



FEBRUARY 2016

www.westernite.org/Sections/Washington

ITE Newsletter Volume 26, No.6

ITE/IMSA Annual Joint Conference and Vendor Exhibition

When: Monday, February 08

Exhibits, Lunch, Presentations &

Technical Sessions

8:00 AM – 4:00 PM

Where: Doubletree Hotel – SeaTac Airport

Lunch available if RSVP by Monday, February 01 to Carla Nasr at itewaregister@gmail.com

See EVENTS CALENDAR for information.

Mark the Date

ITE/IMSA Joint QUAD Conference and Vendor Exhibition

When: May 23 -24

Where: Lynnwood Convention Center
Lynnwood, Washington

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- ITE-WA Officers

President's Message

As we bid 2015 goodbye and welcome 2016, we are only halfway through our ITE activity year. We started out of the gates strong with topics on the differences in generations in our work force and ways we've adapted to a changing environment. We've been focusing on "connections" and "safety" over the years, but as technology and culture continue to evolve, our approach and tactics must too. This has also been the same with planning our year of activities.



Paul Cho
ITE-WA President

Our monthly meetings have been very successful with great attendance. It is thanks to many members that have stepped up to help share ideas on topics, speakers, venues, and mostly their time. The teamwork in putting together this year's program has been impressive. Many hands do make quick work. What is even more impressive is the diverse skills of each of the members and how it has been applied. Most of the time, I feel like my biggest role as President is getting out of everyone's way and not be a choke point.

As I mentioned we are only halfway through our year and it's looking to be quite an exciting second half. The always well attended joint ITE/IMSA conference plans are all set with an

[See Presidents Message \(next page\)](#)

CALL FOR PHOTOS FOR ITE-WA WEBSITE

We're looking for photos of projects suitable for use on the ITE-WA website. These should preferably be multi-modal in nature and capture the greatness of Washington State.



Please send photos to Sherief Elbassuoni at she@dksassociates.com by February 12, 2016.

Photo by Ed Aristo – Sea-Tac Lighting & Controls

President's Message (continued)

exciting program and schedule adjustment to allow everyone to have an equal opportunity to attend technical programs, visit vendor displays, and have training on specific technologies by vendors. We've worked hard to create a full day schedule and encourage attendees

"We've been focusing on "connections" and "safety" over the years, but as technology and culture continue to evolve, our approach and tactics must too."

to stay for the whole conference rather than trying to "cut out early" to attend an afternoon meeting back at the office. This is such a great opportunity to network with members of IMSA that are tasked to keep our infrastructure operating and vendors that help provide the tools necessary to meet the needs.

Leaping from the success of ITE/IMSA partnership, we now have a location (Lynnwood) and dates (afternoon of May 23rd through the morning of 24th) for the ITE QUAD and IMSA Annual Conference this spring. We are ramping up coordination efforts to fill in the details of programs, certification classes and activities. There will be a call for abstracts, so please consider submitting information for consideration into the programs. The success of the conference correlates directly with the participation of membership and also their circle of influence.

I am also happy to report that the Inland Northwest Chapter has put together their interim executive board. While specific details are being worked out, the intent is to hold longer quarterly meetings rather than short monthly meetings. Previous meetings were held at the City of Spokane, often focused on the Spokane area, but will work on

am looking forward to what's in store for in 2016. And as always, the success of our Section is solely determined by all the hard work that is put into it by volunteers directly from our membership. If you like

~ Paul Cho, President

Senior Traffic Operations Engineer
City of Redmond

Scribe's Report

The February Meeting Scribe Report will be in the March Edition.

changes to support and engage a much wider area. The following are the appointed interim officers:

President – Ken Knutson,
City of Spokane

Vice President – Adam
Miles, City of Spokane

Secretary/Treasurer – Inga
Note, City of Spokane

The Chapter is hoping to host a re-launch event in Spokane in the coming months.

Because of the QUAD conference, we will have a simple luncheon meeting in June for our annual business meeting. We'll recap the year and announce awards. And we'll look forward to another great year with the induction of our new officers. And last but certainly not least, we'll expect to have a great golf tournament.

I hope that you are as excited as I



Washington Transportation Professionals Forum (WTPF)

www.wsdot.wa.gov/LocalPrograms/Traffic/WTPF.htm

The Washington Transportation Professionals Forum is a group of local agency traffic, transportation, and public works engineers, technicians, directors, managers, supervisors, planners, mayors, clerks, council members, and related professionals. Partners of local agencies such as other organizations, consultants, and vendors are also members of the group. Members share information and discuss ideas about traffic-and transportation-related issues at free meetings, through a free email distribution list, and through strong resulting connections in the professional community.

WTPF meetings are organized and led by WSDOT Local Programs but the group's focus is on local agency traffic- and transportation-related issues. The group is owned by the members.

Meetings

WTPF meets at least two times per year, once on each side of the state. These free meetings are available by live webinar to reach local agencies and their partners anywhere in the state.

Next Meeting

Our next meeting will be held in spring 2016. Please check back in early 2016 for more details. Please join as a member to learn more by contacting the Traffic Services Manager.

Washington State Dept. of Transportation's Local Technical Assistance Program (LTAP)

LTAP Training Program provides local agencies access to relevant training opportunities. LTAP sponsors its own courses, directly targeting the training needs of local agencies receiving Federal funding, as well as gathering information about other valuable training.

Courses that are conducted by LTAP are specifically designed to help educate Washington State local agencies working with the Local Programs office and who are receiving Federal funds.

Career Opportunities

Development Review Manager / City of Bellevue <http://www.ci.bellevue.wa.us/jobs.htm>

Closing date: 2/05/16 5:00PM Pacific

WSDOT LINK TO CAREER OPPORTUNITIES * if WSDOT links above are not working, the website is www.wsdot.wa.gov/employment/jobs	Area Traffic Engineer / WSDOT – Snohomish & Mount Baker Closing date: 2/05/16 11:59PM Pacific Time *LINK: Area Traffic Engineer – Snohomish & Mount Baker Regional Traffic Operations Engineer / WSDOT – King County, Seattle-N. Seattle Closing date: 2/05/16 11:59PM Pacific Time *LINK: Regional Traffic Operations Engineer Assistant Area Traffic Engineer / WSDOT – King County, Seattle-N. Seattle Closing date: 2/05/16 11:59PM Pacific Time *LINK: Assistant King Area Traffic Engineer
--	--

Associate Traffic Engineer / City of Tacoma - Closing date: 2/29/16 5:00PM Pacific Time

LINK: Tacoma Associate Traffic Engineer

http://www.cityoftacoma.org/government/city_departments/human_resources/employment_information/job_opportunities



2016 ITE Washington

Dates are subject to change. Watch future newsletters for details and events.

FEB 08	ITE-WA/IMSA Annual Joint Conference & Exhibitor Show. SeaTac, WA (see next page for details)
MAR 08	ITE-WA luncheon meeting (TBD)
APR 12	ITE-WA luncheon meeting (TBD)
MAY 10	ITE-WA Student Night – Ivar’s Salmon House, Lake Union, Seattle (see below)
MAY 23-24	ITE QUAD Conference – Lynnwood Convention Center, Lynnwood, Washignton
JUN TBD	ITE-WA Annual Business meeting (TBD)
JUN TBD	ITE-WA Terry Gibson Golf Classic #28 (TBD)

Student Night Competition

Please mark your calendars to attend the **ITE Student Night on May 10, 2016 (Tuesday)**. This event is a great opportunity for students to network with professionals. As a part of the student night, students are encouraged to participate in the Student Competition for cash prizes. Stay tuned for more information.

Student Scholarships

Information for 2015 and 2016

The Washington State Section of ITE is now accepting applications for the undergraduate and graduate scholarships. The scholarships are awarded to students who are interested in pursuing a career in transportation engineering or planning. If you would like to apply for the scholarship, please download the appropriate application form and submit it to the Student Activities Committee by **5:00 PM April 15th, 2016**. The scholarship winners will be announced at the ITE Student Night in May.

The scholarships for 2016 will be awarded in the following amounts:

Undergraduate:	\$1,500.00	Application
Graduate:	\$2,000.00	Application

If you have any questions, please feel free to contact the Student Activities Committee Co-Chairs:

Richard Hutchinson, DKS Associates (206) 382-9800 or rjh@dksassociates.com
Pablo Para, City of Auburn (253) 876-1958 or ppara@auburnwa.gov

2016 ITE & ITE Partners Events Calendar

Dates are subject to change. Watch future newsletters for details and events.

APR 4-8	APWA Washington Spring Conference – Vancouver, Washington
JUL 10-13	WesternITE Annual Meeting – Albuquerque, New Mexico
AUG 14-17	ITE Annual Meeting – Anaheim, California
OCT 4-7	APWA Washington Fall Conference – Spokane, Washington

2016 ITE-WA/IMSA – Monday, February 8, 2016 Annual Joint Meeting & Vendor Exhibits

The Washington State Section of ITE and the Northwest Section of IMSA Annual Joint Meeting and Vendor Exhibition is the premier trade show in the Pacific Northwest for traffic and transportation related products. In addition, it has excellent technical programs focusing on most relevant issues and industry trends. This joint meeting has become one of the best learning and networking platforms for meeting attendees including those from local agencies and engineering firms in Washington, Oregon, Alaska, Canada, Idaho and Montana.

- Share ideas and comments on the latest development in the transportation world,
- Touch, see and hear about newest traffic and transportation products, and
- Network with fellow professionals.

LOCATION: Doubletree Hotel (18740 International Boulevard, Seattle, WA 98188)

AGENDA:

8:00 AM	Check-In
8:00 AM -4:00 PM	Vendor Exhibit
8:30 AM - 3:30 PM	Technical Programs
11:30 AM - 1:00 PM	Luncheon and Prize Raffle
9:30 AM - 4:00 PM	Vendor Seminars

LUNCH: Grilled Chicken Mediterranean with Rustic Apple Tart (Vegetarian option available upon request)

COST:

- **FREE** attendance of exhibition, programs and seminars.
- **FREE** parking.
- **Lunch tickets will be \$40.00** for ITE and IMSA members, \$45 for non-members, and \$15 for students.

Reservations for Lunch: Reservations must be made in advance, before noon on **Monday, February 1st**, by sending an email to itewaregister@gmail.com. The email subject line should be “February 8th ITE and IMSA Joint Meeting luncheon.” In the body of your email, please provide your name, names of others included in your reservation, and the name of your organization. Also note if a vegetarian lunch is desired. If you do not wish to reserve lunch, no advance registration is required for attending this meeting.

Note: Lunch reservation is non-cancellable and payment is non-refundable. If you or someone in your group has a lunch reservation but cannot attend, you will still be responsible for the cost of the lunch.

Lodging: We have a small block of hotel rooms reserved for Sunday and Monday night. Please contact the hotel directly to reserve accommodations and ask for the '**Institute of Transportation Engineers**' group rate (\$119/night). The group rate is only available until **January 15, 2016**. The phone number of the hotel is (206) 246-8600.

Parking: Each attendee is limited to receiving one (1) free validated parking ticket at sign-in. Please note that if you attend as part of a group and carpool, each group will receive only one validated ticket.

Program Agenda: Technical Sessions will begin at 8:30 am. There will also be a luncheon presentation. A program schedule will be provided shortly on the ITE Washington Section website.

Vendor Display: This one-day vendor exhibition includes traffic and transportation technologies, products, and services in every aspect of the transportation system. Come and talk with representatives of manufacturers and technology development companies. Download the meeting announcement [here](#).

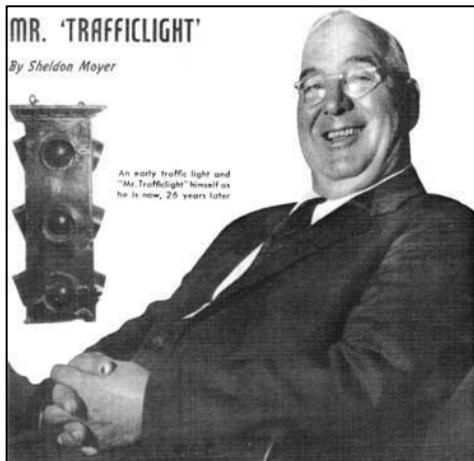
See you there!

There were two significant traffic signal inventions in the 1920's. This is a two-part story.

Traffic Lights Invented by William L. Potts – October 1920

Police Officer William L. Potts of Detroit, Michigan, decided to do something about the problem caused by the ever-increasing number of automobiles on the streets.

What he had in mind was figuring out a



way to adapt railroad signals for street use. Potts used red, amber, and green railroad lights and about thirty-seven dollars worth of wire and electrical controls to make the world's first 4-way three color traffic light. It was installed in 1920 on the corner of Woodward and Michigan Avenues in [Detroit](#). Within a year, Detroit had installed a total of fifteen of the new automatic lights.

The Story:

Even during the horse and buggy days, traffic in big cities was often heavy. Police officers had to be stationed full time directing traffic at busy

intersections.

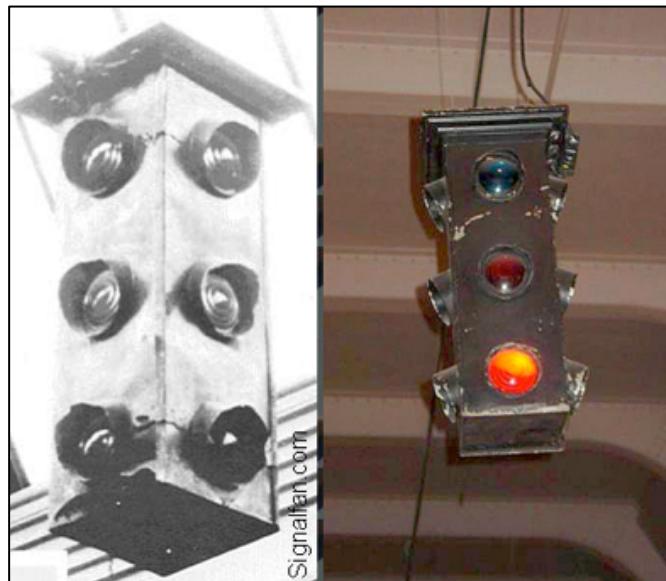
The world's first traffic light came into being before the automobile was in use, and traffic consisted only of pedestrians, buggies, and wagons. Installed at an intersection in London in 1868, it was a revolving lantern with red and green signals. Red meant "stop" and green meant "caution." The lantern, illuminated by gas, was turned by means of a lever at its base so that the appropriate light faced traffic. On January 2, 1869, this crude traffic light exploded, injuring the policeman who was operating it.

With the coming of automobiles, the situation got even worse. Police Officer William L. Potts of Detroit, Michigan, decided to do something about the problem. What he had in

"Potts used red, amber, and green railroad lights and about thirty-seven dollars worth of wire and electrical controls to make the world's first 4-way three color traffic light."

mind was figuring out a way to adapt railroad signals for street use. The railroads were already utilizing automatic controls. But railroad traffic traveled along parallel

The Henry Ford Museum in Dearborn, Michigan. In the museum hangs the first 4 way signal ever made using red, yellow and green lights. The signal was made by William Potts of the Detroit Police Department, and was made of a wood frame with a sheet metal covering. It has 3 light bulbs, similar to the old 3 bulb Darley 4 ways, so on two of the four sides, the red and green lenses had to be reversed from the positions we are used to today. The lenses were 4 inch diameter railroad lenses. It was first installed at the intersection of Woodward Ave. and Fort Street in October, 1920. It remained in service for four years.



SPECIAL THANK YOU to the Traffic Signal Museum and John of www.signalfan.com and Jeff of www.railroad-signaling.com who gave permission to re-print their article.

Evolution Part 2 (continued)

lines. Street traffic traveled at right angles. Potts used red, amber, and green railroad lights and about thirty-seven dollars worth of wire and electrical controls to make the world's first 4-way three-color traffic light. It was installed in 1920 on the corner of Woodward and Michigan Avenues in Detroit. Within a year, Detroit had installed a total of fifteen of the new automatic lights.

At about the same time, Garrett Morgan of Cleveland, Ohio realized the need to control the flow of traffic. A gifted inventor and reportedly the first African American to own an automobile in Cleveland, Ohio, he invented the electric automatic traffic light. Though it looked more like the semaphore signals you see at train crossings today.

Read Part 2 in next month's March 2016 Edition ~



The three-color automatic traffic light was invented by police officer William L. Potts in 1920. He wanted to adapt railroad signals in a way that would help control the steadily increasing number of automobiles on the road. The first one was installed in Detroit, Michigan.

Within a year, Potts had installed 15 of these new automatic lights

Photo courtesy of Murica technology

NOTE: Green was on top and Red on the bottom.

Try reading this at 60 MPH!

Sign of the Times

Institute of Traffic Engineers — Institute of Transportation Engineers

Continuing Series. Reprinted with permission from ITE.org

1960s

Typical 1960s signing.

ITE International Presidents

Edward G. Wetzel
1959-60

Alger F. Malo
1960-61

Gordon K. Gravelle
1962

J. Al Head
1963

Fred W. Hurd
1964

George W. Howie
1965

Alexander L. Hutchison
1966

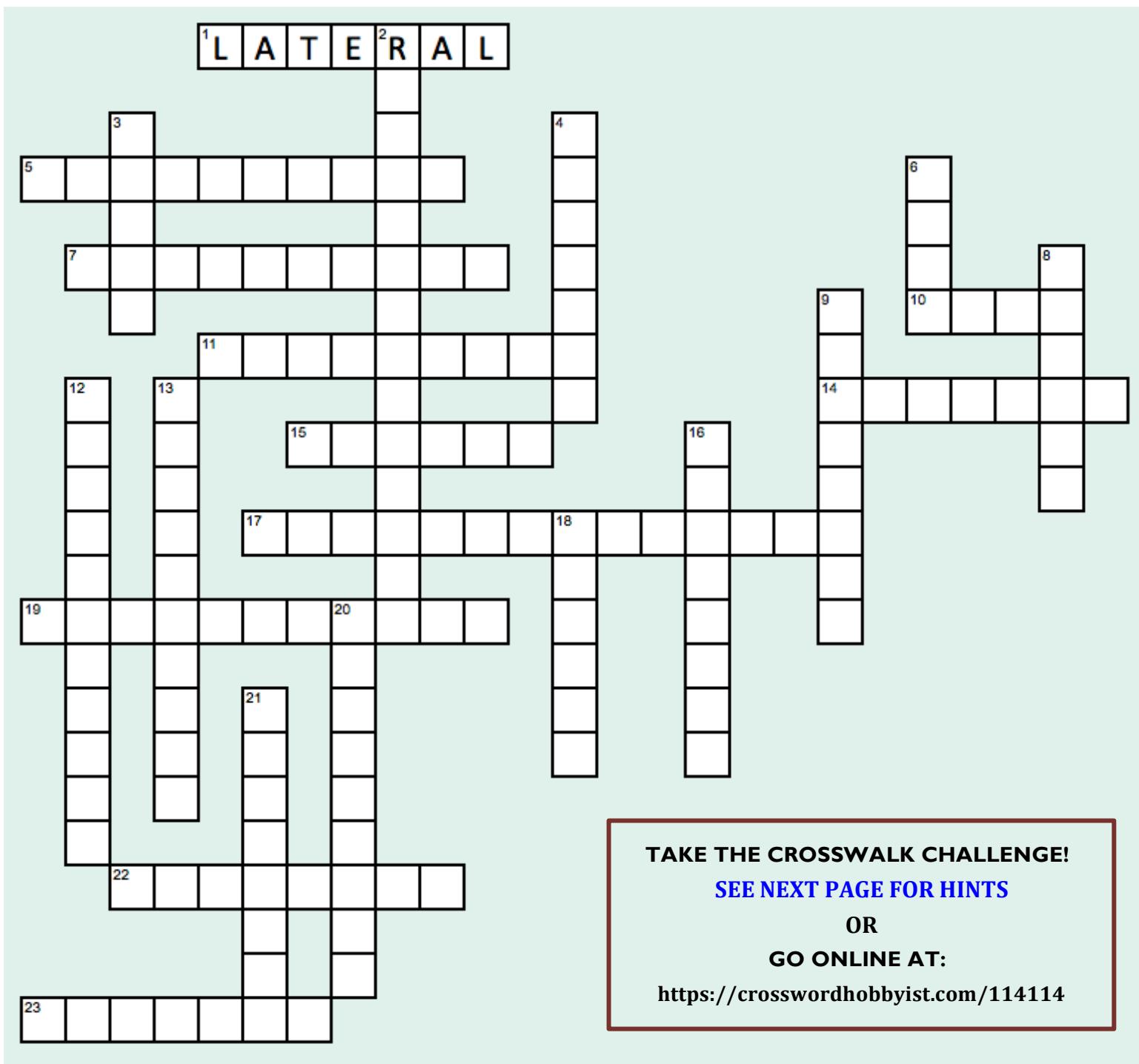
Edmund R. Ricker
1967

David M. Baldwin
1968

Marble J. Hensley Sr.
1969

As the 1960s got under way, major strides were being made in connecting the country via the Interstate Highway System. ITE continued to supply the country with capable traffic engineers to help with the mammoth project.

- *Dynamic Design for Highway Safety* is published.
- First Annual Meeting takes place in Canada.
- Voting membership exceeds 2,500 members.
- ITE facilitates TOPICS, a federally funded program to increase capacity and safety.



TAKE THE CROSSWALK CHALLENGE!

SEE NEXT PAGE FOR HINTS

OR

GO ONLINE AT:

<https://crosswordhobbyist.com/114114>

Wise Tales

Two mixing chambers are working in a factory, one says to the other "You are so efficient! How do you do it?"

The other mixer turns to him and says, "I don't know, I'm baffled."

Across

- 1** pressure that soil exerts in the horizontal direction
 - 5** A transportation facility built to accommodate two or more types of transportation modes (e.g. bus/rail terminal).
 - 7** _____ -Miles of roadway measured without regard to the number of lanes or functional classification of the road.
 - 10** Acronym for American Public Works Association
 - 11** No longer called an accident when one object impacts another.
 - 14** WSDOT Headquarters
 - 15** Untreated or only slightly washed, rounded, natural building aggregate, larger than 5mm (for concrete 10mm).
 - 17** A classification of roads based on ownership of the road.
 - 19** A highway intersection allowing traffic to move freely from one road to another without crossing another lane of traffic.
 - 22** An elevated roadway that crosses over another thoroughfare.
 - 23** A lowland area, such as a marsh or swamp, saturated with moisture. A natural wildlife habitat.

Down

- 2 Involves major structural modifications to an existing bridge.
 - 3 provides access to the rear of properties and may be public or private.
 - 4 Current ITE-WA President's City of employment.
 - 6 Transit service for individuals with disabilities who are unable to use the fixed route public transit system.
 - 8 Method to traffic signal poles vertically
 - 9 self-propelled vehicle with an air blast, blade or a rotating blade that throws the snow aside.
 - 12 Washington Bavarian Theme City
 - 13 Hotel hosting the February 08 ITE/IMSA Conference
 - 16 A road that parallels the interstate to relieve traffic congestion caused by local trips.
 - 18 Concrete paste material
 - 20 Concrete material
 - 21 The banks of a river or stream.

ITE/IMSA Annual Joint Conference and Vendor Exhibition

When: Monday, February 08

Exhibits, Lunch, Presentations & Technical Sessions

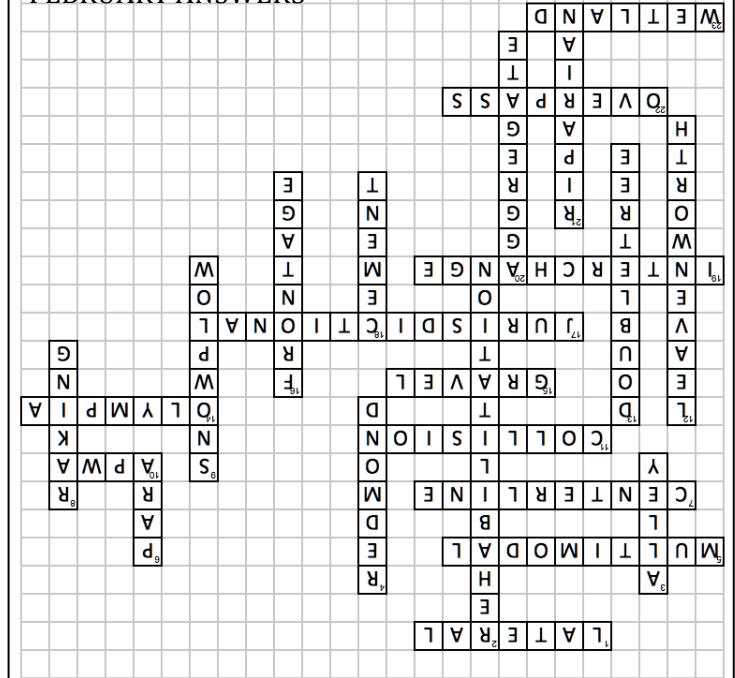
8:00 AM – 4:00 PM

Where: Doubletree Hotel – SeaTac Airport

**Lunch available if RSVP by Friday, January 08
to Carla Nasr at itewareregister@gmail.com**

See EVENTS CALENDAR for information.

FEBRUARY ANSWERS



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LEOTEK 48
STLC 46/47

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Arlen 20" Structural
FHWA Approved -
Roadway Street Breakaway



Arlen 17" Structural
FHWA Approved -
PED Scale Breakaway

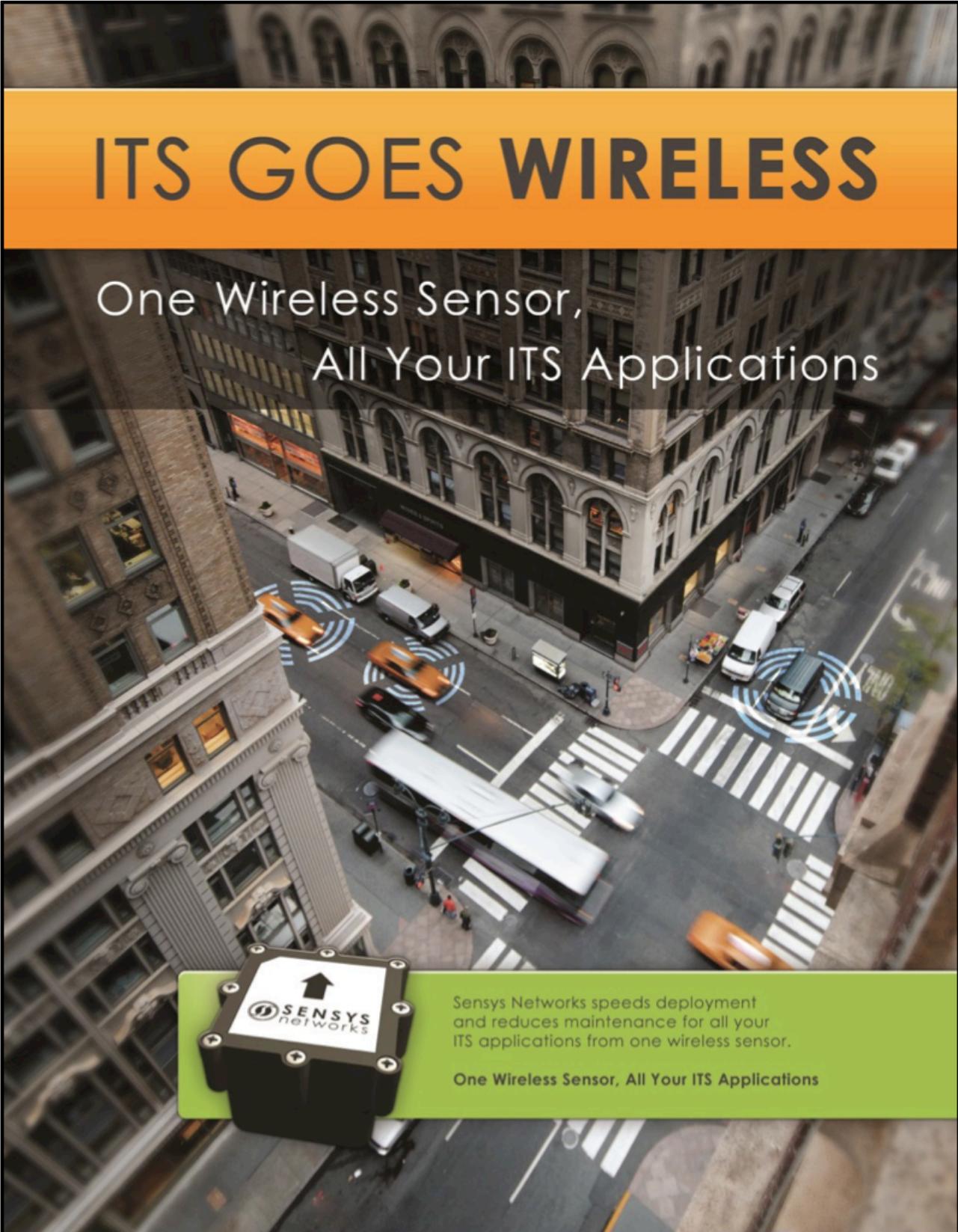
Maximum mounting
height based upon EPA
calculations per AASHTO
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South Florida requirement
(146 MPH zone and 50 year
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height may be larger.

PED SCALE

Arlen 17" Structural
FHWA Approved - Breakaway



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Full Page Ad.....	\$1000

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<http://www.westernite.org/Sections/washington/index.htm>.

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If you have comments about this newsletter or have an interesting announcement, topic, or project to share, please contact:

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ITE WA Website

<http://www.westernite.org/Sections/Washington/>