Electrifying the Transportation Sector:
Planning and Designing for Electric Vehicle Usage

Online - Thursday, Dec. 3 and Friday, Dec. 4, 2020

Learn
- the basics of electric vehicle, battery and charging technologies
- the impact of electric vehicle usage on carbon emissions
- how electric vehicle policies have been used to grow (or inhibit) electric vehicle usage

You’ll be able to:
- Describe the basic principles of electric vehicle, battery and charging technology.
- Explain the impact of electric vehicle usage on carbon emissions.
- Identify ways in which electric vehicle usage impacts urban planning, design and construction.
- Analyze the demand for increased charging infrastructure in cities across the U.S.
- Learn about autonomous vehicles, hydrogen fuel cells and other emerging transportation technologies.

Agenda

Presented by Dr. Jairo Garcia

Electrifying the Transportation Sector:
Planning and Designing for Electric Vehicle Usage Day One
Thursday, December 3, 2020 | 11:00 am - 2:15 pm CST (including a 30 min. break)

Electric Vehicle Technology and the Environment
- From The Fritchle to the Tesla: A Century of Innovation
  - The history of EVs
  - Principles of EV technology
  - Hybrid EVs
  - Battery technologies
  - Charging technologies
- Electric Vehicles and the Environment
  - EVs and carbon emissions
  - EVs in a fossil fuel world
  - EVs fed by renewables
  - Microgrids and car-power for homes

Electrifying the Transportation Sector: Planning and Designing for Electric Vehicle Usage Day Two
Friday, December 4, 2020 | 11:00 am - 2:15 pm CST (including a 30 min. break)

Policies and Electric Vehicles
- Who tried to kill the electric car?
- Market transformation and EVs
- Cities and the electrification of transportation
- USA charging infrastructure
- EVs international policies

The Electric Vehicle Future is Now
- The free-carbon economy
- A car-shared economy
- Autonomous vehicles
- Hydrogen versus EVs

Continuing Education Credits

Professional Engineers
- 6.0 PDHs

Architects
- 6.0 HSW CE Hours

AIA
- Pending

Certified Planners/AICP
- CM | 6

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How to Increase Energy Conservation and Provide Electric Car Charging Capabilities
- Fri., Nov. 13, 2020 | 11:00 am - 12:00 pm CST

- How to Design a Cost Effective Permeable Pavement
- Tues., Nov. 17, 2020 | 6:00 - 8:00 pm CST

How to Design for Ice and Snow Loads
- Thurs., Nov. 19, 2020 | 8:30 - 10:30 am CST

How to Design Conservation Developments
- Tues., Nov. 17, 2020 | 8:30 - 10:30 am CST

How to Design for Stormwater Management for Ground Mounted Solar Arrays
- Fri., Nov. 13, 2020 | 10:00 am - 12:00 pm CST

How To Apply the 2015/2018 IEBC to Historic and Relocated Buildings
- Mon., Nov. 16, 2020 | 11:00 am - 12:00 pm CST

Solar Site Assessment
- Fri., Nov. 20, 2020 | 12:00 - 2:00 pm CST

How to Design a Residential Ventilation System: Focusing on Balanced Ventilation
- Mon., Nov. 16, 2020 | 1:00 pm - 3:00 pm CST

How to Design for Ice and Snow Loads
- Tues., Nov. 17, 2020 | 6:00 - 8:00 pm CST

How to Design Conservation Developments
- Thurs., Nov. 19, 2020 | 8:30 - 10:30 am CST

How to Design and Construct a Cost Effective Permeable Pavement
- Mon., Nov. 16, 2020 | 12:00 - 2:00 pm CST

How to Increase Energy Conservation and Provide Electric Car Charging Capabilities
- Fri., Nov. 13, 2020 | 11:00 am - 12:00 pm CST

How to Maximize Your Road Network’s Life through Pavement Preservation
- Fri., Nov. 13, 2020 | 11:00 am - 2:30 pm CST

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