AGENDA

SPONSORS
Engine Manufacturers Association
AVL Test Systems Inc.
South Coast Air Quality Management District
Clean Air Technologies International, Inc.
California Air Resources Board
Horiba ATS
EmiSense Technologies, LLC
Watlow
Sensors, Inc.

SPONSOR DEMONSTRATIONS
AVL AVL M.O.V.E. Demonstration Vehicle
AVL DiTEST integrated portable gaseous & smoke measurement instruments
AVL APC 489 Particle Counter
CATI PM and Gaseous integrated system
Horiba OBS-2200 (On-Board Emissions Measurement System)
OBS-2000TRPM (Transient Response Particulate Measurement)
Sensors SEMTECH Gaseous and PM PEMS Systems
Watlow Temperature Sensors and Heaters
EmiSense Low Cost PM Sensors/OBD

Riverside Convention Center, Riverside, California
March 24, 2011
# PRELIMINARY AGENDA

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:30</td>
<td>Registration, breakfast, and equipment discussions</td>
<td></td>
</tr>
<tr>
<td>08:30</td>
<td>Welcome</td>
<td>Matt Barth, CE-CERT</td>
</tr>
<tr>
<td>08:35</td>
<td>Opening Comments</td>
<td>Jane W. Carney, SCAQMD Governing Board Member</td>
</tr>
<tr>
<td>08:45</td>
<td>A Focus on PEMS</td>
<td>Kent Johnson, CE-CERT</td>
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## SESSION 1: Regulatory Perspective

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:55</td>
<td>U.S. Agency</td>
<td>John Koupal, Environmental Protection Agency (EPA)</td>
</tr>
<tr>
<td>09:10</td>
<td>European Agency</td>
<td>Pierre Bonnel, European Commission – Joint Research Center (JRC)</td>
</tr>
<tr>
<td>09:25</td>
<td>Chinese Experience</td>
<td>Sandeep Kushan, Eastern Research Group, Inc.</td>
</tr>
<tr>
<td>09:40</td>
<td>California Experience</td>
<td>Stephan Lemieux, CARB</td>
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<tr>
<td>09:55</td>
<td>U.S. Industry</td>
<td>Shirish Shimpi, Engine Manufacturing Association (EMA)</td>
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<tr>
<td>10:10</td>
<td>Discussion</td>
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<tr>
<td>10:30</td>
<td>BREAK</td>
<td>Demonstrations, posters and equipment discussions</td>
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</tbody>
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## SESSION 2: Applications Part 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Institution</th>
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</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Caterpillar</td>
<td>Joel Squire, AVL’s PEMS Lessons</td>
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<tr>
<td>11:20</td>
<td>Volvo Powertrain NA</td>
<td>Steve Trevitz, Horiba’s PEMS Lessons</td>
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<tr>
<td>11:40</td>
<td>Detroit Diesel</td>
<td>Craig Kazmierczak, Sensors’s PEMS Lessons</td>
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<tr>
<td>12:00</td>
<td>ISSRC</td>
<td>Jim Lents, Sensors’s PEMS Modeling/Global</td>
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<tr>
<td>12:20</td>
<td>Cornell University</td>
<td>Dane Westerdahl, Multiple Systems Inventory</td>
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<tr>
<td>12:40</td>
<td>LUNCH</td>
<td>Demonstrations, posters and equipment discussions</td>
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</tbody>
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## SESSION 3: Applications Part 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Institution</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td>UC Riverside</td>
<td>Kent Johnson, Various PEMS Ocean/Construction</td>
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<tr>
<td>14:20</td>
<td>NC State University</td>
<td>Chris Frey, CATI’s System Modeling</td>
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<tr>
<td>14:40</td>
<td>CARB</td>
<td>John Karim, Various PEMS Showcase program</td>
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<tr>
<td>15:00</td>
<td>EPA/ERG</td>
<td>Carl Fulper, Various PEMS Farm Equipment</td>
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<tr>
<td>15:20</td>
<td>Univ. of Houston</td>
<td>Rachel Muncrief, Various PEMS Construction Equipment</td>
</tr>
<tr>
<td>15:40</td>
<td>BREAK</td>
<td>Demonstrations, posters and equipment discussions</td>
</tr>
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## WRAP UP: Panel Discussion from Regulatory Panel

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Information</th>
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</thead>
<tbody>
<tr>
<td>16:00</td>
<td>Panel Discussion</td>
<td>PEMS usages and recommendations</td>
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<tr>
<td>16:30</td>
<td>CE-CERT</td>
<td>Closing remarks</td>
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