

Agenda

Micromobility Policy Considerations

C. Cherry

- What have we learned in recent years from trying to define and regulate e-bikes and e-scooters?
- What are some effective policy approaches for micromobility system management?
- How can policy be resilient against rapidly changing micromobility technology?

Electric Bikes (E-Bikes) and Scooters: Technology, Benefits and Risks

D. Chisholm

- Types of e-bikes and scooters
- Future technological advances, developments
- Beneficial uses
- Risks

Designing Routes and Spaces for E-Bikes and Scooters

D. Chisholm

- Identifying existing infrastructure
- Bikes, scooters, cars and pedestrians: what spaces can be shared and how
- Designing for shared use
- Case studies of e-bike and scooter infrastructure and programs

Promoting Use of Light E-Vehicles

J. Crowther

- Urban planning considerations
- Interaction with other transportation services/systems
- Mobility hubs (links to transit)
- Mobility-as-a-service (integrated apps/payment platforms)
- Promoting usage in a way that improves equity

Working with Commercial E-Bike and Scooter Providers

J. Crowther

- Risks and benefits of private bike and scooter sharing services
- Setting up municipal e-bike services
- Goals and planning phase
- Partnering with providers

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Urban Planning and Design for Electric Bikes and Scooters

Live, Interactive Webinar - Monday, March 22, 2021

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Learning Objectives

You'll be able to:

Know key questions to ask when developing micromobility policies.

Describe the basic technology, benefits and risks of e-bikes and scooters.

Plan and **design** routes, spaces and infrastructure for shared use.

Understand how e-bikes and scooters interact with other transportation systems.

Identify issues to consider when setting up services with commercial e-bike and scooter providers.



HalfMoon Education Online Learning Urban Planning and Design for Electric Bikes and Scooters

Live, Interactive Webinar - Monday, March 22, 2021



Learn what issues must be addressed when creating e-bike and e-scooter policies

Examine the technology, benefits and risks of e-bikes and e-scooters

Plan and **design** routes, spaces and infrastructure that include bikes, scooters, cars and pedestrians

Explore emerging strategies that promote micromobility usage while addressing equity issues

Get tips on working with commercial e-bike and e-scooter providers

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Faculty

Christopher Cherry *Professor in Civil Engineering at the University of Tennessee*
Dr. Cherry is a professor at the University of Tennessee. His research interests include bicycle and pedestrian safety and system design; the role of e-bikes, micromobility, and other emerging technologies in the transportation system; multimodal transportation planning and economics; travel behavior and demand; sustainable transportation; and transit security. About half of his research work is focused on the rapid motorization of Asia, with research projects in China. His domestic research agenda includes evaluating safety and system performance of non-motorized and transit systems, as well as commercial vehicles. He also focuses on market penetration and impacts of alternative transportation technologies and fuels. He leads the Light Electric Vehicle Education and Research (LEVER) Initiative, a consortium of universities and industry to explore the role of emerging and potentially disruptive classes of electric vehicles on transportation, sustainability, and health. He is a member of the Transportation Research Board (where he is on the Developing Country Committee and chairs the joint subcommittee on Emerging Vehicle Technologies). He chairs the Society of Automotive Engineers Micromobility Committee. He received an NSF CAREER award that focused on sustainability implications of adoption behaviors of emerging technologies. Dr. Cherry received his BS and MS degrees in Civil Engineering from the University of Arizona and received his PhD degree in Civil and Environmental Engineering from the University of California, Berkeley in 2007.

Derek Chisholm AICP, LEED GA, ENV SP Associate Vice President, AECOM
Mr. Chisholm is a senior-level urban planner and designer with 30 years of experience in multi-modal transportation projects, bike and pedestrian design, and curb use. He has specialized experience in planning and designing for the electric bikes. Through

Webinar Information

Log into Webinar 9:00 - 9:30 am CDT	Break 1:30 - 2:00 pm CDT
Morning Session 9:30 am - 1:30 pm CDT	Afternoon Session 2:00 - 4:30 pm CDT

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AECOM, he has led modeling studies, policy development, and design tasks for ebikes. In his off-time, he designs and builds ebikes. He, his wife and dog enjoy travelling around the City on a three-wheel, two-seat vehicle. He moved to New Orleans after 14 years of progressive experience in Portland, Oregon, including service as a project manager, adjunct professor, and planning commission chair. He is a contributing author for the new ASCE book *Engineering for Sustainable Communities*, and the book *Bicycle Urbanism*. In the book, he lays out the hypothesis of “Middle Modalism” – encouraging planners and engineers to integrate these new vehicle classes into roadway networks. His work has been the focus of a short article in *Time Magazine* and many sessions at regional and national conferences.

Jean Crowther, AICP Principal, New Mobility Leader, Alta Planning + Design, Inc.
Ms. Crowther is an AICP planner with over 17 years of experience fostering change and innovation. As a Principal at Alta Planning + Design, she specializes in sustainable and equitable mobility options and applies critical problem solving to transportation planning. She leads Alta’s New Mobility Group and applies her hands-on experience in program development, community engagement, and project implementation to every project. She is a national leader in micromobility policy, business models, and funding options and works closely with Alta staff and clients to plan for new technology and infrastructure in the public right-of-way. She served on the new Transportation Research Board Forum on Preparing for Automated Vehicles and Shared Mobility, an industry-academic-public sector roundtable of experts on connected and automated vehicle research and deployment.

Additional Learning

Current Issues in Schoolyard Landscape Architecture
- Tues., Feb. 23, 2021 | 11:00 am - 2:30 pm CST
- Wed., Feb. 24, 2021 | 11:00 am - 2:30 pm CST

Construction Scheduling and Cost Control
- Thurs., Feb. 25, 2021 | 9:30 am - 2:00 pm CST
- Fri., Feb. 26, 2021 | 9:30 am - 2:00 pm CST

Current Issues in the Practice of Geoscience
- Fri., Feb. 26, 2021 | 8:30 am - 3:50 pm CST

Pruniversity: Plant Health Through Pruning
- Thurs., Mar. 4, 2021 | 9:00 am - 5:00 pm CST

Parking Structure Design, Construction and Maintenance
- Thurs., Mar. 11, 2021 | 8:30 am - 4:30 pm CST

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Registration

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