



Big Ideas, Big Solutions: Future of Mobility

Agenda July 9–12, 2019

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, July 9

Registration (Merrill Hall)	3:00 – 6:00pm
Welcome Reception (Seascape)	4:30 – 6:00pm
Dinner (Crocker Hall)	6:00 – 7:30pm
Reception (Seascape/BBQ Pit Area)	7:30 – 9:30pm

Wednesday, July 10

Session I (Merrill Hall) – 9:00am – 12:00pm

What Are the Big Ideas?

The world's businesses and governments have operated for many decades with only small changes in transportation. No longer. A suite of innovations are about to transform the movement of both people and goods. Left to the marketplace and disengaged governments, these transformations will likely be highly disruptive—and, according to many experts, often not in the public interest. New business and policy models, institutions, and financing and pricing mechanisms are needed. What big ideas, business approaches, and governance should be considered? What have we learned from the history of technology and automation that might impart insight? In this first session we set the stage for the investigation of “big solutions.”

Welcome:

Dan Sperling, *Founding Director, Institute of Transportation Studies, UC Davis*

Moderator:

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

Speakers:

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

Hal Harvey, *CEO, Energy Innovation*

Carol Lee Rawn, *Senior Director, Transportation, Ceres*

Lunch (Crocker Hall) – 12:00 – 1:30pm (Dining Hall open 12 – 1pm)

Session II (Merrill Hall) – 1:45 – 6:00pm

Creating Equitable and Sustainable Cities

Vehicle automation and new mobility (including micro-mobility) services are likely to transform lifestyles and cities. This leads to many questions: What can cities do to make sure their people truly benefit from these transformations? How should cities allocate scarce curb space and rights of way, invest (and dis-invest) in infrastructure, incentivize pooling and low-carbon mobility, create synergies between conventional transit and new mobility services? How can private industry help support public goals? Once we know what to do, how can our leadership be convinced and empowered to take those actions?

Part 1: Cities thinking equity first (1:45 – 3:00pm)

Keynote: Seleta Reynolds, *General Manager, Los Angeles Department of Transportation*

Moderator: Creighton Randall, *CEO and Principal Consultant, Mobility Development Group*

Kate Meis, *Executive Director, Local Government Commission*

Andres Ramirez, *Board Co-Chair, People for Mobility Justice*

Part 2: Leveraging new mobility services (3:00 – 4:15pm)

Keynote: Susan Shaheen, *Director, Innovative Mobility Research, UC ITS, and Adjunct Professor, UC Berkeley*

Moderator: Austin Brown, *Executive Director, Policy Institute for Energy, Environment, and the Economy, UC Davis*

Zoe Lipman, *Director, Vehicles and Advanced Transportation Program, Blue-Green Alliance*

Jon Walker, *Sustainability Policy Manager, Lyft*

Break (Merrill Hall) – 4:15 – 4:45pm

Part 3: What's next? (4:45 – 6:00pm)

Keynote: Michael Ableson, *Vice President for Global Strategy, General Motors*

Moderator: Lauren Faber O'Connor, *Chief Sustainability Officer, Los Angeles Mayor Eric Garcetti*

Giovanni Circella, *Director, 3 Revolutions Future Mobility Program, UC Davis*

Holmes Hummel, *Principal, Clean Energy Works*

Matt Petersen, *CEO, Los Angeles Cleantech Incubator*

Dinner (Crocker Hall) – 6:00 – 7:00pm

Dessert Reception (Monterey Bay Aquarium) – 7:00 – 9:30pm

Thursday, July 11

Session III (Merrill Hall) – 9:00am – 12:00pm

New Regulatory Paradigms for Cars (LDVs) and Trucks (HDVs)

The current methods for regulating vehicle pollution seem increasingly antiquated in light of recent transportation trends, new business models, and the urgent need to decarbonize transportation. This session will explore local, state, and national policies needed between 2020 and 2035 to clean the air and reach goals for climate stabilization. How should regulators balance near-term emissions reduction with the longer-term transition to zero-emission technologies? How should regulations be adjusted to account for “upstream” emissions from fuels (including electricity, hydrogen, and biofuels) and vehicle production? What are the challenges presented by persistent low gasoline prices, consumers’ demand for larger vehicles, and increased VMT? Should regulators incorporate automation and high-mileage fleet vehicles into regulatory structures? Will highly localized regulations like diesel bans drive technology deployment? This panel will feature fireside chats and lively panel discussions to address these questions and engage with attendees.

Keynotes: (9:00 – 9:45am)

Mary Nichols, *Chair, California Air Resources Board*

Martin Daum, *Member of the Board of Management, Daimler AG*

Panel on Light Duty Vehicles (9:45 – 10:40am)

Moderator:

Gina Coplton-Newfield, *Director, Clean Transportation for All Campaign, Sierra Club*

Panelists:

John Bozzella, *CEO, Global Automakers*

Robbie Diamond, *CEO, Securing America’s Future Energy*

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

Nikolaus Steininger, *DG CLIMA, European Commission*

Break (Merrill Hall) – 10:40 – 11:00am

Panel on Heavy Duty Vehicles (11:00am – 12:00pm)

Moderator:

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

Panelists:

Coralie Cooper, *Deputy Director, NESCAUM*

Niklas Gustafsson, *Chief Sustainability Officer, Volvo*

Annette Hebert, *Assistant Executive Officer, California Air Resources Board*

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

Lunch (Crocker Hall) – 12:00 – 1:30pm (*Dining Hall open 12 – 1pm*)

Session IV (Merrill Hall) – 2:00 – 3:45pm

Electrification: Toward the Tipping Points?

How can the transition to electric cars, buses, and trucks be accelerated, including hydrogen fuel cells? What conditions—including price, infrastructure, consumer awareness, model availability, manufacturer and dealer motivation—might constitute a ‘tipping point’ or inflection point for mass-market take-off? How might new business models for passenger mobility, such as ride hailing services and goods movement, shift the conditions and timing? What is the role of different policies and governments to move the timeframe forward?

Moderator:

Karen Laughlin, *Climate & Clean Energy Program Officer, Heising-Simons Foundation*

Speakers:

Gil Tal, *Director, Plug-in Hybrid & Electric Vehicle Research Center, UC Davis*

“Tipping points in the EV marathon”

Patty Monahan, *Commissioner, California Energy Commission*

“States and nations in the drivers’ seat; the road to EV commercialization”

Panelists:

Michael Backstrom, *Managing Director, Energy & Environmental Policy, Southern California Edison*

David Friedman, *Vice President, Advocacy, Consumer Reports*

Patty Monahan, *Commissioner, California Energy Commission*

Dave Mullaney, *Manager, Rocky Mountain Institute*

Doug Murtha, *Group VP of Corporate Strategy and Planning, Toyota Motor North America*

Break (Merrill Hall) – 3:45 – 4:15pm

Session V (Merrill Hall) – 4:15 – 6:00pm

Transforming the Oil Industry: Is There a Smooth Transition?

The Stone Age did not end for lack of stones, and the Oil Age will not end for lack of oil (paraphrasing Sheikh Yamani). How disruptive will the transition be? Will it be slow and smooth, or disruptive? What are the new business models? Will, and should, oil companies invest in electric vehicles, hydrogen, biofuels, and carbon capture and sequestration? Will incumbents be well positioned to lead this transition, or not (and is that an appropriate role for them in any case)? What do shareholders expect? What will, and should, policymakers do?

Moderator:

Lew Fulton, *Director, Sustainable Transportation Energy Pathways, UC Davis*

Speakers:

Mark Schwartz, *Managing Director, S&P Global Platts*

“Vision of a transition scenario”

Sarah Ladislaw, *Senior Vice President, Center for Strategic and International Studies*

“How might different actors behave and why does this matter?”

Amy Myers Jaffe, *Senior Fellow, Council on Foreign Relations*

“What can we learn from coal?”

Matthew Tipper, *Vice President of New Fuels, Shell*

“The tensions and challenges facing oil companies”

BBQ Dinner (BBQ Pit Area) – 6:00 – 9:00pm

Friday, July 12

Session VI (Merrill Hall) – 9:00 – 11:00am

Closing Session: Putting It All Together

The transformation has begun. Technological change + market forces + human behavior + public policy are creating a new and different transportation system. Where can it take us? Where do we want to go? How can we get there? What should we have accomplished by Asilomar 2021? What should we know then that we do not know now? What policies should be in place? How much progress made? Drawing on the insights developed over the first two and a half days and engaging the energy, innovativeness, and expertise of all Asilomar participants, we will endeavor to put it all together to create a vision and outline a roadmap for progress.

Moderator:

David Greene, *Research Professor, University of Tennessee*

Speakers:

Sue Gander, *Director of Energy, Environment & Transportation Division, National Governors Association*

Andreas Klugescheid, *Government and External Affairs, BMW*

Emily Castor Warren, *Venture Partner, Fontinalis Partners*

Lunch (Crocker Hall) – 12:00 – 1:00pm

Box lunches available at 11:30am

Asilomar 2019 Steering Committee

Dan Sperling (Chair), *University of California, Davis (and Member, California Air Resources Board)*

Mark Abkowitz, *Vanderbilt University; Chair of Special Task Force on Climate Change and Energy, Transportation Research Board*

Vicki Arroyo, *Georgetown University*

Austin Brown, *UC Davis*

Anthony Eggert, *ClimateWorks Foundation*

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Sean Waters, *Daimler Trucks North America*