Committee on Energy and Commerce
U.S. House of Representatives
Witness Disclosure Requirement - "Truth in Testimony"
Required by House Rule XI, Clause 2(g)(5)

1. Your Name: David Reichmuth		
2. Your Title: Senior Engineer		
3. The Entity(ies) You are Representing: Union of Concerned Scientists		
4. Are you testifying on behalf of the Federal, or a State or local government entity?	**Yes**	**No** X
5. Please list any Federal grants or contracts, or contracts or payments originating with a foreign government, that you or the entity(ies) you represent have received on or after January 1, 2015. Only grants, contracts, or payments related to the subject matter of the hearing must be listed. None		
6. Please attach your curriculum vitae to your completed disclosure form.		

Signature: [redacted] **Date:** 5/5/18

DAVID REICHMUTH, Ph.D.
Senior Engineer
Union of Concerned Scientists
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EDUCATION

University of California, Berkeley
Doctor of Philosophy, Chemical Engineering, December 2002.
Thesis advisors: Professors Harvey Blanch and Jay Keasling.
Master of Science, Chemical Engineering, December 1998.

University of California, Davis
Bachelor of Science, Biochemical & Chemical Engineering, June 1996.
Graduated with honors.

EXPERIENCE

2/13 - present
Senior Engineer, Clean Vehicles Program, Union of Concerned Scientists, Oakland, CA

- Responsible for technical and policy analysis to support the adoption of transportation solutions that reduce global warming emissions, air pollution and petroleum use. Work includes advocacy at the federal and state level for policies that increase the adoption and use of electric drive vehicles like plug-in electric cars and hydrogen fuel cell vehicles. Expertise in U.S. and California vehicle policy, including providing technical comments and testimony on the California's Zero Emission Vehicle program and the Air Quality Improvement Program (including EV rebates).

7/07 - 2/13
Senior Member of the Technical Staff, Systems Biology, Sandia National Laboratories, Livermore, CA
1/05 - 7/07
Limited Term Technical Staff, Microfluidics Department, Sandia National Laboratories
5/02 - 1/05
Postdoctoral Researcher, Microfluidics Department, Sandia National Laboratories

- Compared the costs/benefits of electric and hydrogen vehicles under different technology and policy assumptions by using parametric analysis for the Department of Energy's Office of Energy Efficiency and Renewable Energy. Analyzed impact of alternative vehicles on key environmental and energy metrics and examined potential regional differences in technology adoption or performance.
- Built models of alternative vehicle and fuel adoption for both domestic and international markets to inform Department of Energy (DOE) decision making.

SELECTED PUBLICATIONS AND PRESENTATIONS

D. Reichmuth
"Going from Pump to Plug: Adding Up the Savings from Electric Vehicles,"
Union of Concerned Scientists: Cambridge, MA (2017).

D. Reichmuth
"Electrifying the Vehicle Market,"
Union of Concerned Scientists: Cambridge, MA (2016).

R. Nealer, D. Reichmuth, and D. Anair
"Cleaner Cars from Cradle to Grave,"
Union of Concerned Scientists: Cambridge, MA (2015).

D.S. Reichmuth, A.E. Lutz, D.K. Manley, and J.O. Keller
"Comparison of the Technical Potential for Hydrogen, Battery Electric, and Conventional Light-Duty Vehicles to Reduce Greenhouse Gas Emissions and Petroleum Consumption in the United States,"
International Journal of Hydrogen Energy, vol 38, pp 1200-1208 (2013).

G. Barter, D. Reichmuth, T. West, and D. Manley
"The Future Adoption and Benefit of Electric Vehicles: A Parametric Assessment,"
SAE International Journal of Alternative Powertrains, vol 2, pp 82-95 (2013).

G.E. Barter, D. Reichmuth, J. Westbrook, L.A. Malczynski, T.H. West, D.K. Manley, K.D. Guzman, and D.M. Edwards
"Parametric Analysis of Technology and Policy Tradeoffs for Conventional and Electric Light-Duty Vehicles,"
Energy Policy, vol 46, pp 473-488 (2012).

D.S. Reichmuth, T.E. Drennen, and J.O. Keller
"Impact of Hydrogen Vehicles on U.S. Greenhouse Gas Emissions and Petroleum Use," 9th Fuel Cell Science, Engineering and Technology Conference, American Society of Mechanical Engineers, Washington, DC, August 2011.