

Credit Information

Developing Micromobility Policy and Infrastructure

This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects licensed in all states, and 6.0 HSW continuing education hours to landscape architects in all states except New Jersey.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed a New York-approved continuing education provider for engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2), and §79-1.5(i)(2)). Other states do not preapprove continuing education providers or courses. No credit is offered to landscape architects in New Jersey.

The American Institute of Architects Continuing Education System has approved HalfMoon Education as a sponsor of continuing education (Sponsor No. J885). This course has been submitted for AIA CES approval and is currently pending. Only full participation is reportable to the AIA CES.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6.0 for Certified Planners.

Visit this course listing at www.halfmoonseminars.org for updates on pending credits.

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Developing Infrastructure for Electric Vehicles

This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects licensed in all states.

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The American Institute of Architects Continuing Education System has approved this course for 6.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6.0 for Certified Planners.

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Live, Interactive Webinars

- Developing Micromobility Policy and Infrastructure
- Developing Infrastructure for Electric Vehicles

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Live, Interactive Webinars

Developing Micromobility Policy and Infrastructure

- Wednesday, February 23, 2022 | 11:00 am - 1:45 pm CST
- Thursday, February 24, 2022 | 11:00 am - 2:45 pm CST

Developing Infrastructure for Electric Vehicles

- Monday, March 7, 2022 | 9:30 am - 4:30 pm CST

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LA CES: 6.0 HSW PDHs Certified Planners: CM | 6.0

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AIA: 6.0 LU | HSW Certified Planners: CM | 6.0

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Developing Micromobility Policy and Infrastructure

Wednesday, February 23, 2022 | 11:00 am - 1:45 pm CST (incl. a 15-min break)

Thursday, February 24, 2022 | 11:00 am - 2:45 pm CST (incl. a 15-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: Pending Landscape Architects: 6.0 HSW CE Hours
LA CES: Pending Certified Planners: CM | 6.0

Agenda Day One

Types and Capabilities of Small, Lightweight Electric Vehicles

P. Deppe

Micromobility and the many form factors

- E-bikes and scooters

How infrastructure is the key to adoption

The future of micromobility technologies

Electric Charging Infrastructure

T. Oviatt

The need for charging infrastructure

Technology and capabilities

- Charging stations
- Smartphone applications
- Security and universality

Barriers and opportunities

Future innovations

Agenda Day Two

Docked and Dockless Micro Vehicle Sharing Systems

J. Crowther

Key distinctions

Advantages and disadvantages of different vehicle sharing systems

- Ridership
- Reliability
- Location

Hybrid systems

Implementing and optimizing docked and dockless micro vehicle sharing systems

Managing your Risk and City Insurance Requirements as a Scooter Operator

B. Schuh

Supply chain and product integrity

Processes and controls

Selecting a business model: to dock or not to dock.

Insurance market and limit capacity

Risk transfer vs risk financing

Strategic risk partnerships

Insurance coverages and options

Case Studies in Micromobility Adoption

J. Crowther

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Developing Infrastructure for Electric Vehicles

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Agenda

Types and Capabilities of Electric Vehicles: PEVs, PHEVs, and EVs

EV market introduction

Overview of PEVs, PHEVs, EVs, and ICEs

Barriers and opportunities for PHEVs and EVs

Explore various applications

Charging Infrastructure, Equipment, and Terminology

Basic EV-related terminology and acronyms

Levels and types of EV charging infrastructure

Players in the EV charging space

EV charging equipment requirements

Charging Infrastructure Modeling and Design

Siting and applications of level 2 charging infrastructure

Siting and applications of direct current fast charging infrastructure

Review basic design schematics and design components

Electric Grid Requirements and Commitments from Utilities

Grid and site requirements for level 2 charging infrastructure

Grid and site requirements for direct current fast charging infrastructure

EV make-ready and other typical infrastructure programs

Utility commitments for EV charging infrastructure

Local Requirements and Regulations

Land use implications and consideration of EV charging infrastructure

Land use, zoning, and building code requirements for EV charging infrastructure

Other building standard recognition (e.g. LEED)

Deploying EV charging infrastructure: working with community and potential pitfalls

Incentives, Infrastructure Bill, and Innovations

Incentives and how to find them

Funding available

Infrastructure Investment and Jobs Act details you should know

Innovations on the horizon.

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Faculty

Developing Micromobility Policy and Infrastructure

Peter Deppe is the co-founder and CEO of KUHMUTE. From supporting rights for student-athletes vs the NCAA, to challenging the status quo within urban mobility in a land built for cars, Mr. Deppe's goal is to change the world for the better in his own unique ways. He is a recent Kettering University graduate who founded KUHMUTE together with fellow KU grad Scott Spitler in 2018 during the early rise of micromobility. This was mostly due to the new form of dockless escooters that roamed the world and caused havoc for cities. Together, Mr. Deppe and Mr. Spitler understood there should be an EV charging network experience, for any form factor smaller than a car, and for both shared and owned vehicles. KUHMUTE is a world-class locking and charging manufacturer that supports mobility services all over North America, fulfilling the need as the only universal charging network for micromobility.

Thad Oviatt is the founder and CEO of ParkENT Cycles. He holds degrees in Computer and Electrical Engineering, a master's degree in engineering management, and an MBA. Mr. Oviatt has been studying bicycles and the micromobility market for the past 12 years. ParkENT Cycles makes the world's first universal secure e-bike charging stations which can securely park and charge any e-bike on the market. ParkENT was recently invited to exhibit at the Consumer Electronics Show in 2022. In 2021, they won the TechUnited: Better Planet Challenge and installed their first station at Atlanta Tech Village. They were a committee member for the State of Georgia's Electric Mobility and Innovation Alliance (EMIA) advising on infrastructure for micromobility.

Jean Crowther, AICP is principal and new mobility leader at 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.

Brandon Schuh is SVP Production Liability Leader at Christensen Group Insurance. Mr. Schuh joined Christensen Group in January of 2019 as a senior vice president, products liability and sharing economy leader. Previously, he worked for Hays Companies specializing in products liability and consulted nationally with clients throughout the US. Mr. Schuh also started the Hays Duluth, Minnesota office and managed it from Minneapolis, MN. At Christensen Group, he works with consumer product, sporting goods, recreational products, shared economy and automotive risk, micromobility companies and other areas of high hazard casualty risks. His coverage specialties include general liability/product liability insurance, captives (831b, 831a, segregated cell, pure, group captives), large self-insured retention programs, and product recall. Mr. Schuh graduated from the University of Minnesota (Twin Cities) with a B.A. in Pre-Law. He holds his CLCU designation.

Developing Infrastructure for Electric Vehicles

Sarah R. Davis, AICP Founder + CEO | S.R.D. Consulting, LLC

A champion of emerging innovative land uses, Sarah R. Davis has spent over a decade paving the way for integrating technology and sustainability into our urban, suburban, and rural fabrics. Founder and CEO of S.R.D. Consulting – Sustainable. Renewable. Driven. (SRDC), she leverages her experience in the renewable energy and electric vehicle sectors to advance the clean electrification of our grid and transportation systems. Under her leadership, SRDC is committed to infusing sustainable and equitable approaches into regulations, crafting meaningful relationships built on mutual trust and respect with communities, and developing clear, intuitive, and approachable programs + plans. A land use planning firm based in Denver, Colorado, SRDC is focused on advancing sustainable and zero emission projects and plans. In 2020, SRDC had a banner year, including leading the Gold Hill Resilient Renewable Energy Design Project in Boulder County, Colorado, and the Town of Estes Park, Colorado's Electric Vehicle Infrastructure and Readiness Plan which was recently adopted by the Town Board of Trustees. SRDC was lead project manager and author of the plan.

Prior to pursuing her entrepreneurial aspirations and launching SRDC, she led an interdisciplinary team as Tesla's market lead for EV infrastructure, developing and deploying over 500 Level 2 & 3 (DC-fast charging) connectors throughout the US. During her tenure, she guided the company's overall EV charging strategy throughout the Midwest and West using a regional and local approach as well as managed partnerships with private landowners and utilities. SRDC has deep roots within the solar sector, building off of her work as a project planner for Boulder-based juwi solar, Inc. where she led the due diligence and entitlement effort for utility-scale solar PV projects, installing over 250MW of solar nationwide. SRDC's connections to the solar and emerging energy storage sectors have allowed her to apply lessons learned from integrating into larger utility and local energy generation and demand planning.

Ms. Davis frequently meets with citizens and speaks with groups about EVs, renewable energy, battery storage, and other carbon-free transportation alternatives including micromobility and transit. Her personal car-free lifestyle brings an authenticity to her work in this space. She is a twice graduate from Virginia Tech holding a master's career of Urban and Regional Planning and a bachelor's degree in Public and Urban Affairs, Environmental Affairs. She currently serves as an advisor to the Department of Energy funded Solar@Scale Initiative, is the Micromobility Subgroup co-chair for the Colorado Electric Vehicle Coalition, is a member of the American Planning Association and is a member of the American Institute of Certified Planners (AICP). She speaks regularly at urban planning, transportation, sustainability, and renewable energy conferences. In her free time, she enjoys Colorado's year-round outdoor recreation with her wife and their senior Jack Russell mix Maggie, including hiking, biking, snowshoeing, skiing, paddle boarding, and swimming.