
Briefing on Recent Emission Control Developments

May, 2000

**Manufacturers of Emission Controls
Association**



MECA History

- Founded in 1976
- Membership Open to Manufacturers of Motor Vehicle Emission Control Technologies
- Source of Technical Information on Emission Controls
- Spokesperson for Emission Control Industry



MECA Members

- 45 Member Companies
- Emission Control Technologies
 - Catalytic Converters (All Fuels)
 - Diesel Particulate Filters
 - Oxygen, NOx, and Temperature Sensors
 - Thermal Management Strategies
 - Engine/Fuel System Management Technologies
 - Crankcase Emission Control Technology
 - Evaporative Emission Controls
 - Enhanced Combustion Technologies
 - Plasma/Corona Technology
 - Fuel Cell Technology Components



The California Clean Air Success Story

- California has Served as the Model for the Rest of the World in Establishing Motor Vehicle Emission Control Requirements
 - 1960s -- First motor vehicle emission control program
 - 1970s -- Adoption of emission standards that lead to the introduction of three-way catalyst technology and advanced engine controls
 - 1980s -- NOx and PM standards for diesel-powered vehicles
 - 1990s -- RFG, OBD, Tier I, LEVI, and LEVII
 - 2000 -- Urban bus standards, low sulfur diesel fuel, and urban bus retrofit requirements



MECA Cooperation with California

- Our Industry Has Maintained a Close Cooperative Relationship with California Air Quality Officials over the Past 25 Years
 - Technical Support
 - Support of Rulemaking Activities
- We Look Forward to Working with California Air Quality Officials in the Future to Help California Meet Its Clean Air Objectives



Emission Control Perspectives -- The Present

- The Last Several Years Have Witnessed Unprecedented Activity and Advances in Control Technology
 - Technology to Meet the LEV I and LEV II Standards
 - Technology for Diesel-Powered Vehicles
 - Particulates
 - NO_x
 - Toxics
 - Control Technology for Nonroad SI & CI Engines



Emission Control Perspectives -- The Future

- Continued Significant Advances in Emission Control Technology Are Possible
- The Next Several Years Will Be Critical in Shaping the Future of the Mobile Source Emission Control Program in North America
 - Tighter Standards for New On-Road HDEs
 - Tighter Standards for New Off-Road HDEs
 - Reducing Emissions from Existing Diesel Engines (Both Mobile and Stationary)
 - Off-Road SI Engines



MECA Technical Presentations

- **Recent Developments in Integrated Exhaust Emission Control Technologies for Diesel Engines -- Timothy Johnson, Corning**
- **Diesel Exhaust Emission Control in Europe: The Regulatory Drivers, the Issue of Diesel Sulfur, and Emerging Technical Solutions -- Jacques Lemaire, Rhodia**
- **Opportunities for Reducing Emissions from Existing Diesel Engines -- Marty Lassen, Johnson Matthey**
- **The Role of Emission Controls in Reducing Emissions from Off-Road SI Engines -- John Mooney, Engelhard**

