

Energy and Resources Group Fall 2007 Colloquium Series (ER295)

November 14, 2007



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**Light-Duty Diesels and
Potential Health Impacts**

110 Barrows Hall / 4:00 p.m.

Historically diesel engines primarily have found heavy-duty applications. With the development of engines that meet California's stringent light-duty vehicle emission standards, they will return to the light duty market. Air pollution and health concerns are based on high particulate and oxides of nitrogen emissions from diesels and remain a concern for the existing heavy-duty fleet. Nanoparticle emissions, their potential adverse health effects, and the role of a growing light-duty diesel fleet are evolving and unresolved concerns.

During his forty-year career at Berkeley as a professor of mechanical engineering, Dr. Sawyer's teaching and research included rocket propulsion, energy conversion, combustion, air pollution, and regulatory policy. He has authored or co-authored more than 350 publications including two books. He chaired the Energy and Resources Group and was selected to be the first Class of 1935 Professor of Energy at Berkeley. From 2003-2005 he headed the University of California Education Abroad Program in London. In January 2006, Dr. Sawyer left the University of California to accept the appointment by Governor Schwarzenegger to head the California Air Resources Board, a position he held through June 2007. He currently is the Class of 1935 Professor of Energy Emeritus at UC Berkeley. He is a graduate of Stanford and Princeton universities. He received the Berkeley Citation and the American Society of Mechanical Engineers' Soichiro Honda Medal and is a fellow of the Society of Automotive Engineers.