

HYDROGEN AS A CANDIDATE FUEL FOR TRUCKS

Jay Keller

Sandia National Laboratories (Livermore, California)

This presentation discusses the motivation and opportunities for hydrogen use as a fuel for light- and heavy-duty trucks. The production application of fuel cells is now recognized to be decades away. Moreover, it is not clear that the application of fuel cell technologies will ever meet the constraints of the trucking industry. I will discuss the applicability of hydrogen-fueled internal combustion engines as they exist today and as they might develop in the near future to meet the needs of the trucking industry. This discussion will highlight those trucking applications where I believe hydrogen as a fuel may work well and those where it will not work.