

Final Program

***Stationary Source Sampling and
Analysis for Air Pollutants
XXVII[®]***

March 16 – 21, 2003

Catamaran Resort Hotel
San Diego, California

Conference Chair

**Michael W. Hartman
Air-Tech Environmental**

Conference Co-Chair

**Peter R. Westlin
U.S. EPA**

**Engineering Conferences International
Six MetroTech Center
Brooklyn, NY 11201**

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Sunday, March 16, 2003

16:00 - 18:30 Registration (Kon Tiki Foyer, 2nd Level)

17:30 - 18:30 Social hour

18:30 - 19:30 Dinner

19:30 - 22:00 **Session 1 - Looking for Answers in All the Right Places**

Session Chairs: Mike Hartman and Peter Westlin

Purpose of this session is to provide a forum for the stack testing community to identify and assess the critical priorities that affect our relationships with each other and the results of our work. The format will include small group discussions to identify and examine elements of our operations and products that could stand the light of criticism and to look for means to improvement. Followup will include a combined group discussion of the results identifying common themes and issues that we will use for reference throughout the next five days of the conference.

We will use brain-storming techniques and small and large group conversations. There will be individual and group exercises to stimulate discussion and total group involvement with time limits to ensure progress. We will try to ensure that all voices are heard and make the outcome visible and meaningful to all.

22:00 - 23:00 Social hour

Important Notes

- **All technical sessions will take place in the Kon Tiki Ballroom (2nd Level).**
- **All meals and social hours will take place in the Rousseau Center(1st Level) and coffee breaks will take place in the Kon Tiki Foyer.**
- **Please observe “No Smoking” at ECI technical sessions, meals and social hours.**
- **Speakers should allow time at the end of their presentation for questions and discussion.**
- **Please turn cell phones off or to vibrate during technical sessions.**

Monday, March 17, 2003

- 07:00 - 08:30 Breakfast
- 08:30 - 12:00 **Session 2 - EPA Methods/Modifications/Updates**
Session Chair: Kaye Whitfield, EPA, OAR, Emissions Measurement Center
- Instrumental Test Methods Revisions**
Foston Curtis, EPA, OAR, Emissions Measurement Center
- Mercury CEMS Update**
Barrett Parker, EPA, OAR, Emissions Measurement Center
- 10:00 - 10:30 Coffee Break
- Development of Optical Remote Sensing Method to Determine Emission Flux from Nonpoint Sources**
Robin Segall, EPA, OAR, Emissions Measurement Center
- Tools for the New Flow Test Methods - FLOW-CALC Software and the Observer's Checklist**
John Schakenbach, EPA, OAR, Clean Air Markets Division
- 12:00 - 13:00 Lunch
- 13:00 - 17:30 *Ad hoc sessions/Free time/Scavenger hunt*
- 17:30 - 18:30 Social hour
The social hour and dinner will be on board the acclaimed William D. Evans paddle-wheel boat which will cruise Mission Bay. Please note that the boat will leave the dock promptly at 5:45 pm – be there or be left. Be sure to wear your name badge!
- 18:30 - 19:30 Dinner (cruise)
- 19:30 - 22:00 **Session 3 - International Issues**
Session Chair: Simon Medhurst, Source Testing Association
- EU Standards - The Next Chapter**
Simon Medhurst, Source Testing Association
- MCERTS for Manual Stack Emissions Monitoring**
Elaine Marshall, Environment Agency, UK
- 21:00 - 21:20 Break
- Cost of Quality Monitoring**
Simon Medhurst, Source Testing Association
- Novel Portable Mass Spectrometer Takes the Lab to the Field**
Dr. Fraser Reich, Horiba/KORE
- 22:00 - 23:00 Social hour

Tuesday, March 18, 2003

07:00 - 08:30 Breakfast

08:30 - 12:00

Session 4 - Data Quality Issues

Session Chair: Wayne Hunt, Arizona Department of Environmental Quality

Determination of Uncertainties in Continuous Emissions Measurement Systems Used for Stationary Sources with Low-NO_x Emissions

David Pankratz, William Welch, Dennis Fitch, College of Engineering Center for Environmental Research and Technology, University of California - Riverside

Methods 2F and 2G Audits of Wind Tunnels used to Calibrate Velocity Probes

John Schakenbach, EPA, OAR, OAP, Clean Air Markets Division

10:00 - 10:30

Coffee Break

Voluntary Superior Monitoring

Tom Driscoll, EPA, OAR, Emissions Measurement Center

Pitot Tube / Sampling Probe Calibration

Roy Owens, Owens Corning

12:00 - 13:00

Lunch

13:00 - 17:30

Ad hoc sessions/Free time/Scavenger hunt/Golf tournament

17:30 - 18:30

Social hour

18:30 - 19:30

Dinner

19:30 - 22:00

Session 5 - Accreditation Panel Discussion

Session Chair: Walt Smith, Walter Smith and Associates, Inc.

Panelists

Jeff Babb, Georgia Department of Natural Resources

Jim Davis, Louisiana Department of Environmental Quality

Scott Evans, Clean Air Engineering

Mike Hartman, AirTech Environmental, Inc.

Byron Richwine, Pennsylvania Department of Environmental Protection

John Schakenbach, EPA OAR, Clean Air Markets Division

David Todd, California Air Resources Board

Wayne Stollings, Triangle Environmental Services, Inc.

Wednesday, March 19, 2003

07:00 - 08:30

Breakfast

08:30 - 12:00

Session 6 - FTIR, GC/MS, and Others

Session Chair: Roy Owens, Owens Corning

FTIR Monitoring in High Water Content Industrial Sources

Robert Spellacy, Industrial Monitoring and Control Corp.

Scott Swiggard, Golden Specialty Consulting

X-Ray Based Continuous Emissions Monitor for Multi-Metals and Mercury

John Cooper, B. E. Johnsen, S. C. Fry, M. P. Nakanishi, Cooper

Environmental Services

10:00 - 10:30

Coffee Break

Long-Term Semi-Continuous Dioxin/Furan Sampling Systems

Gene Riley, EPA, OAR, Emissions Measurement Center

Long-Term Sampling of Dioxin/Furans with AMESA® - Newest Results by Using the Standard for Continuous PCCD/PCDF Emissions Control

Jürgen Riemann, BM Becker Messtechnik GMBH, Germany

12:00 - 13:00

Lunch

13:00 - 17:30

Ad hoc sessions/Free time/Scavenger hunt/Volleyball tournament

17:30 - 18:30

Social hour (return scavenger hunt results)

18:30 - 19:30

Dinner

19:30 - 22:00

Session 7 - Potpourri

Session Chair: Tom Rose, Eastern Technical Associates

Aerosol Beam Focused Laser Induced Plasma Spectrometer

Bryan Harre, US Navy

Fabric Filter Leak Detector Installations

Phil Juneau, B3 Systems

21:00 - 21:15

Break

Insights into Proposed Revisions to Method 23

Yves Tondeur, Alta Analytical Perspectives, Inc.

New Tools for Opacity Measurements

(ETA representative)

22:00 - 23:00

Social hour and Source Evaluation Society *Hall of Fame* Roast

Thursday, March 20, 2003

- 07:00 - 08:30 Breakfast
- 08:30 - 12:00 **Session 8 - Low Levels**
Session Chair: Robert Mann, TNRCC
- SCAQMD Experience with Measuring Low-NO_x Concentrations in Gas Turbine Emissions**
John Higuchi, South Coast Air Quality Management District
- Ammonia Measurement Experience**
Eric Rodriguez, Clean Air Engineering
- 10:00 - 10:30 Coffee Break
- Incorporating FTIR to Conduct H₂SO₄ Measurements at Power Utilities**
Steve Hall, Gary Blythe, John Camin, Walt Gray, Curt Laush, URS Corporation, R. Rhudy, Electric Power Research Institute
- Low PPM Calibration Gases, Better Accuracy and other issues in Calibrations**
Robert Davis, Scott Specialty Gases
- 12:00 - 13:00 Lunch
- 13:00 - 17:30 *Ad hoc* sessions - SES annual meeting and 2004 Conference planning meeting
- 17:30 - 18:30 Social hour
- 18:30 - 19:30 Dinner (Conference awards banquet)
- 19:30 - 22:00 **Session 9 - Back to Basics**
Session Chair: Jim Meador, Western Environmental Services & Testing, Inc.
- Use of SUMMA Canisters in Stack Testing**
Steve Eckard, Enthalpy Analytical, Inc.
- Optimizing Chemiluminescence NO_x for Single Digit ppm Monitoring from Combustion Sources**
J. Ron Jernigan, P.E., DEE, Thermo Environmental Instruments
- 21:00 Break
- Measurement of Landfill Emissions: Overview of a State-of-the-Art Control and Monitoring Program**
Mark McDannel, Los Angeles County
- An Evaluation Of Field Applications Issues with Method 202**
Larry Cottone, CCI Environmental Consultants, Inc.
- 22:00 - 23:00 Social hour

Friday, March 21, 2003

07:00 - 08:30

Breakfast

08:30 - 12:00

Session 10 - New Methods

Session Chair: Ray Merrill, Eastern Research Group

Sampling Batch Polymer Process Emissions

Ruth Albright, Fletcher Group

Sampling and Analysis for Hydrogen Cyanide Emissions from Combustion Sources: Sodium Hydroxide versus Zinc Acetate

David Maxwell, The Highland Group

10:00 - 10:30

Coffee Break

Methods Comparison and Validation of the TEOM Series 7000 as an Alternative Method for Measuring Particulate Matter Emissions from Coal-Fired Utility Sources

Edward C. Burgher, Michael B. Meyer, Robert C. Anderson,
Rupprecht & Patashnick Co.

Discussion and conference wrap-up

12:00 - 13:00

Lunch and departure