

ITS New Jersey Annual Meeting October 19

REIMAGINING MOBILITY



ANNUAL MEETING 2020



Reimagining Mobility

ITS New Jersey 2020 Annual Meeting Event Schedule

1:00 PM WELCOME AND KEYNOTE PRESENTATIONS

Andrew Tunnard, ITSNJ President
Shailen Bhatt, President & CEO, ITS America
Diane Gutierrez-Scaccetti, Commissioner, NJDOT
Q&A with Keynote Speakers

2:00 PM ITSNJ BUSINESS MEETING, SCHOLARSHIP & AWARDS PRESENTATION

Andrew Tunnard, ITSNJ President
Jennifer Marandino, Awards Committee Chair
Keith Hall, Scholarship Committee Chair

2:30 PM PLENARY SESSION: NEW JERSEY - 2020 AGENCY RESILIENCY & RETURN Biographies available on p. 8

Moderator: Stephen Dilts, Senior Vice President, HNTB Corporation

Panelists:

Rizwan Baig, PE, PTP, PTOE, Chief Traffic Engineer, PANYNJ

Lookman Fazal, Chief Information & Digital Officer, NJ Transit

John M. Keller, PE, PMP, Executive Director, NJ Turnpike Authority

Stephen M. Mazur, PE, PP, PTOE, CME, Director of Engineering and Chief Engineer, South Jersey Transportation Authority

Andrew J. Tunnard, Assistant Commissioner, Transportation Operations Systems and Support, NJDOT

3:30 PM TECHNICAL SESSIONS

The College of New Jersey: "Evaluating Regional Traffic Congestion and System Resiliency: A New Jersey Case Study Using Big Data from Traffic Message Channels" - Dr. Thomas Brennan, Jr., Ph.D., PE, Assistant Professor, TCNJ

Rowan University: "Application of Intelligent Transportation Systems (ITS) to Reduce Wrong-way Driving Crashes" - Mohammad Jalayer, Ph.D, Assistant Professor, Rowan University

NJDOT: "Recent NJDOT Projects: Route 1 Adaptive Signal System, Trafficware Commander Signal Controller, NJCTII Connected Vehicle Research" - Kelly McVeigh, Principal Engineer, Traffic, NJDOT

Rutgers University: "Planning Effort for the Smart Mobility Testing Ground: Corridor Instrumentation, Sensor Testing, and Application Testing" - Peter Jin, Assistant Professor, Rutgers

NJ Institute of Technology: "Connected Vehicle Pilot Project in Newark" - Branislav Dimitrijevic, Assistant Professor, NJIT ITS Resource Center

PANYNJ: "Data Driven Decision Making Using an Integrated Analytics Platform" - Allison Kroenert, PANYNJ

4:55 PM CLOSING REMARKS

Our Vision: Technology for World Class Mobility

Sponsors & Exhibitors



Sponsors



Exhibitors



Scholarships & Awards



2020 Hall of Fame Inductee

James R. Hogan, PE - Advantage Engineering Associates

As a licensed Professional Engineer, Jim Hogan served as a public servant for more than 25 years, beginning his career with the New Jersey Department of Transportation (NJDOT), as an Assistant Senior Engineer in June of 1984. Jim's involvement with ITS began in 1995 when he became a Project Engineer in NJDOT Traffic Operations. Jim quickly rose through the ranks to Executive Director (2006) and retired in that capacity on June 30, 2011. During this illustrious career at NJDOT, Jim was influential in launching New Jersey Traffic 511. Jim helped build the state-of-the-art Statewide Traffic Management Center, was responsible for saving the Safety Service Patrol Program, previously referred to as Emergency Service Patrol.



Currently, Jim is serving as a Senior Associate with Advantage Engineering Associates and since July 2011 has managed their ITS group. While working in the private sector, Jim continued his accomplishments and work with NJDOT on the Meadowland's Area Traffic Surveillance System, providing innovative ITS solutions for Super Bowl XLVIII at MetLife Stadium in East Rutherford. Working with the North Jersey Transportation Planning Authority, Jim was heavily involved with New Jersey's Intelligent Transportation Systems Architecture Update. Jim was instrumental in concept development services on several cutting-edge technology projects including adaptive Traffic Signal Systems for Routes 29, 38, 70 and 73; Advanced Transportation and Demand Management along Interstates 76, 195 and 295. Jim was involved with ITS replacement and upgrade of the Lincoln Tunnel.

Jim has a legacy of being an excellent leader, a champion in both good times and bad. Jim has influenced many lives with his hard work, honesty and a can-do attitude.

Jim has served on the I-95 Corridor Coalition, American Association of State Highway and Transportation Officials, TRANSCOM and is an active member of ITSNJ. Jim attended the University of Pittsburgh. Jim is a man of honor - very devoted to his faith and his family. Jim is married to his lovely wife Dawn and together they are the proud parents of three children and have two beautiful grandchildren.

2020 ITSNJ Public Official

Padmanabha (Pete) Amin - NJDOT

Padmanabha (Pete) Amin is a Supervising Engineer in the Division of Mobility Engineering at the New Jersey Department of Transportation (NJDOT). Pete joined ITS Engineering, after moving from NJDOT's Maintenance Bureau, without any prior knowledge of ITS, but quickly became a subject matter expert in the field of ITS.

Pete has been instrumental in advancing ITS throughout New Jersey for more than decade. Pete has played a major role in overseeing the design, construction and maintenance of ITS facilities. Pete helped create NJDOT's Arterial Management Center. It was through Pete's leadership that NJDOT's procedures manual for ITS and Signals Systems was completed and is now referenced in all NJDOT's technical proposals. Pete was also instrumental in the development of a separate limited scope project delivery process for ITS projects, which helps move projects to implementation. Pete has been the owner of "Smart Moves" since he joined ITS Engineering and he has grown it substantially. It was because of Pete's dedication and efforts, that NJDOT was able to plan, design, construct and operate ITS devices for the Super Bowl XLVIII. Pete has been a vocal supporter and advocate for the Statewide ITS Architecture, providing insightful and continuous feedback related to the process.

For the past fifteen years or so, Pete has become the anchor of ITS Engineering. He became a "Master" of specifications and ITS design review. He mentored young and old, newcomers and seniors within ITS Engineering and other NJDOT units as well.

2020 ITSNJ Young Professional

Farukh Ijaz, PE - Kimley-Horn Associates

Farukh serves as a Project Manager of Traffic and ITS with Kimley Horn, a position he has held since 2018. Prior to this Farukh worked for Michael Baker International in the Engineering Design Division. In his current position, Farukh serves as an in-house, off-site consultant to the Port Authority's Traffic Engineering group, playing a significant role in their efforts to adapt to the evolving transportation technology landscape, and bringing innovative ITS solutions to Newark Liberty International Airport Terminal One Redevelopment. Farukh spearheaded the installation of Waze Beacons in the Lincoln and Holland Tunnels, which won the ITSNJ Outstanding Project Award in 2019.

Farukh's experience includes Intelligent Transportation Systems, Transportation Systems Management and Operations, traffic design, planning, traffic safety, development and execution of Transportation Management Plans, data analysis, complete street design, utility coordination and project management. During his short tenure at Kimley Horn, Farukh has been involved with some major projects including serving as the ITS lead on the Port Authority's Newark Liberty International Airport (EWR) Terminal One Redevelopment, Transformational Transportation Technologies (T3) Strategic Plan, and Dynamic Message Signs Scenario Planning Library for the Port Authority Standard Lane Closures.

Farukh recently he co-authored a paper related to Probe and Crowdsourced Data Initiatives which was presented at ITS America conferences in 2018 and 2019. Farukh also published a study related to Pedestrian Environment Index (PEI) for urban neighborhoods in Chicago. Farukh is heavily involved in LeadershipITE, and was a member of the Class of 2018, serving as a mentor and reviewing applications for the Class of 2020.

2020 ITSNJ Professional

Kevin Hayes, PE - Jacobs

Kevin is an Engineer with Jacobs having been with the engineering firm since 2003. In his 18-year professional career, Kevin has served various agencies throughout the State as an ITS project manager, engineer, integrator, and contractor. Throughout his career, Kevin has helped each of these agencies achieve innovative ITS design and deployment solutions in areas such as adaptive and coordinated traffic signal systems, communications networking, ITS device deployment, and transit signal priority applications.

Kevin is currently serving as the project manager on NJDOT's Connected Technology Integration and Implementation project, which was recognized as a notable project this year. Kevin has also served the New Jersey Sports and Exposition Authority as the project manager, lead designer, integrator, and maintenance engineer for the Meadowlands Adaptive Signal System for Traffic Reduction. Kevin was responsible for designing, integrating, and now maintaining 128 traffic signals into a self-adaptive network.

Under the NJDOT Statewide Intelligent Transportation Systems (ITS) Engineering Support Services, Kevin served as the statewide system integrator providing ITS Engineering Support Services for several major Interstate corridors, including I-287, I-295 and the NJ Turnpike Ramp at Route 3, Route 120, and Route 3 Interchange among others.

Kevin is a member of ITS America with numerous specialized training.

ITSNJ SCHOLARSHIPS

Spring 2020 Scholarship Winners

ITSNJ Outstanding Undergraduate Student Award
Bryan Remache-Patino, TCNJ

ITSNJ Outstanding Graduate Student Award
Yi Ge, Rutgers

Future of ITSNJ Award
Parisa Hosseini, Rowan University

Fall 2019 Scholarship Winners

ITSNJ Outstanding Undergraduate Student Award
Andrew Agresto, TCNJ
Robert Dinger, TCNJ

Future of ITSNJ Award
Deep Patel, Rowan University

ITSNJ is currently accepting applications for the 2020 Fall Solicitation of its Scholarship Program. Applications are due by November 13, 2020 to the ITSNJ - Scholarship Committee
For information contact Keith Hall (khal@maserconsulting.com)

2020 ITSNJ Outstanding Project

Data Analytics Ecosystem

Port Authority of New York & New Jersey, in partnership with Edgeline Analytics & MindHop

The Port Authority is undertaking a strategic program to equip its critical regional roadway network with traffic sensor devices which would transmit key data such as volume, lane occupancy and speed. This data is channeled through the Agency-wide Transportation Management Software (ATMS). The field sensor network at the Port Authority is integrated with the data warehouse known as the "Data Hub". This Hub is part of Port Authority's data analytics ecosystem, which powers more than 30 real-time and analysis dashboards providing key insights in the areas of traffic safety, asset maintenance, GIS mapping, traffic signals, congestion and regional mobility. A center piece of the data analytics platform is the Port Authority's real-time dashboard, which provides a unique opportunity for operational and safety professionals to monitor and respond to any pattern that is outside of the typical data trends. This function greatly enhances real-time situational awareness and with the data platform enabling the Port Authority to inform regional transportation agencies of critical traffic trends, which has become especially important in this age of COVID-19.

2020 Honorable Mention ITSNJ Project

Agency-wide Transportation Management Software Acquisition and Implementation

Port Authority of New York & New Jersey,
in partnership with Kapsch North America

The ATMS program provides an agency-wide unified platform to monitor and/or control transportation technology assets such as traffic surveillance cameras, dynamic message signs, vehicle detection stations, lane-use control signals, variable speed limit signs, traffic signals, and weather stations located at the Authority's facilities. ATMS provides agency-wide situational awareness by collecting and distributing data regarding transportation system conditions and incidents at all facilities. View-only capability is provided to facilities and departments that do not control transportation technology assets, providing the situational awareness and information regarding conditions in the area. ATMS implementation has substantially been completed under the Engineering Department/Traffic Engineering's lead, with the maintenance phase of the base contract currently being started.

Other Notable ITSNJ Projects and Programs

Integrated Connected Urban Corridor in New Jersey

NJDOT in partnership with New Jersey Institute of Technology and City of Newark

Real-Time Traffic Signal System Performance Measurement

Rutgers University of New Jersey in partnership with The College of New Jersey, Rowan University, and NJDOT

Route 1, Forrestal Road to Wynwood Drive/Whispering Woods Boulevard ITS

NJDOT in association with HNTB Corporation

New Jersey Traffic 511NJ Voice Assistant Skills - Alexa, Google Assistant

NJDOT in partnership with TRANSCOM, Infosenseglobal Inc., and Kisnn Associates Inc.

New Jersey Connected Technology Integration and Implementation

NJDOT in association with Jacobs Engineering, Cisco, Rutgers University of New Jersey and The College of New Jersey

New Jersey Connected Vehicle integration with SCATS

NJDOT in association with Jacobs Engineering, Transcore, Rutgers University of New Jersey and The College of New Jersey

Job Order Contracting

NJDOT's Division of Mobility Engineering with Advantage Engineering Associates, M&J Engineering, The Gordian Group, Orchard Holdings, Daidone Electric, and FHWA

2020 Annual Meeting Planning Committee

Events & Technical Meetings Chair
Lynn LaMunyon, Ocean County

Committee Members:

Pavani Borra, NJIT
Thomas Brennan, TCNJ
Amanda Feeley, Gannett Fleming
Jim Hadden, Jim Hadden Consulting, LLC
Keith Hall, Maser Consulting
Mei Hu, NJIT

Christopher King, DVRPC
Uzo Mangar, VHB
Jennifer Marandino, SJTPO
Donald Pasquariello, TEK Systems
Brian Tobin, Rutgers CAIT
Andrew Tunnard, NJDOT

2020 ITSNJ Members

Thank you to all our current ITSNJ Members. Soon, it will be time to renew your membership for 2021. On behalf of The Board of Directors, we would like to thank you for your continued membership and support of ITS New Jersey.

Member Organizations as of October 19, 2020

Advantage Engineering Associates, P.C.
Arora and Associates, P.C.
Conduent Transportation Services
Consensus Systems Technologies ("ConSysTec")
Daktronics
Delaware River Joint Toll Bridge Commission (DRJTBC)
Delaware Valley Regional Planning Commission
Dewberry Engineers Inc.
Drive Engineering Corp.
Gannett Fleming, Inc.
HDR
HNTB Corporation
Imperial Traffic Data Collection
Information Logistics, Inc.
Jacobs Engineering Group, Inc.
Jim Hadden Consulting, LLC
JMT
Kapsch TrafficCom North America
KMJ Consulting, Inc.
Lutin, Jerome M.
Marine Tiger Technologies
Maser Consulting P.A.
MBO Engineering, LLC
McMahon Transportation Engineers & Planners
Meadowlands Transportation Brokerage Corporation (D/B/A EZ Ride)

Naik Consulting Group, P.C
New Jersey Department of Transportation
New Jersey Institute of Technology
New Jersey Transit
New Jersey Sports and Exposition Authority
New Jersey Turnpike Authority
North Jersey Transportation Planning Authority
Ocean County Engineering Department
Parsons Corporation
Rowan University
Rutgers, The State University of NJ CAIT
Sam Schwartz Engineering
Sensys Networks
South Jersey Transportation Authority
South Jersey Transportation Planning Organization
Southern Manufacturing
Stantec
TRANSCOM
TechniQuest Corporation
University Transportation Research Center
WSP
Ahmed Sajid Hasan
Parisa Hosseini

Not on the list?

Renew your membership today, or sign up as a new member and be a part of the future of mobility!

Panelists

New Jersey - 2020

Agency Resiliency & Return



Stephen Dilts, Moderator

Stephen Dilts is the New York office leader and senior vice president for HNTB – with more than 600 colleagues working every day in the New York and New Jersey region. Prior to joining HNTB, Stephen spent 10 years as a public official, including serving as chairman of NJ TRANSIT, commissioner and deputy commissioner of the New Jersey Department of Transportation, and chairman and deputy executive director of the New Jersey Turnpike Authority, as well as Mayor and Council President of Hampton Borough.

Rizwan Baig, PE, PTP, PTOE

Rizwan Baig is the Chief Traffic Engineer and Transportation Technologies Program Director of the Port Authority of New York and New Jersey. Rizwan is a proven transportation industry leader with over 32 years of extensive engineering leadership experience in all modes of transportation and all stages of engineering services from planning through design and construction, operations, and asset management.

Lookman Fazal

Lookman Fazal, Chief Information & Digital Officer at NJ Transit, is a senior executive who specializes in professionalizing IT and driving “chaos to order” with the goal of transforming IT to meet the needs of the business. Credited with building high-performing teams and pushing change throughout the organization, Lookman is a visionary who seeks to lead innovation and technological advancements.

John M. Keller, PE, PMP

John Keller, Executive Director of the New Jersey Turnpike Authority, is responsible for managing both the New Jersey Turnpike and Garden State Parkway roadways and its 2000 employees. Prior to being named Executive Director, John, as a senior level engineer with the Authority’s Engineering Department, managed several large-scale capital program projects.

Stephen M. Mazur, PE, PP, PTOE, CME

Stephen Mazur currently serves as Chief Engineer / Director of Engineering for the South Jersey Transportation Authority. He is responsible for overseeing the engineering activities of the Authority, including the Atlantic City Expressway and the Atlantic City International Airport. He also oversees the Authority Access Management Permitting, Vegetation Canopy Management, and Transportation Asset Management Programs as well as all grants with the Federal Aviation Administration’s Airport Improvement Program.

Andrew J. Tunnard

Andrew Tunnard, Assistant Commissioner, Transportation Operations Systems & Support, of the NJDOT served in the US Navy from 1989 to 2012 and other private sector positions prior to joining the NJDOT. He oversees 1700 personnel who are responsible for roadway asset management and maintenance operations statewide.

Our Mission:

Facilitate collaborative research, implementation, and use of Intelligent Transportation Systems (ITS) to enhance economic development, quality of life, and environmental sustainability through improved mobility and safety.