



Health Effects Institute

**WORKSHOP ON EFFECTS OF
FUEL COMPOSITION ON PM**

December 8, 2016.





Some Questions

- **What is the connection between emission tests under laboratory/certification conditions and real-world emissions and exposures? How do we find the balance here?**
- **What are the take-home lessons, and research needs, from the laboratory tests?**
- **In the context of the potential for human exposure, what is our understanding of whether, and how much, fuel formulation matter (especially after Tier 3 regulation go into effect)?**
- **What is the likely impact/benefit in terms of exposure of: (1) ethanol (2) aromatics and (3) GDI ?**
- **Is GDI a game changer: Will it change the picture of human exposure, especially when taken in the context of fuel formulations and ethanol blending?**
- **What are the challenges in meeting the Tier 3 and LEV 3 standards? What is role for ethanol in this context? Or more generally, of fuel formulation?**

Workshop Structure

Four Sessions:

1. Background
2. Ambient PM
3. Fuel composition, engine technology, and pm emissions
4. Panel discussion: integrating research and policy issues