current goals, and that of the ITE Legacy Program, is to develop the next generation of leaders within ITE and the transportation profession as part of ITE’s mission for inclusion and diversity. Being from the public sector for most of my career, I wanted to ensure the retiring ITE members, who devoted their careers to helping the traveling public and mentoring their younger staff, were given an opportunity to be recognized for their many years of contributions. I stepped forward to be a part of that process. Now that I am a “retired member,” I look in the mirror and say, “How can I pass the baton onto my mentees?” Along with the big picture programs from ITE, I also support funding assistance for some of the programs that the Legacy Program supports:

- Scholarships
- Student Leadership Summits
- LeadershipITE
- ITE Collegiate Traffic Bowl
- Young Professional Support
- Diversity Scholars Program
- STEM Programs
- Future Cities Programs
- Matson and Hammond Mentoring Program

Join me by adding your support to help sustain these programs, pass the baton onward from your career, and add YOUR legacy. Help me “Make a Difference”!

Work. I could never have planned the professional journey that I ended up traveling on. When I look back, I see how the puzzle pieces all fit together and how the doors opened, and continue to open, even now. I was the first female traffic engineer for the City of Phoenix in the Street Transportation Department in 1985 and retired in 2016 as a deputy director. In 2017, I started GroTrans Engineering, LLC so I could use my transportation engineering experience from the private and public sectors, combined with my knowledge of ITE’s programs, services, and network!

Before launching GroTrans Engineering, LLC, I first worked in the private sector for the consulting firm of BRW, Inc. in Denver, followed by a move to Phoenix where I spent more than 30 years in progressively responsible positions in the City of Phoenix. In my last year and a half, I was deputy director of the Transportation Planning and Programming Division, and before that, deputy director of the Street Maintenance Division. My first 25 years at the city were in the Traffic Operations Division managing a wide range of traffic control projects for Phoenix. Some of the more significant programs that I helped develop and implement included:

- School Safety Program
- Crosswalk Safety Improvement Program
- Bicycle Lane Program
- Neighborhood Traffic Management Program
- Residential Permit Parking
- ATMS Signal System
- Reverse Lanes
- Federally Funded Grants
- Mentor Program
- Technician Training Program

Since my experience was from the consulting-side of engineering, I was lucky to be the city’s “in-house transportation consultant” which offered me a variety of projects and exposure to many aspects of transportation. That was the best place to be; to have exposure to city resources, including other professionals with many areas of expertise, and the flexibility to be creative and innovative. Looking back, it was “the best job EVER!”

Life. My college education started in the civil engineering program at the University of Utah in Salt Lake City, UT, USA. I would not be where I am today if I had not borrowed a Statics book from a fellow civil engineering student, Wulf Grote, a mere 43 years ago, when they were sold out at the university’s bookstore. The rest
is history, but what an exciting part of the journey! Wulf graduated and got a job in Denver where he grew up, so we got married 40 years ago in my hometown of Kansas City, MO, USA, and we headed to Denver. I ended up graduating from the University of Colorado and worked for BRW, Inc. Two years later, we both had awesome job offers in Phoenix, so we headed southwest in 1985 and have been there ever since. Wulf also served as President of the Arizona ITE Section, after me, but he became an ITE Fellow before I did. Now Wulf is following me into retirement, from Valley Metro, after fulfilling his life’s dream of building Light Rail in Phoenix. We shall see where the next road takes us! Hopefully, we will spend more time in Denver with our youngest daughter, Kayla, then venture over to the California coast and see Krista and her new husband, Frederik.

Whatever our future holds, let us hope for good health, staying active personally and professionally, contributing to ITE and the transportation profession, and enjoying the journey! Remember, it is not about the destination; it is about the journey you take to get there. Life is not too short; it is that we take so long to begin. I kept thinking, “Once I retire, I’ll start doing more activities with my family.” Guess what? My children left home once they graduated from college, the same summer I retired from 31 years of service to the City of Phoenix. The empty nest was oh-so incredibly quiet. Looking back to my mid-career days, here is my advice to my younger mentees:

Do not worry about “balancing” ITE-work-life, just put one foot in front of the other and “Enjoy the Journey” TODAY! Do not wait until you retire to make up for lost time, like me; make memories together NOW, at whatever level. These are the “good ol’ days!”

It is not about the amount of time but the special, quality times you create.

Instead of going in a straight line to the end of your journey, zigzag through life and enjoy the diversions, surprises, and detours.

Life is all about what we make of it. I cannot wait to see what is next!

What will be YOUR Legacy? Regardless of our future, I encourage you to have a more harmonious life; not “perfect,” just less wobbly. ITE-Work-Life “balance” is way too hard to do without a support system, and even then, it can be quite the challenging task. This, too, shall pass all too quickly, but most of all...

ENJOY THE JOURNEY!

Happy 50th Anniversary of the Burton W. Marsh Award. Itej

See full bio on page page 31.
Paying it Forward:
Funding the Future of our Profession

Q&A with Transoft Solutions President and CEO Milton Carrasco

Transoft Solutions, Inc. has donated a $100,000 to the ITE Diversity Scholars Program. This generous donation will be used to support the education and development of African-American, Native American, Alaskan, Hawaiian, or Hispanic/Latino heritage students pursuing degrees in transportation-related fields. ITE is pleased to welcome Transoft Solutions into its Legacy Society at the Visionary (highest) level.
Milton Carrasco, president and CEO of Transoft Solutions, Inc., shares with ITE Journal his thoughts on generosity and dedication, on how adversity can be transformed into opportunity, and why his company donated $100,000 in support of the ITE Diversity Scholars Program.

ITE Journal: You have a powerful personal story that includes many people who influenced and inspired you along the way. What were some of the key characteristics of these individuals that helped shape you as a professional and, in turn, shape your company?

CARRASCO: Two defining characteristics immediately come to mind when I think of the many people who have inspired and supported me on my journey. The first is that they all possess a generosity of spirit. The second, which I think ultimately follows from the first, is a dedication to quality, to doing things well. When one gives of oneself wholeheartedly, be it in personal or professional life, and when one has a genuine desire to help and support others, that then translates to acting to the best of one’s ability, whatever the circumstances.

I recognize these traits—generosity and dedication to quality—throughout the transportation community and reflected in organizations such as ITE. Ultimately, the transportation profession exists to make people’s lives better, to help them move through their days easily and safely, and to do that we professionals must do our jobs well. I also see these characteristics in those who have joined Transoft Solutions as employees and who have helped shape the company’s culture and ensure its ongoing success during the last three decades.

I can also look to my early career and life and those who assisted and mentored me along the way—from the first company to hire me as a transportation engineer, to my master’s thesis supervisor, Professor John Morrall, at the University of Calgary. I can especially see the influence of my family in shaping my path. Even though my parents already had their hands quite full raising our large family, they always had room at the dinner table and in our home for others. My father, though he unfortunately passed on when I was still quite young, was very giving of his time and attention. He encouraged me to tackle challenging problems with persistence and enthusiasm. My mother, a dedicated and hard-working entrepreneur, was kind and generous to everyone and treated customers and employees with care and respect. Plus, along the way have been my siblings and close friends, who were always liberal with their support, and my wife, Val, who helped run Transoft from our home in the company’s earliest days and has unfailingly championed my endeavors for so many years.

ITEJ: Why does the mission of ITE’s Diversity Scholars Program speak to you on both a personal and professional level, and why do you feel supporting these scholars is crucial to the future success of the transportation industry?

CARRASCO: Of course, my own history demonstrated to me how vital financial support is to helping a dedicated young person to pursue an education while dealing with difficult circumstances. I am grateful for what I received, and I want others to be able to benefit in the same sort of way. You could say it is a form of paying it forward.

I had always vowed to myself that if I created a successful company I would give back to society. I believe companies have a
social responsibility to contribute and to make the world a better place. Charitable giving is core to Transoft’s culture, and it flows naturally from our employees’ impulse to serve and help others. We have provided funding for charitable initiatives around the world, from disaster relief efforts to research and activities supporting children in disadvantaged circumstances. We have also supported education in various ways, including through funding scholarships at individual institutions and donating software licenses for use in university courses.

I was especially drawn to supporting the ITE Diversity Scholars Program for a few reasons. ITE is a tremendous organization that provides great value to all in our profession. Through this donation, I can show my appreciation of all that ITE has done for me, for my company, and for all of us in the industry. I was also very moved reading the stories of past Diversity Scholars Program recipients Sebastian Velazquez and Jouselyn Lopez. I see in them something of myself, and I want to champion these amazing and driven young people who might not otherwise have a chance to pursue higher education.

Additionally, I believe the transportation and engineering field, and the world as a whole, benefit from a diversity of views. There are those who are in positions that can provide a unique perspective on what will benefit the community. We can all gain from the insights that their backgrounds provide. And from there, the work we do is richer and of greater benefit to society. We all want to use our expertise to make a positive difference in the world at large. The Diversity Scholars Program helps make that a reality.

**ITEJ**: Do you have any words of encouragement for the Diversity Scholars recipients?

**CARRASCO**: I think that if a young person is even applying for the program, they already show the drive and dedication to achieve their dreams and will ultimately succeed. So, I say to all, continue to believe in yourself and be persistent. To those who are selected as recipients, I am grateful and honored that my company and I can contribute positively to your education. I have the utmost confidence in you, and I know you will be amazing.

I would also emphasize to any young people entering the field, cherish your connections. Actively forge relationships with others, volunteer your time, join professional associations. It is by working together that we achieve great things.

Finally, I’d like to take a moment to encourage others already established in the field to contribute to the ITE Diversity Scholars Program. These young people represent the best of our profession’s future, and they deserve our collective support.

Donate to the ITE Legacy Fund

The ITE Legacy Fund supports the development of the next generation of leaders in ITE and the transportation profession, including:

- Helping fund the Diversity Scholars Program;
- Supporting students participating in ITE Student Leadership Summits;
- Enhancing and providing scholarships to the LeadershipITE program;
- ...and so much more!

Donations to the ITE Legacy Fund can be made by visiting the website at www.ite.org/membership/ite-legacy-program or through your membership renewal. For other ways to contribute, please contact Colleen Agan at cagan@ite.org or 202-785-0060 ext 127.

Thank you for helping ITE create the future leaders in transportation.

Milton Carrasco, President and CEO of Transoft Solutions, talks to students about his inspirational journey earlier this year.
As city streets and sidewalks become more congested, city planners face new safety challenges. Simultaneously, connected and automated vehicles are on the rise. The challenge for traffic engineers and planners is complex. How do you choose the right technology and partner to improve mobility, safety, and efficient use of roadways now and into the future?

Bosch Security and Safety Systems provides IP cameras with built-in Video Analytics and metadata streaming for intelligent transportation system solutions. For decades, Bosch has developed Video Analytics technology used in vehicles for driver assistance, semi-autonomous and autonomous driving, and intelligent safety systems. This same foundational analytics technology is inside Bosch IP cameras.

Video Analytics built-in to Bosch IP cameras enables intelligent devices that act as video sensors in detection and monitoring solutions to alert people to safety risks, such as a queue at the exit ramp, slow or stopped vehicles, objects in the road, or wrong-way drivers. Integration with highway information solution providers enables events detected by the cameras to trigger messages about incidents to be sent automatically to smart vehicles or to dynamic message signs to provide advanced notice to drivers entering the area.

Using video as a sensor is also a key component in intelligent intersection solutions. With Video Analytics, detection of pedestrians in a crosswalk can alert the traffic controller to preempt traffic signals, activate lighting to highlight pedestrian presence to approaching traffic, and trigger third-party technology to broadcast messages to smart vehicles.

Along with automatic detection capabilities, the cameras also gather information on roadway usage for data-driven decision making in highway and urban infrastructure planning. As a result, city planners and traffic engineers can create a smarter and safer transportation ecosystem.

Analytics-driven Video Solutions

Delivering safety alerts and data to maximize mobility

Bosch Security and Safety Systems
Email: Intelligent TRANSPORTATION@us.bosch.com
Econolite’s ATCC Standard

An ATC 5301 compliant cabinet, offering the most compact design possible. With support for up to 120 channels of detection and 32 phases, the ATCC Standard is easily customizable to control virtually any type of intersection, including connected vehicle operations. The ATCC’s Smart City-ready design features advanced diagnostics, enhanced safety, and ultra-low power options.

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SAFER, SMARTER, GREENER

Serial-based architecture improves monitoring & troubleshooting

Minimizes occurrences of dark intersections using a touch-safe design

Efficient design, safe use of ultra-low power LEDs, & ability to use DC power signals
Getting You There. Smarter.

Deploy Smart Intersection Technology Today

Whether it’s our Synchro® Traffic Analysis and Simulation software, used in more than 90 countries and now integrated with our ATMS Central Management software, or the fastest growing adaptive system SynchroGreen®, Cubic Trafficware technology delivers. Explore the entire smart intersection family of products.

Synchro Studio
Traffic Signal Timing Application

ATMS
Central Management Platform

SynchroGreen
Real-time Adaptive Signal Control Technology

Cabinets & Controllers
Legendary Quality

PODS
Wireless Detection System

TidalWave
Connected Vehicle Solution
Smart City V2I

Signal Performance Measures

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