Session 3: Compression Ignition

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“Introduction to Near Term Technologies for LD Diesel Efficiency”

- LEV III and CAFE regulations pose a challenge to diesel technology in the passenger-car market
- Technology recipes to meet the regulations exist
- A future-technology “road map” to address efficiency needs is provided
“Diesel Efficiency and Associated Fuel Effects”

- Engine developments to improve efficiency
- Engine developments to improve emissions
- Fuel influences on the balance between efficiency and emissions
“Light-Duty Diesel Fuel Injection Systems”

- Modern light-duty clean diesel engines have low fuel consumption and great drivability
- Diesel systems approaches and techniques for optimizing these characteristics are presented, with a fuel-injection system focus
- Effects from fuel quality variation, and the importance of consistent world-class fuel quality is discussed