

Asilomar 2015

15th Biennial Conference on Transportation and Energy



Transportation and Energy Policy in a Volatile World

Agenda

August 18–21, 2015
Asilomar Conference Grounds
Pacific Grove, California

Organized under the auspices of the
Energy and Alternative Fuels Committees and the Climate Change Task Force
of the U.S. Transportation Research Board

Hosted by



Tuesday, August 18

Registration – 3 to 6 p.m.

Welcome Reception – 4:30 to 6 p.m.

Dinner – 6 to 7:30 p.m.

Post-dinner Reception – 7:30 to 8:30 p.m.

Wednesday, August 19

Session I – 9 a.m. to 12 p.m.

Welcome and Motivation

Daniel Sperling, *Professor and Director, Institute of Transportation Studies, UC Davis*

Keynote: Setting the Stage—from Volatility to Sustainability

Robin Chase, *Co-Founder, Zipcar*

Mary Nichols, *Chairman, California Air Resources Board*

Session II – 2 to 6 p.m.

Toward Energy Efficient, Low-Carbon Trucks and Goods Movement

Trucks and freight have received far less attention from researchers and policymakers than light-duty vehicles and passenger travel. Policy initiatives have lagged because less is known and because of fears of unintended consequences for local economies. Part A of this session looks at improving the energy efficiency of large trucks; Part B looks at opportunities to reduce the energy consumption, carbon emissions and local pollution of urban goods movement in a way that enhances or at least minimizes any cost to the economy. In Part B, speakers will address alternative fuels, advanced vehicle technologies, more efficient logistics, and mode choice for both the short and long term.

Part A: Improving the Energy Efficiency of Trucks

Moderator:

Don Anair, *Research and Deputy Director, Clean Vehicles Program, Union of Concerned Scientists*

Speakers:

Drew Kodjak, *Executive Director, International Council on Clean Transportation*

“Global Regulatory Landscape of Heavy-Duty Vehicle Fuel Economy Standards”

Karl Simon, *Director, Transportation and Climate Division, U.S. EPA*

“EPA Proposals to Reduce Energy Consumption and GHGs in Trucks”

Discussant:

Sean Waters, *Director, Compliance and Regulatory Affairs, Daimler Trucks North America*

Part B: Toward Clean, Efficient, Low-Carbon Urban Freight

Moderator:

Anthony Eggert, *Program Director, Oil, ClimateWorks Foundation*

Speakers:

Lew Fulton and Miguel Jaller, *UC Davis Institute of Transportation Studies*

“Prospects for Reducing Energy Use and GHGs from Freight Transport”

Cynthia Marvin, *Division Chief, Transportation and Toxics Division, California Air Resources Board*

“California Sustainable Freight Strategy”

Discussants:

Mitch Jackson, *Vice President, Environmental Affairs and Sustainability, FedEx*

Joe Lyou, *President and CEO, Coalition for Clean Air and Governor's Appointee, South Coast Air Quality Management District*

BBQ Dinner – 6 to 9 p.m.

Thursday, August 20

Session III – 9 a.m. to 12 p.m.

Personal Transportation: What Does the Future Hold?

Important shifts are happening in travel demand and cities. For the first time since the advent of the car, car travel per person is flat and perhaps decreasing—not only in the U.S. but in most other developed countries. In the U.S., the number of seniors is projected to double between 2012 and 2050 as the total national population grows by about 85 million. What are energy and environmental implications of this trend or other future travel demand trends? How will the behavior of Millennials and Baby Boomers impact future demand? What might the national implications be of further divergence among metropolitan areas in the level and nature of urban growth? How will automated vehicles and new demand-responsive mobility services change demand? How does expanding air travel intersect with local travel demand? What policies will minimize negative environmental outcomes while enhancing social and economic goals?

Part A

Moderator:

Marlon Boarnet, *Professor, Sol Price School of Public Policy, University of Southern California*

Speakers:

Susan Handy, *Professor, Environmental Science and Policy and Director, National Center for Sustainable Transportation, UC Davis*

“How Travel Demand Has Been Changing”

Rolf Pendall, *Director, Metropolitan Housing and Communities Policy Center, Urban Institute*

“America’s Urban Futures: Implications for Travel and Energy”

Part B

Moderator:

Robert Noland, *Professor, Bloustein School of Planning and Public Policy, Rutgers University*

Speakers:

Emily Castor, *Director of Transportation Policy, Lyft*

“Future Mobility Services: What Will Their Impact Be?”

Megan Ryerson, *Assistant Professor, City and Regional Planning & Electrical and Systems Engineering, University of Pennsylvania*

“Growing Air Travel and What It Means”

Discussant:

Lisa Aultman-Hall, *Professor, School of Engineering, University of Vermont*

Session IV – 2 to 6 p.m.

Part A: Toward Energy Efficient, Low-Carbon Cars and Light Trucks—to 2025

Aggressive national energy and GHG performance standards for cars and light trucks were adopted in 2012. They require nearly a halving of fuel consumption and GHGs from 2010 to 2025. China, Japan, and the EU are also adopting very aggressive standards. Is the technology and market on track to meet these standards? Should they be modified? And what role is, or might, the Zero Emission Vehicle mandate, adopted by 10 states, having on the achievement of the targets?

Moderator:

John Viera, *Global Director of Sustainability, Ford Motor Company*

Speakers:

Robin Moran, *Senior Policy Advisor, Office of Transportation and Air Quality, U.S. EPA*

“Midterm Evaluation of the 2022-2025 Light-duty Vehicle Greenhouse Gas Standards”

Wally Wade, *Technical Fellow, Ford Motor Company (retired)*

“What the National Academies Report Says about Technology”

Discussants:

Julie Becker, *Vice President, Environmental Affairs, Alliance of Automobile Manufacturers*

John German, *Senior Fellow/U.S. Co-Lead, International Council on Clean Transportation*

Roland Hwang, *Director, Energy and Transportation Program, Natural Resources Defense Council*

Part B: Light-Duty Vehicles Beyond 2025

What changes in vehicles are likely beyond 2025? Will the GHG/CAFE standards continue on a steady trajectory toward 80% reduction by 2050? Will there be a continued need for incentives and mandates for "zero emission" vehicles? What might be the role of PHEVs, BEVs, and FCVs in 2025 and beyond?

Moderator:

Tom Turrentine, *Director, Plug-in Hybrid & Electric Vehicle Research Center, UC Davis*

Speaker:

David Greene, *Senior Fellow, Howard H. Baker, Jr. Center for Public Policy, University of Tennessee*

“What the National Academies Report Says”

Discussants:

Alberto Ayala, *Deputy Executive Officer, California Air Resources Board*

“California's Vision for 2050, and How We Get There”

Matthew Tipper, *Vice President, Alternative Energies, Shell Oil Co.*

“Oil Industry Role in a Low Carbon Future World”

Craig Scott, *National Manager, Advanced Technology Vehicles, Toyota Motor Sales, U.S.A., Inc.*

“Toward a Hydrogen Future”

Dinner – 6 to 7:30 p.m.

Session V – 7:30 to 9 p.m.

Big Data

Far more data and far better processing techniques are becoming available. Transportation and energy markets and business models are being transformed by governments and the private sector. Information technology software is creating new opportunities to optimize routing, timing, loading and sharing in a manner that will lower energy use and shed costs. This session will introduce examples of how this phenomenon is impacting urban development and core transport industries.

Moderator:

Amy Myers Jaffe, *Executive Director of Energy and Sustainability, UC Davis*

Speakers:

David Bartlett, *Chief Technology Officer, GE Aviation*

Glenn Schmidt, *Vice President Governmental and External Affairs, Americas, BMW Group*

Friday, August 21

Session VI – 9 to 11:30 a.m.

Leveraging Markets, Innovation, and Regulatory and Pricing Policies

Moderator:

Daniel Sperling, *Professor and Director, Institute of Transportation Studies, UC Davis*

Speakers:

Chris Grundler, *Director, Office of Transportation and Air Quality, U.S. EPA*

John Wall, *Vice President – Chief Technical Officer, Cummins*

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