

CRC 20th On-Road Vehicle Emissions Workshop 2010

Chris called upon Mani from Marathon

Dedicated to the late Bob Gorse whose memory lives on.

HISTORICAL PERSPECTIVES

Alphabetically Alberto Ayala is a letter ahead of Brent Bailey

Historical Harley pulls my leg too, quite gaily.

Motallebi showed CARB's 35-year trends. Costs were almost free!

While EPA's Joe actually used data from the late project E-23.

Avoid hard questions. The EPA finds a new way.

Sound the alarm and we all go away!

EMISSION RATES AND INVENTORY

Harley's Future's better for BC but ozone may go up in 2014

Smartway Reza's drayage policy. Keep your foot OFF THE GAS to be clean.

Herner has a clever truck trick and a midnight sniffing crew.

Alberto's BC is bad for the climate, and it is bad for you.

Hawkins finds explosive evaps. Bin 7 RSD meets his needs

Karl's cars always start cold because it's always cold in Leeds!

Alcohol fueled Guido needs lunch to decide that it's afternoon you know.

Darrell's drivers like luxury mowers but not their lousy mileage per mow.

Arvind's got garbage trucks on the dyno. Needs 80 hp to simulate compaction.

Andrew substitutes SOA for Allen whose talk was late. Fortunately he's only out of action.

MEASUREMENT METHODS

Some of Gary's trucks emit ammonia, another NO_2 makes Tim DeFries find running losses. $Z > 2$ on RSD is what it takes. Soot-Trak Graze scatters laser haze; cooks up a few soot cakes.

I condemned Brent to WVU in winter for ETaPS comparison sakes.

Yanagisawa from Isuzu. Nice DPF studies with PTRMS are new.

The scientists are demonstrating the advantages of ratios to CO_2 .

How long will it be before the regulators write their regulations that way too?

Thank you, Evan's Garage
For your fleet of horseless carriage
I want the Roll Royce in green
Manufactured in 1915
But I can't have it. Aw shucks!
'Cause nobody will fund our research
For that many megabucks

KEYNOTE

Tom Cackette really is a rocket scientist, his
boss a superhero

Who talks funny, but then so do I. "Emissions
must go to zero."

Everyvon vill ride ze electric bus." Shades of
the late Emperor Nero.

PARTICULATE MATTER CHARACTERIZATION

Massimo Carriero works for JRC. Neither mass nor number come for free.

Kent Johnson drives a real big PEMS; CE-CERT's mobile laboratory.

Carol Wong is from Hong Kong. Trip-based OCM and filter readings can't be wrong.

Landfill gas-powered garbage trucks--right where it should belong.

The soybean powered bus became a truck in the hands of Richard Wang.

GDI tends to fry fuel into soot, says CARB's Sherry Zang.

EMISSION CONTROL MEASURES

Kittelson found nanoparticles in England. Sulphonates make sulphate.

Alberto talked for Tao; probably at twice the word per minute rate.

Besch takes FTP or ETC trips with fuzzy logic to minimize ammonia slips.

Lou installs DPFs on school buses; hard to find good positions.

Rob says EPA is under pressure not from science but from well-lubricated politicians.

Matt from NREL is punishing his Mercedes. SCR and DPF in hot pursuit.

Erkki's driving a fleet of virtual hybrids as Olavi's substitute.

PORTABLE PM MEASUREMENTS

Marc again, for Mridul; Pegasor looks a lot like an ETaPS.

Erkki for real sells clever acronyms which monitor even diesel particle traps.

Prospective PM panel plans from Hector provided by Chris.

Lauretta has a SEMTECH-LAM; its price is sure to grow.

Everywhere Lauretta goes the LAM will come we know.

With measurement allowance Imad will allow 0.03 to really mean 0.02,

While Tim compared 8 PEMS which must have been a zoo!

Let us celebrate CRC 20 with a dash of poolside plenty.

FUEL EFFECTS

Tom and Bill got extra time; for me to rhyme?

Regardless of emissions “Thou Shalt Grow Thy Fuel by 2049.”

Maryam’s at a UC school. Regardless of price “Thou Shalt Use CARB Diesel Fuel.”

The Storey is that Oak Ridge has a new sports car today.

While we have to make do with an old Chevrolet.

CNG and ethanol from Tom again; funded by the political gravy train.

Gonder’s results are very nice, but why buy a hybrid school bus at such a price?

Even Harold Haskew cannot fool a modern vehicle with flexible fuel.

OFF ROAD

From JRC came Pierre Bonnel who persuaded his PEMS to work quite well.

“OFFROAD’s wrong,” said Dev, “you see. Lower NO_x sends O₃ up by 15ppb.”

Hop on the train with Brandon Graver. Rebuild was a great fuel saver. Reefer Mark’s DPFing in the belief that we need a standard in gm per side of beef.

AZDOT’s adding lanes where there surely is no need,

But we’ll soon get good emissions data , courtesy of Stephen Reid.

Koupal’s courting trouble using RSD,

But it’s OK because he’s only using it to decide which trucks to see.

EMISSION TRENDS AND MODELING

Darlington's dealing with drafty moves in VSP bins designed to confuse.

Chris says HDDV pm does not go up even when excessive speed you use.

Actually using data, Yilin Liu states, to evaluate deterioration rates.

Gao from Cornell gives his address.

Time lag can be fixed if only you properly regress.

Oscar's into cycles, but then that is what you do.

Gonder's from a government lab. So we know that he's here to help us

To know exactly where we are, especially if we're riding his hybrid electric bus.

Dominic and Mani I must not miss
But most of the thanks for all of this
Goes to Jane, Jan, Debbie, Brent, and Chris.