Grade Crossing Safety and Railroad Trespass Prevention Workshop

January 30 - February 1, 2024

Rutgers University
Busch Student Center – Room 604
604 Bartholomew Road
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 Busch Student
8:00 AM-9:00 AM	 Welcome and Introductions Safety briefing Agenda, goals, introductions Welcoming remarks 	Center Auditorium Foyer Monica Shaw, Transportation Specialist – Federal Railroad Administration (FRA) Mike Long, Director of Railroad Operations and Outreach – FRA 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 Barbara Foran, Diagnostic Team Leader – 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 Long Island Rail Road (LIRR) LIRR high intensity fencing program 	Moderator: Francesco Bedini Jacobini, Program Manager – FRA Marco daSilva, Mechanical Engineer – Volpe Center Scott Gabree, Engineering Psychologist – Volpe Center Asim Zaman, P.E., Project Engineer II – Rutgers University 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 Rail Investigations and Safety Course FRA Overview of blocked grade crossings program Long Island Rail Road Reflective Delineator Program Waze app to prevent drivers from turning down the railroad tracks off grade crossings Glen Rock 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 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 Metropolitan Transportation Authority MTA/LIRR Grade Crossing Strategic Safety Plan 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 Chris Diodato, Senior Director, Strategic Planning & Policy – MTA 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 Busch Student
		Center Auditorium Foyer
8:00 AM-8:30 AM	Welcome and Introductions	Monica Shaw – FRA
	 Safety briefing 	Michail Grizkewitsch – FRA
	 Agenda, goals, introductions 	James Payne, Staff Director – FRA
	 Welcoming remarks 	Francesco Bedini Jacobini – FRA
8:30 AM-10:00 AM	Developing a Safe System Approach	Moderator: Lou Frangella – FRA
	Safe System Approach	T. Bella Dinh-Zarr, PhD, MPH, Senior
	 SSA concepts, resources, examples to prevent injuries 	Advisor, Public Health &
	and deaths and improve rail and road safety	Transportation – Traffic Injury
	TRAINFO	Research Foundation and FIA
	 Blocked crossing prediction and communication 	Foundation (retired National
	FRA's Safety Management Program	Transportation Safety Board)
	Proactive hazard management methods that support	Neil Ternowetsky, Co-Founder –
	continuous safety improvement	TRAINFO
		Darrell Fizer, Transportation
		Specialist – FRA

	 Efforts to ensure applicable Federal, State, and local safety regulations and safety requirements are identified and addressed Pedestrian Considerations Review of pedestrian issues at grade crossings Rutgers University Externship Program Classifying and quantifying visual distractions at grade crossings 	Rick Campbell – Alfred Benesch & Company R. Michael White, President – Dirigo Spatial Systems, Inc.
10:00 AM-10:15 AM	Break	
10:15 AM-12:00 AM	Emergency Services Outreach FRA • Review of Law Enforcement Grant Program Metro North Police • Overview of 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 – Metro North Police Department 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 University of North Carolina at Charlotte • Vehicle crashes on highway segments with a rail grade crossing: insights into the key risk factors in North Carolina FRA/Volpe Center • Engineering versus enforcement • Media and awareness • Predictability and risk • Trespassing issues • Mitigation plans • Next steps	Moderator: Francesco Bedini Jacobini – FRA Srinivas Pulugurtha, Professor of Civil Engineering – UNC Charlotte 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 Busch Student
		Center Auditorium Foyer
8:00 AM-8:30 AM	Welcome and Introductions	Monica Shaw – FRA
	 Safety briefing 	Michail Grizkewitsch – FRA
	 Agenda, goals, introductions 	Francesco Bedini Jacobini – FRA
	 Welcoming remarks 	
8:30 AM-10:30 AM	Grade Crossing & Trespassing Suicide Prevention	Moderator: Dr. Shala Blue – FRA
	FRA/Volpe Center	Scott Gabree – Volpe Center
	Suicide prevention	Hilary Konczal, Chief Safety and
	Metra	Environmental Officer – Metra
	 Commuter railroad and suicide prevention perspective 	Joe Meade, Director of Safety –
	Brightline	Brightline
	 Trespassing and suicide prevention efforts along the Brightline Corridor 	

10:30 AM-10:45 AM	Break	
10:45 AM-12:00 PM	 FRA Funding Solutions FRA Office of Civil Rights Consolidated Rail Infrastructure and Safety Improvements (CRISI) grants 	Monica Shaw and Michail Grizkewitsch – FRA Felipe Toro, Equal Opportunity Specialist – FRA Hugo Vives, Equal Opportunity Specialist – FRA Matthew Lorah, Supervisory Grants Management Specialist – FRA Elena Gonzalez, Grants Management Analyst – FRA
12:00 PM-12:30 PM	Closing	Workshop Staff
	 Recap and next steps 	