

FINAL AGENDA

Portable Emissions Measurement Systems International Conference & Workshop

Shaping the Future of the Emissions in our Global Environment

<http://www.cert.ucr.edu/events/pems>

University of California, Riverside

College of Engineering - Center for Environmental Research and Technology (CE-CERT)

1084 Columbia Ave, Riverside, CA 92507

March 17 & 18, 2016

March 16-6:30 PM – 9:30 PM SEMA Facility in Diamond Bar

March 17- 7:00 AM – 5:00 PM

March 17- 6:00 PM – 9:00 PM

March 18- 8:30 AM – 12:30 PM

AVL Sponsored Reception (please RSVP)

Day 1 Conference

CE-CERT Reception

Day 2 Conference & Short Course

Day 1 Conference – March 17, 2016

07:00 AM Check-in and Continental Breakfast

08:00 AM Introduction

	University of California Riverside	Matthew Barth	Introduction & Welcome to UC Riverside, CE-CERT
1	U.S. EPA	Ed Nam	Keynote Speaker
2	NREL	Matthew Thornton	The Increasing Importance of Vehicle Real-World Data
	University of California, Riverside	Kent Johnson	In-use Testing, Trends & Predictions

09:00 AM Regulatory Developments and Trends

3	U.S. EPA	Carl Fulper	New Methodologies and Improved Data Gathering Developed for the Heavy-Duty Vehicle SCR TEST Program
4	Volvo Penta	Jonas Holmberg	EU Development of In-Use Evaluation Method for Non-Road Mobile Machinery
5	Environmental Protection Department Hong Kong	Carol Wong	On-Board Vehicle Emissions Measurements for Hybrid Buses and Light Duty Vehicles in Hong Kong

10:00 AM-10:20 AM – Break

10:20 AM Approaches for Measuring In-Use PM

6	AVL	Dan Meyer	Six-Sigma Implications of Particulate Mass Measurements at a Milligram per Mile
7	Horiba Instruments, Inc.	Michael Akard	OBS-ONE PEMS Particulate Measurement Devices and New Platform Features
8	Sensors Inc.	David Booker	Challenges for PEMS under RDE Regulations
9	Ford Motor Company	Matti Maricq	Investigating the Operating Principle of the Emisense PMTrac Sensor
10	Southwest Research Institute	Imad A. Khalek	Spark-Plug Sized Exhaust Particle Sensors for OBD and Emissions Monitoring
11	Pegasor	Erkka Saukko	Expanded Capabilities of Dual Pegasor PPS-M Sensor

12:20 PM-1:20 PM Lunch

1:20 PM Development of New Instrumentation for In-Use and PEMS Measurements

12	HEAT RSD	Stewart Hager	Remote Sensing – Connecticut Study
13	CoorsTek Sensors	Leta Woo	Development of Novel NOx Sensors and System Integration with Alumina Heater Elements
14	South Coast Air Quality Management District	Vasileios Papapostolou	Low Cost Sensor Evaluation Update
15	UC Riverside	Yu Jiang	Evaluation of NGK Spark Plug Compact Emission Measurement System

2:40 PM-3:00 PM – Break

3:00 PM Research Developments

16	West Virginia University	Daniel Carder	The VW Story and Its Impact on Future In-use Emissions Compliance and Control Technologies
17	Emissions Analytics	Nick Molden	The Role of In-use PEMS Testing to Ensure Regulatory Compliance and Policy Effectiveness
18	North Carolina State University	Chris Frey	Sensitivity of Light Duty Gasoline Vehicle Emissions-Based Scoring to Real-World Emissions Versus Emission Standards

4:00 PM Panel Discussion

Panel: This will be a roundtable discussion on trends, tools, and needs for in-use testing.

U.S. Environmental Protection Agency	Ed Nam
NREL	Matt Thornton
California Air Resources Board	Tao Huai
Ford Motor Company	Matti Maricq
University of California Riverside	Kent Johnson

5:00 PM End of Day 1 Workshop

6:00 PM – 9:00 PM – Reception with Refreshments

**UC Riverside- College of Engineering –Center for Environmental Research and Technology (CE-CERT)
1084 Columbia Avenue
Riverside, CA 92507**

Day 2 Conference and Workshop

08:30 AM Introductions by Matthew Barth

19	Department of Energy	Leo Breton	Keynote Speaker: Thinking Off-Cycle About the Future of PEMS
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09:00 AM Instrumentation and Approaches for In-Use Measurements

20	University of Leeds	Karl Ropkins	Next Generation (Smaller, Lower Cost, Lower Energy Consumption) PEMS
21	InFoWedge	Andrew Burnette	Next Generation (Smaller, Lower cost, Lower Energy Consumption) PEMS
22	Texas Southern Research Institute	Fengxiang Qiao	Using Portable Emission Measurement System to Test Emissions of Light Duty Vehicle on Texas Highways with Different Pavement Roughness
23	Aerosol D.O.O	Irena Jezek	Real-World Black Carbon, Particle Number Concentration and Nitrogen Oxide Vehicle Emission Factors: On-Road Chasing Campaign Results

010:20 AM-10:40 AM Break

10:40 AM Comparison of In-Use Data Analysis Approaches

24	U.S. EPA	Carl Fulper	Improvements to Gathering Activity Data Using Portable Activity Measurement Systems (PAMS) with Cellular Link
25	UC Riverside	George Scora	Truck Activity Project
26	UC Riverside	Kent Johnson	Developing Individual and Fleet Survey Forms for Better Data Analysis for Heavy-Duty Vehicles
27	Eastern Research Group	Michael Sabisch	Developing a Set of Heavy-Duty Vehicle Data Fields (SAE J1939) For Better Data Analysis

12:00 PM – Lunch

12:30 PM – 01:30 PM

Short Course

University of California, Riverside

Same location as main conference