

# Stanford

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## Stephen Zoepf

CARS Executive Director, CARS

### Bio

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#### BIO

Dr. Stephen Zoepf is the Executive Director of the Center for Automotive Research at Stanford. He holds a Ph.D., M.Sc. and B.Sc. from MIT. His interests are in future mobility, shared vehicle systems, transportation energy usage and policy. He has eight years of experience in the automotive industry as an engineer and product manager at BMW and Ford, and previously led U.S. Department of Transportation efforts to integrate confidential data submissions efforts into national vehicle energy policy modeling efforts. He was an ENI Energy Initiative Fellow and a Martin Energy Fellow at MIT and a recipient of the Barry McNutt award from the Energy and Alternative Fuels Committees of the Transportation Research Board. He also won the Singapore Global Challenge, Global Young Scientists Summit@one-north in 2013 and was a recipient of MIT's Infinite Mile Award for Outstanding Service to the Institute.'

#### HONORS AND AWARDS

- Barry McNutt Award, Energy and Alternative Fuels Committees of the Transportation Research Board (2014)
- ENI Fellow, 2014, MIT Energy Initiative (2014)
- 1st Place, Singapore Global Challenge, Global Young Scientists Summit@one-north (2013)
- Martin Energy Fellowship, Martin Family Foundation (2013)
- Infinite Mile Award for "Outstanding Service to the Institute", MIT (2001)

#### EDUCATION AND CERTIFICATIONS

- B.Sc., MIT , Electrical Engineering & Computer Science (2001)
- M.Sc., MIT , Technology and Policy (2011)
- Ph.D., MIT , Engineering System and Technology, Management and Policy (2015)

#### PATENTS

- Thomas McQuade, Stephen Zoepf. "United States Patent 7092804 Method and apparatus for providing refill or bleed alerts in a tire pressure monitoring system", Ford Motor Company, Aug 15, 2006

### Publications

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#### PUBLICATIONS

- **Deployment and utilization of plug-in electric vehicles in round-trip carsharing systems** *INTERNATIONAL JOURNAL OF SUSTAINABLE TRANSPORTATION*  
Jacquillat, A., Zoepf, S.  
2018; 12 (2): 75–91
- **User decision-making and technology choices in the US carsharing market** *Transport Policy*  
Zoepf, S., Keith, D.

2016

- **On the Road toward 2050: Potential for Substantial Reductions in Light-Duty Vehicle Energy Use and Greenhouse Gas Emissions**  
Heywood, J., MacKenzie, D., Akerlind, I., Bastani, P., Berry, I., Bhatt, K., Chao, A., Chow, E., Karplus, V., Keith, D., Khusid, M., Nishimura, E., Zoepf, et al  
MIT Energy Initiative.  
2015 (ISBN: 978-0-9962185-0-4):
- **Determinants of US passenger car weight** *INTERNATIONAL JOURNAL OF VEHICLE DESIGN*  
MacKenzie, D., Zoepf, S., Heywood, J.  
2014; 65 (1): 73-93
- **The Historical Roots of the Field of Engineering Systems: Results from an In-class Assignment** *Infranomics*  
Magee, C., Saari, R., Heaps-Nelson, T., Zoepf, S., Sussman, J.  
Springer International Publishing.2014: 353–376
- **Analysing the energy consumption of the BMW ActiveE field trial vehicles with application to distance to empty algorithms**  
Rodgers, L., Zoepf, S., Prenninger, J.  
2014: 42–54
- **Charging Choices and Fuel Displacement in a Large-Scale Demonstration of Plug-In Hybrid Electric Vehicles** *TRANSPORTATION RESEARCH RECORD*  
Zoepf, S., Mackenzie, D., Keith, D., Chernicoff, W.  
2013: 1-10
- **Characterizations of deployment rates in automotive technology** *SAE International Journal of Passenger Cars-Electronic and Electrical Systems*  
Zoepf, S., Heywood, J.  
2012