WASHINGTON STATE INSTITUTE OF TRANSPORTATION ENGINEERS

VOL. 27 | ISSUE 8 | JUN 2017 INSTITUTE OF TRANSPORTATION ENGINEERS & PROFESSIONALS

# President's Message

## JUNE 2017

**Paul Cho, P.E., PTOE**
**ITE President**

What an amazing May we've experienced this year. We seemed to have gone directly from winter to summer. What happened to easing into warmer weather with spring? Nope. Have to go from 40s and raining sideways to 90 degrees over Memorial Day weekend. But with the coming of summer, comes the close of our 2016-2017 ITE Washington activities year. And what an amazing year we've had.

I want to thank those that have invested their time and energy into bringing each monthly meeting, special training, joint meetings and conferences together for our education and enjoyment throughout the year. All the behind the scenes work is done by volunteers who want to provide the highest quality of programs and activities.

I especially want to thank the Board members; Carter Danne as (Immediate) Past President and Mike Hendrix as Vice President-Treasurer for continuing their service for another term. The additional experience they brought to each topic, each issue, each discussion, each meeting we worked on was priceless. I want to thank Daniel Lai for jumping into his new role as Secretary with both feet and running as soon as he hit the ground. The amount energy, creativity and technical knowledge really put a lot of wind in our Section's sails. And I want to especially thank Ed Aristo for putting together the best ITE Newsletter each month and Carla Nasr for organizing a wide variety of venues and menus for our monthly meetings and Darcy Akers for keeping us apprised of what happened at each of the meetings if we were unavoidably absent. Not to take away from the efforts of those individuals who have contributed to

***~ See President's Message Next Page***

**ITE ANNUAL MEETING**

**CONFERNCE**

When: **Thursday June 22**
**7:30 am – 5:00 pm**

Where: **Embassy Suites**
3225 158 Ave SE
Bellevue, WA 98008

***Register on-line***

ite_wa_annual_meeting.eventbrite.com

**SAVE THE DATE**
**SEPTEMBER 12**
**2017-2018 ITE WASHINGTON SECTION KICKOFF MEETING**

## *Inside this Issue*


- President's Message
- Treasurer's Chest
- Wise Tales
- Scribe Report
- Election Section Secretary Candidates
- Event Calendar
- ITE Terry Gibson Golf Classic-June 14
- **ITE Annual Meeting Agenda**
- Training & Career Opportunities
- Sign of the Times
- Yesteryears – Seattle's First Traffic Light
- CrossWalks Word Search
- ITE-WA Support Advertisers
- ITE-WA Section Officers
- ITE-WA Section Business

## President's Message- continued

meetings and events throughout the year, but these individuals have been serving our section every month.

But the year isn't over yet. We still have our annual Gibson Classic ITE-WA Golf Tournament at Oakbrook Golf Course in Lakewood as well as our Annual Meeting and Conference at the Embassy Suites Hotel in Bellevue. We'll be recognizing those that have contributed to this year's activities at the awards ceremony as well as swearing in the new officers. We'll also be presenting special awards for those that have gone above and beyond in their service to the section as well as the transportation community.

Along with a dual track technical program schedule filled with great topics, we'll have a meeting for volunteers and committee chairs to begin planning for the 2017-2018 activities. If you're curious about getting involved or have been quietly burning with the urge to serve our local section, please come join the meeting and learn how you can get involved in providing the best quality programs and activities for our ITE Washington Section.

**Paul Cho, P.E.; ITE President**
Traffic Operations Engineer
City of Redmond

## Wise Tales:

### Volunteers

Our membership would not be possible without the hard working efforts of our 2016-2017 ITE Washington Section Board and Volunteers.

Check out the CrossWalks for recognition.

## Treasurer's Chest

### JUNE TREASURER REPORT

**Mike Hendrix, P.E., PTOE**
**ITE Vice President**

Our May Student Night was a great opportunity for our membership and students in the area to connect. As in previous years, our section makes this event free to students to encourage this interaction. Because of the cost, we are greatly dependent on the generosity of our sponsors to help defray some of the costs of putting on this event.

I'd like to personally say thank you to our sponsors. If you have a moment, please express your gratitude to them for their contributions to the next generation of engineers!

**Student Night Sponsors:**

- **Transportation Solutions, Inc (TSI) $500**
- **Casseday Consulting $250**
- **DKS $250**
- **Concord Engineering $250**
- **IDAX $200**
- **Fehr & Peers $200**

Here are the details of May's Student Night financial information:

Sponsorship: $1,650.00

Meeting Dues: $1,378.75

Total Income: $3,028.75

Venue and Catering Cost: $3,119.34

Net Loss: $90.59

Although we had a minor loss, our previous two meetings had a slight profit to cover this cost. As you can see, this meeting can only be possible with the generosity of our sponsors. Thank you again!

A preliminary financial report for our past year will be presented at our annual meeting on June 22 at the Embassy Suites in Bellevue. The final report for the 2016-2017 year will be presented in our kickoff newsletter in September. See you in June! -Mike

**Mike Hendrix, P.E., PTOE; ITE Vice President**

Project Manager; Perteet

# Scribe's Report

## Scribe Report – May 2017 Student Night By Darcy Akers

**Darcy Akers**
ITE Scribe

As spring finally reached Seattle, it was time once again for the annual Student Night competition at the Ivar's Seafood House on beautiful Lake Union. This year's event attracted a big crowd of both professionals and students to hear the creative solutions for this year's challenge.

**The challenge was how to change an existing 2 lane collector with no multimodal facilities into a roadway for all users that better serves the needs and desires for the surrounding neighborhood.**

The Lea Hill Road corridor in Auburn, WA provided the setting for this year's project. The challenge was how to change an existing 2 lane collector with no multimodal facilities into a roadway for all users that better serves the needs and desires for the surrounding neighborhood. Three student teams competed this year and each presented a variety of solutions that would make the corridor more inviting for bikes, pedestrians and transit.

University of Washington undergraduate students Megan Eide, Marina Savenkova, and James Roney earned third place with their idea of a multimodal path, upgrade to LED lighting and enhanced crossings using RRFB. Their estimated budget was lowest of the three by limiting the amount of road widening needed. Seattle University undergraduate students Kori Chun, Grace Kurtz and Kristen Hooper came in second with their two-step approach. In the short term, they suggested enhanced crossings and speed signs after using a speed gun to see firsthand what speeds cars were traveling and then long-term they suggested rebuilding the road with bike lanes and adding left turn pockets strategically.

The final team to present was Jose Luis Machado, Mayuree Binjolkar, and Gabriela Girón. These three graduate students from the University of Washington took home first place with their extensive proposal. Their design concept included a cycle track as well as a sidewalk, bus bulb outs, and improved crossings.

To wrap up the night, the Annual ITE Student Scholarship recipients were announced. The winner of the Undergraduate Scholarship was UW Junior Marina Savenkova and the High School Senior Scholarship winner was Tuan Tran from Mt Tahoma High School.

**First Place 'Team UW'**
L to R: Jose Luis Machado, Gabriela Girón and Mayuree Binjolkar with Mike Hendrix, ITE Treasurer

Thanks to all the members that came out to support these students. As a recent graduate myself, Student Night was one of the first ITE events I attended and one of my favorite meetings. It's a great networking opportunity and a chance for students to meet professionals that they might soon be working alongside.

This year was a great success as always, so a big shout out to our student activity chairs, Richard Hutchinson and Pablo Para!

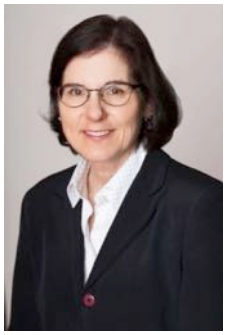
# 2017-2018 ELECTIONS

## Candidates for Secretary

**Ballots will email to members week of June 05.**

### Claudia S. Hirschey, P.E.

Owner and Senior Transportation Engineer, Transportation Consulting Services



Claudia S. Hirschey, P.E.

I am honored to be a candidate for Secretary of the Washington State Chapter, Institute of Transportation Engineers. I have a reputation for loyalty and commitment with every organization I've been involved with. I'm both proud and happy to be a transportation engineer, and if elected, I hope to elevate our reputation by continuously focusing on the technical work that we do. I joined ITE while in graduate school. My first job was with the WSDOT Olympic Region, Traffic Engineering office. Within the first month, I attended an ITE meeting in Bellevue and have continued to participate in and support ITE for 30 years. During my career, I managed the Sound Transit HOV Direct Access Predesign in Totem Lake, Kirkland, prepared the truck mobility technical analysis for the Columbia River Crossing project, was a team member for Sound Transit's Lynnwood Link predesign, and have served in many other technical roles for all modes of transportation. I've taken on a variety of leadership roles in my profession and community. My community activities always remind me why we are in the best profession – we get people to work, school, recreation, and medical appointments; our profession is the backbone of our economy, and we keep people safe in their transport. We get to be engineers and work with numbers, and we get to know our communities. My brief resume of leadership roles include:

- ITE Seattle National Conference 2003, Hospitality Chair
- WTS, nearly all positions, WTS Member of the Year, 2013
- Councilmember, City of Newcastle, 1998 – 2002
- King County Metro's Regional Transit Committee, Suburban Cities Representative, 1998 – 2001
- King County Boundary Review Board, four terms, and two years as Chair
- Board Member, Lake Heights Family YMCA, three terms, culminating with a new full-service YMCA in Newcastle
- Volunteer, International Rescue Committee (IRC)

I look forward to serving the Washington State Section of ITE and would appreciate your vote for me for Section Secretary.

**Claudia S. Hirschey, P.E.**

### Lawrence Guan, P.E.

Supervising Traffic Engineer, WSP-USA

Lawrence Guan, P.E.

As a college student, ITE provided me with insights into the profession of traffic/transportation engineering. As an engineer, ITE serves as an educational platform from which to acquire new knowledge and further my professional development. Needless to say, ITE played an important role in steering my career path and continues to play an important role in my professional career. I have served as a co-chair in the ITE/IMSA Joint Meeting Committee for a number of years, and it has been a truly rewarding experience. As such, I am honored to be given the opportunity to serve ITE again and to become your next Section Secretary for ITE Washington. If elected for this role, I will be fully committed to support the growth of our membership base, collaborate with the great group of volunteers who co-chairs the various committees to promote our organization, and to continue the success in keeping our members well-informed of upcoming events and activities using various media, some of which I could only have dreamed of "back in the days". Furthermore, I will support and advocate for ways to give student members more opportunities to learn about and experience this exciting profession of ours, and ways in which our section can continue to be an excellent educational resource for our professional members to learn, develop and grow in their careers.

**Lawrence Guan, P.E.**

## ITE-Washington 2017-18 ELECTIONS

Ballots are being emailed the week of June 05 to members for electing our Section Secretary for the 2017-18 business year.

Please check your email and vote!

wa-ite.org

# Event Calendar

## 2017 ITE Washington

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

**JUN 14** .....ITE Annual Golf Tournament/Scholarship Foundation – Oakbrook Golf Course, Lakewood

**JUN 22** **Annual Meeting Conference - Embassy Suites Hotel Bellevue [see itinerary next page]**

### SAVE THE DATE:

**SEP 12** **2017-2018 Kickoff Luncheon Meeting**

## 29th Annual Gibson Golf Classic Update

We are now counting down the days until the 29th Annual ITE Terry Gibson Golf Classic! This year's classic is on Wednesday June 14th at Oakbrook Golf Club in Lakewood, WA. Thank you great turn out and the TWENTY teams that have signed up – now its time dust off your golf clubs!

**Remember** – get to the course early for practice at the range and checking out the competition. We are asking for everyone to try to **check in by 8:30am** so we can get off to a prompt start at 9am. The day will start off with a speed putting contest sponsored by *SeaTac Lighting*. You won't want to miss it! Then after a quick group photo, it's tee time. As you play, you can use your drink tickets provided by *All Traffic Data* to purchase refreshments.

After a round of golf, there will be a BBQ lunch sponsored by *IDAX Data Solution* and the awards banquet. The banquet will feature the team competition awards sponsored by *Prime Electric*, special hole competition prizes sponsored by *Advanced Traffic Products* and raffle prizes sponsored by *Western System*, *Zumar* and *TransCore*.

We have started our "sun dances" and are crossing our fingers for sunny weather! We are looking forward to see all you golfers at Oakbrook.

Thanks –
Darcy Akers & Mark Poch
ITE Golf Co-Chairs

## 2017 ITE WA Partner Events

**JUN 18-21 .....Western ITE Annual Meeting, San Diego, CA**

**JUL 30-AUG 02 ....ITE International Annual Meeting, Toronto, Ontario Canada**

SEP 10-13 .....IES-Street and Area Lighting Conference, Austin Texas

OCT 3-6.....APWA-WASHINGTON, Kennewick Convention Center

OCT 17-20.....APWA-OREGON, Pendleton Wild Horse Convention Center

# AGENDA - 2017 ITE Washington Annual Meeting Conference

**Below is the Agenda for our annual meeting.**

**To attend, please signup in advance using EventBrite and check our website for current updates.**

**https://ite_wa_annual_meeting.eventbrite.com**

## ITE Annual Meeting Conference

**THURSDAY JUNE 22, 2017**

**Embassy Suites: 3225 158 Ave SE, Bellevue, WA 98008**

**(425) 644-2500. embassysuites3.hilton.com**

| Time | Track 1 (Conference Room-1) | Track 2 (Conference Room-2) | |
|---|---|---|---|
| 7:30 AM | Breakfast and check in | | |
| 8:30 AM | Opening Keynote Address (WSDOT Secretary, Roger Millar) | | |
| 9:15 AM | AM Break | | |
| 9:35 AM | Tolling and Road User Charge | Latest and Greatest in ADA Practices (Panel Format) | |
| 10:35 AM | Signal Design (Panel Format) | The Three E's of Transportation | |
| 11:35 AM | Luncheon - FHWA Keynote (Trends in Traffic Engineering - James Collier, FHWA) | | |
| 1:05 PM | Annual ITE Membership Meeting | | |
| 2:05 PM | Traffic Safety | Adaptive Signal Control and ITS | 2018 ITE/IMSA Planning Meeting |
| 3:00 PM | PM Break | | |
| 3:15 PM | Traffic Safety (continued) | Students in Transportation | |
| 4:10 PM TO 5:00 PM | Social and Networking | | |
| ADJOURN | | | |

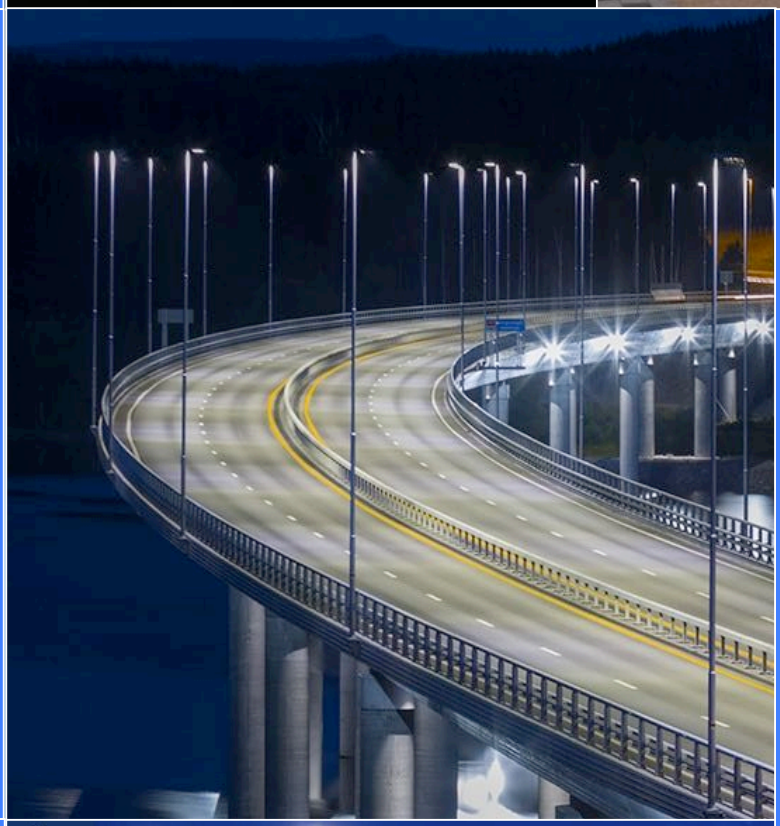
# ITE-WA Support Advertisers


ILLUMINATION, CONTROLS & POLE SOLUTIONS

ACCENT

Manchester Storm Water Park
Kitsap County

SAFETY & STYLE



LED LUMINAIRES & POLES

CONTROLS

STREET LIGHTING

Sea-Tac Lighting & Controls, LLC ROADWAY DIVISION 206.575.6865 www.seataclighting.com

## Washington Transportation Professionals Forum (WTPF)

### Live FREE Webinar Available

### JUNE 08 - 8:30 AM to Noon

**SPRING MEETING AGENDA** (subject to change)

- Smart Cities 101 to prepare for connected and autonomous vehicles
- Process to request experimentations and interim traffic control device not in the MUTCD Manual
- Bainbridge Island's FHA two-stage bicycle boxes experience
- Road configurations for on-road bicycle facilities into resurfacing projects
- Small town and rural multimodal networks overview

Meeting will be held at the Moses Lake Fire Department Headquarters for those of you who want to attend in person. Plan to arrive at 8:00 am for networking time.

**Online register (before or during the meeting):**
https://attendee.gotowebinar.com/register/4797798534725190147

**Webinar id #: 816-306-811**

---

**Washington Transportation Professionals Forum (WTPF)** is a member-owned group of local agency traffic, transportation, and public works engineers, planners, technicians, supervisors, managers, directors, 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 holds free meetings that are organized and led by WSDOT Local Programs, with help from local agencies. Meetings are held live on both sides of the state and are available by live webinar to allow an exchange of ideas across Washington.
http://www.wsdot.wa.gov/LocalPrograms/Traffic/WTPF.htm

## 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.

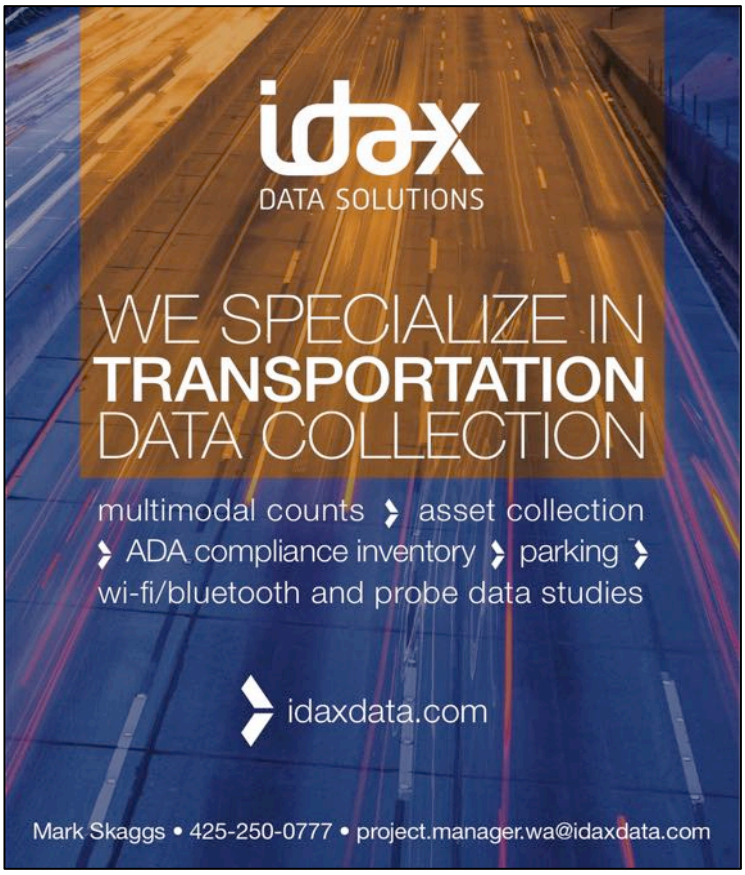
Courses that are conducted by LTAP are specifically designed to help educate Washington State local agencies working with the Local Programs office and who are receiving Federal funds.

http://www.wsdot.wa.gov/LocalPrograms/Training

**Network within our ITE Professional Membership career opportunities.**

**Send career opportunities to ITE Newsletter Editor - Ed Aristo itewaeditor@gmail.com**

# ITE-WA Support Advertisers



# Careers

**Network within our ITE Professional Membership any career opportunities for your firm.**
**Send information to the ITE Newsletter Editor, Ed Aristo, earisto@seataclighting.com**

## HDR Engineering

At HDR, we know work isn't only about who you work for; it's also about what you do and how you do it. Led by the strength of our values and a culture shaped by employee ownership, we network with each other, build on each other's contributions, and collaborate together to make great things possible. To view our ITS, Traffic and other transportation opportunities, visit our careers page at www.hdrinc.com/careers

| Job Title | Location |
|---|---|
| ITS Engineer in Training (145824) | Kirkland, WA |
| Traffic Engineer (145274) | Kirkland, WA |

## Senior Transportation Engineer
## Portland, Oregon

Sr. Transportation Engineer - Project Manager ($130-150k+bonus+path to ownership / Portland, OR / Willing to Relocate)

Here's your opportunity to lead a team and leave your thumbprint on an organization. Murray, Smith & Associates (HQ in Portland, 8 offices throughout the PNW) is currently seeking someone with 15-25 years experience to lead their Transportation group. Transportation continues to be the most significant growth area of the multi-facited firm. This employee-owned firm has an excellent reputation and consistent growth trajectory. You'll find MSA is "just the right size" - large enough to employ diverse talent to solve our clients' biggest challenges, yet small enough to genuinely care and adapt to our clients' needs.

https://careers.martinsearchpartners.com/recruit/Portal.na

MSA has engaged MARTIN Search Partners. To apply, for more information or to view the formal job description please email Managing Partner Eric Martin at eric@martinsearchpartners.com.

All inquiries are strictly CONFIDENTIAL.

## Washington DOT
## Assistant Area Traffic Engineer
## King County - Shoreline, WA

The Northwest Region (NWR) Traffic Office is excited to announce that we are recruiting for an **Assistant Area Traffic Engineer – Snohomish & Mt. Baker**..

https://www.governmentjobs.com/careers/washington/jobs/1711174/assistant-area-traffic-engineer-snohomish-mt-baker

## Transportation Manager
## Auburn, WA

The City of Auburn This is professional-level, technical engineering, and senior management work within the Community Development and Public Works Department.

https://www.governmentjobs.com/careers/auburn?page=2

## Engineering & ITS Positions
## Transpo Group

Transpo Group is looking for a Transportation Engineers and an ITS Market Leader who would like to join our team. Transpo Group is an award-winning planning and design firm specializing in transportation planning, traffic engineering and ITS. If you have a passion for excellence in this industry and are looking for a place to influence and lead exciting and challenging projects, Transpo Group wants to hear from you. To view the details for these roles please visit our Careers webpage at http://www.transpogroup.com/jobs.html

| Job Title | Location |
|---|---|
| ITS Market Leader | Kirkland, WA |
| New College Grads | Kirkland, WA |
| Senior Transportation Engineer | Kirkland, WA |
| Sr. Active Transportation Engineer | Kirkland, WA |
| Transportation Engineer (L-3) | Kirkland, WA |

## ENGINEERING CAREERS

Work that you will be proud of achieving. Unlike taking up a role in the financial world, the thing with being an engineer is that most of the work you do are tangible – bridges, buildings, signalization, illumination, roadways, etc. These are things you can see everyday once they're done. The pride of being part of something great would bring you the job satisfaction you need to keep going.

# Careers

**Network within our ITE Professional Membership any career opportunities for your firm.**
**Send information to the ITE Newsletter Editor, Ed Aristo, earisto@seataclighting.com**

## Perteet
## Everett , WA

Perteet is an experienced and award-winning infrastructure-consulting firm dedicated to enhancing the quality of life in our communities. For over 28 years, we've been partnering with public agencies to help keep cities and towns moving forward in Washington State and beyond.

To view the details for these roles please visit our Careers webpage: http://www.perteet.com/current-opportunities

| Job Titles | |
|---|---|
| Civil Engineers Level 2 & 3 | Construction Observer |
| Engineering CAD Technician | Marketing Coordinator |
| Resident Engineer | |

## Gray & Osborn Inc.
## Washington

If you are interested in pursuing a career with Gray & Osborne Inc, please select a job position below for more information. To view the details for these roles please visit our Careers webpage: http://grayandosborne.net/current_employment.php

| Job Title | Location |
|---|---|
| Civil Engineer | Yakima |
| Electrical Engineer | Seattle, WA |
| Senior Civil Engineer | Wenatchee, WA |

## DCI Engineers, Inc.
## Seattle, Washington

Diverse cultural opportunities. World-renowned businesses and the opportunities they afford. Beautiful scenery. Exhilarating outdoor activities. Working in a thriving, fast-paced downtown area. To view the details for these roles please visit our Careers webpage:

http://www.dci-engineers.com/location/seattle-washington

| Job Title | Location |
|---|---|
| Structural Project Engineer | Seattle/Everett/Bellevue |
| Structural CAD Designer | Seattle, WA |

## DKS -Seattle
## Engineering Positions

DKS is looking for a Transportation Professionals IN Seattle and other locations. To view the details for these roles please visit our Careers webpage: https://www.dksassociates.com/careers

| Job Title | Location |
|---|---|
| Transportation Planning Project Manager | Seattle, WA |
| Traffic Operations Engineer | Seattle, WA |
| Transportation Engineer in Training (EIT) | Seattle, WA |
| Transportation Engineering Intern | Seattle, WA |

## Fehr and Peers
## Washington and Other Locations

If you are interested in pursuing a career with Fehr and Peers, please select a job position below for more information. To view the details for these roles please visit our Careers webpage: http://www.fehrandpeers.com/careers

| Job Title | Location |
|---|---|
| Transportation Analyst/Enthusiast | Multiple Locations |
| Engineer/Planner [Multi-levels] | Multiple Locations |
| Internship | Multiple Locations |

## Assistant Traffic Engineer
## Kennewick, WA

The City of Kennewick has an opening for the position of Assistant Traffic Engineer.

Essential duties will include:

- Traffic Signal System Management
- Transportation Development Review & Planning
- Traffic Studies & Analysis
- Management of Transportation Projects
- Maintenance of City Traffic Division Standards and Specifications

For further information please view the job posting here: https://www.governmentjobs.com/careers/kennewick/jobs/1626382/assistant-traffic-engineer

SensMetrics not only takes the guesswork out of signal performance, but actually makes improvements.

SensMetrics is a complete traffic management solution that provides on-demand signal timing plans and high-resolution Automatic Traffic Signal Performance Measures (ATSPMs).
You now have the actionable means to proactively identify intersection performance deterioration, make improvements and measure operational success.

SENSYS networks

To get actionable data in your roads with SensMetrics, visit www.sensysnetworks.com/sensmetrics

DTG TRAFFIC DATA GATHERING
*Fast, reliable, and accurate since 1991*

Women Business Enterprise

www.trafficdatagathering.com

Traffic Data Gathering (TDG) is a sole proprietor firm specializing in the collection, reduction and graphical presentation of traffic/transit data for use in traffic studies and planning.

**Carla Nasr - President**
O: (425) 334-3348 | M: (425) 345-1148 | E-mail: carlan@trafficdatagathering.com

All Traffic Data Services Inc.

**Eric Boivin**

6401 Lake Washington Blvd SE
Renton, WA 98056
ericboivin@alltrafficdata.net

Phone 425.228.0072
Cell 303.668.0220
Fax 303.278.2681

PERTEET
Better communities, by design

**CrossWalks Solution**

# Seattle's first automatic traffic light begins operation on April 21, 1924 – By Phil Dougherty | Posted 2/27/2015 |HistoryLink.org Essay 11025

On April 21, 1924, Seattle's first automatic traffic light begins part-time operation at 4th Avenue S and Jackson Street. Seattle is actually somewhat late to this party, as traffic lights have been operating in other American cities for as long as a decade. The light proves to be a great success, and they soon will sprout all over the city.

**Seattle Sees the Light**

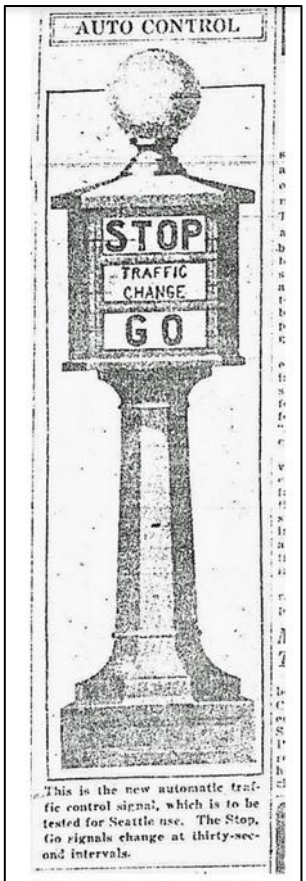
The dawn of the automobile in the early twentieth century quickly created a need for traffic control in downtown Seattle intersections. In the earliest years a police officer controlled an intersection with hand signals. Later, Seattle police officers manned semaphore signals in busy intersections, manually turning the pole as needed to direct the flow of traffic. At night a floodlight lit up the officer so people could see him. The problem with this (aside from the obvious danger of getting hit by a car) is that the policeman couldn't pursue or otherwise handle traffic scofflaws. If he left his post to deal with an offender, traffic at the intersection usually descended into chaos.

Seattle was progressive in a lot of ways in the 1920s, but traffic control wasn't one of them. As early as 1912 rudimentary red and green lights mounted on a homemade wooden box were used in Salt Lake City. The first generally accepted electric traffic light was introduced in Cleveland in August 1914. In 1920 the first hanging traffic light, the four-way, three-light signal (and the first traffic signal with a yellow caution light) that we know today, debuted in Detroit. Many American cities had traffic lights before Seattle, but in the spring of 1924 the city saw the light.

The Department of Streets and Sewers ran traffic checks at Seattle's busiest intersections and came up with three candidates for Seattle's first traffic light: 4th Avenue S and Jackson Street, 4th Avenue and Pike Street, and Roy Street and Westlake Avenue. The intersection at 4th Avenue S and Jackson Street was chosen. Of the three, it was the easiest location to install a traffic light at, and there were no other intersections nearby that had traffic police who might inadvertently interfere with the traffic flow at 4th and Jackson. With 24,000 cars passing through the intersection on an average day between 7 a.m. and 10 p.m., the location was the right spot for the light. Planners scheduled a 30-day testing period.

**Three Lights and a Gong**

A squat iron post was mounted in the center of the intersection, topped by a box rigged with electric lights behind colored glass. In addition to the colors -- red, amber, and green -- a corresponding message, "stop," "traffic change," and "go," appeared on the face of the glass itself. (The messages were to better educate the public about the colors, but they apparently caught on easily enough.) A gong preceded each traffic change but it was hard for motorists to hear, especially when traffic was heavy. Timing of the light in either direction could be adjusted for the flow of traffic, and in this case the optimum timing for the green light was found to be 35 seconds north-south on 4th Avenue and 25 seconds east-west on Jackson Street.



Sketch of Seattle's first automatic traffic light, *Seattle Post-Intelligencer*, April 20, 1924

A gong preceded each traffic change but it was hard for motorists to hear, especially when traffic was heavy.

The light began operating on the afternoon of Monday, April 21, 1924, running only during the afternoon and early evening during its first weeks of operation. Testing exceeded expectations. Traffic began clearing up at the intersection by 5:45 p.m., a full half-hour earlier than what the norm had been before the light was installed, and accidents there dropped dramatically. The automated signal was so successful that the police officers monitoring it never used the manual controls during the testing period, and within weeks downtown drivers successfully lobbied to have it turned on during the morning rush hour.

*Sources: "Automatic Traffic Guide Here; Newcomer Stands Test Today,"* The Seattle Times, *April 20, 1924, p. 8; Michael Daisy,* Color Me Stop and Go: The History of the Traffic Light, *Inventor Spot website accessed January 11, 2015 (http://inventorspot.com/articles/color_me_stop_and_go_history_traffic_lights); Traffic Subcommittee of the Board of Public Works memo to the City of Seattle Board of Public Works, June 6, 1924, City of Seattle website accessed December 24, 2014 (http://www.seattle.gov/cityarchives/exhibits-and-education/find-of-the-month/2009-find-of-the-month-archive).*

Protecting your customers just got **easier.**

***Effective safety devices, efficient contract.***

Intelligent Warning Systems on WA State Contract #04616

Traffic Safety Supply Company
800.547.8518 • sales@tssco.com
www.tssco.com

# JUNE 2017 ITE Washington 2016-2017 Volunteers

Find the Key Individuals who volunteered in 2016-2017 to make ITE Washington active, educational and enjoyable to members.

K T B G O K S N N U Z Q M Q F P S R H A G D W A I E Z I F D
R T U Y Y R V T V Z X M C O W C A G N I O K I H M Z W T S Z
L E S M I U N S I R U V S I Z O L U G Y D E V F C A C E L I
O D X F R P V P N Q V A J J M L Z Z L M X E F E X S W L J T
E C H D I M Z A J C S S C L N K N V I C L K M M T P K Y A C
C N X B W Q C G V H J A N C I G A N I K H G G I K B U R M B
I X R R V Y V Z Q R V A I S I W Y W G P I O Y P T M L U E U
B K W T G R D C P E M O G W M H J H T Z M U K S O S V L S Z
U C U O R R N K L O Q T D N B Q P E B U O Z K L K S U O L O
Y O B G R I C H A R D H U T C H I N S O N A U E O Q C R E V
K G S K D F V G P C Y G P C B L A P G W C Q R L F A D X U I
H C G H O J V Z S G E G G H B Z D J Y E C Q D E O M A F S U
B C Z A J O S H D I E K M A N N Z E P F B S H N P S R I X W
M A P Y U H W C A R L A N A S R L N E A O W N A B K C A R N
M U P X M L F P E W C D A M M U S N G A Y P C B P F Y G D I
A J P H Y E Q J A N E T H A L L V I Y W U U O E T G A M P R
R Q V W Z L G Q P B V R T A T M X F S D M I P R K B K I U B
K K C K E H S M A D L N L U I B I E L J W M K T Z R E K E H
P I Y W I W Y H J A K O A F I E F R S C W I V O B K R E D B
O M F Z S N D X Q E V Y P T F O Z K G A R E O L M G S H A A
C D A N I E L L A I R J N A X T K A N R T I C U R H C E R A
H S W X W M E S E E H R Z D R P Z M C T D E V C H S T N I R
Z X C I F V D Y O I R A Y A G A L E H E C W Z C E A X D S O
Q L B Q X C Y Z I M W H O L N U K R C R S O Y I F D A R T N
S C S J N Z L N C B B U E A I S X Z I D X F F G J Z R I O K
G A P U Z X E K I M R O N Z Q U G E X A D C L C S T E X L N
S H O R F F M M K X H B J K K E Q L L N W J S B A H N D W I
C G O J G S Y N A D I N E D A L Y L D N Q Y S S I A S Z J G
U C H L M M H D L F K D K A J J Q F P E R Y W K L I Z U V H
N O U L V Q M K A J C Y S H E R I E F E L B A S S U O N I T

**Paul Cho**
**Mark Poch**
**James Le**
**Hidemi Tsuru**
**Jerry Liu**
**Aaron Knight**
**Mike Hendrix**
**Darcy Akers**
**Sherief Elbassuoni**
**Josh Diekmann**
**Nadine Daly**
**Ed Aristo**
**Daniel Lai**
**Pablo Para**
**Elena Bertolucci**
**Jennifer Kamerzell**
**Richard Hutchinson**
**Carter Danne**
**Carla Nasr**
**Jan Ciganik**
**Janet Hall**
**Lei Wu**

**CrossWalks Solutions found in the advertiser section**

# ITE-WA Support Advertisers

concord ENGINEERING

Xiaoping Zhang, PhD, PE, PTOE
Principal

705 2nd Avenue, Suite 700, Seattle, WA 98104
206.682.0567 | www.cetransportation.com

Certified D/M/WBE by the State of Washington

FEHR & PEERS

1001 – 4th Avenue, Suite 4120
Seattle, WA 98154
Ph. 206.576.4220

www.fehrandpeers.com

- Multi-Modal Transportation
- Travel Demand Forecasting
- Traffic Operations
- Sustainable Transportation
- Bicycle & Pedestrian Planning
- Transit Planning
- Impact Fees & Concurrency

KPG
Interdisciplinary Design

| | |
|---|---|
| Seattle | 206 267 1033 |
| Tacoma | 253 344 5261 |
| Wenatchee | 509 663 2711 |

Traffic Engineering
Transportation Planning
Sustainable Transportation Solutions
Signal, Illumination, & ITS Design
Transit Planning & Design
Non-Motorized Planning & Design


ite
WASHINGTON STATE
INSTITUTE OF TRANSPORTATION ENGINEERS

# ITE-WA Section Board 2015-2016 & Volunteers

**President**

**Paul Cho, P.E., PTOE**
Traffic Operations Engineer
City of Redmond
P.O. Box 97010
Redmond, WA 98073-9710
425-556-2751
pcho@redmond.gov

**Vice President & Treasurer –**

**Mike Hendrix, P.E., PTOE Project Manager**
Perteet
505 5th Ave. S., Suite 300
Seattle, WA 98104
206-436-0515
mhendrix@perteet.com

**Secretary**

**Daniel Lai, P.E.**
Senior ITS Engineer
City of Bellevue
Transportation Department
PO Box 90012
Bellevue, WA 98009
425.452.6178
dlai@bellevuewa.gov

**Immediate Past President**

**Carter Danne, P.E., PTOE**
Associate Civil Engineer
City of Seattle
P.O. Box 34996
Seattle, WA 98124
206-684-0817
carter.danne@seattle.gov

**Student Committee Chairman**

Pablo Para, PE, PTOE - Principal, PH Consulting, LLC
Pablo@phtraffic.com

**Scribe**

Darcy Akers - ITS Engineer, City of Bellevue

**ITE Hospitality Chair**

Carla Nasr – President, Traffic Data Gathering

**Website**

James Le, PE – Senior Civil Engineer, Seattle DOT

### Newsletter Contact Information

Please let us know if your contact information changes so that you continue to receive monthly ITE WA announcements and newsletters by email. Update your information on our **NEW** Website; wa-ite.org. Click on the Membership tab.

### Newsletter Comments and Article Submissions

Contact us If you have comments about this newsletter or have an interesting announcement, topic, or project to share.

**Articles must be received by the third Thursday of the month to be considered for publishing in the next issue.**

**Editor**

**Ed Aristo – Sea-Tac Lighting & Controls**
206.898.0542
Itewaeditor@gmail.com

**ITE WA Website: wa-ite.org**

**Follow Us on Twitter!**

@ITE_Washington