

NJ TransAction Conference Program Schedule and Workshop Sessions

ROHRER BUS AUDITORIUM #1 – Live and Scheduled Presentations

Fully Live Presentations – These sessions will be presented through a live real time (EST) webinar on October 20, 2020 at designated times. These sessions will be recorded and available as Video on Demand from October 21-November 19, 2020.

Scheduled Timed & Real-Time Chat Presentations. These are sessions that will be presented at a designated time (EST) on October 20-2020 and during the showing of the session, viewers and presenters will be able to chat Q&A and comment in real time. (All these sessions along with the chat room conversations will be available as Video on Demand from October 21-November 19, 2020).

8:00 am – 9:00 am VISIT THE EXHIBITORS & POSTER SESSIONS BOOTHS

9:00 am – 10:00 am

1. LIVE SESSION: You're Engaged! Getting the Public Involved in Transportation Planning

Room: Rohrer Auditorium # 1 Length: LIVE - 1 Hour

Getting (and keeping!) the public engaged in your transportation projects and programs is both challenging and rewarding. This session features three examples of effective and innovative public engagement approaches at the county and regional levels.

Moderator: Charles Kenny, Middlesex County Freeholder and NJTPA Third Vice Chair

Presenter: Walter Lane, Director of Planning, Somerset County

Presenter: Trish Sanchez, Public Outreach Specialist, Voorhees Transportation Center, Rutgers University

Presenter: Ted Ritter, Manager External Affairs, NJTPA

2. Community Transportation: Covid-19 Training for Front Line Employees

Room: Rohrer Auditorium # 1 Length: 0:47:58

All transit agencies have an obligation to ensure that front-line employees, who interact with the public, have a comprehensive understanding of the challenges associated with providing services during the Covid-19 Pandemic. This presentation informs employees of the best practices in protecting themselves, their customers and their families while continuing to provide transit services. This information is based on best practices offered by reliable transit resources and the Center for Disease Control (CDC)

Presenter: Michael Noel, Noel Training & Consulting LLC

3. Rising to the Challenge: PATH's Improvement Plan & COVID-19 Response

Room: Rohrer Auditorium # 1 Length: 0:44:00

PIP was launched in June 2019 and addresses the biggest problems facing the 111-year old system. By adding more trains, reducing delays, and focusing on the customer experience, PATH will significantly improve the rides of the nearly 300,000 customers who rely on it each day.

Moderator: Ahmed Ismail, Principal Transportation Planner, PANYNJ

Presenter: Beth Siegel, Deputy Director, Business & Program Delivery, PATH

Presenter: Damian McShane, Assistant Director, Capital Project Management Division (CPMD), PATH

9:00 am – 12:00 pm

4. LIVE SESSION: NJ TRANSIT Contracting Opportunities

Room: Rohrer Auditorium # 1 Length: LIVE - 3 Hours

NJ TRANSIT will provide an overview of significant projects underway and outline upcoming contracting opportunities. The presentation will include designated sections describing the **Delco Lead Storage and Inspection Facility** project, including the yard expansion at County Yard, as well as **NJ TRANSITGRID**, a first-of-its-kind electrical microgrid being developed for use in a transportation system. Both projects are features of the agency's Resilience Program, which was created after 2012's Superstorm Sandy identified vulnerabilities in the New Jersey/New York region's public transit capabilities. In anticipation of more frequent severe weather events, NJ TRANSIT has taken steps to make transportation resiliency a high priority for the area.

Moderator: Eric Daleo, Senior Vice President, Capital Planning and Programs, NJ TRANSIT

Presenter: Megan Strickland, Chief, Capital Compliance, Budget and Administration, NJ TRANSIT

Presenter: Rich Schaeffer, Chief Engineer, Capital Planning and Programs, NJ TRANSIT

Presenter: Kiran Patel, Chief, Project Management, Capital Planning and Programs, NJ TRANSIT

Presenter: Dan Maine, Acting Chief, Construction Management, NJ TRANSIT

Presenter: Rick Klittich, Manager, Light Rail Expansion Projects, Public Affairs, NJ TRANSIT

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10:00 am – 11:00 am

5. LIVE SESSION: Addressing Systemic Racism in the Workplace and Industry

Room: Rohrer Auditorium # 1 Length: LIVE - 1 Hour

This panel will present public, private, non-profit, advocacy and academic perspectives. Perspectives include the State's Chief Diversity Officer to moderate and representatives from Environmental Justice Advocacy Groups, NJ Transit, Rutgers, and Urban Mayors Association.

Moderator: Hester Agudosi, NJ Chief Diversity and Inclusion Officer

Presenter: Kim Gaddy, Environmental Justice Organizer, Clean Water Action of New Jersey

Presenter: Charles T. Brown, Adjunct Professor, Rutgers University

Presenter: Barbara George Johnson, Executive Director, Watson Institute and Urban Mayors Association, Thomas Edison State University

Presenter: Leotis Sanders, Vice President, Office of Diversity and Inclusion, NJ TRANSIT

6. NJDOT's Commitment to Communities (Local Planning Assistance, Freight Grants, Safety, Technology)

Room: Rohrer Auditorium # 1 Length: 0:47:22

The "Commitment to Communities" initiative began with a narrower focus in 2018 aimed at assisting local governments spend the substantial supplementary dollars directed their way as a result of the reauthorization of the Transportation Trust Fund. Come hear about how this initiative has grown in terms of Local Planning Assistance, Safety and leveraging Technology.

Moderator: Zenobia Fields, Senior Policy & Program Advisor, NJDOT

Presenter: Laine Rankin, Director of Local Aid, NJDOT

Presenter: Nicole Minutoli, Director of Multimodal Services, NJDOT

Presenter: Andy Swords, Director of Statewide Planning, NJDOT

Presenter: Sal Cowan, Senior Director of Transportation Mobility, NJDOT

7. Outreach CPR, Tools for Today!

Room: Rohrer Auditorium # 1 Length: 0:53:34

Save your community outreach with some CPR! This session will discuss the pitfalls of non-inclusive public participation and will review tools and techniques that have been used to enhance or replace traditional face-to-face meetings. Done right, public participation provides information and feedback to decision makers and professionals about proposed projects and policies that allow for better decision making and broader public support and buy in. Too often traditional public meetings are poorly attended and provide little of substance to the planning process. This session will discuss the use of film, online-media, pop-up meetings, and other techniques to improve your community outreach!

Presenter: Ranjit Walia PP/AICP, Founder/CEO, Civic Eye Collaborative

Presenter: Trish Sanchez, Public Relations and Outreach Specialist, POET, Rutgers University

Presenter: Josh Petrino, Creative Director, Civic Eye Collaborative

11:00 am – 12:00 pm

8. LIVE SESSION: LEGAL – How To Present Effective Testimony for Your Client (Hearings, Depositions, etc.)

Room: Rohrer Auditorium # 1 Length: LIVE - 1 Hour

Learn from experienced professionals how to present the best testimony for your client and avoid pitfalls in adversarial forums ranging from litigation depositions to land use hearings— and earn engineering and/or planning credits.

Moderator: Janine G. Bauer, Esq., Szaferman Lakind, P.C.

Presenter: Kevin O'Brien, P.P., AICP Shamrock Enterprise's, Ltd.

Presenter: John Nawn, P.E. Fleischer Forensics

9. LIVE SESSION: Gateway Program Update

Room: Rohrer Auditorium # 1 Length: LIVE - 1 Hour

Discussion of latest developments and status update on Gateway Program projects including Hudson Tunnel, Portal North Bridge, Penn Station Expansion and others.

Moderator: TBD

Presenter: Stephen Sigmund, Chief of Public Outreach, Gateway Program Development Corp.

Presenter: Craig Schulz, Senior Manager, Gateway Program Communications

Presenter: TBD

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10. **Community Transportation: A Conversation with Scott Bogren, Executive Director of the Community Transportation Association of America**
Room: Rohrer Auditorium # 1 Length: 0:55:49
Scott Bogren, Executive Director of the Community Transportation Association of America will discuss community transportation issues being talked about in Washington DC and other states.
Moderator: Michael M. Vieira, President, NJ Council on Special Transportation
Panelist: Scott Bogren, Executive Director, Community Transportation Association of America

12:00 pm – 1:00 pm

11. **Lunch Remarks**
Sponsored By: Hill International. Inc., Traffic Planning and Design, Inc. and TechniQuest Corporation
- Diane Gutierrez-Scaccetti, Commissioner, NJ Department of Transportation
 - Kevin Corbett, President & CEO, NJ TRANSIT

1:00 pm – 2:00 pm VISIT THE EXHIBITORS & POSTER SESSIONS BOOTHS

2:00 pm – 3:00 pm

12. **A Discussion with the Federal Transit Administration – FTA Region 2**
Room: Rohrer Auditorium # 1 Length: 0:54:28
Moderator: Donald Burns, AICP, Director of Planning and Program Development, FTA Region 2
Presenter: Stephen Goodman, P.E., Regional Administrator, FTA-Region 2, will provide opening remarks.
Presenter: Donald Burns, AICP, Director of Planning and Program Development, FTA Region 2 will provide highlights on the following: Overview of FTA region 2 grants awarded this past fiscal year; Notice of Proposed Rulemaking on PMO Rule; Update on The Council on Environmental Quality (CEQ) notice for its final rule, titled "Update to the Regulations Implementing the Procedural Provisions of the National Environmental Policy Act"; and Section 139(J) consultant NEPA assistance being sought by the FTA.
Presenter: Darreyl Davis, Director, Office of Operations and Program Management, FTA-Region 2, will discuss how CARES Act funding provided to Region 2 is being utilized by transit agencies in our region.
Presenter: Donovan S. Vincent, Sr., P.E. Director, Office of Major Capital Projects & Emergency Relief Program, FTA-Region 2, will discuss the Notice of Issuance of Final Circular: Guidance on Joint Development and how transit agencies can use joint development when seeking to secure funding to advanced projects towards implementation.
13. **NEPA News That You Can Use**
Room: Rohrer Auditorium # 1 Length: 0:54:18
A lively discussion covering the latest on NEPA, featuring a panel of experts from a range of transportation sectors. Topics to be covered include: CEQs proposed NEPA Regulations Amendments, NEPA Streamlining – Updates on the executive orders and dashboard, Long Range Planning at the MPO/Regional Level, NEPA's role in Environmental Management Systems at MTA.
Moderator: Debra Rogers, Managing Director, Environment and Planning, ICF
Presenter: Larry Smith, Senior Planner, Dewberry
Presenter: Beverly Bowen, Transportation Director, ICF
Presenter: Thomas Abdallah, Deputy Vice President & Chief Environmental Engineer, MTA NYC Transit

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2:00 pm – 5:00 pm

14. **LIVE SESSION: Community Transportation: Organization Cultural & Safety Management**

Room: Rohrer Auditorium # 1 **Length: LIVE - 3 Hours**

This presentation will provide guidance, strategies, and tools to build a positive organizational culture that supports agency safety management efforts. Every transit agency has an organizational culture; however, that does not mean that the culture is positive and able to support employee safety empowerment and ownership. This presentation will assist transit agencies in building on the positive elements of their existing culture and help make sure employees have a voice in identifying and mitigating safety risk. The presentation will use a variety of transit agency case studies to facilitate the learning experience.

Presenter: Michael Noel, Noel Training & Consulting, LLC

Presenter: Ream Lazaro, Ream Lazaro Safety Consulting, LLC

3:00 pm – 4:00 pm

15. **Making Data Fly: Implementing Performance-Based Decision-Making at PANYNJ Airports: Case Study of EWR**

Room: Rohrer Auditorium # 1 **Length: 0:43:00**

With over \$5 billion of investment in the redevelopment of EWR, the PANYNJ is committed to improving passenger experience at our airports. Along with unprecedented capital investment in our facilities, we are also advancing 21st century governance reform utilizing key performance indicators and data flows to better manage and operate our airports. Operations and redevelopment managers will discuss the opportunities and challenges of driving data-driven decision making at EWR.

Moderator: Ai Yamanaka, Data Analytics Program Manager

Presenter: Frank Radics, Terminal Commercial Manager

Presenter: Brian Rohlf, EWR Terminal B Manager

Presenter: Jackie Grossgold, Customer Experience Manager

3:00 pm – 5:00 pm

16. **LIVE SESSION: ETHICS - AICP & PDH Workshop**

Room: Rohrer Auditorium # 1 **Length: LIVE - 2 Hours**

This training workshop satisfies the 2 hours of ethics credits required for PE and AICP renewal.

This session will cover Ethics requirements for Engineers and Planners, as well as several ethics case studies.

Presenter: Gordon Meth, P.E., P.P., PTOE, PTP, RSP1

17. **LIVE SESSION: Moving Forward - Agency Actions**

Room: Rohrer Auditorium # 1 **Length: LIVE - 2 Hours**

How are agencies playing a role in keeping people and goods moving in safe, efficient and reliable manner? Join us for a discussion about major capital investment at the NJDOT, NJ TRANSIT, NJ Turnpike and PANYNJ. Come learn about major initiatives, project delivery, partnerships and what is on the horizon.

Moderator: Zenobia Fields, Senior Policy & Program Advisor, NJDOT

Presenter: Eric Daleo, Sr. Vice President, Capital Programs, NJ TRANSIT

Presenter: Snehal Patel, Asst. Commissioner, Capital Project Management, NJDOT

Presenter: John Keller, Executive Director, NJ Turnpike

Presenter: Martha E. Bogle, P.E, Chief of Design, Engineering/Architecture Design Division, PANYNJ

4:00 pm – 5:00 pm

18. **A View from the Top – Insights into New Jersey's Independent Transportation Authorities**

Room: Rohrer Auditorium # 1 **Length: 1:04:33**

This panel will discuss the challenges facing New Jersey's mass transportation, toll road and bi-state agencies especially during the Covid-19 crisis.

Moderator: Anthony Attanasio, President, Hawk Strategies, LLC

Panelists: Kevin Corbett, President & CEO, NJ TRANSIT

Panelists: John Keller, Executive Director, NJ Turnpike Authority

Panelists: Stephen Dougherty, Executive Director, South Jersey Transportation Authority

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AUDITORIUM #2 – Video on Demand Presentations

Video on Demand Presentations. These sessions may be viewed any time (24/7) beginning October 20, 2020 to November 19, 2020. If viewers have questions for the presenters on October 20th, a chat button is available as part of the pre-recorded video as you are watching the presentation. Presenters for Video on Demand Presentations have been asked to monitor their chat dialogue throughout the day and answer all questions and comments. From October 21-November 19, 2020, viewers may email questions to the presenters. Presenters emails are listed at the end of each presentation video. After October 20th, all Q&A and comments will be saved for viewing.

19. NJ TRANSIT COVID-19 Planning Response

Room: Auditorium # 2 Length: 0:58:40

NJ TRANSIT will provide an overview of various activities undertaken as part of their COVID-19 planning response. Todd Discala will discuss the overall planning effort including setting up regional planning workteams for collaboration among peers. Matthew Safer will discuss leveraging internal planning and operations data along with big data tools to track trends. Fred Storey will discuss outreach to business and industry with the assistance of the Transportation Management Associations (TMAs). Chelsea Ramos will discuss research on UV technology for sanitizing vehicles and Susan O'Donnell will discuss customers surveys that have been conducted to better understand customers travel patterns throughout the pandemic.

Moderator: Todd Discala, Director Trans-Hudson and Intermodal Planning

Presenter: Chelsea Ramos, Environmental Services Technical Specialist

Presenter: Mathew Safer, Senior Director, Forecasting

Presenter: Fred Storey, Manager, Community Mobility

Presenter: Susan O'Donnell, Senior Director, Business Analysis and Research

20. (NJ DOT) NJ's Award-Winning State Transportation Innovation Council (STIC)

Room: Auditorium # 2 Length: 1:13:21

STIC brings together public and private transportation stakeholders to spearhead and rapidly deploy innovations. In this session, you'll learn how the NJ STIC became a leader and how we continue to foster a strong culture for innovation within the Garden State. We'll explore several examples in excellence, including innovations that were put into practice years ago and are still proving successful. Come meet some key transportation innovators from around the state and get inspired!

Moderator: Amanda Gendek, Manager, Bureau of Research, NJDOT

Presenter: Michael Russo, Assistant Commissioner, Planning, Multimodal & Grants Administration, NJDOT

Presenter: Helene Roberts, Innovation Coordinator, NJ Division Office, FHWA

Presenter: Sal Cowen, Senior Director, Transportation Mobility, NJDOT

Presenter: Julie Seaman, Project Manager, Local Aid, NJDOT

Presenter: Robert Blight, Sr. Engineer, Surface Design, NJDOT

Presenter: Glenn Stott, Program Manager, NJDOT

21. (NJ DOT) The New Jersey 2020 Strategic Highway Safety Plan

Room: Auditorium # 2 Length: 1:09:47

The New Jersey Strategic Highway Safety Plan is a data driven, collaborative blueprint to drive down fatalities and serious injuries on all public roads. The Strategic Highway Safety Plan is meant to be a statewide plan that cooperatively establishes strategies involving education and awareness, law enforcement, emergency response, and infrastructure improvements. This session will provide an overview and status of the Strategic Highway Safety Plan 2020 Update.

Moderator: William Riviere, Pr. Planner, Safety, Bicycle & Pedestrian Programs, NJDOT

Presenter: Khalid Shaikh, Project Engineer, Safety, Bicycle & Pedestrian Programs, NJDOT

Presenter: Jeevanjot Singh, Section Chief, Safety, Bicycle & Pedestrian Programs, NJDOT

Presenter: Daniel LiSanti, Manager, Safety, Bicycle & Pedestrian Programs, NJDOT

22. (NJDOT) Transportation and Climate Change Resiliency

Room: Auditorium # 2 Length: 0:37:47

This presentation will discuss efforts being taken by New Jersey to make our State resilient to climate change. In addition to the overall efforts initiated by the New Jersey Department of Environmental Protection, pursuant to Governor Murphy's leadership, the New Jersey Department of Transportation will discuss its approach on how it is becoming a resilient NJDOT.

Moderator: Elkins Green, Director, Division of Environmental Resources NJDOT

Presenter: David Rosenblatt, Asst. Commissioner of Climate and Flood Resilience, NJDEP, Chief Resiliency Officer for NJ

Presenter: Caroline Birsner, Environmental Specialist 2 in the Division of Environmental Resources, NJDOT

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23. Goods Movement & Freight Planning at the NJTPA

Room: Auditorium # 2 Length: 1:11:00

The North Jersey region is the platform for distribution of goods to one of the largest, richest consumer markets on earth; it's home to the largest port on the Atlantic Coast and one of the nation's largest air cargo operations. A critical scale like that requires innovative ideas! This session spotlights three exciting and forward-thinking freight planning and goods movement initiatives led by the NJTPA.

Moderator: Charles Kenny, Middlesex County Freeholder & NJTPA Third Vice Chair

Presenter: Anne Strauss-Wieder, Director Freight Planning, NJTPA

Presenter: Kaitlynn Davis, Manager, Database and Application Development, NJTPA

Presenter: Jakub Rowinski, Manager Freight Planning, NJTPA

Presenter: Chris Lamm, Senior Associate, Freight Planning, Cambridge Systematics, Inc.

Presenter: Scott Parker, Senior Project Manager, Jacobs Engineering

24. BSEE and PSEE, Effective Bicycle and Pedestrian Education...and Enforcement!

Room: Auditorium # 2 Length: 0:18:47

Bicycle Safety Education and Enforcement (BSEE) and Pedestrian Safety Education and Enforcement (PSEE) are collaborative education and enforcement programs for communities. They first and foremost provide an opportunity to educate communities on bicycle and pedestrian laws and community expectations. They also provide the added benefit of enforcement of the law, because after all, laws that aren't enforced are ignored. Come learn about this community opportunity for effective education and enforcement, a growing need with the continued increase of biking and walking in our communities!

Presenter: Ranjit Walia PP/AICP, Founder/CEO, Civic Eye Collaborative

25. COVID-19 – Challenges (Pre-Recorded) Webinar

Room: Auditorium # 2 Length: 1:44:12

A COVID-19 Challenges Webinar was convened by the Northeast Association of State Transportation Officials (NASTO) representing the Departments of Transportation of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland and the District of Columbia, among others. The US Executive Director of FHWA also attend to listen and to show support of the challenges being navigated.

The follow topics were discussed during the webinar. • Effective Communication • Teleworking Technology and Personnel Management • Public Involvement • Construction • Operations and Maintenance • Revenue Impact on State Transportation Fund • Transit • Aviation

26. Connected & Autonomous Vehicles: 2020 and Beyond

Room: Auditorium # 2 Length: 1:00:30

Leading experts from the private and public sector will present attendees with several new and exciting developments with connected & autonomous (CAV) and electric vehicles (EV). CAV experts from the engineering sector, state government officials and transportation advocates will discuss current and developing advances in CAV, elements of the Governor's Energy Master Plan that promote electric vehicles, and give an update on the work of the NJ Transportation Agency Partnership's (NJTAP) CAV subcommittee.

Moderator: Anthony Attanasio, President, Hawk Strategies, LLC

Presenter: Cathleen Lewis, Outreach Coordinator for the Division of Clean Energy, NJ Board of Public Utilities

Presenter: Dan Corey, Associate Vice President - ITS Deputy Practice Leader/Deputy National ITS Practice Leader, AECOM

Presenter: Suzanne Murtha, National Lead for Connected and Automated Technologies, AECOM

27. Community Transportation - Change is Coming... Promising Technologies that Are Reshaping Community Transit Services

Room: Auditorium # 2 Length: 1:07:51

This session will discuss how emerging and new technologies (e.g. autonomous vehicles, specialized smartphone apps, online payments systems) are changing and will continue to change community transit and paratransit services moving forward, in terms of rider interface with service delivery and via other means. The session will spotlight the impacts some of these technologies are having now and may have in the near future for both service providers and riders.

Moderator: Janelle Rivera, Manager, Office of Local Program and Min Bus Support, NJ Transit

Presenter: Michele Stiehler, Director, NJ Transit Access Link

Presenter: Daniel Mulraney, Transportation Director, Cape May Fare Free Transportation

Presenter: Andrea Lubin, Senior Researcher, RU VTC

Presenter: Jack Dean, Program Director, NJ Transit

Presenter: Dr. Cecilia Feeley, Ph.D., Transportation Autism Project Manager, Rutgers CAIT

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- 28. Finding Local Match: Successful Models for Increasing Service through Federal and State Transit Grants**
Room: Auditorium # 2 Length: 1:14:54
(Community Transportation) - One of the major barriers for community transit operators seeking to expand services is developing local match funding for federal and state transit grants. This workshop will describe how a partnership between the Pascale-Sykes Foundation and NJ Transit has resulted in the leveraging of over \$7 million in local match against NJ Transit and Federal Transit Administration (FTA) operating grants, producing new services in three South Jersey counties since 2013. The panelists will also discuss other national examples of foundation funding being used to provide local match for FTA grants and potential applications here in NJ.
- Moderator:** Patrick Farley, Program Director, Cross County Connection TMA
Presenter: Steve Fittante, President, Loreda Policy Research, Inc.
Presenter: Ronda Urkowitz, Executive Director, Cross County Connection TMA
Presenter: Richelle Todd-Yamoah, Vice President of Programs and Operations, Pascale Sykes Foundation
- 29. Leveraging Business Diversity for Project Success**
Room: Auditorium # 2 Length: 1:01:58
Agencies and organizations are increasing goals and oversight programs for M/W/DBE participation; in response, large firms are embarking on various means to identify, engage and mentor these businesses as part of a larger project team. Join us as we discuss opportunities, challenges, approaches and lessons learned in this evolving landscape.
- Moderator:** Alexa Gangemi, Senior Project Manager, HNTB
Presenter: Katie Theis AICP, RLA, LEED AP, Principal Planner/Designer, HNTB
Presenter: Zenobia Fields, Senior Policy & Program Advisor, NJDOT
Presenter: Tara Dowdell, President, Tara Dowdell Group
Presenter: Glenessa Gordon, P.E., MBA, General Manager, Office of Diversity and Inclusion, Port Authority of NY&NJ
- 30. Virtual Public Meetings: A Short-Term Solution with Long-Term Benefits**
Room: Auditorium # 2 Length: 1:29:06
Learn how agencies pivoted to virtual Public Information Centers (PIC) to keep projects advancing when social distancing requirements prevented in person meetings. Virtual PICs include audio/video presentations, instant polling, surveys for questions and comments, fact sheets, and other resources hosted on the Internet. We'll discuss how was it done for transportation projects like NJDOT I-80/Route 15 Interchange Improvements and NJDOT I-80 Rockfall Mitigation and why virtual meetings here to stay?
- Moderator:** Joann Papageorgis, PP, Senior Project Manager, Dewberry
Presenter: Olivia Dolan, ENV SP, Environmental Scientist and Outreach Technology Coordinator, Dewberry
Presenter: Sascha Frimpong, Director of Local Project Development, North Jersey Transportation Planning Authority
Presenter: Megan Fackler, Manager of Government and Community Relations, New Jersey Department of Transportation
Presenter: Vanessa Holman, Deputy Chief of Staff, New Jersey Department of Transportation
Presenter: Dana Hecht, Assistant Director, Port Authority of New York & New Jersey
- 31. Ethics for Engineers**
Room: Auditorium # 2 Length: 1:00:31
This presentation focusing on Ethics for Engineers is a Power Point presentation touching on important aspects where ethical rules need to be followed. Some New Jersey and New York rules will be covered including processes for ethical complaints, basic ethical rules, what constitutes professional misconduct, conflicts of interest, etc. Examples of a few case studies will be discussed involving ethical complaints or ethical questions that were resolved through the Board of Ethical Review with the National Society of Professional Engineers.
- Presenter:** Douglas R. Halstrom, Esq., L'Abbate, Balkan, Colavita & Contini, LLP
- 32. Promoting a More Sustainable New Jersey: New Jersey Transit and the Energy Master Plan**
Room: Auditorium # 2 Length: 1:18:29
This session will provide insight into NJ TRANSIT's sustainability strategies that were outlined in its 10-Year Strategic Plan. NJ TRANSIT has identified Transit Oriented Development, Zero Emission Vehicles and Resilience as areas for initial focus. Come hear about current projects and futures plans in each area.
- Moderator:** Steve Eget, PE CEM, Sustainability Group Manager, Dewberry
Presenter: John Geitner, CHMM, Senior Director Environment, Energy, and Sustainability, New Jersey Transit
Presenter: Steven Jenks, PhD, Manager Energy and Sustainability, New Jersey Transit
Presenter: Richard Mroz, Senior Director of Strategy and Regulatory Affairs, Archer Public Affairs

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- 33. Roadway Safety - A Distinct Discipline**
Room: Auditorium # 2 Length: 1:11:54
With increasing emphasis being placed on consideration of safety in all aspects of transportation management, the need to recognize roadway safety as a distinct discipline became evident. The Transportation Professional Certification Board developed a Road Safety Professional Certification (RSP) with two levels of certification: RSP Level 1 and RSP Level 2- two separate distinct disciplines for certification: Infrastructure Safety and Behavior Safety.
Moderator: Thomas P. Di Chiara, Director, Environmental Services, Arora and Associates, P.C.
Presenter: Priscilla Tobias, Manager, Arora and Associates, P.C.
- 34. Leveraging Technology to Optimize Operations**
Room: Auditorium # 2 Length: 0:32:38
Integrating technology and innovation into your culture can provide opportunity for growth AND relieve headaches. Learn the benefits of a more formalized Digital Transformation Strategy, and how to use it to optimize operations. Understand the value of capturing data from your assets and the opportunities it brings to access critical information remotely and stimulate a more preventative strategy, vs. reactive. Improve safety planning, remote site access, site walkthroughs for planning/construction, and enhance construction progress reviews.
Moderator: Mark Boris, Vice President, Public & Private Infrastructure, Borton Lawson Engineering
Presenter: Walt Stout, Business Development Leader, Precise Visual Technologies
Presenter: Heather Heeter, Vice President, Public & Private Infrastructure, Borton Lawson Engineering
- 35. Bike-Friendly Resurfacing at Intersections - Optimizing Multimodal Connections**
Room: Auditorium # 2 Length: 0:25:13
The DVRPC Bike-Friendly Resurfacing Program has identified roads for potential bike-friendly improvements as part of regularly scheduled resurfacing projects. When roadways are chosen for bike facility implementation, some intersections present safety and connectivity challenges that must be addressed simultaneously. In this session we will provide examples for incorporating proposed bike lanes safely and comprehensively through intersections. We will cover existing conditions and proposed alternatives at two study locations within Mercer County.
Moderator: Sarah Moran, Manager, Mobility Analysis and Design, DVRPC
Presenter: Kelsey McElduff, Transportation Engineer, DVRPC
Presenter: Camden Palvino, Transportation Engineer, DVRPC
Presenter: Matthew Zochowski, Assistant Transportation Planner, Mercer County
- 36. Commuter Benefits, New Jersey's Statewide Transit Benefit Ordinance and Post-Covid Commuting**
Room: Auditorium # 2 Length: 0:59:04
Commuter Benefits (aka Transportation Fringe Benefits) are employer-provided benefits designed to promote transit for commutation. Using a transit benefit, employees do not pay Federal income taxes or FICA on their transit or vanpool commuting costs. Employers reduce their share of FICA on that amount while helping to reduce congestion. Further, New Jersey is the first state to adopt a statewide transit benefit ordinance and it serves as a model for states and municipalities. This session will focus on the benefit, the status of the NJ ordinance and how it can be used post-Covid.
Moderator: David Judd, Transportation Consultant
Presenter: Stacy Bartels, Manager, Office of Marketing and Commuter Services, DVRPC
Presenter: Pat Battersby, Senior Director, Marketing & Business Development, NJ Transit
Presenter: Daniel Callas, President, TransOptions, Inc.
Presenter: Shane Mitchell, Legislative Director, Senator Loretta Weinberg
- 37. Disruption and Resilience: Adaptation and Flexibility for a Region in Crisis**
Room: Auditorium # 2 Length: 1:02:34
The region's MPOs and COGs have repeatedly been on the front lines of crises that have caused acute disruption for these agencies and brought transformative changes to the New York City metropolitan region and the world beyond. This session will include a panel discussion with representative agencies from the region's Metropolitan Area Planning (MAP) Forum, NJTPA, LVPC, and NYMTC, to discuss how their operations and communications have adapted to the COVID-19 public health emergency and other severe disruptions.
Moderator: Leslie Black, Director of Community Engagement Services, Fitzgerald & Halliday, Inc. (FHI)
Presenter: Mary Ameen, Executive Director, North Jersey Transportation Planning Authority (NJTPA)
Presenter: Becky Bradley, Executive Director, Lehigh Valley Planning Commission (LVPC)
Presenter: Gerry Bogacz, Assistant Director for Planning and Program Management, New York Metropolitan Transportation Council (NYMTC)

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38. **Simulation for Construction Staging, Traffic Mitigation and Work Zone Analyses**
Room: Auditorium # 2 Length: 1:00:07
This presentation will describe use of traffic simulation applications for NJ construction projects including lessons learned.
Presenter: Mark Yedlin, Director of Simulation Modeling Services, GPI
39. **Parking and Parking Apps - What is Successful and What Will Be Coming Next?**
Room: Auditorium # 2 Length: 1:05:21
Hear from three experts in the parking industry about new ways to think about the parking of our cars and the recent challenges and opportunities brought about by COVID 19. The parking landscape has changed and transit parking in the downtowns is especially impacted. Join us to hear of the current trends and some ideas on how the pandemic is making way for the creation of future initiatives.
Moderator: Liza Betz, AICP, PP, Transportation Planning Manager, Union County, NJ
Presenter: Lex Blum, Northeast Regional Sales Manager – Northeast, ParkMobile
Presenter: Joe Colangelo, CEO, Boxcar, Inc.
Presenter: Jim Zullo, AICP, CAPP, LEED AP, Vice President, Tim Haahs
40. **The Art of Service Life Design**
Room: Auditorium # 2 Length: 1:11:17
In the United States, when considering durability of bridges, our current specifications use a “broad brush stroke approach” by considering fatigue cycles and an empirical approach to address exposure to chlorides on concrete elements. Probabilistic Service Life design is a better way to examine bridges and the component resistance to the elements and the demands on the structure specific to the site. This presentation will also look at grouted post-tensioned structures durability and discuss the service life design of recent large infrastructure projects in an open panel discussion.
Presenter: Jorge Suarez, P.E., Vice President, National Bridge Practice Leader, STV Incorporated
Presenter: Chris Ball, Vice President, Vector Corrosion Technologies
41. **New Jersey: Transit on the Lookout to Fight Human Trafficking**
Room: Auditorium # 2 Length: 0:38:14
An estimated 40 million people worldwide are exploited for commercial sex or forced labor. Human trafficking happens across the US, including in NJ. Traffickers take advantage of transit for their illicit activities, using transit to recruit or move their victims. Victims also rely on transit for escape. This session will provide information about human trafficking, its intersections with transit, and offer free resources for participants to take back with them to train their staff.
Presenter: Annie Sovcik, Program Director, Busing on the Lookout (BOTL), Truckers Against Trafficking
42. **Introduction to Movable Bridges**
Room: Auditorium # 2 Length: 0:57:05
The presentation provides an introduction to movable bridges, their types, advantages, and the different disciplines involved in movable bridge design. Participants will be able to learn about the different types of movable bridges, the different types of bridge machinery, bridge operation and the different factors to be taken into consideration during movable bridge construction.
Presenter: Israe Zizaoui, P.E., Senior Mechanical Engineer, STV Incorporated
43. **Vivarail Pop-Up Metro and Battery Train Applications for New Jersey**
Room: Auditorium # 2 Length: 0:19:07
Modular propulsion trains are currently built by Vivarail for services on the national network in the UK and are offered as battery, hybrid, third rail and diesel options. They will be introduced later this year in the USA for services operated under temporal separation such feeder shuttles and proof-of-concept demonstration operations on light density freight lines. The Vivarail battery train is completely emission-free and won the Environment Award at the UK's Rail Industry Innovation Awards.
Presenter: Henry Posner III, Chairman, Railroad Development Corporation

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44. What is the Future of Freight on Major Railroads?

Room: Auditorium # 2 Length: 0:36:00

As customers continue to search for transportation modes which are faster and/or cheaper, how will freight railroads react to the loss of coal business? Can intermodal traffic keep pace with trucks? Can railroads develop competitive short haul traffic?

Moderator: Kelvin MacKavanagh, DVRPC Goods Movement Task Force

Presenter: James Blaze, Contributing Editor, Railway Age Magazine

45. Experimental Pop-ups (ExPo): The Thrills and Challenges of Implementing Temporary Projects in the DVRPC Region

Room: Auditorium # 2 Length: 1:14:06

This session will share the basics of experimental projects in the DVRPC region: program development, funding, partner collaboration, transportation regulations, and implementation. The speakers will explain this process using pilot projects they have implemented, or are planning, in the DVRPC region as examples. Attendees will leave the session with an understanding of the power of pop-up transportation projects and an appetite for implementing such projects in their communities!

Moderator: Logan Axelson, Senior Transportation Planner, Office of Transit, Bicycle, and Pedestrian Planning, DVRPC

Presenter: Betsy Mastaglio, Manager, Office of Transit, Bicycle, and Pedestrian Planning, DVRPC

Presenter: Matthew Broad, Community Health and Wellness Manager, Trenton Health Team

Presenter: P. Timothy Phelps, Executive Director, Transportation Management Association of Chester County (TMACC)

Presenter: Matthew Zochowski, Assistant Transportation Planner, Mercer County

46. Current Developments in the Motor Carrier Industry

Room: Auditorium # 2 Length: 1:03:20

How has Covid-19 affected truck rates, the availability of trucks and containers, the wages and treatment of drivers, and market conditions for LTL and truckload carriers?

Moderator: Kelvin MacKavanagh, DVRPC Goods Movement Task Force

Presenter: Bill Cassidy, Senior Editor - Trucking and Domestic Transportation, *The Journal of Commerce*

Presenter: Dean Croke, Principal Analyst, DAT iQ

47. Evaluating Equity in Pennsylvania: A Framework to Analyze Title VI and Environmental Justice (EJ) Considerations in Transportation Improvement Programs (TIPs) and Plans

Room: Auditorium # 2 Length: 0:45:00

Through a partnership between PennDOT, FHWA PA, and regional MPOs, Pennsylvania has developed a scalable framework to analyze Environmental Justice and Title VI considerations in planning. The framework recommends core elements and data sources, and outlines an evaluation process. Attendees will be provided with an overview of the intentions of Title VI and EJ, a summary of the collaborative process to develop this technical assistance, and details from DVRPC's experience and lessons learned implementing this analysis framework during the development of the FY2021 TIP for Pennsylvania, with a focus on how this framework could be applied to TIPs and plans in New Jersey.

Presenter: Shoshana Akins, Public Participation Planner, DVRPC

Presenter: Jennifer Crobak, Planning Program Manager, FHWA - PA Division

Presenter: Jesse Buerk, Manager, Capital Project Development, DVRPC

48. The Trials of Getting County Trails from Concept to Construction

Room: Auditorium # 2 Length: 1:18:23

The 'lessons learned' along the way from concept to construction show how Morris and Camden Counties have made the process work. The design details are great, but they'd never have gotten to those without ushering the projects successfully through approvals and land acquisition. Morris County had a long timeline from Feasibility to Final Design for the NYS&W Path. That involved a negotiation with a railroad company, environmental coordination, and varied municipal support and involvement. Camden County is advancing The LINK trail county wide between the City of Camden and Atlantic County. Leveraging support from advocacy groups. Each of these projects could be great tangible examples that will quickly cover: Trail planning history, Feasibility, Design, Maintenance Plans and Marketing and Activating Trails.

Moderator: Michael Dannemiller, Principal Engineer, NV5, Inc.

Presenter: Jack Sworaski, Director, Camden County Department of Parks, Division of Open Space & Farmland Preservation

Presenter: Chris Vitz, Morris County Engineer

Presenter: Anya Saretzky, Rails to Trails Conservancy

Presenter: Matt Ludwig, Project Manager, NV5, Inc.

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49. **Great Guides, Blueprints & Policies to Making Inspirational Projects Happen**
Room: Auditorium # 2 Length: 1:01:45
Need inspiration and guidance on how to improve walking and bicycling environments in and around your town? Find out how resources and funding can be used to address health, safety, equity, and quality of life in your community, through new resources including the NJDOT/Together North Jersey Planning for Greenways Guidebook, Conservation Blueprint mapping tool, and Complete & Green Streets for All Model Policy & Guide.
- Moderator:** Michael Dannemiller, Principal Engineer, NV5, Inc.
Presenter: Elise Bremer-Nei, Bicycle/Pedestrian Coordinator, NJDOT
Presenter: Suzanne Ishee, Director, NJIT Hub for Creative Placemaking
Presenter: Tim Brill, Central Jersey Project Manager, New Jersey Conservation Foundation
Presenter: Leigh Ann von Hagen, Rutgers VTC
50. **Multimodal Mobility in the Middle of New Jersey**
Room: Auditorium # 2 Length: 1:07:30
Somerset and Mercer Counties have been actively planning the development of county-wide multimodal networks. This session includes summaries of their plans for integrating bicycle and pedestrian facilities and panel discussion of challenges and successes for implementation in the context of multiple jurisdictions and sponsors.
- Moderator:** Michael Dannemiller, Principal Engineer, NV5, Inc.
Presenter: Matt Lawson, Transportation Planner, Mercer County
Presenter: Andras Holzmann, Senior Planner, Somerset County
Presenter: Jerry Foster, Transportation Safety Educator and Safe Routes to School Coordinator, Greater Mercer TMA
51. **Road Safety Audits: The Kind of Audits You Don't Mind Getting!**
Room: Auditorium # 2 Length: 1:01:54
The NJTPA partners with NJDOT to offer Road Safety Audits (RSA) to towns and counties in the NJTPA region. RSAs are a federally proven safety countermeasure that looks at potential road safety issues and opportunities to improve safety for all users. This session includes program info and real-world examples of how RSAs have led to projects funded through the NJTPA's Local Safety Program.
- Moderator:** John Bartlett, Passaic County Freeholder & NJTPA First Vice Chair
Presenter: Aimee Jefferson, Principal Planner: Safety Programs, NJTPA
Presenter: Jose Sieira, Director of Traffic and Transportation, Hudson County
Presenter: Michael Lysicatos, Planning Director, Passaic City Department of Planning & Economic Development
52. **An Introduction to Virtual Design & Construction (VDC) for Infrastructure & Facilities Projects**
Room: Auditorium # 2 Length: 0:51:30
An overview of common digital tools and strategies for infrastructure and facilities projects. Begins with a brief primer on Virtual Design & Construction (VDC) and Building Information Modeling (BIM) in the current industry. Then, proceeds into examples and case studies of VDC in action on local projects.
- Presenter:** Pierce Reynoldson, RA, Director of VDC & Technology, Entech Engineering, PC
Presenter: Tricia Bacchus, LEED BD+C, BIM Manager, Entech Engineering, PC
53. **Traffic and Parking Nightmares**
Room: Auditorium # 2 Length: 0:51:02
Between ride hailing services such as Uber and Lyft, e-commerce, and Uber Eats, traditional traffic and parking patterns are changing, as are land uses. This session will focus on some of these new land uses, how traffic patterns are changing, and cover recommendations for changes to parking ordinance requirements.
- Moderator/Presenter:** Gordon Meth, P.E., P.P., PTOE, PTP, RSP1, Transportation Expert Witness, Robson Forensics
Presenter: Donna Holmqvist, AICP/PP, CEO and Founder, Preferred Planning Group LLC
Presenter: Lee Klein, P.E., PTOE, Founder, Klein Traffic Consulting

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54. When Your Road is a Dam

Room: Auditorium # 2 Length: 1:16:53

Many state, county and local roadway embankments (and some railroad embankments) also serve as dam embankments, holding back lakes for recreation, water supply and other uses. With this comes challenges in design with geotechnical, hydrologic and hydraulic conditions which are quite different from that of a typical roadway or railroad embankment. This presentation will touch on these design differences when facing reconstruction or rehabilitation of a bridge or roadway embankment serving as a dam.

Presenter: John Ritchey, PE, Project Consultant, French & Parrello Associates

Presenter: Christopher Marx, PE, Project Manager, French & Parrello Associates

55. Projecting EV Distribution and Charging Demand: DVRPC/UC Davis's EV Planning Toolkit

Room: Auditorium # 2 Length: 0:24:11

Over the past several years, DVRPC has been working with the UC Davis Plug-in and Hybrid Electric Vehicle Research Center to calibrate their GIS Electric Vehicle (EV) Planning Toolbox for MPOs to the Greater Philadelphia region. This toolkit is run in ArcGIS and allows users to project where EV owners will live, work, and charge. This session will provide an overview of the tool and how it works, as well as possible applications for its uses in EV planning by various stakeholders.

Presenter: Adam Beam, AICP, Research Analyst, Office of Energy and Climate Change Initiatives, DVRPC

56. Productizing Safety Measures Based on Data Driven Metrics & Artificial Intelligence

Room: Auditorium # 2 Length: 0:29:23

Overview of how Miovision aided Vision Zero initiatives from multiple agencies and turned the most important data and metrics into products that are being used on a daily basis. We will highlight the projects and explore the metrics being used by the agencies for their Vision Zero initiatives while showcasing the power of Artificial Intelligence and how it acts as a backbone to support these products.

Presenter: Carl Puddy, Market Development Executive, Miovision Technologies

57. Arch Bridges: History, Evolution and Modern Practices

Room: Auditorium # 2 Length: 1:01:36

This course describes history, evolution and modern practices of arch bridges. The course also discusses the design and construction of Tied Arch Bridges. Case studies of tied arch bridges will also be presented. Learning objectives include understanding of the history and evolution of arch bridge types and materials; general principles of Tied Arch Bridge design; the various types of arch bridge types; the types of arch bridge support cables – both vertical and network cables.

Presenter: Nick Altebrando, P.E., Vice President / Engineering Chief, STV Incorporated

58. Advancements in Crash Tested Noise Barriers

Room: Auditorium # 2 Length: 0:29:05

Presentation discusses the history and present state of the art of crash tested noise barrier systems with regards to NCHRP-350 and MASH. Current and past system examples are used across North America and within New Jersey.

Presenter: Andrew Weaver, USA Representative, Durisol USA

59. Analyzing Bicycle Activity and Trends During a Pandemic

Room: Auditorium # 2 Length: 0:52:34

Since stay-at-home orders were implemented, bike shops have sold out and bicyclists seem to be everywhere. But are there actually more bicyclists on the road? Historically, transportation experts have struggled to quantify these trends. However, advances in big data resources derived from smartphone devices make it possible to study these travel patterns over time. In this session, Pam Cruz and Ted Reinhold of StreetLight Data will share key insights about changing bike patterns during COVID-19.

Presenter: Pam Cruz, Northeast Territory Manager, StreetLight Data

Presenter: Ted Reinhold, Solutions Engineer, StreetLight Data

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- 60. Onboard and Wayside System Verification and Support (Consolidated Test and Support Systems)**
Room: Auditorium # 2 Length: 0:41:25
Technology is expanding in onboard and wayside systems; Safety Systems, Customer Convenience, IOT, PTC, CBTC and prognostics all require advanced technology. Authorities must commission and maintain State of Good Repair (SOGR) for the life of the products. Advantages of a COTS based support system including reviewing requirements for emulating and verifying system performance prior to integration as well as for SOGR are presented. Technical details covering a modular scalable and configurable support system are included.
Presenter: Charles (Chuck) Kohfeldt, Senior Director, Engineering, Astronics Test Systems
- 61. Overhead Rate Overview**
Room: Auditorium # 2 Length: 0:58:37
Allowable and unallowable costs, benchmarking your overhead rate, navigating common pitfalls when preparing your overhead rate, discussion on when you will need a field rate, and what to know when negotiating your contract.
Presenter: Christine Lazaro, CPA, Senior Manager, WithumSmith+Brown, PC
Presenter: Emily Dudek, MBA, Supervisor, WithumSmith+Brown, PC
- 62. The Three Pillars of Successful Asset Management**
Room: Auditorium # 2 Length: 0:59:16
In this presentation, we will provide an overall Asset Management (AM) approach through a global lens. This will include a discussion, based on proven practice, of the three main pillars of driving a successful AM program: Organization, Performance and Collaboration. Current challenges, advanced concepts as well as specific tools and techniques will be shared. Finally, an overview of Asset Management success stories from around the globe will be provided.
Moderator: Fred Redd, Principal, North Highland
Presenter: Frank van ES, CEO, Twynstra Gudde
Presenter: Mark Len, Master Practitioner, North Highland
Presenter: Joost Meijer, Consultant – Sustainable Asset Management, Twynstra Gudde
Presenter: Stewart Key, Senior Advisor, State of Matter Consultancy
- 63. Managing the Changing Demands for the Curbside**
Room: Auditorium # 2 Length: 0:58:56
The curbside, the main interface between urban land uses and the transportation system, is under new pressures with increasing use of ridehailing, Amazon and other small parcel deliveries, micromobility, etc. This Panel Session features expert practitioners presenting their work to safely and efficiently integrate these new uses alongside legacy curbside uses (parking, commercial loading).
Moderator & Presenter: Scott Le Vine, Senior Planner, Transpo Group & SUNY
Presenter: Dan Suraci, Urban Cycling Solutions
Presenter: Alejandro Henao, National Renewable Energy Laboratory
- 64. Coordinating Environmental Review with Project Design**
Room: Auditorium # 2 Length: 0:42:07
This workshop will provide an overview of the relationship of environmental review as required by the National Environmental Policy Act (NEPA) to project engineering. This will include an overview of the requirements of NEPA, including recent amendments; coordination between the environmental and design teams during development of design and environmental analysis; and examples of projects that integrated environmental concerns into their plans.
Moderator: Julia Cowing, AICP, Senior Vice President, AKRF, Inc.
Presenter: Christopher M. Calvert, AICP, Senior Vice President, AKRF, Inc.
Presenter: Robert Supino, PE, Principal Associate/Structural Engineer, Hardesty & Hanover, Inc.
- 65. Site Safety for Engineers**
Room: Auditorium # 2 Length: 0:45:58
Site safety is crucial to the progress of any construction project. Out of 4,779 worker fatalities in private industry in calendar year 2018, 21.1% were in construction. This presentation covers and provides examples of best practices, policies and procedures for on-site visits and inspections. We also present a legislative history of site safety in New Jersey, engineers' responsibilities for a safe work site and the proper use of personal protective equipment (PPE).
Presenter: Joseph Ragusa, PE, Department Head Infrastructure Services CM/CI, Remington & Vernick Engineers

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- 66. Managing Information to Drive Decision Making**
Room: Auditorium # 2 Length: 0:43:35
With the current state of Transportation Industry rapidly changing, and new technologies (e.g., IoT) becoming available, managing information and data is more important than ever. With proper governance and managing of information, businesses have advanced analytics capability and data visualization tools to drive better decision making. In this session we will discuss how transportation agencies have established and implemented Enterprise Data Management Program strategies.
Moderator: Dan Montgomery, Assistant Vice President, North Highland
Presenter: Ron Marsters, GeoAnalytics Operations Manager, Pennsylvania Turnpike Commission
Presenter: Ala Battikhi, Principal, North Highland
- 67. Procurement in a Post-COVID World to Adapting Procurement Functions for the New Normal**
Room: Auditorium # 2 Length: 0:35:52
The COVID-19 pandemic has elevated the role of procurement for transportation agencies, both in terms of playing a critical role in their cost cutting agendas as well as facilitating the smooth and efficient acquisition of goods and services in a time of crisis. North Highland will explore the extent of change needed in agencies' practices and the challenges they face in terms of implementing and sustaining these measures, while also sharing global examples of procurement transformation successes.
Moderator: Barbara Zietek, Expert Practitioner, North Highland
Presenter: Peter Cotterrell, Master Practitioner, North Highland
Presenter: Ulrick Sebber, Director, Valcon
- 68. Paterson-Newark Transit Market Study**
Room: Auditorium # 2 Length: 0:51:47
An overview of opportunities to create a premium transit corridor linking New Jersey's first and third largest cities, Newark and Paterson. Technical work and outcomes of the Paterson-Newark Transit Market Study will anchor discussion of potential markets and opportunities to link residential and job centers, serve NJ's largest redevelopment site, improve travel times, and bolster environmental justice communities.
Moderator & Presenter: Michael Lysicatos, Planning Director, Passaic Cty Department of Planning & Economic Development
Presenter: Chris Henry, Director of Transportation & Land Use, Fitzgerald & Halliday, Inc.
- 69. Web-based Analytics Advances for Remote Monitoring of Vehicle Traffic Flow and Person Movements**
Room: Auditorium # 2 Length: 1:01:26
Three presentations to summarize recent advances in high- and low-frequency GPS and phone-generated location 'probe' data: 1) The potential for probe data to remotely measure signalized intersection traffic flow metrics by movement (speed, delay, arrival-on-green, & approach splits); 2) Screen lines drawn on maps across plots of vehicle pathways to find user route preferences; and 3) Production of a national person-movement dashboard to monitor public compliance with pandemic travel restrictions.
Moderator & Presenter: Gregory Jordan, Assistant to the Director, CATT Laboratory
Presenter: Steve Remias, Assistant Professor, Wayne State University
Presenter: John Allen, Transportation Faculty Assistant, CATT Laboratory
- 70. How to Adapt Quickly and Effectively to the New Normal**
Room: Auditorium # 2 Length: 0:50:00
In these uncertain times, one of the keys to bringing travelers back on-board public transport is rebuilding trust. Riders need to trust that the transport systems they've relied upon in the past are still safe, dependable and efficient. In this presentation, Moovit will discuss how agencies can utilize apps as rider engagement tools and gain insights to improve operational plans.
Presenter: Michael Funaro, Account Executive, Northeast US, Moovit
- 71. Patching Asphalt and Concrete in Wet Winter Conditions with a Water Activated, Permanent, Patch – Aquaphalt**
Room: Auditorium # 2 Length: 0:15:26
Through a presentation of several case studies, you will find out how to repair potholes permanently, even in wet freezing temperatures. Not all asphalt and concrete patches are created equal. Aquaphalt is the only cold patch that comes with a 3-year guarantee. Find out how to use Aquaphalt and schedule a demonstration to see it in person.
Presenter: Michael Wertheim, National Director of Sales, Aquaphalt
Presenter: Annie Kelley, Northeast Territory Manager, Aquaphalt

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- 72. Bridge Aesthetics Integration into Design**
Room: Auditorium # 2 Length: 0:59:07
Engineering training prepares us to design members for strength and service. On new bridges, how do we design to integrate aesthetics within the bridge form? On bridge preservations and rehabilitations, how do we preserve historic aesthetics while still providing the upgraded strength and service? Each bridge provides a unique opportunity to integrate and incorporate essential structure and ornamental elements that complements the bridge's surroundings and historic character. Some examples of these bridge from throughout Massachusetts, both new and preserving the state's rich historic character.
Presenter: Marian Barth, P.E., Project Manager, STV Incorporated
- 73. Rail Bridge Design**
Room: Auditorium # 2 Length: 0:56:32
A brief overview of Rail Bridge Design and bridge design nuances compared to traditional highway bridge structures. Will address: Understanding the Current Condition and Age of Rail Infrastructure, Understanding Rail Bridge Design Basics, History of Design Loadings.
Presenter: Mike Moskowitz, P.E., CCM, DBIA, Vice President Structures & CM, STV Incorporated
- 74. Evaluating the Mobility Impacts of American Dream Complex Using Vehicle Probe Data**
Room: Auditorium # 2 Length: 0:21:29
The main objective of this research work is to investigate the impact of the American Dream Complex official opening on the surrounding corridors. To this goal, the performance of four surrounding corridors was explored by incorporating travel time inflation (TI) as a performance measure.
Presenter: Parisa Hosseini, Rowan University
- 75. Applying Data Analytics to Improve Safety and Mobility**
Room: Auditorium # 2 Length: 0:33:12
The session will outline case studies of how transportation agencies from across the country are applying data analytics to improve safety and mobility.
Presenter: Jeffrey Bagdade, P.E., P.Eng, PTOE, Northeast Division Manager, Atkins
- 76. Public Sector Meetings Online: Amid COVID-19 Pandemic Crisis and its Aftermath**
Room: Auditorium # 2 Length: 0:53:07
InGroup Inc. envisions hybrid meetings – sessions that incorporate both in-person and virtual interactions – will be the norm going forward, requiring agencies to conduct extensive digital public outreach efforts. Our team shows how to navigate the dizzying array of choices to use online communications more effectively and successfully. The presentation is the culmination of efforts by InGroup's Marlene Bauer, President and Founder, Gary Brolsma, Digital Associate and Kristin Connington, Creative Manager.
Presenter: Ron Marsico, InGroup Senior Project Manager
- 77. Communicating Maintenance of Traffic in 3D**
Room: Auditorium # 2 Length: 0:29:07
Construction staging and maintenance-of-traffic plans can have a huge impact on the public, and communicating these plans is an important part of the public involvement and education process. These plans can be complicated and difficult to explain. This session shows how 3D modeling and visualization can play an important role in communicating maintenance-of-traffic both for public involvement, and for pursuit of construction and design-build projects.
Presenter: Kevin Stewart, Director of Operations, RDV Systems, Inc.
- 78. Virtual Public Involvement Powered by Interactive 3D Visualization**
Room: Auditorium # 2 Length: 0:31:08
Now more than ever, agencies are implementing strategies for Virtual Public Involvement – the use on on-line tools to enhance and expand engagement with the public. Adding virtual public involvement techniques extends the reach of engagement strategies by making stakeholder participation more convenient and interactive. 3D visualization is an important tool for VPI, providing the means to effectively communicate complex design proposals to the public. This presentation will explore techniques and practices for utilizing rapid, low cost visualization to support virtual public involvement activities.
Presenter: Kevin Stewart, Director of Operations, RDV Systems, Inc.

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- 79. Road Safety Audit 3D Technology**
Room: Auditorium # 2 Length: 0:41:40
The Road Safety Audit 3D platform uses a systemic approach to road safety based on precise virtual models of roadway geometry for both designed and existing roads. Data-driven analysis of LiDAR and other 3D scanning technologies is used to identify deficiencies for a variety of safety parameters. Traditional RSA approaches rely solely on historical crash data, showing the WHAT of road safety, but without giving insight as to the physical causes at the root of the numbers. RSA 3D focuses on the WHY, revealing substandard safety-related conditions that underlie crash statistics.
Presenter: Natan Elsberg, CEO & founder, RDV Systems, Inc.
- 80. Keeping Your Head Above (or Below) Water: Understanding Aquatic Ecology and Regulatory Protections**
Room: Auditorium # 2 Length: 1:00:00
This presentation will provide an overview of Federal and NJ State regulations, agency consultations, and survey techniques for aquatic resources planning & permitting as they relate to transportation projects. The presentation will focus on Essential Fish Habitat Analysis (EFH), Endangered Species Consultations, and Submerged Aquatic Vegetation (SAV).
Presenter: Sue Quackenbush, Department Manager, Ecology & Permitting, Amy Greene Environmental, a Davey Company
Presenter: Harry Strano, Senior Project Manager, Amy Greene Environmental, a Davey Company
- 81. NJ Seashore's Finest Train: The Blue Comet (1929 -1941)**
Room: Auditorium # 2 Length: 1:35:36
This video movie shows the Blue Comet's exciting history in rare color and B&W photos with personal accounts of those who rode the train including Frank Reilly, a former railroad official and President of the Central RR of NJ Historical Society, as well as a retired Morris County DOT Director. The Blue Comet was a deluxe and plush train that ran between Jersey City and Atlantic City from 1929 until 1941. The Blue Comet was America's first deluxe train in which there was no premium fare charged and included a full dining car, observation lounge car, and deluxe coaches with triple cushioned bucket seats. It is NJ's most famous passenger train. Photos of the train's only wreck also appear in this presentation.
- 82. The Central RR of NJ: From Coal Mines to NY Harbor (1949)**
Room: Auditorium # 2 Length: 0:38:08
This professionally produced film was commissioned by the railroad to celebrate its 100th anniversary and includes many exciting aspects of the railroad during one of its finest years. It was awarded, in 1949, the best corporate film of the year. Frank Reilly, Retired Director of the Morris County DOT, came across the original 16mm color, sound film more than 40 years ago. On the film canister were the letters NG (for No Good). Frank had a professional movie producer examine and clean it. It was in perfect condition. Upon checking with other railroad officials, Frank learned the film was updated in 1953 to eliminate all the steam locomotive scenes and replace them with diesel locomotives. Added to the end of this film are two silent film videos including the Central RR of NJ's Ashley Planes where freight trains were hauled up the mountain from the Wyoming Valley in Ashly, PA to Mountain Top and the 1926 opening of the massive 4 track wide Newark Bay Bridge, which is over a mile long. Both of these productions for the railroad are very rare.

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Student Poster Sessions will be located in the Exhibit Room. Each Poster Session has been assigned an individual booth and the Poster Team will be able to have live video and/or audio chat to answer Q&A on October 20, 2020.

(POSTER SESSION 1)

Automated Analysis of Surrogate Safety Measures and Non-compliance Behavior of all Road Users at an Intersection

This study presents an innovative artificial intelligence-based video analytic tool to evaluate the surrogate safety measures and non-compliance behaviors of road users at intersections. The proposed work performs detection and tracking with a machine-learning algorithm to extract the trajectory data.

Author: Deep Patel, Rowan University

Co-Author: Dr. Mohammad Jalayer

(POSTER SESSION 2)

Exploring the Relationship Between Commute and Subjective Wellbeing

The research shows how commute negatively impacts our subjective wellbeing. The stress experienced during the commute or getting stuck in traffic worsens our overall life satisfaction. It not only affects our overall life but it also leaves impact on family life, leisure and health. The commute time is increasing so is the traffic congestion, more and more people are spending their time in car. This research can aid policy makers to improve transit planning and make cities/neighborhoods more walkable and bike friendly.

Author: Aditi Manke, Rutgers University

(POSTER SESSION 3)

Application of Intelligent Transportation Systems (ITS) to Reduce Wrong-Way Driving Crashes: A Review of Case Studies

The main objective of this study is to summarize the effectiveness of ITS technologies to mitigate and prevent wrong-way driving crashes based on a review of case studies by transportation agencies.

Author: Parisa Hosseini, Rowan University

Co-Author: Dr. Mohammad Jalayer

(POSTER SESSION 4)

Investigation of Work Zone Crashes in New Jersey Using Support Vector Machine

Work zone crashes have been a growing concern recently across the nation as well as in the state of New Jersey. We collected three years of work zone crash data for New Jersey. We used Support Vector Machine, a supervised machine learning algorithm to train and test our data. To identify the important variables, we used Classification and Regression Tree. Results showed that the crash type, number of vehicles, alcohol involved, lighting conditions, type of vehicles involved and speed limit are the variables that influence the crash severity most and the prediction accuracy of model is more than 95%. Finally, we did the sensitivity analysis of the important crash variables by permutation method and suggested the countermeasures of work zone crashes in New Jersey.

Author: Ahmed Sajid Hasan, Rowan University

Co-Author: Dr. Mohammad Jalayer

(POSTER SESSION 5)

What is the Elasticity of Sharing a Ridesourcing Trip?

Transportation network companies (TNCs) offer a ride-splitting option for ridesourcing trips, allowing users to share the vehicle with others at a lower fare. While encouraging shared rides has environmental benefits, little is known about how price effects the decision to share. Using TNC trip data from Chicago, we investigate the temporal and spatial distribution of authorized ride-splitting trips in 2019. We found that the willingness to share TNC trips was related to the price per mile, total price, and trip duration. We estimate logistic regression and random forest models to determine the marginal price and time effects on the decision to share, which shed light on policies that encourage shared trips.

Author: Sicheng Wang, Rutgers University

Co-Author: Dr. Robert Noland

(POSTER SESSION 6)

Identifying the Potential of Transportation in Trenton

Most transportation analysis has New York and New Jersey as an outlier because the number of trips taken in public transit across both states is significantly high compared to the rest of the United States. This study identified the gaps and potential of transportation in the City of Trenton, which is also the capital and serving as a major regional administrative center in New Jersey. The study investigated the existing regional connectivity, vehicle ownership, income level, land-use change, and analyzed the data using GIS techniques. Furthermore, the study has identified the different potential scenarios using spatial analysis to resolve Trenton's current transportation and land-use issues

Author: Priyanshu Sharma, Rutgers University