Grade Crossing Safety and Railroad Trespass Prevention Workshop

January 30 - February 1, 2024

Rutgers University
Livingston Student Center – Livingston Hall
84 Joyce Kilmer Avenue
Piscataway, NJ 08854

Workshop Goals — One goal is to identify existing and emerging technology designed and used to mitigate, reduce, and ultimately eliminate highway-rail grade crossing and trespasser incidents. Other goals are to raise awareness of the dangers and effects of highway-rail grade crossing and trespasser incidents, to seek out low-cost solutions, and to discuss practicable ideas for technological improvements for vehicular and pedestrian safety at highway-rail grade crossings.

Day 1

Time	Focus	Speakers
7:00 AM-5:00 PM	Registration	Rutgers University Livingston Student Center Auditorium Foyer
8:00 AM-9:00 AM	 Welcome and Introductions Safety briefing Agenda, goals, introductions Welcoming remarks 	Monica Shaw, Transportation Specialist – Federal Railroad Administration (FRA) James Payne, Staff Director – Federal Railroad Administration Amitabha Bose, Administrator – Federal Railroad Administration Barbara Foran, Diagnostic Team Leader – NJDOT Parth Oza, Assistant Commissioner – Capital Program Management
9:00 AM-10:30 AM	Overview of Railroad Incidents FRA Overview of railroad incident data analysis Data analysis of railroad incidents in the New Jersey/New York Area New Jersey Department of Transportation (NJDOT) Local grade crossing and trespassing updates North Carolina Department of Transportation (NCDOT) Reduction in railroad trespassing incidents Comprehensive cost of rail incidents	Moderator: Michail Grizkewitsch – FRA Chip Greiner, Railroad Safety Inspector – FRA Gregory Spiritosanto, Supervising Engineer – NJDOT Roger Smock, Rail Safety Consultant, Rail Division – NCDOT
10:30 AM-10:45 AM	Break	
10:45 AM-12:00 PM	 Grade Crossing and Railroad Trespassing Treatments and Tools FRA Low-cost treatments (grade crossing and trespassing) Trespassing and Suicide Prevention Toolkit Artificial Intelligence-Aided Trespassing Detection and Analytics An artificial intelligence-aided system for detecting grade crossing violations and ROW trespassing 	Moderator: Francesco Bedini Jacobini , Program Manager – FRA Marco daSilva , Mechanical Engineer – Volpe Center Asim Zaman , P.E., Project Engineer II – Rutgers University

	Long Island Rail Road (LIRR) ■ LIRR high intensity fencing program	Karl Meyer, Director – Safety Operations, Corporate Safety Department, MTA/LIRR John Kay, Senior Safety Officer – MTA/LIRR
12:00 PM-1:00 PM	Lunch	
1:00 PM-2:30 PM	Community and Public Outreach Engagement New Jersey Operation Lifesaver Overview of railroad trespassing educational and prevention strategies Norfolk Southern (NS) Railroad Police Rail Investigations and Safety Course FRA Overview of blocked grade crossings program Long Island Rail Road/MTA Reflective Delineator Program Waze app to prevent drivers from turning down the railroad tracks off grade crossings Glen Rock, New Jersey Police Department Overview of the Community Outreach Program that addressed railroad trespassing issues	Moderator: Colby Scott, Railroad Safety Inspector – FRA Barbara Foran, State Coordinator – NJ Operation Lifesaver Thomas Jedic, Special Agent – Norfolk Southern Ryan Jones, Railroad Safety Inspector – FRA Karl Meyer, MTA/LIRR Dean Ackermann, Chief – Glen Rock, NJ Police Department
2:30 PM-2:40 PM	Break	
2:40 PM-4:30 PM	Innovation Strategic Safety Planning and Design Considerations for crossing safety design and collaboration Organizing a diagnostic team FRA/NJDOT/Rutgers University Grade crossing treatments Safe House One App, Any Crisis	Moderator: Norma Griffiths, Railroad Safety Inspector – FRA Rick Campbell, Senior Technical Manager – Alfred Benesch & Company Lou Frangella, Supervisory Railroad Safety Specialist – FRA Asim Zaman – Rutgers University Eric Souders, Senior Engineer – NJDOT Eliza Conley-Lepene, Founder, CEO, President – Safe House
4:30 PM-5:00 PM	 Wrap-Up and Next Steps Feedback on discussions Day 2 session overview 	Monica Shaw and Michail Grizkewitsch – FRA Francesco Bedini Jacobini – FRA

Day 2

Time	Focus	Speakers
7:00 AM-4:30 PM	Registration	Rutgers University Livingston Student
		Center Auditorium Foyer
8:00 AM-8:30 AM	Welcome and Introductions	Monica Shaw – FRA
	 Safety briefing 	Michail Grizkewitsch – FRA
	 Agenda, goals, introductions 	Debra Chappell, Deputy Staff Director
	 Welcoming remarks 	– FRA
8:30 AM-10:00 AM	Developing a Safe System Approach	Moderator: Lou Frangella – FRA
	Federal Railroad Administration	Francesco Bedini Jacobini, Program
	 Digitizing Grade Crossings 	Manager – FRA
	University of North Carolina at Charlotte	Srinivas Pulugurtha, Professor of Civil
	 Vehicle crashes on highway segments with a rail grade 	Engineering – UNC Charlotte
	crossing: insights into the key risk factors in North	Rick Campbell – Alfred Benesch &
	Carolina	Company
		R. Michael White, President –
	Pedestrian Considerations	Dirigo Spatial Systems, Inc.

10:00 AM-10:15 AM	 Review of pedestrian issues at grade crossings Rutgers University Externship Program Classifying and quantifying visual distractions at grade crossings Break 	
10:15 AM-12:00 AM	Emergency Services Outreach FRA Review of Law Enforcement Grant Program MTA Police Overview of Metro-North Right-of-Way Task Force Greensboro, North Carolina Railroad Trespassing Task Force How to create a successful trespassing enforcement task force AskRail First responders' accurate, timely data about what type of hazardous materials a railcar is carrying	Moderator: Chip Greiner – FRA Michail Grizkewitsch – FRA Charles Pisanelli, Commander – MTA Police Department Jason Richmond, Security Manager – Metro-North Security Jason Warren, Detective – Greensboro Police Department Andy Elkins, Director of Hazmat Compliance – Association of American Railroads
12:00 PM-1:00 PM	Lunch	
1:00 PM-3:30 PM	Grade Crossing and Trespassing Round Table MUTCD Update FRA/Volpe Center • Engineering versus enforcement • Media and awareness • Predictability and risk • Trespassing issues • Mitigation plans • Next steps	Moderator: Francesco Bedini Jacobini – FRA Debra Chappell, Deputy Staff Director – FRA Esther Strawder, Program Manager, FHWA Dr. Shala Blue, Engineering Psychologist – FRA Scott Gabree – Volpe Center Marco daSilva – Volpe Center
3:30 PM-3:45 PM	Break	
3:45 PM-4:30 PM	Feedback on discussionsDay 3 session overview	Workshop Staff

Day 3

Time	Focus	Speakers
7:00 AM-12:30 PM	Registration	Rutgers University Livingston Student Center Auditorium Foyer
8:00 AM-8:30 AM	 Welcome and Introductions Safety briefing Agenda, goals, introductions Welcoming remarks 	Monica Shaw – FRA Michail Grizkewitsch – FRA
8:30 AM-10:30 AM	Grade Crossing & Trespassing Suicide Prevention FRA/Volpe Center Suicide prevention Metra (Chicago, Illinois) Commuter railroad and suicide prevention perspective Brightline (Florida) Trespassing and suicide prevention efforts along the Brightline Corridor Metro-North/MTA Overview of Metro-North's safety education and community outreach program, TRACKS (Together Railroads and Communities Keeping Safe)	Moderator: Dr. Shala Blue – FRA Scott Gabree – Volpe Center Hilary Konczal, Chief Safety and Environmental Officer – Metra Joe Meade, Director of Safety – Brightline Shelley Prettyman, Vice President System Safety – Metro-North Railroad Jami Spordone, Deputy Director Safety Analytics and Initiatives – Metro-North Railroad
10:30 AM-10:45 AM	Break	

10:45 AM-12:00 PM	Funding Solutions	Monica Shaw and Michail Grizkewitsch – FRA Felipe Toro, Equal Opportunity Specialist – FRA Hugo Vives, Equal Opportunity Specialist – FRA Esther Strawder, Program Manager - FHWA Matthew Lorah, Supervisory Grants Management Specialist – FRA Elena Gonzalez, Grants Management Analyst – FRA
12:00 PM-12:30 PM	ClosingRecap and next steps	Workshop Staff