Combustion and Emissions Performance of Dual-Fuel Gasoline and Diesel HECC on a Multi-Cylinder Light Duty Diesel Engine

Presented by **Scott Curran**

Vitaly Prikhodko, Kukwon Cho, Teresa Barone, Sam Lewis John Storey, C. Scott Sluder, Jim Parks, and Robert Wagner

Oak Ridge National Laboratory

Sage Kokjohn and Rolf Reitz

University of Wisconsin

Poster Location P-6

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Multi-Cylinder Dual-Fuel RCCI

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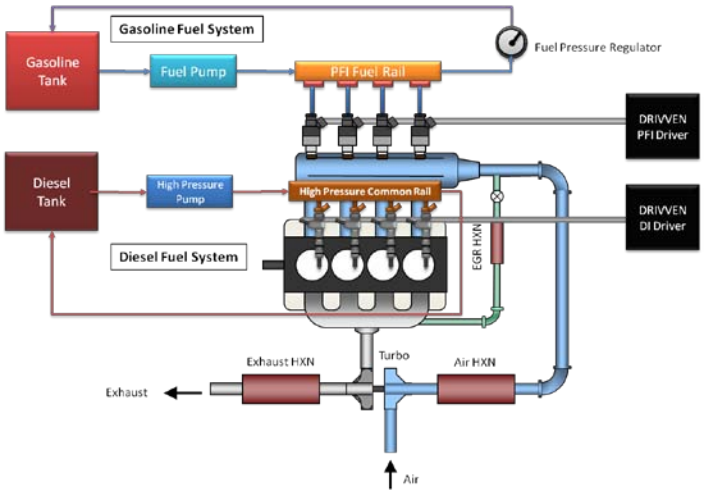
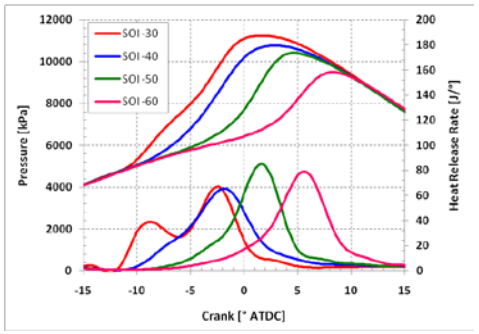


GM 1.9 L CIDI Modified for Dual-Fuel RCCI

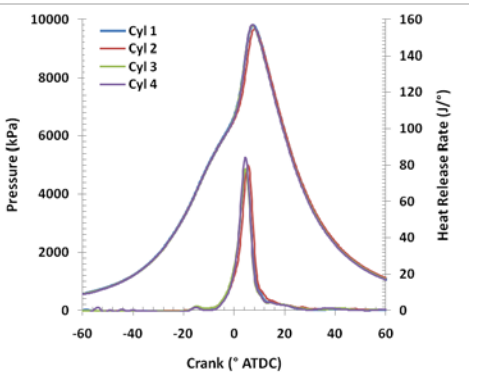
RCCI Compared to Conventional Diesel Combustion

	Diesel	Dual-Fuel
Gasoline (%)	0	77
Boost (bar)	1.18	1.2
Swirl Angle (°)	35.6	75.9
BTE (%)	**32.1**	**33.6**
FSN	**1.78**	**0.02**
CO (ppm)	423	1512
HC (ppm)	296	2581
NOx (ppm)	**94**	**7.5**
Exhaust T (C)	412	260

Model



Combustion



Emissions