



Environmental Measurement Symposium

A Combined Meeting of
The National Environmental Monitoring Conference
and The Forum on Laboratory Accreditation

Washington, DC
August 10 – 16, 2008

Sponsors



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Welcome to the Environmental Measurement Symposium

Your attendance and participation are key elements to the Symposium's success. Look forward to a week of shared expert knowledge, energetic discussions of current issues and concerns affecting our industry, exploration of products and services to support your endeavors, and invaluable networking with peers.

If this is your first time to attend the Symposium, we hope you will find it stimulating and beneficial. Our registration staff is available to assist you with any questions you may have or to help you locate individuals you would like to meet. Please let us know how we may help make your participation at the Symposium a success.

Have a great week!

Site Map and General Information

Continental breakfast, lunch and breaks are provided daily.

Continental breakfast is from 7:30 – 8:00.

Breaks are from 10:00 – 10:30 and 3:00 – 3:30.

Lunches are from 12:00 – 1:30.

Exhibition Regency Columbia Foyer

Meet with instrument manufacturers, laboratory suppliers, LIMS providers, and other laboratory service providers. See the latest innovations in measurement technology, proficiency testing, sample preparation, and laboratory automation.

Exhibit Hours

Monday

5:30 – 7:00

Tuesday

7:30 – 8:00

10:00 – 10:30

12:00 – 1:30

3:00 – 3:30

Wednesday

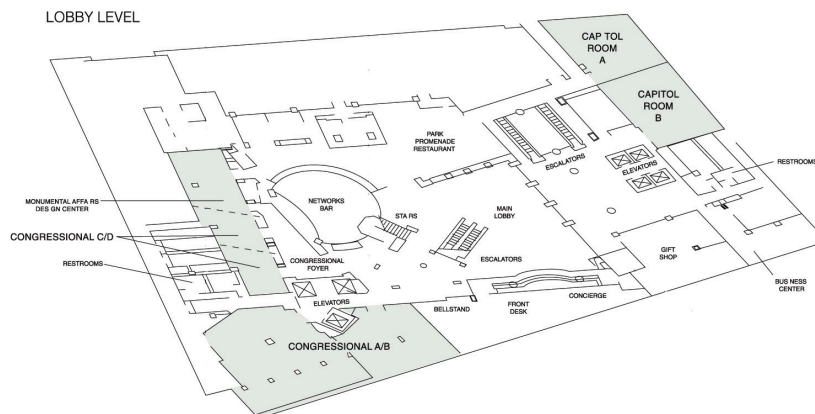
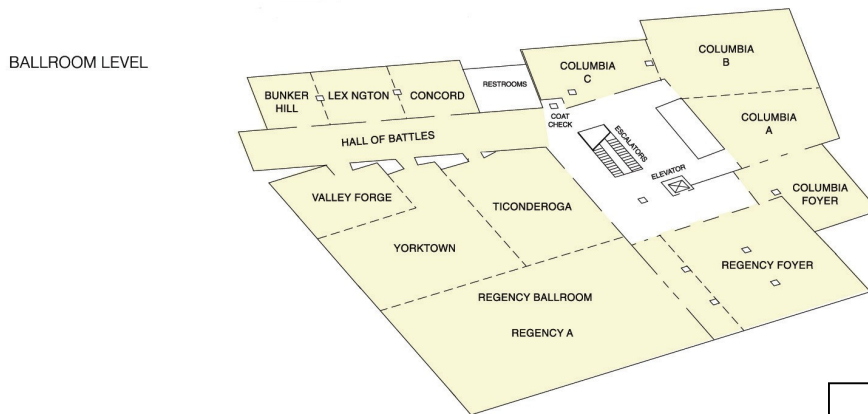
7:30 – 8:00

10:00 – 10:30

12:00 – 1:30

3:00 – 3:30

5:30 – 7:00



Agilent Technologies

is pleased to sponsor
free internet access

adjacent to the
Columbia Ballrooms
during conference hours.

Keynote Addresses

Monday, 8:00, Regency Ballroom

Do We Need Elemental Speciation in Environmental Monitoring?



Dr. Jörg Feldman
University of Aberdeen

The lecture will give an overview about the elemental species of concern in environmental monitoring. It will highlight the implementation into legislation, and focus on analytical difficulties concerning accurate and precise determination of relevant element species. The lecture will illustrate why elemental speciation not only is a key for risk assessment, but also is important to understand how elements are transported from contaminated soil into plants, and how they translocate. Reference will be given to the world-wide unique combination of elemental and molecular mass spectrometry simultaneously hyphenated to HPLC and how it is used for identification and quantification of arsenic species at the soil/plant interface. As an example, the data collected from food surveys on arsenic in rice products will be presented and discussed within the context of arsenic exposure.

Dr. Feldman has a PhD in Environmental Analytical Chemistry (University of Essen in Germany). He has more than 100 peer-reviewed publications and more than 70 invited/keynote lectures at international conferences. He has served on the Editorial / Advisory Boards of Journal of Environmental Monitoring, Analytical Bioanalytical Chemistry, Environmental Chemistry, and Applied Organometallic Chemistry.

Tuesday, 8:00, Regency Ballroom

EPA and Nanotechnology: Oversight for the 21st Century



Dr. J. Clarence (Terry) Davies
Resources for the Future

Nanotechnology has enormous potential to improve everyone's life. For the potential to be realized, the new technology must be subject to an adequate oversight system, a system designed to identify and prevent any adverse effects of nano on health or the environment. The accelerating pace of nano discoveries and new products means that time is running short for the establishment of an oversight system. Action is needed now. EPA has a key role in nanotechnology oversight. The lack of scientific information about nanomaterials and the inadequacy of methods for monitoring workplace and ambient levels of the materials are major impediments. There are a large number of steps that can and should be taken now to provide oversight for nano. However, future steps will depend on learning more about the risks of nano, on our ability to monitor nanomaterials, and on developments in nanotechnology itself.

Dr. Davies has a Ph.D. in American Government from Columbia University and is a political scientist who has written several books and numerous articles about environmental policy. He chaired the National Academy of Sciences Committee on Decision Making for Regulating Chemicals in the Environment. In addition, while serving as a consultant to the President's Advisory Council on Executive Organization, he co-authored the reorganization plan that created the USEPA. Dr. Davies has held positions as Assistant Professor of Public Policy at Princeton University; Executive Vice President of the Conservation Foundation; Assistant Administrator for Policy at the EPA; and Executive Director of the National Commission on the Environment.

Thursday, 8:00, Regency Ballroom

Moving Forward on National Accreditation



Mr. Robert Wyeth
Columbia Analytical Services

In 1978, the US Environmental Protection Agency (EPA) initiated a laboratory certification program for laboratories involved in analyzing drinking water and delegated the authority for operation of the program to state agencies. Over the ensuing years, many states expanded this program to include other environmental media. As a result of efforts that began in 1987, a National Environmental Laboratory Accreditation Program (NELAP) has been created and is now managed by The NELAC Institute (TNI). This presentation will provide information about the future of the national laboratory accreditation program for environmental laboratories.

Mr. Wyeth has a Masters Degree in Environmental Analytical Chemistry and 35 years of direct experience in all types of environmental laboratory operations. Mr. Wyeth serves on the Board of Directors of The NELAC Institute, is a board member and past chairman of the Environmental Sciences Section of the American Council of Independent Laboratories, member and past National Chairman of the Lab Practices Committee of the Water Environment Federation, member and co-founder of the New York State Association of Approved Environmental Laboratories, active member of numerous other trade organizations and member of EPA's Environmental Laboratory Advisory Board.

Friday, 8:00, Regency Ballroom

Global Monitoring of Persistent Organic Pollutants (POPs): UNEP's Experiences and First Results



Dr. Heidelore Fiedler
United Nations Environment Programme (UNEP)

The Stockholm Convention on Persistent Organic Pollutants (POPs) entered into force on May 17, 2004 and presently has 153 Parties. The initial twelve POPs include eight pesticides, two industrial chemicals, and two unintentional chemicals. A UNEP project has established general guidance for POPs analysis and a databank of operating POPs laboratories. The recommended instrumentation for POPs analysis are capillary gas chromatography coupled to electron capture or mass-selective detectors. The methods applied should be validated and results confirmed through successful participation in international intercalibration studies.

Dr. Fiedler is the Scientific Affairs Officer for UNEP and has a Ph.D. in Chemistry from the University of Saarland in Saarbruecken, Germany. She is responsible for the dioxin and furan capacity building program of UNEP. Her main expertise is the field of persistent organic pollutants (POPs) and especially polychlorinated dibenzo-p-dioxins and dibenzofurans, from formation mechanisms, source identification, reduction technologies, and release inventories to exposure and risk assessments. Jointly with Dr. Larry Needham of CDC, she is Editor of the section 'Persistent Organic Pollutants and Dioxins' of 'Chemosphere'. Together with Michael Denison, she is also Secretary of the International Advisory Board of the International Dioxin Symposia.

Technical Sessions

Monday, August 11

Keynote Address

Regency Ballroom

- 8:00 Welcome
Judy Duncan, Oklahoma DEQ and
H.M. (Skip) Kingston, Duquesne University
- 8:10 Introduction
Matt Pamaku, Applied Isotope Technologies
- 8:15 Do We Need Elemental Speciation in Environmental Monitoring?
Jörg Feldmann, University of Aberdeen.

Keynote address sponsored by



AIR METHODS

Columbia A

Session Chair: **Wayne Whipple, USEPA Region 5**

- 9:00 Vapor Intrusion Investigations and Site Assessment Using Passive Sampling Techniques
Jim Whetzel, W. L. Gore & Associates, Inc.
- 9:30 Residential Vapor Intrusion to Indoor Air Comparative Study: Canisters vs. Sorbent Tubes vs. Passive Diffusion Samplers
Joseph Odencrantz, Beacon Environmental Services, Inc.
- 10:00 BREAK
- 10:30 The Importance of Air Sampling Media Cleanliness for Vapor Intrusion Investigations
Alyson Fortune, Columbia Analytical Services
- 11:00 Impact of Recent Vapor Intrusion Guidance Documents on Laboratory Methodology and Data Usability
Heidi Hayes, Air Toxics Ltd.
- 11:30 Comparison of Air Toxics Inter-Laboratory Experiments in Region 5
Whipple Wayne, USEPA Region 5

METALS SPECIATION

Columbia B

Session Chair: **H.M. (Skip) Kingston, Duquesne University**

- 9:00 Speciated Reference Materials – The Need and the Solution
Stuart Nagourney, NJ DEP
- 9:30 Arsenic Speciation in Groundwater Samples from Iowa's Private Well Waters
Yingtao Chai, University Hygienic Laboratory
- 10:00 BREAK
- 10:30 New and Improved Methodology for the Analysis of Hexavalent Chromium in Soil and Water
Jay Gandhi, Metrohm-Peak
- 11:00 Environmental Human Health Monitoring of Toxic Metals and Some of their Species in Urine and Blood using USEPA Method 6800
G M Mizanur Rahman, Duquesne University
- 11:30 Optimization of Microwave-assisted Extraction Methods for Arsenic Speciation in Fish Tissue and Analysis by IC-ICP-MS
Laura Reyes, Duquesne University

THE PERFORMANCE APPROACH

Columbia C

Session Chairs: **Lara Autry, USEPA OSA and Jerry Parr, Catalyst Information Resources**

- 9:00 A Comparison of Typical Audit Findings between NELAC and Non-NELAC Labs: A Case for Uniform Quality System Standards for all Environmental Labs
Patrick Conlon, Environmental Standards, Inc.
- 9:30 Performance Testing Calculus – An Absolute View
Stephen Arpie, Absolute Standards, Inc.
- 10:00 BREAK
- 10:30 Conducting a Demonstration of Method Applicability
Deana Crumbling, USEPA OSWER
- 11:00 Technology-Specific Performance Assessment
Yves Tondeur, Analytical Perspectives
- 11:30 Laboratory Support for Multi-Increment Sampling
Mark Bruce, TestAmerica

Monday, August 11 (Continued)

ON-SITE ASSESSMENT COMMITTEE

Capitol Room B
9:00

Committee Chair: Denise Rice, USEPA OIG

The On-Site Assessment Committee establishes standards, processes, and guidance for planning, conducting, reporting, and evaluating assessments performed at the operating locations of bodies involved in analyzing and sampling environmental samples.

COMMITTEE AGENDA

Introduction
The 2008 TNI On-Site Assessment Standard
Technical Course Curriculum Guidance Presentation
Basic Assessor Training Course Curriculum Guidance
Open Forum

QUALITY SYSTEMS COMMITTEE

Capitol Room A
9:00

Committee Chair: Bob Di Reinzo, DataChem Laboratories

This committee develops a standard for the quality systems in environmental laboratories. The elements of the quality system include organizational structure, responsibilities, procedures, processes, and resources (e.g., facilities, staff, equipment) for implementing quality management in testing operations.

COMMITTEE AGENDA

Introduction
The 2008 TNI Quality Systems Standards
Quality Systems Checklist
Open Forum

12:00 - 1:30 LUNCH

Regency Ballroom

STATIONARY SOURCE AUDIT SAMPLE COMMITTEE

Working Lunch and General Session

Capitol Room B

Program Administrator: Jane Wilson, NSF International

The purpose of this committee is to develop consensus standards for the manufacture and analysis of audit samples for source emission testing.

12:30 Background and Purpose of Committee
1:30 Working Draft Standard
Committee Members and Administration

AIR METHODS

Columbia A

Session Chair: Earl Hansen, ILI

- 1:30 EPA's National Dioxin Air Monitoring Network: Analytical Issues
Joseph Ferrario, USEPA OPPTS
- 2:00 The National Dioxin Ambient Air Monitoring Network (NDAMN): Sampling Methods and Results of Measuring Dioxin-Like Compounds in Rural and Remote Areas of the United States
David Cleverly, USEPA ORD
- 2:30 Polycyclic Aromatic Hydrocarbons Method Development and Data Analysis
Mitchell Howell, Eastern Research Group
- 3:00 BREAK
- 3:30 Proficiency Testing (PT) for Low Metal Concentration Ambient Air Sample Analysis in Support of the National Air Toxics and Trends Stations (NATTS) Program
Dennis Mikel, USEPA OAR
- 4:00 Sampling Study of Hexavalent Chromium in Ambient Air
Julie Swift, Eastern Research Group
- 4:30 Continuous Monitoring of Ambient Air Toxic Metals at Low PG/DSCM Concentrations
John Cooper, Cooper Environmental Services, LLC
- 5:00 Preconcentrator Method Development for the Analysis of Microbial Volatile Organic Chemicals from Mold Using Air Canisters and Gas Chromatography – Mass Spectrometry
Michelle Long, Restek Corporation

Technical Sessions

Monday, August 11 (Continued)

HOMELAND SECURITY

Columbia C

Session Chair: Joe Romano, Waters Corporation

- 1:30 EPA's Water Laboratory Alliance
Anand Mudambi, USEPA OW
- 2:00 Features of an Active and Effective Protective Program -
Real World Application
Marc Santora, USEPA OW
- 2:30 Chicagoland Water and Wastewater Preparedness and
Business Resiliency Pilot
Raj Singhvi, USEPA Region 2
- 3:00 BREAK
- 3:30 Methods for Extractable Nonvolatile Compounds Analyzed
by Liquid Chromatography/Mass Spectrometry for
Environmental Restoration Following Homeland Security
Events
Lawrence Zintek, USEPA Region 5
- 4:00 Quantification of Toxins in Drinking Water using EPA
Method 6800 and ESI-TOF-MS
Gregory Zinn, Duquesne University
- 4:30 New Initiatives in Water Sector Mutual Aid and Assistance
John Whittler, USEPA OW
- 5:00 Defending Drinking Water Supply Systems – An Active and
Efficient Preventative System to Evade Sabotage of Drinking
Water Supplies
Isaac Brenner, Environmental Analytical Services

METALS SPECIATION

Columbia B

Session Chair: Stuart Nagourney, NJ DEP

- 1:30 Speciation of Organometallic Contaminants in
Environmental Matrices, Comparing The Metal's Colors to
Its Weight
Brian Buckley, Rutgers - Env & Occ Hlth Sci Instit
- 2:00 Arsenic Speciation Analysis in Biological Samples –
A Routine Task?
Jörg Feldmann, University of Aberdeen
- 2:30 Determination of Arsenic and Selenium Species in Rice and
Baby Food Products by IC–ICP-MS after Microwave-
Assisted Extraction
Jorge Guzman Mar, Duquesne University
- 3:00 BREAK
- 3:30 Commercialization of Metal Speciation Analyses – Status
and Obstacles for Future Applications
Russell Gerads, Applied Speciation and Consulting, LLC
- 4:00 Determination of Inorganic Mercury – Selenium –
Glutathione Species by Nanospray-TOFMS Method 6800
IDMS Quantification Protocols
Timothy Fahrenholz, Duquesne University
- 4:30 State of the Art in Environmental Human Health and
Speciated Measurement
H.M. (Skip) Kingston, Duquesne University

ELAB

ENVIRONMENTAL LABORATORY ADVISORY BOARD

Capitol Room A
1:30

**Board Chair: Jim Pletl, Hampton Roads Sanitation
District**

BOARD AGENDA

- Introduction
- Proficiency Test Frequency
- Implementation of SW-846 Update IV by State Agencies
- Accreditation Survey
- Accomplishments – Year in Review
- Outstanding Issues for ELAB
- ELAB Membership
- Questions, Comments from Conference Attendees
- Review ELAB Action Items and Assignments

Reception and Exhibition

Regency / Columbia Foyer

Monday

5:30 – 7:00

Tuesday, August 12

KEYNOTE ADDRESS

Regency Ballroom

- 8:00 Welcome
Earl Hansen, Independent Laboratories Institute
- 8:15 EPA and Nanotechnology: Oversight for the 21st Century
J. Clarence Davies, Resources for the Future

POSTER SESSIONS: 8:00 – 12:00

Regency Foyer

See page 17 for a detailed list of posters to be presented.

EMERGING TECHNOLOGIES

Columbia C

Session Chair: Nancie Copeland, Environmental Express

- 9:00 Automated BOD
Stephen Moore, ManSci, Inc.
- 9:30 A Universal Wastewater QC Standard: A Different Approach to LCS Materials in the Wet Chemistry Lab
Mark Hammersla, NSI Solutions
- 10:00 BREAK
- 10:30 Direct Analysis of High TDS Environmental Samples by ICP-MS
Steve Wilbur, Agilent Technologies
- 11:00 Portable Toroidal Ion Trap Mass Spectrometry: Taking the Instrument to the Sample
Christopher Bowerbank, Torion Technologies
- 11:30 Evaluation of the Automated Data Review (Adr) Tool: Where Do We Go From Here?
Timothy Fitzpatrick, Laboratory Data Consultants

NANOTECHNOLOGY

Columbia A

Session Chair: David Friedman, Friedman Consulting

- 9:00 Nanocavity Sensor Array for the Isolation, Detection and Quantitation of Engineered Nanoparticles
Omowunmi Sadik, Suny-Binghamton
- 9:30 Detection and Quantitation of Nano Materials in Water and Wastewater: An Analytical Methods Review
Edward Askew, LabServe

INORGANIC METHODS

Columbia A

Session Chairs: Zoe Grosser, PerkinElmer and Charles Sellers, USEPA OSWER

- 10:30 Cyanide Preservation and Interferences
William Lipps, OI Analytical
- 11:00 Evaluating Discrete Analyzer Methods for Inorganic Analysis of Waste and Water in Environmental Samples
Francis Awanya, USEPA Region 5
- 11:30 Accurate Preparation of TOC Standards
William Lipps, OI Analytical

FIELD ACTIVITIES COMMITTEE

Capitol Room B

9:00

Committee Chair: Marlene Moore, Advanced Systems, Inc.

The mission of the TNI Field Activities Committee is to develop specific field accreditation standards for accrediting bodies for field sampling and measurement activities by engaging industry experts in a consensus-based standards development process providing the means to improve the quality and consistency of environmental data throughout the United States.

COMMITTEE AGENDA

Introduction
Field Activities Standard
AB's Adoption of FSMO Standard
Documenting Decision-making Practice
Policy Review
Advocacy
Open Forum

PROFICIENCY TESTING COMMITTEE

Capitol Room A

9:00

Committee Chair: Kirstin McCracken, TestAmerica

The mission of the TNI Proficiency Testing (PT) Committee is to develop standards for the development and testing of PT samples, evaluation of PT Providers, evaluation of PT Provider oversight organizations, and use of PT samples by laboratories and laboratory accreditation bodies.

COMMITTEE AGENDA

Introduction
TNI PT Standards
PT Frequency
Open Forum

Technical Sessions

Tuesday, August 12 (Continued)

ASSESSMENT FORUM

Columbia B

Moderator: Jack Farrell, Analytical Excellence, Inc.

- 9:00 Introduction
9:15 Review of Quality System Module – New TNI Standard
Bob DiRienzo, DataChem Laboratories

10:00 BREAK

- 10:30 Comparison of Accreditation Body Programs (Scope, Highlights, and Differences)
Steve Arms, Florida Department of Health and Paul Bergeron, Louisiana Department of Environmental Quality

12:00 - 1:30 LUNCH

Regency Ballroom

Lunch sponsored by

Waters
THE SCIENCE OF WHAT'S POSSIBLE.™

12:00 - 1:30 ADVOCACY COMMITTEE

(Working Lunch)

Congressional CD

Committee Chair: Aurora Shields, Kansas DHE

The purpose of the Advocacy Committee is to promote a national program for the accreditation of environmental laboratories.

COMMITTEE AGENDA

Introduction
Goal 2.4.1: Outreach
Small Laboratory Advocate
Speaker's Bureau
Newsletter
Other Business

POSTER SESSIONS: 1:00 - 5:00

Regency Foyer

See page 17 for a detailed list of posters to be presented.

SAMPLING AND FIELD MEASUREMENTS

Capitol B

Session Chairs: Nick Nigro, ECCS Nationwide and David Speis, Accutest Laboratories

- 1:30 Evaluation of CAFOs Using Sensor Technologies
Stuart Nagourney, NJ DEP
2:00 Addressing the Misconceptions About QA/QC in Triad Projects
William Davis, WM Davis Environmental Consulting
2:30 EPA Method 8330B: Data Quality Impact on the Characterization of Energetic Residues on Military Training Ranges
Alan Hewitt, US Army CRREL

3:00 BREAK

- 3:30 Fully Exploiting the Potential of Field Measurements: XRF Example
Deana Crumbling, USEPA OSWER
4:00 Continuous Profiling of Subsurface Pollutants
Michelle Lee, Tufts University
4:30 Polychlorinated Biphenyls (PCBs) and Obsolete US Government Ships
Laura Casey, USEPA OSWER

INORGANIC METHODS

Columbia A

Session Chairs: Zoe Grosser, PerkinElmer and Charles Sellers, USEPA OSWER

- 1:30 Comparison of Three Methods For The Determination of Mercury in Water And Wastewater
Zhongxian Guo, Singapore Utilities International
2:00 Analysis of Regulated Inorganic Anions in Waters by LC/ESI/MS/MS
Bruce Li, Underwriters Laboratories
2:30 Trace level Bromate Analysis in Drinking Water – Is Multi-Dimensional Approach Really Necessary?
Jay Gandhi, Metrohm-Peak

3:00 BREAK

- 3:30 Applications of Ion Chromatography Systems with Eluent Regeneration
Richard Jack, Dionex Corporation
4:00 Determination of Nitrate + Nitrite Nitrogen using Enzymatic Reductase
William Lipps, OI Analytical
4:30 Variability of BOD Results Between Split Samples: A Forensic Investigation Case Study
Patrick Conlon, Environmental Standards, Inc.

Tuesday, August 12 (Continued)

ORGANIC METHODS

Columbia C

Session Chairs: Diane Gregg, USEPA Region 6 and Bob Wyeth, Columbia Analytical Services

- 1:30 Improving Environmental Laboratory Productivity Using an Automated Extraction, Clean-up, Sample Concentration System
Ed McNeil, Maxxam Analytics, Inc.
- 2:00 Automated Extraction Procedure for Improved Recovery of Phenols and Phenoxy Herbicides
Bruce Richter, Dionex, SLCTC
- 2:30 Comprehensive Analysis of Polycyclic Aromatic Hydrocarbons by Liquid Chromatography and Gas Chromatography
Michelle Long, Restek Corporation
- 3:00 BREAK
- 3:30 The Development of EPA Method 524.3 for the Determination of Volatile Organic Compounds in Drinking Water
Brahm Prakash, Shaw Environmental & Infrastructure, Inc.
- 4:00 Development of a Gas Chromatography/Mass Spectrometry Method for the Analysis of the Solvent Stabilizer 1,4 – Dioxane in Drinking Water
Paul Grimmett, USEPA ORD
- 4:30 Risk-Based Characterization and Assessment of Extractable Petroleum Hydrocarbon Contamination Using Comprehensive Two-Dimensional Gas Chromatography with Dean's Switch Modulation
Robert Brown, Lancaster Labs

PROFICIENCY TESTING BOARD

Capitol Room A
1:30

Board Chair: Carl Kircher, Florida DOH

The Proficiency Testing Board maintains a national PT program to support a national environmental accreditation program that contains Fields of Proficiency Testing (FoPT; analytes, concentrations, matrices and acceptance limits) that are appropriate for the scope of environmental monitoring performed in the United States, and ensures that all organizations providing PT samples to laboratories are recognized as competent to do so.

COMMITTEE AGENDA

Introduction
PT Board Activities
Experimental PTs
Whole Effluent Toxicity FoPT
Microbiological FoPT
Air and Emission FoPT
Other Business

ASSESSMENT FORUM (Continued)

Columbia B

Moderator: Jack Farrell, Analytical Excellence, Inc.

- 1:30 Issues Related to Interpretation of Standards and Test Methods
Steve Arms, Florida Department of Health and Paul Bergeron, Louisiana Department of Environmental Quality
- 3:00 BREAK
- 3:30 Navigating *Standard Methods* for Regulatory Compliance
Edward Askew, LabServe

Open Session

Technical Sessions

Wednesday, August 13

GENERAL SESSION

Columbia AB

- 8:00 Welcome
Lara Autry, USEPA OSA and Jerry Parr, The NELAC Institute
- 8:15 The Latest from the Office of the Science Advisor
Pai-Yei Whung, Office of the Science Advisor
- 8:45 The Latest from the Office of Water
Michael Shapiro, Office of Water
- 9:30 The Latest from the Office of Air
Robert Brenner, Office of Air and Radiation
- 10:00 BREAK
- 10:30 The Latest from the Office of Solid Waste and Emergency Response
Jan Young, Office of Solid Waste and Emergency Response
- 11:15 The Latest from the Office of Prevention, Pesticides and Toxic Substances
Betsy Grim, Office of Prevention, Pesticides and Toxic Substances

POSTER SESSIONS: 8:00 – 12:00

Regency Foyer

See page 17 for a detailed list of posters to be presented.

12:00 - 1:30 LUNCH

Regency Ballroom

12:00 - 1:30 POLICY COMMITTEE (Working Lunch)

Congressional CD

Committee Chair: Alfredo Sotomayor, Wisconsin DNR

Under the direction of the Board of Directors, the committee will serve as a resource for the development of policies.

COMMITTEE AGENDA

Introduction
Review of Policies
Annual Report Format
Other Business

POSTER SESSIONS: 1:00 – 3:30

Regency Foyer

See page 17 for a detailed list of posters to be presented.

ANALYTICAL CAPABILITY NEEDS OF THE FUTURE

Columbia A

Session Moderator: Jan Young, USEPA OSWER

- 1:30 Analytical Methods for Contaminants of Emerging Concern
Brian Englert, USEPA Office of Science and Technology, Office of Water
- 2:15 More Reliable Approaches to Leach Testing
Gregory Helms, USEPA Office of Solid Waste
- 3:00 BREAK
- 3:30 Microbial Detection Methods for Drinking Water Rule Making
Sandhya Parshionikar, USEPA Office of Ground Water and Drinking Water
- 4:15 EPA's Endocrine Disruptor Screening Program
Gary Timm, USEPA Office of Pesticide Programs and Toxic Substances

FUTURE TRENDS IN MONITORING

Columbia B

Session Moderator: Matt Sica, Maine Center for Disease Control and Prevention

- 1:30 Future Trends in Sensor Technology
Michael Brody, USEPA Office of Planning Analysis and Accountability
- 2:15 EXES – An Advanced System for Environmental Data Assessment and Data Validation
Michael Johnson, USEPA Office of Solid Waste
- 3:00 BREAK
- 3:30 New Developments in Field Analytical Technologies
Deana Crumbling, USEPA Office of Solid Waste
- 4:15 Flexible Approaches to Environmental Measurement – The Evolution of the Performance Approach
Lara Autry, USEPA Office of Science Advisor

Wednesday afternoon break sponsored by



Thursday, August 14

KEYNOTE ADDRESS

Regency Ballroom

- 8:00 Welcome
David Speis, Accutest Laboratories
- 8:15 Moving Forward on National Accreditation
Robert Wyeth, Columbia Analytical Services

ENSURING DATA QUALITY

Columbia B

Session Chairs: Richard Burrows, TestAmerica and Charlie Carter, TestAmerica

- 9:00 Purpose for Using Sound Science and Following QA/QC Processes and Procedures
James McAteer, QA/QC Solutions, LLC
- 9:30 Development of a Consensus Standard for Quality Systems in Environmental Testing Laboratories
Robert Di Rienzo, DataChem Laboratories, Inc.
- 10:00 BREAK
- 10:30 False Positives in Environmental Measurements – An Analysis of Method Blank Data
Charles Carter, TestAmerica
- 11:00 A New Procedure for Determining the Single-Laboratory Lowest Concentration Minimum Reporting Level (LCMRL) and Minimum Reporting Level (MRL) In Environmental Measurements
John Martin, The Cadmus Group, Inc.
- 11:30 Determining Detection and Quantitation Limits – Designing a Straightforward Procedure that Actually Works
Richard Burrows, TestAmerica

INNOVATIVE APPROACHES TO ANALYZING CONVENTIONAL AND EMERGING POLLUTANTS

Columbia A

Session Chairs: Doug Later, Torion Technologies and Gary Ward, Columbia Analytical Services

- 9:00 Emerging Contaminants in Raw and Finished Drinking Waters
Bruce Li, Underwriters Laboratories, Inc.
- 9:30 Analysis of Emerging Contaminants in Drinking Water Using On-line SPE/LC/MS/MS
Claude Mallet, Waters Corporation
- 10:00 BREAK
- 10:30 Emerging Organic Pollutants by LC/ESI-MS-MS
Chunyan Hao, Ontario Ministry of the Environment
- 11:00 Contamination Reduction for Quantifying Trace Levels of Perfluorinated Compounds
Peter J. Lee, Waters Corporation
- 11:30 LC/MS and The New Energetics Method EPA 8330B
Larry Penfold, TestAmerica

ACCREDITATION BODY COMMITTEE

Capitol B

9:00

Committee Chair: Jeff Flowers, Flowers Chemical Laboratory

As a means to improve the quality and consistency of environmental data throughout the United States and to foster the mutual recognition of laboratory accreditation by Accreditation Bodies, the mission of the TNI Accreditation Body Committee is to develop and support accreditation standards by engaging industry experts in a consensus-based standards development process.

COMMITTEE AGENDA

- Introduction
- The TNI Accreditation Body Standard
- Associate/Affiliate AB Program
- Support for Standards Implementation
- Open Forum



Technical Sessions

Thursday, August 14 (Continued)

LABORATORY ACCREDITATION SYSTEM COMMITTEE

Capitol A
9:00

Committee Chair: June Flowers, Flowers Chemical Laboratory

The Laboratory Accreditation System Committee (LASC) develops a system for the accreditation of environmental laboratories that consists of the policies and procedures, interpretations, guidance documents, and any related tools used by accreditation bodies to implement a national environmental laboratory accreditation program.

COMMITTEE AGENDA

Introduction
Standards Interpretation Requests
Review of TNI Environmental Laboratory Standards
Other Business

MENTORING SESSION

Columbia C

Moderator: Betsy Kent, Reedy Creek Improvement District

9:00 **Data Qualifiers: How Do You Qualify Your Data?**
We all know how to qualify out of hold data. But what about precision failures with data in the LOQ concentration range? Do your qualifiers address bias for accuracy? How do you handle surrogate failures? Was it really matrix interference if the LCS passed and the MS did not? And most important, where do you put your qualifiers on your client reports? This open discussion will address these areas of concern. The 2003 NELAC and TNI Standards' language will be presented and a lively conversation is encouraged.
Betsy Kent, R.C.I.D. Environmental Services

10:00 **BREAK**

10:30 **Efficient Sample Throughput: How to Run Client Samples and Comply with Accreditation Requirements, Federal, State, Method, and Project Specific Requirements.**
This session will present how to compile the QC requirements from various clients and also meet the TNI accreditation requirements. Many laboratories do not have a system (process) for compiling accreditation standard, certification standard, method, federal, state, and project specific requirements to ensure client's samples have the necessary QC. The focus will be on method EPA 200.7 and SW6010C testing in water and solid samples. The discussion will include the QC to be performed on the day of analysis and throughout the year. A two-year period of requirements for performing ICP analysis will be presented for discussion with the audience.
Carol Schrenkel, Lionville Laboratory and
Marlene Moore, Advanced Systems, Inc.

12:00 – 1:30 LUNCH

Regency Ballroom

12:00 – 1:30 CONSENSUS STANDARDS DEVELOPMENT BOARD (Working Lunch)

Congressional CD

Board Chair: Ken Jackson, New York DOH

The purpose of the Consensus Standards Development Program (CSDP) is to develop standards for the accreditation of environmental laboratories.

COMMITTEE AGENDA

Introduction
Action Items from the Expert Committee Sessions
Other Business

DATA USABILITY

Columbia B

Session Chair: Marlene Moore, Advanced Systems, Inc.

- 1:30 **Data and Information Quality Framework for Environmental Measures**
Jeffrey Worthington, USEPA OEI
- 2:00 **What Do You Do With Field Duplicates? – Case Studies on Usability Assessment and Application to Site Investigations**
Stephen Zeiner, Environmental Standards, Inc.
- 2:30 **Data Usability, A Small Town Case Study**
June Flowers, Flowers Chemical Laboratories, Inc.
- 3:00 **BREAK**
- 3:30 **UCMR2 – Lessons Learned in Year One**
Andrew Eaton, MWH Laboratories
- 4:00 **Uncertainty – A Laboratory Viewpoint**
Robert Di Rienzo, DataChem Laboratories, Inc.
- 4:30 **Utilizing Laboratory Information Management Systems (LIMS) to Optimize Laboratory Performance and Enhance Data Usability with a Web Portal to the LIMS**
Chuck Hindbaugh, Accelerated Technology Laboratories, Inc.

Thursday August 14 (Continued)

EU AND EPA CHEMICAL REGULATIONS

Columbia C

Session Chair: Gonzalo Manchego, Duquesne University

- 1:30 The Impact of Global Chemical Regulation on US Manufacturers
Mike Taubitz, General Motors
- 2:00 REACH Compliance for North American-based Manufacturers: What is a "Proportionate" Response?
A.J. Guikema, Tetra Tech
- 2:30 Reaching Asia: Recent Trends in Chemical Regulations of China, Japan, and Korea
Paul Beatley, ENHESA
- 3:00 BREAK
- 3:30 REACH: Reconciling Regulation and Science: Toxicological Endpoints, Annex VII-X: "Information Requirements" Versus Adaptations and Test Methods
Samantha Gordon, ChemADVISOR, Inc.
- 4:00 Software Solutions for Environmental Compliance (RoHS, WEEE, REACH, ELV)
John Fox, Synapsis Technology
- 4:30 EPA Effort to Reduce or Eliminate the Use of Mercury-filled Non-ferrous Thermometers for Test Methods and Regulations
Hiroshi Dodahara, USEPA OPPTS

INNOVATIVE APPROACHES TO ANALYZING CONVENTIONAL AND EMERGING POLLUTANTS

Columbia A

Session Chairs: Doug Later, Torion Technologies and Gary Ward, Columbia Analytical Services

- 1:30 What's Wrong with Forensic Environmental Methods
Christian Zeigler, Tufts University
- 2:00 Real-Time Measurement of EPA Regulated Volatile and Semivolatile Contaminants in the Field Using a New Toroidal Ion Trap GC-TMS
Douglas Later, Torion Technologies, Inc.
- 2:30 Hydrazine - A New Analytical Approach
Ali Haghani, MWH Laboratories
- 3:00 BREAK
- 3:30 Improving Accuracy and Sensitivity for 1,4-Dioxane Analysis
Mark Bruce, TestAmerica
- 4:30 Toxaphene and Toxaphene Congener Analysis by Gas Chromatography / Negative Ion Mass Spectrometry Using Proposed US EPA Method 8276
Scott Sivertsen, USEPA Region 4
- 5:00 Remote Sensing Techniques to Detect Surface Water Quality Constituents in Coastal and Inland Water Bodies from Point or Non Point Pollution Sources
William Roper

AFFILIATE ACCREDITATION BODY FORUM

Capitol B

1:30

Moderator: Ann Marie Allen, Massachusetts DEP

COMMITTEE AGENDA

Welcome & Introductions

Open Session

TECHNICAL ASSISTANCE COMMITTEE

Capitol A

1:30

Committee Chair: Barbara Escobar, Arizona DHS

The purpose of the Technical Assistance Committee is to provide assistance to stakeholders, particularly those seeking accreditation and those who accredit.

COMMITTEE AGENDA

Welcome & Introductions

A Call for Training Topics and Ideas for Guidance Documents and Templates

Highlights of Accomplishments since January 2008

Web Access Training Proposal and Plans Overview

Completed Technical SOP Template Review

Administrative SOP Template Review

Small Laboratory Advocate

Formation of Workgroups

INORGANIC SUPERFUND METHODS PRE-SOLICITATION SESSION

Yellowstone / Everglades

1:30

Moderator: John Nebelsick, USEPA OSWER

This session will serve as a forum to introduce EPA's Contract Laboratory Program (CLP), and in particular, the new requirement for Inorganic Sample Analysis. The session will begin with a brief introduction to the CLP, as well as a general overview of the proposal submission process. Attendees will be introduced to the new Statement of Work (SOW), Inorganic Superfund Methods (ISM) 01.0, and will be provided with a brief overview of how the ISM01.0 differs from the current SOW. The primary focus of this session, however, will be to discuss the upcoming solicitation from the contractual standpoint. Important aspects of the solicitation will be highlighted, especially the evaluation criteria, conflicts of interest, quality issues, and proposal requirements.

Technical Sessions

Friday, August 15

KEYNOTE ADDRESS

Regency Ballroom

- 8:00 Welcome
Robert Benz, NSI Solutions
- 8:15 Global Monitoring of Persistent Organic Pollutants (POPs):
UNEP's Experiences and First Results
Heidelore Fiedler, United Nations Environmental Program

CONTAMINATED SEDIMENTS

Columbia A

Session Chair: Patricia McIsaac, TestAmerica

- 9:00 Characterizing Sediment Contamination Using A Passive
Sampler
Jay Hodny, W. L. Gore & Associates, Inc.
- 10:00 Forensically Identifying Unique Sources of PCBs on a Large
Sediment Characterization Project
Rock Vitale, Environmental Standards
- 10:00 BREAK
- 10:30 Interlaboratory Comparison Study of Measurement of
Polychlorinated biphenyl (PCB) Congeners from Sediment
Samples with High Resolution (HRMS) and Low Resolution
Mass Spectrometry (LRMS)
Jaana Pietari, Exponent, Inc.
- 11:00 Analyzing Historical and Emerging Halogenated Flame
Retardants in the Sediment of the Great Lakes
An Li, University of Illinois at Chicago
- 11:30 In a Green World, Shouldn't all Analyses be Micro ?
David Mauro, Meta Environmental, Inc.

INTERNATIONAL ISSUES IN MONITORING

Columbia B

**Session Chairs: Robert Benz, NSI Solutions and
Shen Yi Yang, USEPA OSWER**

- 9:00 Environmental Monitoring in China
Zoe Grosser, PerkinElmer
- 9:30 Environmental Monitoring in Southeast Asia
David Friedman, Friedman Consulting, LLC
- 10:00 BREAK
- 10:30 Challenges of a Global Monitoring Program
Andrew Eaton, MWH Laboratories
- 11:00 Metal Speciation and Drug Residue Identification in Foods -
A Global Perspective on Food Safety Testing
Curtis Wood, ERA
- 11:30 Meeting Drinking Trace Metal Requirements in the EU And
USA. Can They Be Achieved Using ICP-AES?
Isaac Brenner, Environmental Analytical Services

NELAP BOARD

Capitol B
9:00

Board Chair: Dan Hickman, Oregon DEP

The purpose of the National Environmental Laboratory
Accreditation Program Board is to establish and implement a
program for the accreditation of environmental laboratories.

COMMITTEE AGENDA

Introduction
Status of Evaluations
Implementing the New TNI Standard
Other Business

WEBSITE COMMITTEE

Capitol A
9:00

Committee Chair: Arthur Clark, USEPA Region I

The purpose of this committee is to support TNI members and
programs through a user-friendly and attractive website.

COMMITTEE AGENDA

Introduction
The New TNI Website: Future Changes
Policies and Procedures
Document Control
Long-Range Issues

Poster Sessions

Session Chair: Shannon Sturgeon, USEPA OSWER

Tuesday

8:00 – 12:00

- Rapid Analyte Verification and Quantitation Using Deconvoluted Full Scan GC/MS Data
Mike Szelewski, Agilent Technologies
- The Science of Solid Phase Extraction
Don Shelly, United Chemical Technologies
- Techniques for Reducing Purge-and-Trap (P&T) Cycle Times in VOC Analysis
Moklesur Rahman, OI Analytical
- Benzene in Soft Drinks By Teledyne Tekmar HT3 Headspace Sampler
James Cox, Teledyne/Tekmar
- Rapid Dual GC Column Analysis of Pesticides
Jason Thomas, Restek Corporation
- Development and Validation of Biothreat Sample Analyses Methods in Support of the Environmental Response Laboratory Network (ERLN)
Sanjiv Shah, USEPA Homeland Security

1:00 – 5:00

- Analysis of Volatile Organic Compounds using New Products and Novel Techniques
Jason Thomas, Restek Corporation
- Evaluation of New Moisture Management Techniques for the Analysis of Volatile Organic Compounds Utilizing the StratUm PTC
James Cox, Teledyne/Tekmar
- Analysis of Volatile Organic Compounds in Drinking Water to Meet Newly Enacted Regulations in China
Moklesur Rahman, OI Analytical
- Groundwater Plume, Source and Risk Identification Using Passive Soil Gas
Harry O'Neill, Beacon Environmental Services, Inc.
- Transportable Universal Detector System for Chemical and Biological Agents
Matt Pamuku, Applied Isotops Technologies, Inc.
- Standard Analytical Protocol for Metal-Based Compounds Using Inductively Coupled Plasma Methods
Adrienne Greenlee, USEPA Region 7

Wednesday

8:00 – 12:00

- Lowering Detection Limits in the Analysis of Pesticides and Flame Retardants in Drinking Water by GC/MS
Eric Phillips, Thermo Fisher Scientific
- Profiling Analysis of the Degradation Products of Alkylphenol Polyethoxylates by LC-MS Using an Acclaim® Surfactant Column with Mass Spectrometric Detection
Richard Jack, Dionex Corporation
- Modified EPA Method 8261 using Pulsed Vacuum Extraction for Analysis of Volatiles in Water
Link Brown II, ENTECH INSTRUMENTS
- Apples, Oranges and SW-846 – National Functional Guidelines Revision Critique
Stephen Zeiner, Environmental Standards, Inc.
- Vapor Intrusion, a Laboratory viewpoint.
Chris Anderson, Test America
- Trace Metals in the Seagrass *Thalassia Testudinum* from Venezuela
Soraya Silva, Departamento de Oceanología y Ciencias Costeras, Instituto Venezolano de Investigaciones

1:00 – 3:30

- Speciation in the Field: A Quick and Easy Way to Preserve Species Information
Jacob Meyer, Speciation Solutions, Inc.
- FORMS II Lite and SCRIBE: A Comparison of Environmental Field Sampling Software
Michelle Berardino, Computer Sciences Corporation
- Total Metallic Mercury Analysis in Compact Fluorescent Lamps - Sample Preparation and Analysis
Laura Flynn, USEPA OW
- Trace Metals in Bivalves from Venezuelan Coastal Sites
Juan Alfonso, Departamento de Oceanología y Ciencias Costeras, Instituto Venezolano de Investigaciones
- The PCB Shadow and Other Interferences with HRMS PCB Congener Analysis
Steve Wilding, USEPA Region 3
- Addressing the EPA Recommended Water Quality Criteria for Methylmercury
Chris Shade, Quicksilver Scientific, LLC

Regency Foyer

Training Courses

How To Make The Right Decision With Environmental Data OR How To Avoid Paying A Fine Or Penalty For Making The Wrong Decision

This course is intended to familiarize decision makers with the importance of receiving a data usability report. This Report will help the decision maker understand the risk associated with the decision and determine the defensibility or strength of making the right decision. The course presents examples to demonstrate how this defensibility ensures that fines or penalties are not incurred in the future. An overview of the processes needed to develop and complete a data usability report will be presented. The course content includes state-of-the-art techniques for data gathering and decision-making by using quality assurance and other planned approaches for making the right decision the first time.

Instructor: Marlene Moore, Advanced Systems and James McAteer, QA/QC Solutions
Sunday, August 10
8:30 – 4:30
Columbia A

Microwave-Enhanced Chemistry Sample Preparation

This course presents both selected applications and the theoretical non-intuitive relationships in microwave sample preparation featuring solvent and acid dissolution and extraction for elemental, ultra-trace elemental analysis and species analysis. Specific sample preparation for ICP-MS and ICP-AES and ESI-TOF-MS including fundamental relationships of analyte recovery, power, reagent temperature, pressure, matrices, chemical compatibility, and practical standard methods will also be discussed. Basic features of microwave decomposition methods, equipment, vessel design, and accessories will be covered.

Instructor: Dr. H.M. (Skip) Kingston, Duquesne University
Sunday, August 10
1:00 – 5:00
Columbia B

Compliant Analysis of Water, Liquid and Solid Wastes by ICP-AES and MS

This course will address the application of ICP-AES and ICP-MS for compliant analysis of water, wastewater and related solid wastes using USEPA Methods 200.5, 200.7, 200.8, 6010C, 6020A, and CLP ILM5.3. These procedures will be evaluated using QA/QC criteria and figures of merit such as IDLs, MDLs, CCV, ICV, LDRs, recovery from spiked matrix solutions, and CRMs. This course will provide an insight to practical water and waste sample analysis highlighting sampling strategies, sample preparation, instrumentation, spectroscopic, and nonspectroscopic interference effects, and validation.

Instructor: Dr. Isaac (Joe) Brenner, University of Israel
Sunday, August 10
8:30 – 5:00
Valley Forge

Electronic Delivery of Laboratory Data for the Next Generation...to Infinity and Beyond!

This training course will introduce and discuss the implementation of the Staged Electronic Data Deliverable (SEDD). Although the course will focus on implementing SEDD for the newly developed Inorganic Superfund Methods (ISM01.0) Statement of Work for EPA's Contract Laboratory Program (CLP), the course will also be applicable to anyone using SEDD, including organics and other programs. Laboratories, software vendors, and Architect-Engineer firms who are considering bidding on this contract or working with SEDD files would be highly encouraged to attend. SEDD is a universal format that can deliver environmental testing data for any program in an XML format.

Instructors: John Nebelsick, USEPA OSWER and Joe Solsky, US Army Corps of Engineers
Friday, August 15
8:30 – 4:00
Columbia C

Standard Methods: Theory and Application

The main goal of this course is to train the participant in understanding the structure of Standard Methods and how to use the Compendium to meet the requirements of compliance under the Clean Water Act and the Safe Drinking Water Act. The participant will follow along in their copy of Standard Methods 21st Edition making notations from the instructor's presentation and in-class participation. The participant should have upon completion of the class a clear understanding on how to use Standard Methods and a personal copy to utilize in their workplace.

Instructor: Edward Askew, Labserve
Friday, August 15, 1:00 – 5:00
Saturday, August 16, 8:00 – 4:00
Columbia A

You must be registered for these courses to attend.

Thank You

NEMC

Conference Chair

Lara Autry, USEPA Office of the Science Advisor

Program Chair

Earl Hansen, PhD., Independent Laboratories Institute

Conference Organizer

Jerry Parr, The NELAC Institute

Board of Trustees

Robert Benz, NSI Solutions

H. M. (Skip) Kingston, PhD., Duquesne University

Matthew Sica, Maine Center for Disease Control and Prevention

David Speis, Accutest Laboratories

Jan Young, USEPA Office of Solid Waste

Session Chairs

Lara Autry, USEPA Office of Science Advisor

Robert Benz, NSI Solutions

Richard Burrows, PhD., TestAmerica

Charles Carter, PhD., TestAmerica

Nancie Copeland, Environmental Express

David Friedman, Friedman Consulting

Diane Gregg, USEPA Region 6

Zoe Grosser, PhD., PerkinElmer

Earl Hansen, PhD., Independent Laboratories Institute

H. M. (Skip) Kingston, PhD., Duquesne University

Douglas Later, PhD., Torion Technology

Gonzalo Manchego, Duquesne University

Patricia McIsaac, TestAmerica

Marlene Moore, Advanced Systems

Stuart Nagourney, NJ Department of Environmental Protection

Nick Nigro, ECCS Nationwide Mobile Laboratories

Jerry Parr, Catalyst Information Resources

Joe Romano, Waters Corporation

Charles Sellers, USEPA Office of Solid Waste

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Shannon Sturgeon, USEPA Office of Solid Waste

Gary Ward, PhD., Columbia Analytical Services

Wayne Whipple, USEPA Region 5

Robert Wyeth, Columbia Analytical Services

Shen-yi Yang, USEPA Office of Solid Waste

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Aurora Shields, Kansas Department of Health and Environment

Matthew Sica, Maine Center for Disease Control

Alfredo Sotomayor, Wisconsin Department of Natural Resources

David Speis, Accutest Laboratories

Curtis Wood, Environmental Resource Associates

Robert Wyeth, Columbia Analytical Services, Inc.

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Robert Di Rienzo, DataChem Laboratories

Barbara Escobar, Arizona Department of Health Services

Jefferson Flowers, PhD., Flowers Chemical Laboratories

June Flowers, Flowers Chemical Laboratories

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Richard Bright, Exhibit Program

Carol Batterton, Program Administrator

Kay Parr, Meeting Planner

Suzanne Rachmaninoff, Meeting Support

Jane Wilson, Program Administrator

Thank you
to all the volunteers who donate their time
to make the Symposium a success!

Future Meetings



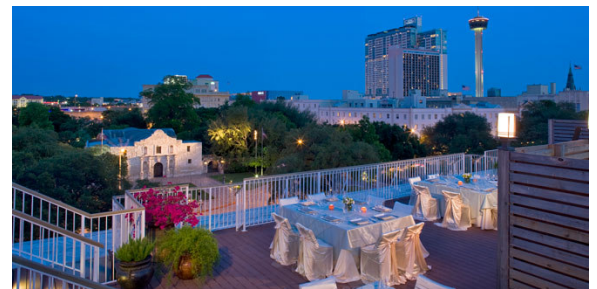
Forum on Laboratory Accreditation

Miami, Florida
January 11 - 16, 2009

The Forum on Laboratory Accreditation is the only conference that brings laboratories, regulatory agencies, data users, sampling firms, and many other organizations to discuss cutting-edge changes in environmental laboratory accreditation and future directions in policy that will have a national impact. In addition to the committee meetings and general sessions, attendees will have the opportunity to attend technical training courses, see the latest products and services in the industry, and be able to network with peers.

Environmental Measurement Symposium

San Antonio, Texas
August 10 - 14, 2009



The Environmental Measurement Symposium, for the third year, will be a combined meeting of the Forum on Laboratory Accreditation and the National Environmental Monitoring Conference (NEMC). NEMC provides the principal forum for addressing policy and technical issues affecting monitoring in all environmental media (i.e., water, air, soil, and waste) and across all environmental programs.

NEMC is co-sponsored by The NELAC Institute and the Independent Laboratory Institute (ILI), in association with The American Council of Independent Laboratories (ACIL), under a cooperative agreement with the U.S. Environmental Protection Agency (US EPA). The technical program is organized by a committee of environmental experts from government and private industry. It brings together a balance of technical and policy topics for each year's symposium that are of interest to all.

The NEMC Board of Trustees invites you to submit an abstract for consideration for presentation. Please provide your abstract by March 1, 2009. For additional information, visit www.nemc.us.