

INSTITUTE OF TRANSPORTATION ENGINEERS

MICHIGAN SECTION

Spring Technical Session – Wednesday, April 10th, 2024 East Lansing, MI

Location:

MSU Union

49 Abbot Rd, East Lansing, MI 48824
Hosted by John Engle, Michigan Department of Transportation
Michigan State ITE Student Chapter

Parking: https://www.cityofeastlansing.com/ParkingDowntown/

Meeting Schedule

Check-In/Registration				
8:00 am	Doors Open: Registration, Coffee & Networking			
Morning Session				
Time	Topic	Presenter(s)		
9:05 AM	Introduction	Garrett Dawe, MDOT		
	Meet Garrett Dawe, the new Engineer of Traffic and Safety at MDOT.			
9:15 AM	Lessons Learned from the M-14 & Barton Drive Planning and Environmental Linkages (PEL) Study	Patrick Cawley, AtkinsRealis		
	The presentation will focus on lessons learned for the technical analyses (safety, traffic, and environmental), purpose and need, alternatives analysis, and public/stakeholder engagement. The PEL successfully applied a mix of in-person and virtual public engagement. The presentation will document best practices from the engagement efforts and how they can be applied on other projects.			
9:45 AM	ROW PDF to GIS Conversion	Matt Fitch, MDOT		
	A history of MDOT ROW maps – obstacles and methods for moving towards a GIS.			



0:15 AM	Break			
10:30 AM	MSU Student Poster Session		MSU Graduate Students	
	Israt Khan	Rear-end Crash Risk Estimation and Influence of Heavy Vehicles on Freeway Applying Extreme Value Theory		
	Md Tanvir Ashraf	Conflict Reso Mixed Traffic	lution Behavior of Autonomous Vehicles in Environment	
	Magdalena Cavka		Dynamic Speed Feedback Sign in Transition eeway to Non-Freeway Areas	
	Sagar Keshari		Dynamic Message Sign Messages on Driver Pridges During Winter Weather Conditions	
	Sakar Pahari	Evaluating the Combined Use of Speed Feedback Trailers and Law Enforcement Vehicles at Freeway Work Zone Lane Closures Safety Effectiveness of Sinusoidal Rumble Strips in Rural Highways		
	Vahid Bahrami			
	Amirali Soltanpour		ravels Along Lake Michigan Circuit	
	Behdad Ghafarnezhad	Exploring Impacts of Electricity Tariff and Power Grid Constraints on Charging Behavior and Fast Charging Infrastructure Deployment in Urban Networks: an Activity- based Approach		
	Hamid Mozafari		Iternative Fuel Vehicles in Operation and Asset Strategies to Reduce Fleet Economic and acts	
	Sajjad Vosoughinia	Timetable Syl Network	nchronization Optimization for Urban Rail Transit	
	Akinfolarin Abatan		Driver Performance on Speed-Change Lanes - NCHRP 15-75	
	Yazmin Dasgar	Changes in R the COVID-19	Risk-Taking Behavior Before and After Onset of 9 Pandemic	
	Gagan Gupta		g and Lane Utilization Behavior Approaching Lane Closures	
	Sunday Imosemi		osted Speed Limits and Roadway Design Speed Reduction Zones	
	Matin Mohammadpour	Roundabouts		
	Alireza Darzian Rostami	along the Lak constraints	C Fast Charging Stations for Electric Vehicles re Michigan circuit under various budget	
	Ardeshir Fadaei	Vehicles in La	nd Estimation Targeting Experience of Ego arge-Scale Networks to Replicate Real- Speed Data under Various Operational	



	Ehsan Kamjoo	A Framework for Optimizing the Placement of Dedicated Lanes for Connected Autonomous Vehicles at Large-Scale Transportation Networks			
	Farish Jazlan	Modeling Perception Towards Sustainable Ferries through Ridership Surveys: A Case Study of Michigan Islands			
12:00 PM	Lunch				
	ITE Update		ITE Michigan Board of Directors		
	Afternoon Session				
Time	Topic		Presenter(s)		
1:30 PM	Streamlined EV Ad Effective Travel Ac Terrain	ventures with Cost- ross Michigan's	Dr. Mehrnaz Ghamami, MSU		
	The initiative to establish a comprehensive DC fast charging network aims to enable seamless electric vehicle (EV) travel across Michigan by the year 2030, thereby eliminating range anxiety for EV drivers. The initiative has led to the creation of the Electric Vehicle Charger Optimization (EChO) tool, developed with significant stakeholder input and adaptable for various settings beyond Michigan. It aims to tackle the unique challenges of Michigan's weather, emphasizing the importance of adapting to seasonal demand and technology changes in planning the EV infrastructure. A detailed study of highway travel underscored the need for a strategic approach to placing charging stations in urban areas and to alleviate stress on the electrical grid, integration with distributed energy resources (DER) is analyzed. Additionally, the initiative focuses on enhancing ecotourism by strategically installing EV charging stations around the Lake Michigan Circuit. This ensures tourists have access to dependable and efficient charging, improving their experience in the area. The integration of Level-2 and DCFC stations reflects the project's adaptability to meet EV drivers' needs in the Lake Michigan Circuit, underscoring a dedication to sustainable and innovative transportation solutions.				
2:00 PM	Solving III-Structur Comparisons acros Faculty, and Profes	ss Students,	Dr. Kristen Cetin, MSU		
	problems (i.e., those practice. The work is	e without a defined cor s drawn from a study t	w individuals solve the types of "ill-structured" rect solution) that are common to engineering hat sought to understand differences based on rs that affect the way we approach problem-solving.		
2:30 PM	Break				



2:45 PM	Smart Communities Committee	Greg Kruger, HNTB Danielle Deneau, RCOC John Abraham, Macomb County Pete Savolainen, MSU Tony Geara, City of Detroit	
	Short presentations with Q/A including: -Smart Community Infrastructure Readiness (Detroit)		
	- Michigan State University - A Living Laboratory for Transportation Research: This presentation will provide a high-level overview of mobility research that is occurring across MSU with emphases on smart community applications.		
0.45 DM	-Smart Mobility in Macomb County		
3:45 PM	Closing Remarks		



Fees:

Includes lunch and continuing education seminars with up to **4.0 hours** of Continuing Education Hours (CEH). CEH records will be available online following the event. Please make sure to sign-in at the event.

Payment Due:	ITE Member/ Public Agency	Non-Member Private Industry	Students
EARLY BIRD PRICE (Ends March 27 th)	\$45	\$55	\$10
Regular Payment/Registration	\$55	\$65	\$15

Registration: https://itemichigan.org/?page_id=12580

Continuing education credits: https://itemichigan.org/?page_id=12694

POST-EVENT SOCIAL

Join us on the Graduate hotel's rooftop bar. Great views of East Lansing and a chance to continue to network with professionals and students.

Bar opens at 4:00pm. Drinks are **not** included with registration.

Graduate East Lansing

133 Evergreen Ave, East Lansing, MI 48823

Michigan State University Union

Second Floor, Ballroom



