

Primary Quality Assurance Organization Training
Module 3: Air Monitoring Instrument Operation
July 28-29, 2015 • McClellan Wild Land Training Center

MONDAY, JULY 27, 2015

2:00 – 5:00 p.m. **Exhibitor Set-Up**

TUESDAY, JULY 28, 2015

8:00 – 8:30 a.m. **Registration and Exhibit Viewing**

8:30 – 8:45 a.m. **Welcome – Overview of Training Program**
Michael Miguel

8:45 – 9:15 a.m. **Keynote Address**
Alberto Ayala

9:15 – 10:15 a.m. **Laboratory Analyses: Beyond the Masses**
Michael Werst

10:15 – 10:45 a.m. **Break and Exhibit Viewing**

10:45 – 11:30 a.m. **Air Monitoring and New Technology**
Ken Stroud

11:30 – 11:45 a.m. **Breakout Sessions**
Michael Miguel

11:45 – 1:00 p.m. **Lunch and Exhibit Viewing**

1:00 – 5:00 p.m. **Breakout Session 1**
SEE PAGES 2-3

5:00 – 5:30 p.m. **Exhibit Viewing**

5:30 – 6:30 p.m. **Evening Reception**

WEDNESDAY, JULY 29, 2015

7:30 – 8:00 a.m. **Registration and Exhibit Viewing**

8:00 – 12:00 p.m. **Breakout Session 2**
SEE PAGES 4-5

12:00 – 1:00 p.m. **Lunch, Exhibit Viewing and Audit Van
Tours**

1:00 – 5:00 p.m. **Breakout Session 3**
SEE PAGES 6-7

5:00 p.m. **Training Concludes**

BREAKOUT SESSION 1: 1:00 – 5:00 p.m.

| Thermo (Gaseous Analyzers) | Thermo (PM Samplers) | Teledyne/API (Gaseous Analyzers) | Teledyne/API (PM Samplers) | Met One (PM Samplers/Met) | American Ecotech | Alicat/ 2B Technologies, Inc. |
|--|--|---|--|--|---|--|
| <i>Thirty Mile A</i> | <i>Thirty Mile B</i> | <i>Banning</i> | <i>Inaja</i> | <i>Guide</i> | <i>Loop A</i> | <i>Loop B</i> |
| <p>1:00 - 2:00 p.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation (NOx-42i and 03-49i) Overview of Instrument Manuals Brief Overview of SO2-43i and CO-48i What's New! Question/Answer Session <hr/> <p>2:00 - 3:15 p.m. (NOx-42i – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting <hr/> <p>3:15 - 3:45 p.m. BREAK</p> <hr/> <p>3:45 - 5:00 p.m. (03-49i – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting | <p>1:00 - 2:00 p.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation (2000i and 2025i) Overview of Instrument Manuals Brief Overview of 5014i Beta Continuous Monitor and TEOM Ambient Particle Monitor What's New! Question/Answer Session <hr/> <p>2:00 - 2:30 p.m. (2000i)</p> <ul style="list-style-type: none"> General Operation <hr/> <p>2:30 - 3:15 p.m. (2025i)</p> <ul style="list-style-type: none"> General Operation <hr/> <p>3:15 - 3:45 p.m. BREAK</p> <hr/> <p>3:45 - 5:00 p.m. (2000i and 2025i – Hands-on)</p> <ul style="list-style-type: none"> Maintenance Troubleshooting | <p>1:00 - 2:00 p.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation Overview of Instrument Manuals What's New! Question/Answer Session <hr/> <p>2:00 - 3:15 p.m. (03 – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting <hr/> <p>3:15 - 3:45 p.m. BREAK</p> <hr/> <p>3:45 - 5:00 p.m. (NOx – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting | <p>1:00 - 2:00 p.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation Overview of Instrument Manuals What's New! Question/Answer Session <hr/> <p>2:00 - 3:15 p.m. (602 – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting <hr/> <p>3:15 - 3:45 p.m. BREAK</p> <hr/> <p>3:45 - 5:00 p.m. (633BC – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting | <p>1:00 - 2:00 p.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation (BAM 1020/SASS and MET) Overview of Instrument Manuals Brief Overview (BAM 1020/SASS and MET) What's New! Question/Answer Session <hr/> <p>2:00 - 3:15 p.m. (BAM 1020/SASS – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting <hr/> <p>3:15 - 3:45 p.m. BREAK</p> <hr/> <p>3:45 - 5:00 p.m. (Met: Sonic and Anemometer – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting | <p>Gaseous Analyzers</p> <ul style="list-style-type: none"> Continuous VOC Turnkey PAMS O3, NOx, H2S/SO2, CO, NH3 Dilution Calibrator <p>Particulate Monitoring</p> <ul style="list-style-type: none"> Nephelometer Smoke Monitoring Climate Change Monitoring Hi-Vol and MicroVol air samplers <p>Data Systems Management</p> <ul style="list-style-type: none"> Improvements with Remote Maintenance Mini-Logger & Digital Logger Data Validation Software <p>Gaseous Analyzers</p> <ul style="list-style-type: none"> Lower Cost Monitoring Shelters Assistance with site setup & operations | <p>ALICAT</p> <p>We make a multivariate calibration device for flow, temperature, and pressure, which is used to calibrate gas analyzer calibrators and PM samplers. Our device features instantaneous flow readings as well as averaged flow readings depending on what you need for your data. Come see us in Loop B to get a look at our product and learn more about Alicat!</p> <p>2B TECHNOLOGIES, INC.</p> <ul style="list-style-type: none"> Model 211 Interference free Ozone monitor Model 202/205 Portable FEM Ozone monitors Model 306 Portable Ozone Calibration Source™ 0 – 1000 ppbv POM - The smallest UV based Ozone monitor in the market Model 405nm direct absorbance NO2/NO/NOx monitor™ |

TUESDAY, JULY 28, 2015

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BREAKOUT SESSION 1: 1:00 – 5:00 p.m.
(continued)

| Calibration Devices/CPCs | Particulates/Data Loggers | Special Projects | General |
|---|--|--|---|
| <i>Hamm A</i> | <i>Hamm B</i> | <i>Mann Gulch</i> | <i>Cerro Grande</i> |
| <p>1:00 – 2:05 p.m. BGI Mesa Labs (Calibration Devices)</p> <ul style="list-style-type: none"> • General Operation • Instrument Overview • Troubleshooting • What's New! • Question/Answer Session <hr/> <p>2:05 – 3:15 p.m. Sabio (Calibration Devices)</p> <ul style="list-style-type: none"> • General Operation • Instrument Overview • Troubleshooting • What's New! • Question/Answer Session <hr/> <p>3:15 - 3:45 p.m. BREAK</p> <hr/> <p>3:45 - 5:00 p.m. TSI (Particle Counter)</p> <ul style="list-style-type: none"> • Theory and Principles of Operation • Overview of Instrument Manual • General Operation • Maintenance/Troubleshooting • Question/Answer Session | <p>1:00 – 1:45 p.m. Tisch</p> <ul style="list-style-type: none"> • Theory and Principles of Sampler Operation • Overview of Instrument Manuals • What's New! • Question/Answer Session <hr/> <p>1:45 – 2:30 p.m. Tisch (Hi-Vol – Hands-on)</p> <ul style="list-style-type: none"> • General Operation • Maintenance • Troubleshooting <hr/> <p>2:30 – 3:15 p.m. Tisch (TE Wilbur – Hands-on)</p> <ul style="list-style-type: none"> • General Operation • Maintenance • Troubleshooting <hr/> <p>3:15 - 3:45 p.m. BREAK</p> <hr/> <p>3:45 - 5:00 p.m. Agilaire (Data Logger/Management)</p> <ul style="list-style-type: none"> • General Operation • Instrument Overview • Troubleshooting • What's New! • Question/Answer Session | <p>1:00 – 1:45 p.m. South Coast AQMD</p> <ul style="list-style-type: none"> • Air Quality Sensor Performance Evaluation Center – Andrea Polidori <hr/> <p>1:45 – 2:30 p.m. Great Basin APCD</p> <ul style="list-style-type: none"> • Lakebed Update – Chris Lanane <hr/> <p>2:30 – 3:15 p.m. ARB</p> <ul style="list-style-type: none"> • Emergency Response Monitoring – Greg Vlasek <hr/> <p>3:15 - 3:45 p.m. BREAK</p> <hr/> <p>3:45 – 4:15 p.m. ARB</p> <ul style="list-style-type: none"> • Performance Evaluation of a Condensation Particle Counter – Ahmed Mehadi <hr/> <p>PARKING LOT</p> <p>3:45 – 4:15 p.m. ARB (Through-The-Probe Audits)</p> <ul style="list-style-type: none"> • General Overview • Audit Demonstration • Question/Answer Session <hr/> <p>4:15 – 4:45 ARB (Through-The-Probe Audits)</p> <ul style="list-style-type: none"> • General Overview • Audit Demonstration • Question/Answer Session <hr/> <p>3:45 – 5:00 Air Monitoring Trailer Demo (Thermo)</p> <ul style="list-style-type: none"> • General Overview • Question/Answer Session | <p>2:00 – 2:45 p.m. ARB (Filter Handling Presentation/ Demonstration)</p> <ul style="list-style-type: none"> – Alicia Adams/Nial Maloney • General Overview • Inspection Process/Demo • Question/Answer Session <hr/> <p>2:45 – 3:15 p.m. ARB (Toxics/GHG Analyses)</p> <ul style="list-style-type: none"> – Kathy Gill • General Overview • Analytical Process • Question/Answer session <hr/> <p>3:15 - 3:45 p.m. BREAK</p> <hr/> <p>3:45 – 5:00 p.m. STI</p> <ul style="list-style-type: none"> – Natalie LaGuardia • Electronic Site Information Management System • Data Management Demo • Question/Answer Session |


WEDNESDAY, JULY 29, 2015

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BREAKOUT SESSION 2: 8:00 – 12:00 p.m.

| Thermo (Gaseous Analyzers) | Thermo (PM Samplers) | Teledyne/API (Gaseous Analyzers) | Teledyne/API (PM Samplers) | Met One (PM Samplers/Met) | American Ecotech | Alicat/ 2B Technologies, Inc. |
|---|--|--|---|---|---|--|
| <i>Thirty Mile A</i> | <i>Thirty Mile B</i> | <i>Banning</i> | <i>Inaja</i> | <i>Guide</i> | <i>Loop A</i> | <i>Loop B</i> |
| <p>8:00 - 9:00 a.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation (NOx-42i and O3-49i) Overview of Instrument Manuals Brief Overview of SO2-43i and CO-48i What's New! Question/Answer Session <hr/> <p>9:00 - 10:15 a.m. (NOx-42i – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting <hr/> <p>10:15 - 10:45 a.m. BREAK</p> <hr/> <p>10:45 - 12:00 p.m. (O3-49i – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting | <p>8:00 - 9:00 a.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation (2000i and 2025i) Overview of Instrument Manuals Brief Overview of 5014i Beta Continuous Monitor and TEOM Ambient Particle Monitor What's New! Question/Answer Session <hr/> <p>9:00 - 9:30 a.m. (2000i)</p> <ul style="list-style-type: none"> General Operation <hr/> <p>9:30 - 10:15 a.m. (2025i)</p> <ul style="list-style-type: none"> General Operation <hr/> <p>10:15 - 10:45 BREAK</p> <hr/> <p>10:45 - 12:00 p.m. (2000i and 2025i – Hands-on)</p> <ul style="list-style-type: none"> Maintenance Troubleshooting | <p>8:00 - 9:00 a.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation Overview of Instrument Manuals What's New! Question/Answer Session <hr/> <p>9:00 - 10:15 a.m. (O3 – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting <hr/> <p>10:15 - 10:45 a.m. BREAK</p> <hr/> <p>10:45 - 12:00 p.m. (NOx – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting | <p>8:00 - 9:00 a.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation Overview of Instrument Manuals What's New! Question/Answer Session <hr/> <p>9:00 - 10:15 a.m. (602 – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting <hr/> <p>10:15 - 10:45 a.m. BREAK</p> <hr/> <p>10:45 - 12:00 p.m. (633BC – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting | <p>8:00 - 9:00 a.m.</p> <ul style="list-style-type: none"> Theory and Principles of Operation (BAM 1020/SASS and MET) Overview of Instrument Manuals Brief Overview (BAM 1020/SASS and MET) What's New! Question/Answer Session <hr/> <p>9:00 - 10:15 a.m. (BAM 1020/SASS – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting <hr/> <p>10:15 - 10:45 a.m. BREAK</p> <hr/> <p>10:45 - 12:00 p.m. (Met: Sonic and Anemometer – Hands-on)</p> <ul style="list-style-type: none"> General Operation Maintenance Troubleshooting | <p>Gaseous Analyzers</p> <ul style="list-style-type: none"> Continuous VOC Turnkey PAMS O3, NOx, H2S/SO2, CO, NH3 Dilution Calibrator <p>Particulate Monitoring</p> <ul style="list-style-type: none"> Nephelometer Smoke Monitoring Climate Change Monitoring Hi-Vol and MicroVol air samplers <p>Data Systems Management</p> <ul style="list-style-type: none"> Improvements with Remote Maintenance Mini-Logger & Digital Logger Data Validation Software <p>Gaseous Analyzers</p> <ul style="list-style-type: none"> Lower Cost Monitoring Shelters Assistance with site setup & operations | <p>ALICAT</p> <p>We make a multivariate calibration device for flow, temperature, and pressure, which is used to calibrate gas analyzer calibrators and PM samplers. Our device features instantaneous flow readings as well as averaged flow readings depending on what you need for your data. Come see us in Loop B to get a look at our product and learn more about Alicat!</p> <p>2B TECHNOLOGIES, INC.</p> <ul style="list-style-type: none"> Model 211 Interference free Ozone monitor Model 202/205 Portable FEM Ozone monitors Model 306 Portable Ozone Calibration Source™ 0 – 1000 ppbv POM - The smallest UV based Ozone monitor in the market Model 405nm direct absorbance NO2/NO/NOx monitor™ |

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| Calibration Devices/CPCs | Particulates/Data Loggers | Special Projects | General |
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| <i>Hamm A</i> | <i>Hamm B</i> | <i>Mann Gulch</i> | <i>Cerro Grande</i> |
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BREAKOUT SESSION 3: 1:00 – 5:00 p.m.

| Thermo (Gaseous Analyzers) | Thermo (PM Samplers) | Teledyne/API (Gaseous Analyzers) | Teledyne/API (PM Samplers) | Met One (PM Samplers/Met) | American Ecotech | Alicat/ 2B Technologies, Inc. |
|---|---|---|---|--|---|--|
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BREAKOUT SESSION 3: 1:00 – 5:00 p.m.
(continued)

| Calibration Devices/CPCs | Particulates/Data Loggers | Special Projects | General |
|---|--|---|--|
| <i>Hamm A</i> | <i>Hamm B</i> | <i>Mann Gulch</i> | <i>Cerro Grande</i> |
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