

NESCAUM's Mobile Source 101

**Raleigh, NC
October 3 – 6, 2005**

Index to Course CD

Daily Presentations

Day 1 PowerPoint Slides – Overview of Mobile Sources

Day 2 PowerPoint Slides – Strategies for Reducing Mobile Source Emissions,

Day 3 PowerPoint Slides – OBDII, Inspection/Maintenance (I/M) Programs

Day 4 PowerPoint Slides – MOBILE Emissions Modeling

Supporting Presentation Materials

Day 1:

Ambient Ozone Animations – Animation of low and high ozone days in the Northeast

Otto Cycle Model – Animated Model of 4-Stroke Cycle Engine
EPA Toxics Presentation

Day 2:

ARB Airports Presentation
EPA Airports Presentation
EPA Programs for Cleaner Diesels
EPA Retrofit Presentation - Greg Green
Role of Fuels in EPA's Clean Air Program
Globe Presentation on Fuel Cells
Honda Clean Gasoline progress
Toyota Future Emissions Controls

Day 3:

Arizona RSD IM Evaluation
Connecticut Evaluation Presentation
Oregon OBD Statistics

Day 4:

Barrett MOBILE6 Presentation

Other Materials

EPA and California Air Resources Board Rules and Technical Support Documents:

California Exhaust Emission Standards and Test Procedures For 2001 And Subsequent Model Passenger Cars, Light-Duty Trucks, And Medium-Duty Vehicles

California Evaporative Emission Standards and Test Procedures For 2001 And Subsequent Model Motor Vehicles

Press Release: EPA Gives The Green Light On Diesel-Sulfur Rule

California Exhaust Emission Standards and Test Procedures For 2001 And Subsequent Model Passenger Cars, Light-Duty Trucks, And Medium-Duty Vehicles

Control Of Air Pollution From New Motor Vehicles: Amendment To The Tier 2/Gasoline Sulfur Regulations

California Exhaust Emission Standards and Test Procedures for 2003 And Subsequent Model Zero-Emission Vehicles, And 2001 And Subsequent Model Hybrid Electric Vehicles, In The Passenger Car, Light-Duty Truck And Medium-Duty Vehicle Classes

Control of Air Pollution From New Motor Vehicles; Amendment To The Tier 2/Gasoline Sulfur Regulations – EPA

Control of Emissions Of Hazardous Air Pollutants From Mobile Sources – EPA
Zero Emission Vehicle Program Changes – California ARB

Miscellaneous References

Modeling Diesel Fuel Effects on Emissions – EPA

Reducing Air Pollution from Non-road Engines – EPA

Greeley Remote Sensing Study Summary

The History of Reducing Tailpipe Emissions – EPA

Lev II – Amendments to California's Low-Emission Vehicle regulations – California ARB

Data Summaries of Base Year and Future Year Mass and Modeling Inventories for the Tier 2 Final Rulemaking – EPA

Inspection Maintenance Program Requirements Incorporating the Onboard Diagnostic Check: Response to Comments – EPA

MOBILE6

Exercises – Executable MOBILE6 model with multiple input files for different scenarios

Input Models – Models to Develop MOBILE6 Inputs:

Exercises -- Additional Input Files
Humidity conversion models
Route 56 – Model developed by ERG to Convert MOBILE5 Input Files into MOBILE6 Format

Technical Support Documents for MOBILE6

AC Effects
Activity Factors
Basic Emission Rates (BERs) for 81 to 93 Model Year Light-Duty Vehicles
Evaporative I/M and OBD Benefits
Evaporative Emission Modeling
Growth Factors
HD Conversion Factors
HD NO_x Defeat Device – PowerPoint
HD NO_x Defeat Device – Acrobat
Hot Soak Emissions
I/M Credits
M6 Fleet Characteristics
CRC Presentation on MOBILE 6
MOBILE 6 SIP Policy
Off Cycle Emissions
Overview of MOBILE 6
Oxygenated Fuels
SFTP Impact
Speed Correction Factors
Sulfur Effects
Temperature Correction Factors
Travel Distributions

Other Models

Final Complex Model (Impact of Gasoline Changes on Emissions)
GSE Airports Emission Model
PART5 (EPA's Model to calculate particulate matter emissions)