

**CRC Xth On-Road Workshop**  
*By Donald H. Stedman, University of Denver*

**Emissions Models**

Steve says, “Welcome, thanks to sponsors, come to dinner of course”.  
William Roy Pierson, aka Bill, “I dedicate this to”, says Gorse  
Coming to the CRC arena ... “My tie will choke the lions” Carlock  
MOBILE 6 Megan’s models’s birth takes 9 months...BUT only fertility starts the clock.  
Lax says FTPs an infertile field...specially for older model years and such.  
CE-CERT’s Carrie models cars. Compared to on-road data the models vary very much.  
Mike has the slickest MEASURE model. Animated pollution load.  
By contrast Olavi’s nice Finnish model influenced construction of a road!  
Future guesses must be wrong from Ted’s computers.  
In his amazing future there are no gross polluters!

**Improving Emission Inventory**

Mikhail measures mobile sources all over the east without fear.  
But fear we should, Connie makes clear, vehicles with plates “Frontier”.  
“Hot pad” Oreste pushes up NOx with air conditioning at CAVTC.  
Slott can solve the problem in LA...just increase humidity.  
Eric can show data today. Glendora’s been decreasing since the first CRC meeting date.  
Alan can mandates ZEV but can not increase truck weight.  
Weird weekend data from CE-CERTS Charles  
Less than 1000 mi/yr cars are sure to elicit some quarrels.

**Diesel Contribution to the Inventory**

Whitney says manufacturers design for a cycle. Durbin measures a few trucks at a time.  
How come they get so much “payload” from EPA while I can’t get a dime??  
“Model one truck on many hills”. Nigel (red suspenders are cool),  
Turns taller and thinner, reducing emissions the more you pay for the fuel.  
Gary’s numbers are too low for NO, but with increased height, up they go.  
Excavator Tierney works at OTAQ developing new test cycles. Do they have nothing else to do?  
Let us pray for the soul of the humble mole, soon to face a standard in gm/hole.

Sea World has all the fun, as many penguins as one could wish.  
Whales and seals and walrus and for dinner steak and FISH!!

## **DAY 2**

Greenbaum comes from HEI, cares about human health  
Political alcohol, ultrafines, good health relates best to good wealth.

### **Particulate Matter Emissions**

Trucks in Tuscarora Tunnel now emit much less says Alan, what a treat.  
Smokin' Steve sees most emissions from 5% of the fleet!  
Inhale behind dem brakes for your barium meal. You soon will be far gone.  
METHOD is a perfectly good noun. "Methodology" is jargon!  
Hasty Hector doesn't dawdle. Data can't improve the model.  
Basil please slow down I beg. Texas reinventing EPA's dog leg.

### **Real World Particulate Matter Size Measurements**

Kittelson and Gerry coagulated, 15 minutes to half an hour does matter.  
Soot protects us from ultrafines. Minnesota's container's clogged with data.  
Ultrafines are gone when they fly their truck. Nigel large and Mridul taller.  
Million mile beauty Bruce has particles growing? Smaller!!  
Fred looks ultrafine with cars putting out few particles when they are new.  
Unsworth from Shell shows biodiesel, puts out lots of numbers, smells like popcorn too!  
Mridul's CNG results, a pretty pass. Dirtier by number but cleaner much by mass.

### **New Measurement Methods**

Daddy Tim? "Gorse is actually the father", he did say.  
Andy's now at ERG...wants RSD shootout support from CRC.  
Particle measurements fast and loose. Hans responds to Moss....not Moose...  
Pat has two PAS for PAHs and RC, perhaps a useless device?  
But not as bad as a salesman's pitch, no system, no data, no price!

## **Day 3**

### **Unregulated Emissions**

Cullen doesn't like microns. Do I see a pattern? At General Motors a small particle is called a Saturn. John takes tons of particles in hurricane disaster. Double act with Kevin (when the light goes red talk faster).

Ryan does ammonia using Fourier transform. Data are still plural where grammar is the norm.

Richard from EPA does ammonia. How soon will NH<sub>3</sub> be in FTP for compliance?

Has anyone noticed how quiet Harold is now he's a consultant looking for clients?

Marc Baum can measure everything and so can Andrew Kean.

Condense exhaust in the washer pot to keep the windshield clean!

### **OBD and I/M**

A manufacturer is "not ready". The states are "not ready" but I've got tape in black.

22 of 43 cars would be better maintained by taking their money and giving the car back!

Smoker McCormick's fixing trucks. The tamperers are tireless.

CARB spends lots on Uncle Tom and his counsel to get into your tailpipe by wireless.

Uriel from IMP says "They go lean to PASS THE TEST".

Herasy! To find them remotely might be best!

EPA may not read the literature, but when it comes to poems there's sensitivity

Reconciling Corley from GIT measures 160,593 and the results agree with ME!

### **IM Program Evaluation**

Wenzel starts, "The sawtooth is blunt". Singer follows but to cookies he's in front!

Texas is idling their air quality away without load.

Seem to have forgotten I/Ms supposed to reduce emissions on the road.

Celia has a NYTEST. The driver pays the fee. Peter can not Hyde from visibility.

Vancouver and Sierra deserve great credit in this poem thing.

For an on-road gross polluter program using optical remote sensing!!!!

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