



# NATMEC

NATIONAL TRAVEL MONITORING  
EXPOSITION AND CONFERENCE

VIRTUALLY from BOISE, IDAHO • JUNE 13-17, 2022

*We Travel Together*



*We Travel Together*



# WELCOME

Welcome NaTMEC community,

It is our pleasure to welcome you to the 2022 National Travel Monitoring Exposition and Conference (NaTMEC)!

What a wonderful opportunity to huddle with friends, old and new, about our common interest in travel monitoring! We have a stellar line-up of workshop presenters prepared to lead us on our way. We are going to hear about best practices and innovations. Are you ready to hear about the new Traffic Monitoring Guide? Or why we do what we do? That's included as well.

Going virtual was a hard decision to make. However, it became quickly apparent it was the necessary decision when so many were reluctant to speak at this event in person. It feels like the limbo we've been in this last year has finally begun to tip, and we are eternally grateful to Federal Highways Administration that we will indeed be given a second chance ... so look for NaTMEC 2024 in the heart of Boise, Idaho.

Our Conference theme, "*We Travel Together*," represents the spirit of adventure and investigation within our group. As a team of professionals, we strive to provide information to decision makers to ensure safer roads, less congestion, and economic vitality. After all, whether we are delivering goods to the other side of the country, driving our child to school, commuting by bicycle, or just out for a walk in our neighborhood ... we are impacting our transportation system. In short, we travel together.

Our Planning Committee has worked hard to produce this conference and believe we have covered all routes ... As we virtually touch down in Boise this year, we are confident we will reach our professional development goals.

Your NaTMEC 2022 Conference Hosts,



*Margaret Pridmore*  
Margaret Pridmore



*Ahmed Abdel-Rahim*  
Ahmed Abdel-Rahim

# PLANNING COMMITTEE

Putting on a conference in-person or virtually takes a lot of work and coordination. Please take time to reach out to ask questions and thank the members of the NaTMEC 2022 Planning Committee.

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Sonna Lynn Fernandez  
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# AT-A-GLANCE

All conference sessions are displayed in **USA Eastern Time Zone**. Please make sure to identify times for your area before the event starts and put them into your calendar. There is 30 minutes between each session that should allow you some time for a break, answer emails/calls, or catch up on work.

## Monday, June 13, 2022

12:30 – 1:30 PM	Opening Session
2:00 – 3:00 PM	Session 1
3:30 – 4:30 PM	Session 2
5:00 – 6:00 PM	Workshop 1

## Tuesday, June 14, 2022

12:30 – 1:30 PM	Sponsor Showcase
1:30 – 5:00 PM	Vendor Floor Open
2:00 – 3:00 PM	Session 3
3:30 – 4:30 PM	Session 4
5:00 – 6:00 PM	Group Social Activity

## Wednesday, June 15, 2022

12:00 – 5:00PM	Vendor Floor Open
12:30 – 1:30 PM	Workshop 2
2:00 – 3:00 PM	Session 5
3:30 – 4:30 PM	Session 6

## Thursday, June 16, 2022

12:00 – 5:00PM	Vendor Floor Open
12:30 – 1:30 PM	Workshop 3
2:00 – 3:00 PM	Session 7
3:30 – 4:30 PM	Session 8
5:00 – 6:00 PM	Group Social Activity

## Friday, June 17, 2022

12:00 – 3:30PM	Vendor Floor Open
12:30 – 1:30 PM	Session 9
2:00 – 3:00 PM	Session 10
3:30 – 4:30 PM	Closing Session

# DETAILED AGENDA

The conference has been divided into four tracks as indicated in the table below. Not all sessions will contain each of the four tracks. For ease, each track has been given a color so you can quickly see what the topics relate to.

Track 1	Track 2	Track 3	Track 4
Safety, Travel Monitoring and Relating the Two Through Data Applications and Utilization	Traffic Data Collection, Processing and Tools	Performance Measures, Communicating Reports, and Ensuring Data Requirements and Quality Standards Meet Program Needs	Emerging Equipment, Technologies and Capabilities to Address Travel Monitoring Basics and Beyond
POSTER	WORKSHOP	SHOWCASE / DEMO	
Poster Sessions sharing a variety of topics	Specialized workshops intended to share important issues everyone should be aware of	Showcasing our sponsors, their expertise and products as well as demonstrating programs and projects	

All of the speakers have a biography and contact information listed in the following pages. We encourage you to look at this as an opportunity to create new contacts and/or update existing network connections.

## PLEASE NOTE

If you need assistance at any time during the conference, please contact Margaret Pridmore at [margaret.pridmore@itd.idaho.gov](mailto:margaret.pridmore@itd.idaho.gov) or Sonna Lynn Fernandez at [sonnalynn.fernandez@itd.idaho.gov](mailto:sonnalynn.fernandez@itd.idaho.gov) or by phone at 208-501-5866.

## Monday, June 13, 2022

### 12:30-1:30 PM OPENING SESSION

#### OPENING PLENARY

- Clayton Clark, Traffic Monitoring and Data Processing Specialist, Federal Highways Administration
- Scott Stokes, Director, Idaho Transportation Department
- Suzanna Long, Professor and Chair of Engineering Management and Systems Engineering at University of Science and Technology and Incoming Dean, College of Engineering, University of Idaho
- David Winter, Director of Office of Highway Policy at the Federal Highways Administration



#### KEYNOTE SPEAKER

- Yinhai Wang, Director of PACTRANS, Professor of Electrical and Computer Engineering, University of Washington

### 2:00-3:00 PM SESSION 1

#### TRACK 1: SAFETY AND TRAFFIC MONITORING DATA APPLICATIONS, MAKING SIGNIFICANT IMPACTS FROM NEW TECHNOLOGIES (Moderator: Yao-Jan Wu)

- *Vendor Lightning: How Traffic Monitoring Data is Making Significant Impacts from New Technologies*
  - Jeffrey Rice, Director of Sales MS2
- *Hurricane Traffic Volume Monitoring Proof of Concept: State DOT Experience with Real-Time Connected Vehicle Data*
  - Stanley Young, Chief Data Officer, The Eastern Transportation Coalition
  - Denise Markow, TSMO Director, The Eastern Transportation Coalition
- *Study of Pedestrian Crossing Behavior at a Number of Unmarked Crossings in Kuala Lumpur, Malaysia*
  - Zainab Haham, Assistant Lecturer, Uruk University

#### TRACK 3: TRAVEL TIME PREDICTORS (Moderator: Mori Byington)

- *Automating Third Party Data for Operations, Decision Making, and Performance Measures*
  - Rikki Sonnen, Statewide Traffic Performance Engineer, Utah Department of Transportation
- *Estimating Travel Time and Delay for U.S. Urban Areas*
  - Don Pickrell, Chief Economist, Volpe Center, USDOT
- *Lightning: Predicting Travel Time Reliability for Project Reliability Benefit Evaluation*
  - Eugene Boasiako Antwi, Graduate Research Assistant, University of Kentucky

#### TRACK 4: METHODS FOR IDENTIFYING TRAVEL PATTERNS (Moderator: Chade Saghir)

- *Temporal Variability of Truck Classification Distributions Using Continuous Count Data in Manitoba*
  - Cassidy Zrobek, Master's Student, University of Manitoba
- *Tracking & Predicting Vehicle Movements through a City with Existing CCTV Cameras*
  - Michael L Pack, Director, CATT Lab
- *Lightning: Impact of Traffic Platooning on Transportation Infrastructure: Data synthesis and analysis*
  - Mohamed Tharwat Elshazli, PACTRANS Student, University of Idaho



## 3:30-4:30 PM SESSION 2

### **TRACK 3: IMPROVING WIM ACCURACY (Moderator: William Morgan)**

- *Continuous Calibration WIM System Using Static Weight Data*
  - Douglas Pratt, Senior Project Engineer, International Road Dynamics Inc.
- *Examining WIM Station Accuracy Across Multiple Sites Using Re-Identified Vehicles in TMAS*
  - Andrew Nichols, Research Professor, Marshall University
  - Steven Jessberger, Senior Transportation Specialist, Federal Highways Administration
- *FDOT's Approach and Tools for Ensuring WIM Data Quality*
  - Olga Selezneva, Principal Engineer, Applied Research Associates Inc.

### **TRACK 4: DEVELOPMENTS IN VEHICLE WEIGHT MONITORING (Moderator: Jeremy Raw)**

- *Augmenting WIM Data with New Measurement Technologies*
  - Dan O'Reilly, International Road Dynamics Inc.
- *The Portable WIM Technology: A Cost-Effective Tool for Measuring and Quantifying Traffic Loading*
  - Lubinda F. Walubita, Texas A&M
  - George Chike, Texas A&M
- *Lightning: Using LTPP data to develop Pavement Performance Decay Model using Artificial Intelligence*
  - Natalie Mikels, PACTRANS Student, University of Idaho

## 5:00-6:00 PM WORKSHOP 1

### **WORKSHOP 1: (Moderator: Steven Jessberger)**

- *Traffic Monitoring Guide*
  - Clayton Clark, Traffic Monitoring and Data Processing Specialist, Federal Highways Administration



## Tuesday, June 14, 2022

### 12:30-1:30 PM SPONSOR SHOWCASE

SPONSOR SHOWCASE: (Moderator: Vickie Caldron)



### 1:30-5:00 PM VENDOR FLOOR OPEN

### 2:00-3:00 PM SESSION 3

#### TRACK 1: BEYOND DATA USAGE: PURPOSE-DRIVEN GIS, VIDEO ANALYTICS, AND USING HIGH RESOLUTION TRAJECTORY DATA (Moderator: Lance Johnson)

- *Integrating GIS in Traffic Data Collection: From Requirements Confirmation to Field Support to Distribution of Deliverables*
  - Gregory Newton, GISP, Assistant Director of Data Collection / GIS Manager, Gewalt Hamilton Associates, Inc.
- *Traffic Speeding Analysis Using Probe Data*
  - Scott Perley, Vice President of Analytics, Iteris
- *Lightening: Traffic Performance Score*
  - Dennis Tsai, PACTRANS Student, University of Washington

#### TRACK 4: ADVANCES IN VIDEO TECHNOLOGY IN TRAFFIC MONITORING (Moderator: Patrick Zhang)

- *Vendor Lightning: The Future of Smart Traffic Solutions*
  - Joe Wilkinson, President, High Desert Traffic
- *Highly Accurate Video based Vehicle Classification via Deep Learning*
  - Scott Sherwood, Design Engineer, International Road Dynamics, Inc.
  - Roy Czinku, VP ITS Solutions, International Road Dynamics Inc.
- *Trespassing on Railroads – an Accurate Representation of the Problem*
  - Chris Vaughan, Research Associate, Institute for Transportation Research and Education
- *Lightning: MUST Sensor for Ped/Bike/Car*
  - Chenxi Liu, PACTRANS Student, University of Washington



## **POSTER: INNOVATIONS IN DATA COLLECTION, TECHNOLOGY, PROCESSING, AND ANALYSIS**

- *Deployment of Loop-based Vehicle Classification System in Colorado*
  - Yue Zhang, Analyst III, Colorado Department of Transportation
- *Individual Vehicle Record Quality Checks*
  - Steven Jessberger, Senior Transportation Specialist, Federal Highways Administration
- *Vehicle Trajectory based Scalable and Actionable Traffic Signal Energy Metrics*
  - Stanley A. Young, Transportation Research and Analysis Intern, National Renewable Energy Laboratory
- *Eeny, MEANy, Miny, MODE: Identifying Traffic Loading Parameters for Diagnosing Changes in WIM Measurement Accuracy and WIM Calibration Needs Using Statistical Tools*
  - Gregory Seleznev, Undergraduate Student Intern, Howard Community College
- *Estimating Network-Wide Truck Traffic Volumes from Traffic Monitoring Programs and Freight Demand Models: An Exploratory Analysis Applied to Manitoba's Agriculture Industry*
  - Jenna Duke, Research Associate, University of Manitoba Transport Information Group
- *Impact of Autonomous and Connected Truck Platoons on Transportation Infrastructures*
  - Mohamed Tharwat Elshazli, Research Assistant, University of Idaho
- *Matrix reloaded: The quality of OD from crowd sourced GPS data*
  - Edwin Kools, TTI Business Enablement Support & Training, TomTom Traffic and Travel Information
- *A New Hampshire Comparative Study of Inductive Loop Signature and AI Video Collection and Classification*
  - Stuart Thompson, PE, Traffic Research Engineer, New Hampshire DOT

## **3:30-4:30 PM SESSION 4**

### **TRACK 1: BRINGING DATA TO THE FOREFRONT: FORECASTING, BICYCLE SAFETY AND LOCAL ROAD NETWORK DATA (Moderator: Darren Buck)**

- *Vendor Lightning:*
  - Masoud Hamed, Director, Data Science and Analytics, Iteris
- *Integrating Roads and Intersection Data from Multiple Sources for Traffic and Safety Data Referencing, Analysis and Development of Topologically Connected Routable Network*
  - Abhishek Bhargava, Data Scientist/Engineer, WSP
  - Joseph Hausman, Planner, Federal Highways Administration
- *Safety Analysis Application in NYC*
  - Seth Hostetter, Director, Safety Analytics and Mapping, New York City Department of Transportation
- *Lightning: Cycling in Vancouver: A Portrait of Bicycle Ridership and Safety in Vancouver 2010-2020*
  - Olivia White, Consultant, Eco-Counter

### **TRACK 2: MONITORING MICROMOBILITY (Moderator: Elizabeth Stolz)**

- *Counting Two Wheels at a Time: Building a Bike Counting Brigade*
  - Mike Stefancic, Vice President, Treasure Valley Cycling Alliance
- *Non-Motorized Data Collection at Transit Stops*
  - Chris Wiglesworth, Transit Planner, FDOT
  - Jeff Weidner, Director of Transit Programs, Marlin Engineering, Inc.

REMINDER:

All times are shown in USA Eastern Time Zone

- *Site Selection Techniques for Non-Motorized Traffic Data Collection*
  - Joey Gordon, Transportation Data Analysis Supervisor, FDOT Transportation Data and Analytics Office
  - Eric Katz, Program Coordinator, Marlin Engineering, Inc.

### TRACK 3: WIM ANALYSIS (Moderator: Mike Lowry)

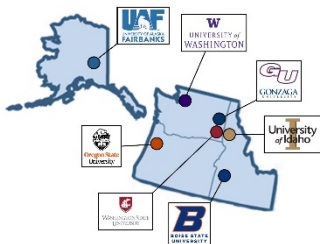
- *Error Reduction in HS-WIM Systems via Statistical Regression of Pavement Temperature and Vehicle Speed*
  - Gustavo Garcia Otto, Researcher in Civil Engineering, Transportation and Logistics Laboratory (LabTrans / UFSC)
  - Lucas Franceschi, Researcher in Civil Engineering, Transportation and Logistics Laboratory (LabTRANS/UFSC)
- *Successful Practices for Weigh-in-Motion (WIM) Equipment Calibration, and Comparison of the ASTM and LTPP Accuracy Protocols*
  - Muhammad Munum Masud, Graduate Student, Michigan State University
- *Lightning: Optimizing Asphalt Mixes Design for Superior Performance*
  - Mohamed Abu Saq, PACTRANS Student, University of Idaho

5:00-6:00 PM  
GROUP SOCIAL ACTIVITY

[www.pactrans.org](http://www.pactrans.org)



The Pacific Northwest Transportation Consortium (PacTrans) is the Regional University Transportation Center (UTC) for Federal Region 10. PacTrans was established in January 2012 with an initial grant of \$3.5 million from the US Department of Transportation (USDOT) as part of The Safe, Accountable, Flexible, Efficient, Transportation Equity Act: A Legacy for Users (SAFETEA-LU). This was supplemented later with extension funding of \$3.4 million which equated to a total grant of \$6.9 million over four years. PacTrans is a coalition of transportation professionals and educators from Oregon State University (OSU), the University of Alaska, Fairbanks (UAF), University of Idaho (UI), University of Washington (UW), Washington State University (WSU), Boise State University (BSU), and Gonzaga University (GU).



Our major goals and objectives include serving as federal region 10's research engine, applied technology showcase, workforce development base, education leader, information center, and collaboration platform.

## Wednesday, June 15, 2022

12:00-5:00 PM  
**VENDOR FLOOR OPEN**

12:30-1:30 PM  
**WORKSHOP 2**

### **WORKSHOP: (Moderator: Clayton Clark)**

- *Why Do We Collect Travel Monitoring Data?*
  - Steven Jessberger, Senior Transportation Specialist, Federal Highways Administration
  - William Morgan, Planning and Systems Section Chief, Illinois Department of Transportation
  - Chade Saghir, Transportation Planner III, SEMCOG

2:00-3:00 PM  
**SESSION 5**

### **TRACK 1: BRINGING DATA TO THE FOREFRONT: ANALYZING THE IMPACT OF THE PANDEMIC (Moderator: David Coladner)**

- *Forecasting the Recovery of Travel from the Pandemic*
  - Don Pickrell, Chief Economist, Volpe Center, USDOT
  - Anna Solow-Collins, Economist, Volpe Center, USDOT
- *Traffic Impacts of a Pandemic; New Tools and a Deep Dive*
  - Nathan P. Masek, Senior Transportation Planner II, MRCOG/MR MPO
- *Lightning: The Convolution of Stationary Radar Detectors and Probe Vehicle Data to Better Travel Time Estimations by Incorporating Bottleneck Traffic Stationarity*
  - Brian Staes, PACTRANS Student, Oregon State University

### **TRACK 2: SPECIAL CASES OF INNOVATIVE TRAFFIC MONITORING (Moderator: Kent Taylor)**

- *Establishing a Consistent Gauge of Vehicle Classification to Validate Short-Count Traffic Data*
  - Cody Weglinski, Engineering Technician, New York State Department of Transportation
- *Estimation of Average Daily Traffic on Low Volume Rural Roadways in Louisiana*
  - Raju Thapa, Assistant Professor Research, Louisiana Transportation Research Center
  - Julius Codjoe, Ph.D., P.E., Special Studies Research Administrator, Louisiana Transportation Research Center
- *Lightening: TELS System*
  - Yifan Zhuang, PACTRANS Student, University of Washington

### **DEMO: INNOVATION, MONITORING, AND MICROMOBILIT**

- *Vendor Lightning: Ride Report*
  - Michal Nakashimada, Head of New Modes, Ride Report
- *A Real-Time Data Dashboard for Monitoring Travel Behavior*
  - Michael Allen, Student, Ohio State University
  - K. Shankari, Post-Doctoral Director's Fellow, National Renewable Energy Laboratory
- *Case Study of a Road Safety Assessment from MIRE Elements*
  - Emmanuel Munoz Garcia, Traffic Analyst and Road Safety Auditor, SEMIC



- *Cost-Effective Innovative Internet of Things (IoT) Technology for Comprehensive Traffic Sensing and V2X Applications*
  - Wei Sun, Research Associate, University of Washington
- *Developing the National Bikeway Network Data Portal*
  - Chieh (Ross) Wang, R&D Associate, Oak Ridge National Laboratory
- *Working with Transit Agencies in Building Dashboards to Effectively Understand Their Data*
  - Tammy Lee, Transportation Data Program Manager, Transportation Research and Education Center, Portland State University
- *Signal Analytics Using Trajectory Data*
  - Rick Ayers, RITIS, CATT Lab

## 3:30-4:30 PM SESSION 6

### **TRACK 1: SAFETY DATA DRIVEN DECISION MAKING (Moderator: Joe Hausman)**

- *Connected Vehicle Safety Applications*
  - Masoud Hamedi, Director of Data Science, Iteris
- *Measuring Safety – a Data-driven Look at Tools for Proactively Assessing Crash Risk*
  - Andrew Janzen, CEO, Street Simplified LLC
- *Monitoring Forces on Bicycles Travelling on Two-Lane Highways*
  - Fatma Madkour, Traffic Engineer, WSDOT

### **TRACK 4: ENHANCING TRAFFIC MONITORING (Moderator: Bill Marley)**

- *Vendor Lectern: Cost Efficient Alternatives to Count & Classify Sites that Provide Traffic Load Data (WIM)*
  - Jess Helmlinger, Regional Manager North America, Kistler
- *Upgrade the Conventional Vehicle Counting and Classification Sites to Smart Infrastructure*
  - Lianyu Chu, Principal, CLR Analytics, Inc.
- *Lightning: Creating a GIS Tool to Evaluate Safety Improvement Projects*
  - Criss Ward, PACTRANS Student, University of Idaho



## Thursday, June 16, 2022

12:00-5:00 PM

### VENDOR FLOOR OPEN

12:30-1:30 PM

### WORKSHOP 3

#### **WORKSHOP: (Moderator: Steven Jessberger)**

- *How to Start a Micromobility Count Program*
  - Elizabeth Stolz, Director of Traffic Data Programs, Marlin Engineering, Inc.
  - Darren Buck, Pedestrian and Bicycle Coordinator, Federal Highways Administration
  - Michael Stefancic, Vice President, Treasure Valley Cycling Alliance

2:00-3:00 PM

### SESSION 7

#### **TRACK 2: COOPERATIVE PROGRAMS IN DATA PURCHASING AND SHARING (Moderator: Brett Hubinger)**

- *Michigan DOT: Local Agency Traffic Data Sharing*
  - Kyle Kirchmeier, Transportation Planner, Michigan Department of Transportation
- *The Traffic Data Marketplace: A Multi-State, Comprehensive Traffic Data System for Members of the Eastern Transportation Coalition*
  - Stanley Young, Chief Data Officer, The Eastern Transportation Coalition
  - Denise Markow, TSMO Director, The Eastern Transportation Coalition
- *Lightning: Intermodal Competition in Rail Freight and/or Impacts of Rest Areas on Traffic Safety*
  - Timur Dincer, PACTRANS Student, Washington State University

#### **TRACK 3: LARGE DATASETS FOR CITY PLANNING (Moderator: Tony Grange)**

- *Making Modules that Meet Multi-State Multimodal Freight Planning Needs*
  - Catherine T. Lawson, Associate Professor, University at Albany
- *Toward Green Cities: A Framework for Data-Driven System to Facilitate Policy Makers Moving Toward Greener Cities*
  - Dr. Bakr M. Aly Ahmed, Associate Professor, North Dakota State University
- *Lightning: Estimating Statewide AADT Using Network Centrality*
  - Kiran Adhikari, PACTRANS Student, University of Idaho

#### **DEMO: CONGESTION, PASSIVE DATA, AND LOCATION**

- *Application to Improve Accuracy and Accessibility of Roadway and LRS Data*
  - Bennett Murphy, Owner, Road Data Systems, LLC
- *Tools for Analyzing the NextGen NHTS OD Passive Data Products*
  - Patrick Zhang, Project Manager, Federal Highways Administration
- *VDOT's Data Driven Congestion-Prediction VSL System*
  - Mena Lockwood, PE, Assistant State Traffic Engineer, Virginia Department of Transportation
- *High Fidelity Anonymized GPS and LBS Data to Better Understand Trip and Travel Patterns*
  - Rick Ayers, RITIS, CATT Lab
- *Identifying and Quantifying the Causes of Congestion*
  - Mark Franz, PhD, Lead Transportation Analyst, CATT Lab

## 3:30-4:30 PM SESSION 8

### **TRACK 2: MONITORING INTERSECTION OPERATIONS AND UTILIZING DATA COLLECTED AT SIGNALS (Moderator: Dr. Hebbani Lokesh)**

- *Collecting More Arterial Traffic Volume Data Without Installing New Traffic Sensors*
  - Xiaofeng Li, Research Assistant Professor, University of Arizona
- *Monitoring the Intensity of Signal Exchange in Connected Vehicles Communications at Signalized Intersections*
  - Fatma Madkour, Traffic Engineer at WSDOT, University of Idaho
- *Lightning: Washington State Signal Phase and Timing (SPaT)*
  - Yifan Ling and Frank Yang, PACTRANS Student, University of Washington

### **TRACK 3: OPERATIONS USE OF TRAFFIC DATA (Moderator: Maureen Gresham)**

- *Bad Hour Miles, a Way to Assess Statewide Congestion*
  - David Coladner, Program Manager, Data Analytics, Idaho Transportation Department
- *Show us the Value! Data Monetization for Traffic and Operations at Transportation Agencies*
  - Anita Vandervalk-Ostrander, Vice President, Iteris, Inc
- *Lightning: Safety and Operational Improvements from a Pedestrian Call Extension and Cancellation System at a Signalized Midblock Trail Crossing*
  - McKenna Milacek, PACTRANS Student, Oregon State University

## 5:00-6:00 PM GROUP SOCIAL ACTIVITY



**Don't miss the virtual  
Ride to NaTMEC!**





## Friday, June 17, 2022

### 12:00-3:00 PM VENDOR FLOOR OPENS

### 12:30-1:30 PM SESSION 9

#### **TRACK 2: TRAFFIC MONITORING: DOT CASE STUDIES INNOVATING NOW AND IN THE FUTURE (Moderator: Ahmed Abdel-Rahim)**

- *Developing and Implementing CTDOTs ArcGIS Workforce Application*
  - Joseph Brusznicki, Transportation Planner 2, Connecticut Department of Transportation
- *KDOTs Digital Future Maximizing Data and Technology*
  - Anita Vandervalk-Ostrander, Vice President, Iteris, Inc.
- *Lightning: Data Equity*
  - Sam Ricord, PACTRANS Student, University of Washington

#### **TRACK 3: LARGE DATASETS FOR EMISSIONS MONITORING (Moderator: Rich Taylor)**

- *Toward Net-Zero: Monitoring Emissions to Ensure Air Quality for Healthy and Sustainable Urban Neighborhoods*
  - Dr. Bakr M. Aly Ahmed, Associate Professor, North Dakota State University
- *Trajectory Based Signal Performance Measures – What Are They? And How Can They Help Agencies Improve Performance and Reduce Emissions?*
  - Pete Costello, INRIX
- *Lightning: Data to Assess Asphalt Pavement Sustainability*
  - Hussain Al Hataillah, PACTRANS Student, University of Idaho

#### **TRACK 4: NOVEL CHALLENGES IN TRAFFIC MONITORING (Moderator: Deborah Walker)**

- *Vendor Lectern: V2 Centurion*
  - Rebecca Taylor, Senior Software Developer, Diamond Edge Technology
- *Can Real-time Curb Availability Information Improve Efficiency of Delivery Vehicles in Urban Areas?*
  - Giacomo Dalla Chiara, Postdoctoral Scholar, Urban Freight Lab, University of Washington
  - Anne Goodchild, Professor, Urban Freight Lab, University of Washington
- *Data Collection at Municipal Airports for Accurate Traffic Reporting*
  - Chris Vaughan, Research Associate, Institute for Transportation Research and Education

### 2:00-3:00 PM SESSION 10

#### **TRACK 2: TRAFFIC MONITORING: IMPLEMENTING EQUIPMENT AND TOOLS (Moderator: Margaret Pridmore)**

- *Venfor Lightning: Vision Based vs Sensor Based Traffic Monitoring*
  - Terry Lee, Leetron Vision LLC
- *Best Practices, Lessons Learned, and a Case Study for Implementing Traffic Monitoring Equipment*
  - Sandra Mapel, Traffic Monitoring Section Manager, Ohio DOT
- *Video Data Collection, Processing, and Tools Exploration*
  - Asheque Raham, Senior Traffic Engineer, NYC Department of Design and Construction
- *Lightning: Impact of RWIS on Winter-Related Crashes Considering Winter Severity and Plowing Priority*
  - Mohamed Mohamed, PACTRANS Student, University of Alaska

### **TRACK 3: BUILDING COUNT PROGRAMS (Moderator: Erik Katz)**

- *Vendor Lightning: Traffic Data Made Easy!*
  - Duncan Jamieson, Business Development Director, Drakewell
- *Arizona Statewide Traffic Data Management Program: How ADOT Has Enhanced Data and Coordination*
  - Sage Donaldson, Data Analytics and HPMS Program Manager, Arizona Department of Transportation
- *Strategically Building the Tampa Micromobility Counting Program*
  - Elizabeth Stolz, Director of Traffic Data Programs, Marlin Engineering, Inc.
  - Karen Kress, Director of Transportation Planning, Tampa Downtown Partnership

### **TRACK 4: ADVANCES IN TRAFFIC DATA SYSTEMS (Moderator: Sarah O'Brien)**

- *Modernizing Traffic Monitoring Analytics and Reporting at ALDOT*
  - Dawson B. Grant, ALDOT Enterprise Information Analyst, Sr., Alabama Department of Transportation
- *Validation of Non-Traditional Approaches to AADT Estimation*
  - Joe Fish, Transportation Researcher and Project Leader, National Renewable Energy Laboratory
  - Stanley Young, Advanced Transportation & Urban Scientist, National Renewable Energy Laboratory
- *Successes and Lessons Learned in the Process for Procurement and Project Initiation of a Modern Traffic Data System at the New York State Department of Transportation*
  - Andrew Haynes, Assistant Engineer, NYSDOT
  - Sean Diehl, Account Manager, Drakewell

## 3:30-4:30 PM CLOSING SESSION

### **CLOSING PLENARY**

- Thank you for coming!
  - Ahmed Abdel-Rahim, Director of NIATT, University of Idaho
  - Margaret Pridmore, Roadway Data Manager, Traffic Ops, Idaho Transportation Department
- Clayton Clark, Traffic Monitoring and Data Processing Specialist, Federal Highways Administration
- Coming In 2024...

We can't wait to see you all in-person at NaTMEC 2024 in Boise, Idaho!

# June 2 – 5, 2024



Save the date

# SPONSORS

On behalf of all attendees of NaTMEC, we would like to express our sincere gratitude for your generous donations to the conference. Your partnership and participations in this premier event enables us to offer outstanding educational programming and up-to-date research on travel monitoring. **For contact information, please see page 45.**



## STAR GARNET



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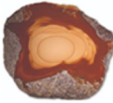
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## FIRE OPAL

# KISTLER

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# SPEAKERS

## AHMED ABDEL-RAHIM

Director of NIATT  
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2022 NaTMEC Co-Chairman  
Abdel-Rahim is a professor in the Civil & Environmental Engineering Department at the University of Idaho and the director of the University's National Institute for Advanced Transportation Technology (NIATT).

6/17/22 Closing Plenary

## MOHAMED ABU SAQ

PACTRANS Student  
University of Idaho

Mohamed Abu Saq is a graduate student at the University of Idaho.

6/14/22 Session 4: Track 3

## KIRAN ADHIKARI

PACTRANS Student  
University of Idaho

I'm currently a graduate student here at the Department of Civil & Environmental Engineering, University of Idaho. I started my master's degree back last fall and I have been working as a graduate research assistant with Dr. Abdel-Rahim at NIATT. My research activities are usually focused on transportation safety and are often related to the Center for Safety Equity in Transportation (CSET). I completed my undergraduate degree from Tribhuvan University Nepal in 2018 with a major in Civil Engineering. After completing my undergraduate, I was involved in the reconstruction and rehabilitation project in the aftermath of the mega-earthquake of 2015 in Nepal for a year, when my interest in the transportation engineering field and safety increased. During my free time, I enjoy hiking, exploring new locations, watching movies, and playing outdoor sports mainly tennis, and soccer.

6/16/22 Session 7: Track 3

## HUSSAIN AL HATAILAH

PACTRANS Student  
University of Idaho

Hussain Al Hatailah, A Ph.D. student at the civil and environmental engineering department at the University of Idaho. Hussain received his Master of Science Degree from the university of Idaho in 2015. He is currently working on recycled materials to enhance the pavement sustainability.

6/17/22 Session 9: Track 3

## MICHAEL ALLEN

Ohio State University  
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Michael is an undergraduate at The Ohio State University studying mathematics who is interested in data science, research on travel behavior, and sustainability.

6/15/22 Session 5: Demo

## BAKR M. ALY AHMED, PhD

Associate Professor  
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Bakr Aly Ahmed has nearly 27 years of academic and teaching experience in architecture and design criticism. Prior to joining the faculty of NDSU, he has completed his Ph.D. in Environmental Design and Planning from Virginia Tech and a Master in architecture focusing on prefabrication of building and the mass production of housing projects. In parallel, he has maintained a professional practice of consultant and design work in numerous projects included beach resorts, housing developments, and mix-use urban projects. His research interest is focuses on sustainable design modeling, environmental capacity measurements, and simulation modeling for pedestrian movement in large buildings.

6/16/22 Session 7: Track 3

6/17/22 Session 9: Track 3

## RICK AYERS

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Rick Ayers has more than 30 years of experience working with location-based enterprise software systems at the federal, state and local level. In his current role with the Center for Advanced Transportation Technology Lab at the University of Maryland, he serves to support state and local transportation agencies in the successful implementation and deployment of the Regional Integrated Transportation Information System, affectionately referred to as RITIS. Rick has also worked extensively with The Eastern Transportation Coalition member agencies, as well as federal transportation agencies, to support and manage their respective enterprise implementations of the RITIS platform. Rick received a BA in Geography from San Diego State University.

6/15/22 Session 5: Demo

6/16/22 Session 7: Demo

## ABHISHEK BHARGAVA

Data Scientist/Engineer  
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Abhishek Bhargava is a BIM Data Engineer/Scientist with over 15 years of experience working with over 35 transportation agencies (DOTs, local agencies, turnpikes) in the US. He has helped agencies integrate data across the planning, design, construction, GIS/LRS, safety, traffic and asset management operations management systems. In the process, he has been working with agencies to standardize data architectures so that they can be utilized for advanced analytics, including development of AI/ML applications.

6/14/22 Session 4: Track 1

## EUGENE BOASIAKO ANTWI

Graduate Research Assistant  
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Eugene Antwi is a PhD student of Civil Engineering at the University of Kentucky where he also obtained his MS Civil Engineering. He obtained his BS Civil Engineering Degree from the Kwame Nkrumah University of Science and Technology in Ghana. He currently works under the supervision and mentorship of Dr. Mei Chen and works on Kentucky Transportation Center projects.

6/13/22 Session 1: Track 3

## JOSPEH BRUSZNICKI

Transportation Planner 2  
Connecticut Department of  
Transportation  
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Joseph Brusznicki is a Transportation Planner 2 with the Connecticut Department of Transportation. For the past 15 years he has worked in the Traffic Monitoring unit, where he supervises the portable traffic counting program.

6/17/22 Session 9: Track 2

## DARREN BUCK

Pedestrian & Bicycle Coordinator  
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Darren is the Pedestrian & Bike Program Coordinator in the FHWA's Office of Human Environment. He oversees a variety of projects to research and promote safe, comfortable and complete networks for bicycle and pedestrian travel. Prior to this, Darren managed the Complete Streets program for the City of Alexandria, VA. Darren has a master's degree in Urban and Regional Planning from Virginia Tech and an MBA from the University of Maryland.

6/16/22 Workshop 3

## GEORGE CHIKE

Engineer  
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George Chike holds a BS in Civil Engineering and a MS in Environmental Chemistry with 30+ years of engineering practice. He is a registered licensed Civil Engineer in Louisiana. He's currently working with the Louisiana Department of Transportation & Development where he's been for the past 16 years. During these years he has worked on Dam Safety & Reservoir Development Projects as well as Water Resources engineering projects, but currently he has spent more than 8 of the past 16 years managing Traffic Monitoring and Data Collection Program in the Office of Transportation Planning. George also has worked for more than 15 years prior as a Project Engineer with Louisiana Department of Environmental Quality (DEQ) where he worked on Federally Funded Water and Wastewater System Construction grants program. At DEQ he was involved in municipal wastewater and drinking water construction projects across the state of Louisiana. He was also involved in sewer and storm water collection and transmission line repair and construction projects across the state.

6/13/22 Session 2: Track 4



## LIANYU CHU

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Dr. Lianyu Chu is the principal at CLR Analytics. Before working full time for CLR Analytics, he was a researcher at the University of California Berkeley from 2001 and 2011 and associate researcher at the University of California Irvine from 2012 and 2015. His research and practice fields include traffic control and management, traffic information, traffic simulation modeling, smart sensor technologies, and system development. He was the PI of 8 Small Business Innovation Research projects and an inventor of the VSign Smart Vehicle Classification system. Dr. Chu has bachelor and master degrees in Electronic Engineering and Ph.D. degree in Transportation.

6/15/22 Session 6: Track 4

## CLAYTON CLARK

Traffic Monitoring and Data Processing  
Specialist  
Federal Highways Administration  
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Clayton has served as a Transportation Specialist with the Federal Highway Administration Office of Highway Policy Information Travel Monitoring and Surveys Division since 2018. Clayton comes from the Naval Facilities Engineering Command (NAVFAC) where he served as a Community Planner at the historic Washington Navy Yard established in 1799. Clayton was responsible for handling logistics for the Commander of Navy Installations Command (CNIC). Prior to joining NAVFAC in 2015, Clayton served as a Civil Engineer Inspector in Federal Highways Administration Central Federal Lands Division. Clayton earned Bachelor of Science Degrees in Mathematics and Physics from East Tennessee State University (ETSU) (2001), a Master of Science degree in Mathematical Sciences from ETSU (2005), and a Bachelor's degree in Civil Engineering from the University of Tennessee (UT) (2012); that same year completing his Engineer in Training (EIT) Certificate. Clayton recently attained a Professional Engineer (PE) License in Transportation and is now a Licensed Engineer for the District of Columbia.

6/13/22 Opening Plenary  
6/13/22 Workshop 1  
6/17/22 Closing Plenary

## JULIUS CODJOE, PhD

Special Studies Research Administrator  
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Julius Codjoe is a Special Studies Research Administrator at Louisiana Department of Transportation and Development. He oversees all research projects under intermodal, planning, operations, traffic safety, and intelligent transportation systems at the Louisiana Transportation Research Center.

6/15/22 Session 5: Track 2

## DAVID COLADNER

Data Analytics Program Manager  
Idaho Transportation Department  
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David is the program manager in the Data Analytics unit. He's been dabbling with data with ITD for over 30 years. His group works with a variety of data sets ranging from third party travel time data to weather data. When not at ITD he likes to go running and to go stargazing, but normally not at the same time.

6/16/22 Session 8: Track 3

## PETE COSTELLO

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6/17/22 Session 9: Track 3

## ROY CZINKU

VP ITD Solutions  
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Roy Czinku is the VP ITS Solutions with International Road Dynamics (IRD). Roy has been with IRD for thirty (30) years and has been directly involved in all aspects of the company including Research and Development, Product Development, Field Installation, and Service and Support. Presently Roy is responsible for initiating and developing new applications for Intelligent Transportation Systems (ITS) technology as well as automated truck weigh stations, highway data collection systems, and highway safety systems. Roy also works closely with the Federal Highway Administration (Federal Highways Administration) as part of IRD's Phase II Contractor Team for the Long Term Pavement Performance (LTPP) program.

6/14/22 Session 3: Track 4

## GIACOMO DALLA CHIARA

Post-Doctoral Scholar  
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Giacomo Dalla Chiara is a postdoctoral scholar at the Urban Freight Lab, University of Washington. He was postdoctoral research fellow at the Singapore University of Technology and Design in 2018 and visiting scholar at the Massachusetts Institute of Technology in 2017. He holds a PhD in Engineering Systems from the Singapore University of Technology and Design, a MSc in Statistics from ETH Zurich and a BSc in Economics from LUISS University. His research focuses on statistical methods applied to urban mobility problems. In his work he develops models and simulations to study and develop new sustainable urban logistics practices.

6/17/22 Session 9: Track 4

## SEAN DIEHL

Account Manager  
Drakwell  
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Sean is a Technical Account and Project Manager for Drakewell. Sean leads US implementations, manages US accounts, provides technical support and training to users, and helps develop and drive the Drakewell product and services Roadmap. Prior to Drakewell, Sean was a Sr. Transportation Consultant at Timmons Group where he worked with transportation agencies on GIS/LRS and transportation data solutions and planning. Before that, Sean was with the Georgia DOT where he was the Statewide Traffic Data Monitoring Program administrator and HPMS Coordinator among other roles and responsibilities related to GIS/LRS and transportation data.

6/17/22 Session 10: Track 4

## TIMUR DINCER

PACTRANS Student  
Washington State University

Timur Dincer is a research assistant in the School of Economic Sciences at Washington State University. He is a PhD candidate expected to graduate in 2022 and holds master's degree in Economics from University of Southern California. His research interests are in industrial organization, transportation economics, and market analysis.

6/16/22 Session 7: Track 2

## SAGE DONALDSON

Data Analytics, HPMS Program Manager  
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I am the Data Analytics Section Manager, I am responsible for managing the Data Analytics Section, program/project management, oversight of transportation data governance, coordination, managing the HPMS Federal Report, State Highway Log production, and technical GIS support within Multi modal Planning Division (MPD). I have a B.S. in Environmental Studies in Geography from the University of Arizona and am an active member in AGIC and the Arizona Women in GIS Chapter.

6/17/22 Session 10: Track 3

## JENNA DUKE

Research Associate  
University of Manitoba Transport  
Information Group  
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Jenna Duke is a graduate student at the University of Manitoba completing a Master's of Science in Civil Engineering and is part of the University of Manitoba Transport Information Group. Her research focuses on evaluating approaches to estimating truck traffic volumes for the agricultural industry in the Canadian Prairie Region. She is an active member of the University of Manitoba Institute of Transportation Engineers (ITE) student chapter and is the current community chair for the Chapter.

6/14/22 Session 3: Poster

## JOE FISH

Transportation Researcher and Project Leader  
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Joe Fish is a Project Leader and Researcher at the National Renewable Energy Laboratory (NREL) with 15 years of experience in the transportation sector. He leads and supports projects related to transportation data collection and validation, data integration, analysis, and transportation technology. Prior to joining NREL, Joe worked for municipal and regional transportation agencies and as a consultant to transportation agencies at all levels of government.

6/17/22 Session 10: Track 4

## LUCAS FRANCESCHI

Researcher in Civil Engineering  
Transportation and Logistics Laboratory  
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6/14/22 Session 4: Track 3

## MARK FRANZ, PhD

Lead Transportation Analyst  
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Mark Franz has been the Lead Transportation Analyst at the CATT Lab (Center for Advances Transportation Technology Laboratory) since 2016.

6/16/22 Session 7: Demo

## GUSTAVO GARCIA OTTO

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Doctor in Civil Engineering by the Post-Graduation Program of the Department of Civil Engineering of the Federal University of Santa Catarina. I work as a researcher on Weigh-in-Motion for the Transportation and Logistics Laboratory, at the Federal University of Santa Catarina, since 2007. Currently, I'm Technical Coordinator on different WIM projects between Federal University and National Land Transport Agency (ANTT) and National Department of Transport Infrastructure (DNIT).

6/14/22 Session 4: Track 3



## ANNE GOODCHILD

Professor  
University of Washington  
Urban Freight Lab

Dr. Anne Goodchild leads the University of Washington's academic and research efforts in the area of supply chain, logistics, and freight transportation. She is Professor of Civil and Environmental Engineering, and serves as Founding Director of both the Supply Chain Transportation & Logistics online Master's degree program and the Supply Chain Transportation & Logistics Center, the latter which launched the Urban Freight Lab (UFL) in 2016 to bring together the public and private sectors to address the challenges of the urban freight system by engaging in innovative research.

6/17/22 Session 9: Track 4

## DAWSON B. GRANT

Enterprise Information Analyst, Sr.  
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Dawson B. Grant is the lead traffic data analyst for ALDOT's Traffic Monitoring Section, where he coordinates all GIS related activities within the section. His most significant duty within the Department is the quality assurance and control of all traffic data submitted to the Federal Highway Administration each year. He has served ALDOT since 2010, after having completed a distinguished career as a Combat Engineer in the United States Army.

6/17/22 Session 10: Track 4

## ZAINAB HAHAM

Assistant Lecturer  
Uruk University

6/13/22 Session 1, Track 1

## MASOUD HAMEDI

Director of Data Science and Analytics  
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Dr. Masoud Hamed is the Director of Data Science and Analytics at Iteris, responsible for data driven research and development in the transportation analytics space. He works closely with the development team, clients and marketing to make sure that Iteris's data analytics products continue to grow and stay competitive in the industry. His team of data scientists explore applications of Machine Learning and Artificial Intelligence methods to create descriptive and predictive models for transportation safety and mobility. He lives in Potomac, MD with his wife and two daughters.

6/14/22 Session 4: Track 1

6/15/22 Session 6: Track 1

## JOSEPH HAUSMAN

Planner  
Federal Highways Administration  
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Joe Hausman has worked for over 34 years in the public sector at the Local, State and Federal Levels. Joe was the Roadway Information Manager for The Ohio Department of Transportation responsible for managing the States Roadway Databases and GIS Maintenance. For the past 12 years Joe, has worked at the Federal Highways Administration headquarters in Washington, DC, the first 7 years on the HPMS team in the Office of Policy, and for the last 5 years as a Senior Community Planner in the Office of Planning. Currently Joe is managing a major Pooled Fund Study (AEGIST), is the Federal Highways Administration liaison to the CTPP, is coordinating the Functional Classification/the Urban Area Boundary Adjustment Process.

6/14/22 Session 4: Track 1

## ANDREW HAYNES

Assistant Engineer  
New York State Department of  
Transportation  
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Andrew has worked for NYSDOT for the last 15 years in the traffic monitoring section. He has been a part of implementation of 2 traffic systems and is about to embark on his 3rd. He has experience in all aspects of the traffic count process from short term counts and continuous counts to quality control and database management.

6/17/22 Session 10: Track 4

## JESS HELMINGER

Regional Manager North America  
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Jess Helmlinger is the Regional Manager North America for Kistler. He has worked for Kistler for over 10 years and has been involved in a variety of projects including traffic monitoring, data analysis, and system implementation. He has a strong background in traffic engineering and data management.

6/15/22 Session 6: Track 4

## SETH HOSTETTER

Director of Safety Analytics and Mapping  
New York City Department of  
Transportation  
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Seth Hostetter is the Director of Safety Analytics and Mapping at the New York City Department of Transportation. He oversees the management, application, and analysis of the agency's safety data. His team provides analytic support for project and program development, design, and prioritization. He has provided the analysis for numerous studies including Safer Cycling: Bicycle Ridership and Safety in New York City, Don't Cut Corners: Left Turn Pedestrian and Bicycle Crash Study, Vision Zero Borough Pedestrian Safety Action Plans, Making Safer Streets, and Pedestrian Safety and Action Plan. Seth is a data analyst and transportation planner with over a decade of experience in New York City.

6/14/22 Session 4: Track 1

## DUNCAN JAMIESON

Business Development Director  
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6/17/22 Session 10: Track 4

## ANDREW JANZEN

CEO  
Street Simplified LLC  
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Andrew Janzen is the CEO and co-founder of Street Simplified. STREET offers proactive and data-driven safety analytics with leading data accuracy, comprehensive near-miss and road user behavior assessment, and customized safety findings. STREET has helped 23 agencies in 10 states solve crash problems at 150 locations and counting. Andrew received a Masters in Electrical Engineering with honors from California Institute of Technology in 2016 and subsequently worked on microwave and optical space communications at NASA's Jet Propulsion Laboratory before co-founding Street.

6/15/22 Session 6: Track 1

## STEVEN JESSBURGER

Engineer  
Federal Highways Administration  
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Traffic engineer for over 22 years with 15 years of state DOT experience and 16 years of Federal Highways Administration experience. Extensive work on sensors, arrays and teaching the TMG course. Certified instructor for the Federal Highways Administration TMG course. Co-author for the new and improved AADT formula in 2016.

6/13/22 Session 2: Track 3

6/14/22 Session 3: Poster

6/15/22 Workshop 2

## ERIC KATZ

Program Coordinator  
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Eric Katz is an award-winning urban planner with over 14 years of experience in multimodal transportation and public outreach. His experience includes serving as an in-house consultant for FDOT Central Office. Since May 2018, his tasks have focused on developing the Transportation Data and Analytics (TDA) Office's new Statewide Non-Motorized Traffic Monitoring (NMTM) program. Eric earned a Masters in Urban and Regional Planning from Florida Atlantic University and Bachelors in Anthropology and History from Florida International University.

6/14/22 Session 4: Track 2

## KYLE KIRCHMEIER

Transportation Planner  
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Kyle is a Transportation Planner in the Michigan Department of Transportation's Travel Information Unit and coordinates the Non-Trunkline Federal Aid and Local Road Traffic Monitoring Programs. Kyle's primary job duties involve managing Non-Trunkline and Local Road traffic count data, coordinating data collection and sharing efforts with Metropolitan Planning Organizations and Local Agencies, and managing Traffic Event Data in MDOT's Esri Roads and Highways. Kyle has a B.S. in Economic Geography from MSU and has been with MDOT since 2019, starting as the Ramp, Non-Motorized, and Welcome Center Traffic Monitoring Programs Coordinator.

6/16/22 Session 7: Track 2

## EDWIN KOOLS

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6/14/22 Session 3: Poster

## KAREN KRESS

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Karen serves as the Director of Transportation and Planning at the Tampa Downtown Partnership. In her role, Karen manages all aspects of transportation, parking and access throughout Downtown Tampa. A true advocate for transit and transportation, Karen leads Tampa Downtown Partnership's Transportation and Urban Design Committees, and its Parking Task Force.

6/17/22 Session 10: Track 3

## CATHERINE T. LAWSON, PhD

Associate Professor  
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Dr. Catherine T. Lawson is an Associate Professor in the Department of Geography and Planning, and an Affiliated Faculty member of the Department of Informatics, in the College of Emergency, Homeland Security and Cybersecurity at the University at Albany, SUNY. Her research interests include the use of vehicle probe data and applied data science methodologies for transportation planning and resiliency, travel behavior, transit planning, and hazard mitigation planning. Since 2006, Dr. Lawson has worked closely with New York State Department of Transportation (NYSDOT) to develop the next generation of web-based, interactive analysis tools.

6/16/22 Session 7: Track 3



## TAMMY LEE

Transportation Data Program Manager  
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Tammy works on a variety of projects for TREC, including documentation, data synthesis, analysis, and visualization supporting ongoing work with PORTAL and Bike-Ped Portal. Tammy received a BS in Genetics & Plant Biology from UC Berkeley before earning a PhD in Environmental and Natural Resource Sciences from WSU. Prior to joining TREC she worked as a data scientist for a political digital media consulting firm. When not working she's wrangling her toddler.

6/15/22 Session 5: Demo

## XIAOFENG LI, PhD

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6/16/22 Session 8: Track 2

## YIFAN LING

PACTRANS Student  
University of Washington

Yifan Ling is a graduate at the University of Washington.

6/16/22 Session 8: Track 2

## CHENIX LIU

PACTRANS Student  
University of Washington

Chenxi Liu received his bachelor's degree in Civil Engineering at Tsinghua University (2017) in Beijing, China. He came to University of Washington, Seattle, WA, US. Science 2017, he has been a Research Assistant in Smart Transportation Research and Application Lab (STARLab). His research interest includes studying traffic sensing, sensor fusion, camera calibration, and computer vision.

6/14/22 Session 3: Track 4

## MENA LOCKWOOD

Assistant State Traffic Engineer  
Virginia Department of Transportation  
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Mena Lockwood is an Assistant State Traffic Engineer at VDOT. She has over 25 years in the transportation industry, working in the areas of research, planning, traffic engineering, ITS project development and Operations. Currently, her areas of responsibility include the statewide traffic monitoring program, highway network performance measures, data and traffic system analysis and engineering studies. Mena received her undergraduate degree in Civil Engineering from Virginia Tech and a Master's Degree, also in Civil Engineering, from the University of Virginia. She is a registered professional engineer in Virginia.

6/16/22 Session 7: Demo

## SUZANNA LONG

Incoming Dean, Professor and Chair of Engineering Management and Systems Engineering  
University of Idaho, College of Engineering

Dr. Suzanna Long, former professor and chair of engineering management and systems engineering at Missouri University of Science and Technology, has been named dean of engineering at the University of Idaho in Moscow effective Aug. 1, 2022.

6/13/22 Opening Plenary

## FATMA MADKOUR

Traffic Engineer  
Washington State Department of Transportation  
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I am a former graduate student at the University of Idaho and am currently a traffic engineer WSDOT.

6/15/22 Session 6: Track 1

6/16/22 Session 8: Track 2

## SANDRA MAPEL

Traffic Monitoring Section Manager  
Ohio Department of Transportation  
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Sandie is the section manager for traffic monitoring at Ohio DOT. Her varied background includes working at an ODOT district in multiple roles, an MPO Director and a traffic engineer for a local consulting company. In her personal time she loves to go snow skiing and travel anywhere.

6/17/22 Session 10: Track 2

## DENISE MARKOW

TSMO Director  
The Eastern Transportation Coalition

Denise Markow is the Transportation System Management & Operations (TSMO) Program Coordinator for the Eastern Transportation Coalition. Denise came to the Coalition from New Hampshire DOT with a tremendous wealth of experience and expertise that is strongly aligned with the Coalition's focus on improving passenger and freight movement in the region. Denise's background includes 20+ years at New Hampshire DOT, most recently serving as TSMO Administrator and is responsible for the ITS and Highway Systems Operations programs. She has a Master's Degree in Civil Engineering and is a licensed Professional Engineer in New Hampshire.

6/13/22 Session 1: Track 1

6/16/22 Session 7: Track 2

## NATHAN P. MASEK

Senior Transportaton Planner II  
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Nathan has been a transportation planner in the private and public sectors for over 20 years. He is specialized in Intelligent Transportation Systems (ITS), as well as Traffic Monitoring, Congestion Management, Freight Planning, GIS, and numerous aspects of project development. He currently manages ITS Planning and is Manager of the Traffic Monitoring/Counts Program at the MRCOG. Nathan has a BA in Urban Transportation Geography from SDSU, and has Master's work in Geography with a specialization in Urban Geography and GIS. Nathan is an avid cyclist and races frequently in state and national events.

6/15/22 Session 5: Track 1

## NATALIE MIKELS

PACTRANS Student  
University of Idaho

I'm Natalie Mikels, and I started attending the University of Idaho in Fall 2021 to get my M.S. in Civil Engineering. My favorite thing about U of I so far is how friendly everyone is here and how much they enjoy working together/helping one another! For my thesis, I'm researching the use of artificial intelligence to develop pavement performance decay models. Once I graduate, I plan to work in the industry, and I'm excited to apply the knowledge I've gained in this program to real world problems.

6/13/22 Session 2: Track 4

## MCKENNA MILACEK

PACTRANS Student  
Oregon State University

McKenna is a current graduate research assistant at Oregon State University pursuing an MS in traffic engineering and the current vice president of OSU's ITE student chapter. She graduated from Gonzaga University in 2020 with a BS in Civil Engineering. Her interests include bicycle and pedestrian infrastructure and concept design. She has experience in safety investigations, ITS design, and drafting. Current research involves pedestrian call cancellation and extension systems, commercial motor vehicle (CMV) safety at roundabouts, and safety investigations.

6/16/22 Session 8: Track 3

## MOHAMED MOHAMED

PACTRANS Student  
University of Alaska

Mohamed Mohamed is a graduate at the University of Alaska.

6/17/22 Session 10: Track 2

## WILLIAM MORGAN

Planning & Systems Section Chief  
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William has been with the Illinois Department of Transportation since 2000. He is currently the Planning & Systems Section Chief for the department. Prior to this he was the Data Management Unit Chief of Statewide Planning and the IT Budget and Finance Manager. He graduated from Cedarville University with a BA in Mathematics in 1990.

6/15/22 Workshop 2

## EMMANUEL MUNOZ GARCIA

Traffic Analyst and Road Safety Auditor  
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Civil engineer and Master in Traffic Engineering and Highways, with a background of 6 years international expertise in several projects related to: Road Data Collection, Asset Management, Safety Audits and Traffic Engineering. First Author of the best Mexican Road Safety Article presented at the World Road Congress 2019 (PIARC) in Abu Dhabi, with the title "Road Safety Evolution and Challenges in Mexico;" and rewarded for the best Mexican paper in the category of Innovation.

6/15/22 Session 5: Demo

## MUHAMMAD MUNUM MASUD

Graduate Student  
Michigan State University

Muhammad Munum Masud is a graduate student of Michigan State University.

6/14/22 Session 4: Track 3

## BENNETT MURPHY

Owner  
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Bennet Murphy is the Owner and CEO of Road Data Systems that was incorporated in 2019.

6/16/22 Session 7: Demo

## MICHAL NAKASHIMADA

Head of New Modes  
Ride Report

6/15/22 Session 5: Demo



## GREGORY NEWTON, GISP

Assistant Director of Data Collection/GIS  
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I am an undergraduate student majoring in Computer Science. My research interests include machine learning, data analysis methods, internet of things, software development, and transportation technologies for traffic monitoring. Over the past year, I've been an intern at Applied Research Associates working on WIM data analysis. I volunteer for the International Society for Weigh-in-Motion and Transportation Research Board WIM Subcommittee. I am also a member of the National Technical Honor Society.

6/14/22 Session 3: Track 1

## ANDREW NICHOLS

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Dr. Andrew Nichols is a Research Professor in the Department of Civil Engineering at Marshall University. He obtained his BSCE from West Virginia University, MSCE and PhD from Purdue University. He is a long-time member of TRB committee ACP70 on Highway Traffic Monitoring. He has conducted extensive research on traffic data collection, data quality assessment, and quality control, with a specific focus on weigh-in-motion data.

6/13/22 Session 2: Track 3

## DANIEL O'REILLY

Project and Design Engineer-in-Training  
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Daniel O'Reilly joined IRD in 2016 as a summer intern and was hired permanently in 2017 as a Project and Design Engineer-in-Training. Daniel graduated from the University of Saskatchewan in 2017 with a degree in Mechanical Engineering.

6/13/22 Session 2: Track 4

## MICHAEL L. PACK

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Michael Pack is the founder and director the CATT Laboratory where he sets the strategic vision for his team of 100+ data scientists, software developers, systems integrators, and transportation professionals to make federal, state, and local transportation data easily accessible and usable by diverse user communities. Mr. Pack has been honored at the White House for his leadership in breaking down the barriers within agencies that prevent data from being leveraged to its fullest potential. Mr. Pack has previously worked at the Oak Ridge National Laboratory's Center for Transportation Analysis and the University of Virginia's Smart Travel Laboratory.

6/13/22 Session 1: Track 4

## SCOTT PERLEY

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Scott Perley is the Vice President of Performance Analytics for the Applications and Cloud Solutions at Iteris, Inc. where his teams apply cloud computing, artificial intelligence, advanced sensors, advisory services and managed services to achieve safe, efficient and sustainable mobility. Our end-to-end solutions monitor, visualize and optimize mobility infrastructure around the world to help ensure that roads are safe, travel is efficient, and communities thrive. Iteris ClearGuide suite of tools provide visualizations and data analysis that help planners and engineers track and measure transportation, roadway and intersection performance to improve safety and mobility.

6/14/22 Session 3: Track 1

## DON PICKRELL

Chief Economist  
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Dr. Don Pickrell is Chief Economist of the U.S. Department of Transportation's John A. Volpe National Transportation Systems Center, where he specializes in benefit-cost analysis of infrastructure investment, analysis of travel behavior, and applied transportation economics. He is the author of more than 200 published papers, research studies, and government reports addressing a wide range of topics in transportation economics, travel behavior, transportation policy, and the consequences of vehicle use for energy consumption and the environment. He previously taught transportation economics and policy at Harvard and MIT, and also served as Chief Economist of U.S. DOT.

6/13/22 Session 1: Track 3

6/15/22 Session 5: Track 1

## DOUGLAS PRATT

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Douglas Pratt is a Senior Project Engineer at the International Road Dynamics in Saskatoon, Saskatchewan in Canada. He has been with IRD since 1992.

6/13/22 Session 2: Track 3

## MARGARET PRIDMORE

Traffic Operations Manager  
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2022 NaTMEC Co-Chairman

Margaret Pridmore is the Traffic Operations Manager for the Idaho Transportation Department (ITD) at Headquarters. Her primary responsibilities include managing the statewide traffic monitoring program, the Highway Safety Improvement Program (HSIP), and working on the Data Steering Committee that puts on the annual Data Summit. Prior to this position, she worked as the Highway Performance Monitoring System (HPMS) coordinator for the state of Idaho. She has been married to her husband Ron for over 23 years and they have four kids – three grown and one finishing high school. In their spare time they love to spend time at their cabin in Lowman, having game nights with friends and family, or playing in a trivia league (with mixed results and some hilarity) with friends.

6/17/22 Closing Plenary

## ASHEQUE RAHAM

Senior Traffic Engineer  
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Asheque Rahman has over 13 years of diverse experience in traffic and transportation engineering, planning, supply chain logistics and emerging technology. Asheque is a nationally recognized transportation professional which includes being the recipient of the American Society of Civil Engineers (ASCE) Young Government Civil Engineer of the Year Award (2013) and the Institute for Operations Research and the Management Sciences (INFORMS) Franz Edelman Finalist Award (2017). Asheque was recently named as one of the Young Leaders to Follow for 2021 by the Institute of Transportation Engineers (ITE).

6/17/22 Session 10: Track 2

## JEFFREY RICE

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6/13/22 Session 1: Track 1

## SAM RICORD

PACTRANS Student  
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Sam Ricord is a third year P.hD student research assistant in the University of Washington Smart Applications and Research (STAR) Lab in the department of Civil and Environmental Engineering. He is passionate about creating a positive impact in society, hence his current work focuses on many aspects of transportation equity, including safety equity in tribal areas, data equity and equity biases of transportation datasets, and equity analysis of toll facilities. He does this through many collaborations, including with tribal governments throughout the Pacific Northwest and the Washington State DOT, among others.

6/17/22 Session 9: Track 2

## CHADE SAGHIR

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Chade Saghir has worked for the Southeast Michigan Council of Governments since 1996, which is a regional planning partnership of government units serving 4.8 million people in the seven-county region of Southeast Michigan striving to enhance the regions quality of life. Currently he leads teams and effectively manages projects to deliver traffic and transportation improvements to the region.

6/15/22 Workshop 2

## GREGORY SELENZNEV

Undergraduate Student Intern  
Howard Community College

Gregory Selenznev is an undergraduate intern at the Howard Community College.

6/14/22 Session 3: Poster

## OLGA SELENZNEVA

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Olga Selezneva is a principal engineer at Applied Research Associates. She holds doctorate degree in Transportation engineering and Master's degree in Structural engineering and has over 30 year of civil engineering experience. Notable projects led by Olga include development of national traffic loading defaults for pavement design based on WIM data, development of Federal Highways Administration WIM Pocket Guide series, and development of practical tools for assuring quality of WIM data collection for NCHRP. Over her carrier, Olga analyzed WIM data for over 800 WIM sites installed in U.S. Olga is a co-chair for TRB WIM subcommittee and an ISWIM board member.

6/13/22 Session 2: Track 3



## K SHANKARI

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Shankari is passionate about applying skills from 12 years of tech experience and her Berkeley CS PhD in empowering communities to instrument their mobility. She is the creator and primary maintainer of OpenPATH (<https://www.nrel.gov/transportation/openpath.html>), which she built to realize that vision. OpenPATH is currently deployed in multiple locations around the world, including the US, EU and Australia.

6/15/22 Session 5: Demo

## SCOTT SHERWOOD

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Scott Sherwood works as a Manager, Operations Production IRD-Pat Traffic at The IRD, which is a Business Services company with an estimated 7,000 employees; and founded in 1944. They are part of the Enterprise Resource Planning team within the Operations Department and their management level is Manager. Scott is currently based in Spring Grove, IL.

6/14/22 Session 3: Track 4

## ANNA SOLOW-COLLINS

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Anna Solow-Collins is an economist at the U.S. Department of Transportation's Volpe Center, where she focuses on data visualization, benefit-cost analysis, and program evaluation. She holds a BA in Economics and Math from Barnard College and an MA in Quantitative Methods in the Social Sciences from Columbia University.

6/15/22 Session 5: Track 1

## RIKKI SONNEN

Statewide Traffic Performance Engineer  
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Rikki Sonnen has a Bachelor's Degree and Master's Degree in Civil Engineering from the University of Idaho. Prior to joining UDOT in 2019, she worked as a consultant doing transportation work for local and state agencies. At UDOT, she specializes in data analytics to answer operational and planning challenges including estimating holiday travel delay, developing Power BI dashboards that are used to make decisions and automating data into meaningful visuals so Department leaders can make data-driven decisions.

6/13/22 Session 1: Track 3

## BRIAN STAES

PACTRANS Student  
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Brian Staes, M.S., E.I., is a Ph.D. candidate under the direction of Dr. Robert L. Bertini and Dr. Haizhong Wang at Oregon State University. He graduated from Florida Gulf Coast University with a bachelor's in civil engineering in 2018. Post-graduation Brian began working at the Center for Urban Transportation while pursuing his master's degree in civil engineering at the University of South Florida, which he completed in 2020. He was the former Vice President of the Institute of Transportation Engineering (ITE) University of South Florida student chapter. His area of focus for his PhD is transportation engineering

6/15/22 Session 5: Track 1

## MIKE STEFANCIC

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As a volunteer Board Member of the Treasure Valley Cycling Alliance in Boise, Idaho Mike is a community connector and educator. He creates empowering learning experiences that transform our communities for greater inclusivity in his day job at Boise State University. Through his own engagement he is a regular at neighborhood, City and bike events that make our community more complete and vibrant. Mike sees bikes as a vehicle for social change and strives to make biking more accessible to all. When he's not advocating for bikes and infrastructure he's riding with his family.

6/14/22 Session 4: Track 2

6/16/22 Workshop 3

## SCOTT STOKES

Director  
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L. Scott Stokes recently became the 8<sup>th</sup> Director of the Idaho Transportation Department (ITD). Prior to this, Scott served as the Deputy Director since 2007. Transportation is in Scott's blood as his father also worked for the department for 40-years as a maintenance foreman. Scott started with ITD in 1992 as a staff engineer in the bridge section. He has served many different positions throughout the department over his time with ITD, including being a District Engineer. Scott holds a bachelor's and master's degrees in civil engineering from Brigham Young University.

6/13/22 Opening Plenary

## ELIZABETH STOLZ

Director of Traffic Data Programs  
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Liz is a national expert of building traffic monitoring data programs. She is a certified NHI instructor and has taught the TMG course across the nation. As a consultant, she provides federal, state, and local agencies with advice on how to build a traffic data collection program.

6/16/22 Workshop 3

6/17/22 Session 10: Track 3

## WEI SUN

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Dr. Wei Sun is a research associate in transportation engineering at the University of Washington. He has a Ph.D. in transportation engineering from University of Florida. Dr. Sun's active research fields include Intelligent Transportation Systems (ITS), transportation data analytics, traffic operations and safety, and traffic simulation and software development. Dr. Sun has worked on a variety of research projects funded by Federal Highway Administration (Federal Highways Administration), National Cooperative Highway Research Program (NCHRP), and Washington State Department of Transportation (WSDOT).

6/15/22 Session 5: Demo

## REBECCA TAYLOR

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I have 30+ years' experience in developing advanced electronic products and software applications. My company, Diamond Edge Technology, has recently expanded into doing small run PCB assembly services, 3D prototype printing, electronic repair, and associated product testing and technical documentation. I really enjoy the challenge and rewards of electronic and software engineering here in the Northwest as a fifth generation Oregonian.

6/17/22 Session 9: Track 4

## RAJU THAPA

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Raju Thapa is an Assistant Professor - Research at University of Louisiana at Lafayette and ITS / Traffic Research Manager at Louisiana Transportation Research Center. He conducts research on Intelligent Transportation (ITS), Traffic safety and Operation.

6/15/22 Session 5: Track 2

## MOHAMED THARWAT ELSHAZLI

PACTRANS Student  
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I, Mohamed Elshazli, hold a Master's degree in Civil Engineering. Recently, I joined University of Idaho to earn a PhD degree in Civil Engineering. I have 5 years of experience in industrial and academic work. I was a Teaching Assistant for 5 years for Reinforced Concrete Design classes. I also worked as a Structural Engineer at an engineering consultant office for 2 years. I also held a position as a Technical Office Engineer in an engineering company for 1 year. Working in academia and industry helped me to have hands-on experience.

6/13/22 Session 1: Track 4

6/14/22 Session 3: Poster

## STUART THOMPSON, PE

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Gordon "Stuart" Thompson is a Traffic Research Engineer at the New Hampshire Department of Transportation.

6/14/22 Session 3: Poster

## DENNIS TSAI

PACTRANS Student  
University of Washington

Meng-Ju (Dennis) is a Ph.D. candidate at Smart Transportation Applications and Research Laboratory (STAR Lab) in the Department of Civil and Environmental Engineering, University of Washington, Seattle. His research focuses on spatial-temporal forecasting, especially multivariate information fusion and representation learning in non-stationary traffic networks.

6/14/22 Session 3: Track 1

## ANITA VANDERVALK-OSTRANDER

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Ms. Vandervalk-Ostrander, PE, PMP serves as Vice President of Business Development for Iteris' Transportation Systems division. She has extensive experience managing transportation programs and projects in the disciplines of planning, engineering, TSM&O, Intelligent Transportation Systems (ITS) and data management. She is nationally recognized for her research and application of transportation data governance across the country. She has a BS in Civil Engineering from Queen's University in Ontario Canada.

6/16/22 Session 8: Track 3

6/17/22 Session 9: Track 2

## CHRIS VAUGHAN

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Mr. Vaughan has been with the Institute for Transportation Research and Education (ITRE) since 2008 and his areas of expertise include specialized field data collection for motorized and non-motorized vehicles and pedestrians, pedestrian accessibility, and transportation education. Mr. Vaughan has led data collection efforts on research projects with sponsors like Federal Highways Administration, NCHRP, NCDOT, National Academy of Science, North Carolina Governor's Highway Safety Program, and the North Carolina State Highway Patrol. He also teaches several transportation courses taught year-round at ITRE.

6/14/22 Session 3: Track 4

6/17/22 Session 9: Track 4

## LUBINDA F. WALUBITA

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6/13/22 Session 2: Track 4

## CHIEH (ROSS) WANG

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Ross Wang is a researcher in the Buildings and Transportation Science Division at the Oak Ridge National Laboratory. His research revolves around transportation data analytics and visualization, intelligent vehicles, smart cities, and infrastructure management.

6/15/22 Session 5: Demo

## YINHAI WANG, PhD

Director of PACTRANS  
University of Washington

Dr. Yin Hai Wang is a professor in transportation engineering and the founding director of the Smart Transportation Applications and Research Laboratory (STAR Lab) at the University of Washington. He also serves as director for Pacific Northwest Transportation Consortium (PacTrans), USDOT University Transportation Center for Federal Region 10 and visiting chair for the Traffic Information and Control Department at Harbin Institute of Technology. He has a Ph.D. in transportation engineering from the University of Tokyo (1998), a master's degree in computer science from the UW, and another master's degree in construction management (1991) and a bachelor's degree in civil engineering (1989) from Tsinghua University in China. Dr. Wang's active research fields include traffic sensing, e-science of transportation, big-data analytics, traffic operations and simulation, smart urban mobility, transportation safety, etc. He has published over 120 peer reviewed journal articles and delivered more than 130 invited talks and nearly 220 other academic presentations. Dr. Wang serves as a member of the Transportation Information Systems and Technology Committee and Highway Capacity and Quality of Service Committee of the Transportation Research Board (TRB). He is currently a member of the steering committee for the IEEE Smart Cities and an elected governor for the American Society of Civil Engineers (ASCE) Transportation and Development Institute (T&DI), scheduled to serve as president of ASCE T&DI in 2018. He is a co-chair of the Third IEEE International Smart Cities Conference held in Wuxi China in 2017 and the ASCE International Conference on Transportation and Development in Indianapolis in 2018. He was a principal investigator for 75 important research projects with a total amount of funding over 51 million dollars. Additionally, Dr. Wang is associate editor for three journals: Journal of ITS, Journal of Computing in Civil Engineering, and Journal of Transportation Engineering.

6/13/22 Opening Plenary – Keynote Speaker

6/17/22 Closing Plenary



## CRISS WARD

PACTRANS Student  
University of Idaho

Criss Ward is a graduate student at the University of Idaho studying transportation planning with Dr. Mike Lowry. He recently earned his bachelor's degree in Civil & Environmental Engineering this last Spring from the University of Idaho and is currently working on his thesis, which is focused on improving statistical methods for traffic safety evaluation. Criss enjoys watching Seattle Mariners baseball (even as they continually fail each year to make it to the playoffs), and he plays drums in his prog-jazz band, Pumice Pocket.

6/15/22 Session 6: Track 4

## CODY WEGLINSKI

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I'm currently an Engineering Technician at the New York State Department of Transportation. I was born in downstate New York and have lived in a few different major cities before settling in Schenectady, NY. I have a master's degree in Economics and a double major bachelor's degree in Economics and Public Policy. I've been interested in transportation and statistics my whole life, so I've decided to make a career out of it.

6/15/22 Session 5: Track 2

## JEFF WEIDNER

Director Transit Programs  
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Mr. Weidner serves as the Director for multimodal projects including freight, seaport, intermodal, transit, transportation demand management, pedestrian/bicycle and complete streets. As part of the Executive Leadership Team, Mr. Weidner provides direction for achievement of the Company's objectives and initiatives.

6/14/22 Session 4: Track 2

## OLIVIA WHITE

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Olivia works with Eco-Counter's Montreal office to help cities and towns across North America integrate count data into their active transportation projects. Previously, she worked on the Transit Advisory Team at Stantec, focusing on accessibility recommendations for the TTC in Toronto. She graduated with a Masters in Urban Planning from McGill University in 2018. At McGill, Olivia worked with Alta Planning researching design challenges for active transportation networks in rural Canadian communities.

6/14/22 Session 4: Track 1

6/15/22 Session 6: Track 1

## CHRIS WIGLESWORTH

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Chris is a project manager with the Florida Department of Transportation with more than 20 years of transportation and land use planning experience. He has a BA in History, Minor in Geography, from the University of Florida and worked in land use and transportation planning for both the State and local governments in Florida, as well as in the private sector. Currently, he is responsible for managing transit related planning projects, which include transit facility design, transit technology, software and applications, and transit databases.

6/14/22 Session 4: Track 2

## DAVID WINTER

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David Winter is the FHWA Director for the Office of Highway Policy Information, the office responsible for the collection, analysis, and reporting for much of the Federal-aid highway program inventory, use, condition, and performance data. He also oversees the collection of national travel, toll, fuel use, registered vehicles, licensed drivers, and state and local finance data, data which supports Highway Trust Fund administration and national performance management. Prior, Winter served as Classification, Needs & Pavement Management Engineer with the Nebraska Department of Roads. He started his professional career with the Nebraska Department of Roads in 1987. Winter holds a bachelor's degree in Industrial Engineering from the University of Nebraska, Lincoln and is a licensed professional civil engineer.

6/13/22 Opening Plenary

## FRANK YANG

PACTRANS Student  
University of Washington

Frank Yang is an undergraduate at the University of Washington.

6/16/22 Session 8: Track 2

## STANLEY YOUNG

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Dr. Young is the lead for Advanced Transportation and Urban Science at the National Renewable Energy Laboratory. He currently serves as the DOE technologist in city for the Columbus Smart City program, as well as the Urban Science pillar lead for the SMART Mobility initiative. From 2006 through 2015, he was the technical architect of the Vehicle Probe Project, a multi-state traffic monitoring system based on outsourced probe data. He co-developed and patented a Bluetooth re-identification sensor, and co-founded Traffax Inc. to accelerate the commercialization of the technology. Previous appointments include the Kansas DOT and the Johns Hopkins Applied Physics Lab.

6/13/22 Session 1: Track 1

6/16/22 Session 7: Track 2

## STANLEY A. YOUNG

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Stanley A. Young is a transportation research and analysis intern at the National Renewable Energy Laboratory in Golden, CO in the last year of his undergraduate degree in Electrical and Computer Engineering at the University of Colorado at Boulder.

6/14/22 Session 3: Poster

## STANLEY YOUNG

Advanced Transportation & Urban  
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Dr. Young is the lead for Advanced Transportation and Urban Science at the National Renewable Energy Laboratory. He currently serves as the DOE technologist in city for the Columbus Smart City program, as well as the Urban Science pillar lead for the SMART Mobility initiative. From 2006 through 2015, he was the technical architect of the Vehicle Probe Project, a multi-state traffic monitoring system based on outsourced probe data. He co-developed and patented a Bluetooth re-identification sensor, and co-founded Traffax Inc. to accelerate the commercialization of the technology. Previous appointments include the Kansas DOT and the Johns Hopkins Applied Physics Lab.

6/17/22 Session 10: Track 4

## PATRICK ZHANG

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Patrick Zhang is the Project Manager for the Federal Highways Administration NextGen NHTS OD Passive Data Project.

6/16/22 Session 7: Demo

## YUE ZHANG

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Yue (Alicia) Zhang is a data analyst in the Division of Transportation development. She graduated from University of Missouri in major transportation. Now She is also studying Business Analytics at University of Colorado at Denver for her second master's degree. She used to work as a data analyst in an Electric Vehicle data Collecting, monitoring and Research Center. She was responsible for monitoring the quality of data and extracting data to do some research to give suggestions on transportation planning and electric vehicle business operation. Before joining CDOT, she worked as a high school mandarin teacher for two years which gave her a chance to spend more time with her two kids.

6/14/22 Session 3: Poster

## YIFAN ZHUANG

PACTRANS Student  
University of Washington

Yifan Zhuang received his B.E. degree in Automation from Tsinghua University, Beijing (2016). Then he received an M.S. (2019) and a Ph.D. (2022) degree in Civil Engineering from the University of Washington, Seattle. Since 2016, Yifan has been working as a Research Assistant at the Smart Transportation Application and Research (STAR) Lab, University of Washington. Yifan conducted several research internships in industrial fields during his graduate study, including Horizon Robotics, Tencent, and Adobe. His primary research interests are the application of edge computing in the transportation field, transportation sensing technologies, and computer vision. Yifan is an active researcher in the intelligent transportation field and has produced impressive work focusing on vision-based object detection and hardware integration. His cross expertise in software and hardware makes him solve problems more efficiently from a higher perspective. His research work generated significant impacts by a practical implementation for pedestrian safety and was reported by Seattle local news.

6/15/22 Session 5: Track 2

## CASSIDY ZROBEK

Master's Student  
University of Manitoba

Cassidy Zrobek is a Civil Engineering Master's student at the University of Manitoba. Her research focuses on truck classification data collection and estimation in the Canadian Prairie Region. She has been an active member of the University of Manitoba Institute of Transportation Engineers (ITE) student chapter since 2017 and is the current president of the Chapter. Cassidy has gained additional transportation engineering experience through a work term in the Traffic Signals Branch at the City of Winnipeg.

6/13/22 Session 1: Track 4

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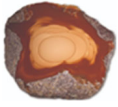
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