



Environmental Measurement Symposium

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

Washington, DC
August 9-13, 2010

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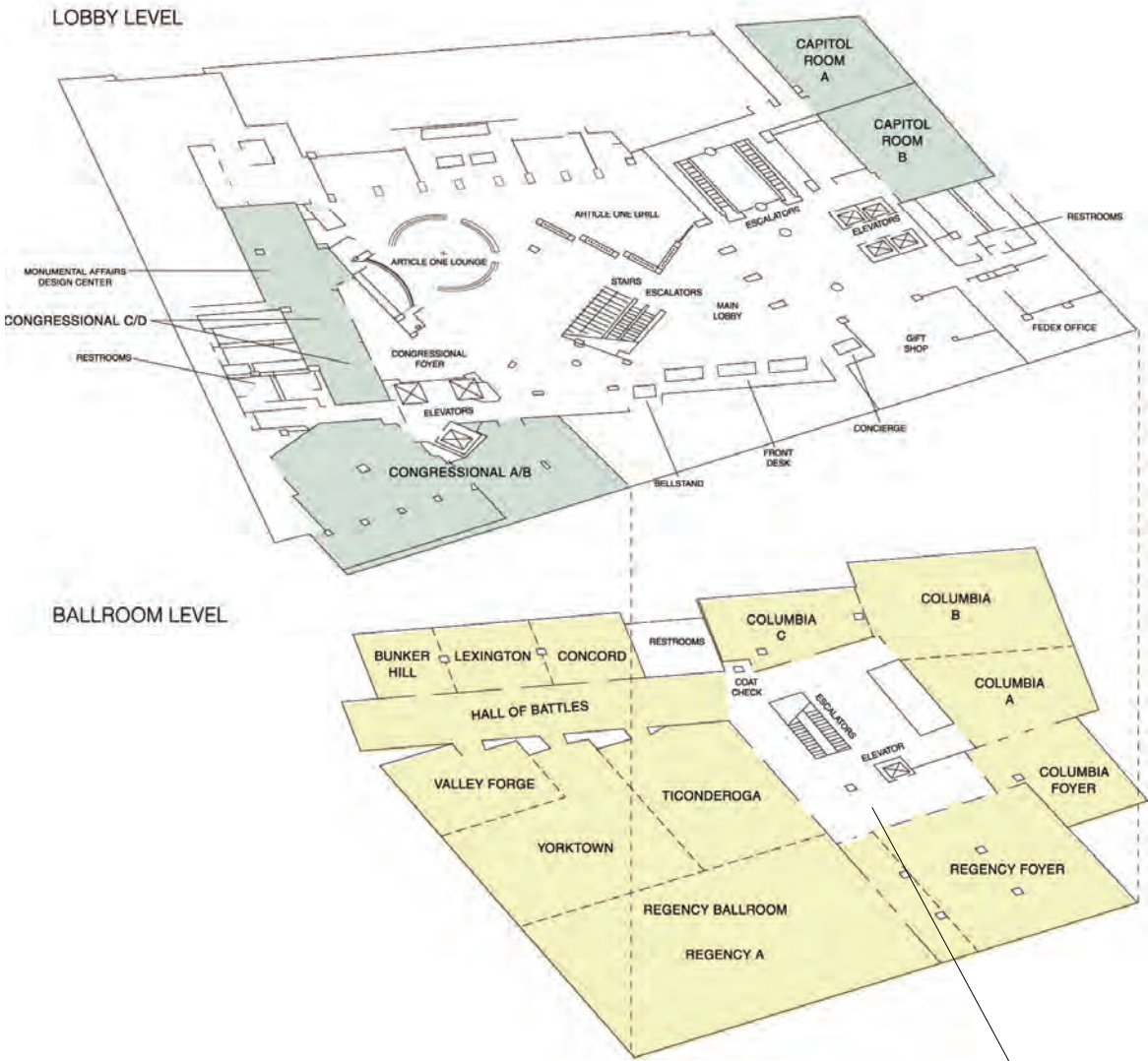
Welcome to the Environmental Measurement Symposium

Your attendance and participation are key elements to the Symposium's success. The week will be filled with 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 attending the Symposium, we hope you will find it stimulating and beneficial. Our registration staff and information booth are available to assist you with any questions you may have, interest you have in getting more involved, or help you locate individuals you would like to meet. Please let us know how we can help make your participation at the Symposium a success.

Have a great week!

Site Map



 **Agilent Technologies**
is pleased to sponsor free internet access adjacent to the conference registration desk.

General Information

Exhibition

Ticonderoga/Yorktown/Valley Forge

Meet with instrument manufacturers, laboratory suppliers, LIMS providers, and other 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



Meals and Breaks

Continental breakfast and breaks are provided daily. Lunch is provided Tuesday, Wednesday, and Thursday. 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.

Small Laboratory Advocacy Group Information Table

Members of TNI's Small Laboratory Advocacy Group (SLAG) will be at an informational table near the Symposium registration desk during all morning and afternoon breaks of the conference. The Small Laboratory Advocacy Group serves as the focal point for small laboratory concerns within TNI by:

- Actively seeking the opinions, ideas, and viewpoints of the small laboratory community regarding accreditation;
- Answering questions internally and externally regarding small laboratory issues and implementation of accreditation standards; and
- Raising the visibility within TNI of small laboratory concerns by regularly attending face-to-face meetings and teleconferences.

Symposium Help Desk

Do you have an idea for a session or want to submit a paper for NEMC 2011? Do you want to know more about or get involved in TNI's activities? Is there someone at the Symposium you would like to meet? The answers to these and other questions can be found at the Symposium Help Desk adjacent to the registration area in the Regency Foyer. From 7:30 am – 3:30 pm on Monday through Thursday, individuals from the leadership of the Environmental Measurement Symposium (e.g., NEMC session chairs, TNI committee chairs) will be staffing the Help Desk to answer your questions about the week's events.



Keynote Addresses

Monday, 8:00, Regency Ballroom

Environmental Regulation: Past, Present, and Future



Dr. J. Clarence (Terry) Davies

Retired Senior Fellow at Resources for the Future and a Senior Advisor to the Woodrow Wilson Center's Project on Emerging Technologies

The US regulatory system for dealing with environmental health and safety problems is badly broken. The resources of the regulatory agencies were inadequate 40 years ago and they have eroded significantly since then. The laws under which the agencies operate are outdated, fragmented, and full of gaps and loopholes. The scientific and technical capabilities of the agencies have become increasingly inadequate. In short, the regulatory system cannot adequately protect the environment or human health. We need new institutions, new regulatory frameworks, and new tools. The existing regulatory agencies need to be combined with other non-regulatory agencies (NOAA, USGS, NIOSH) to form a unified Department of Environmental and Consumer Protection. New regulatory frameworks need to be focused on products (not chemicals or pollutants) and on ecological areas. New tools need to be developed to deal with imports and with public participation. These are suggestions, not firm recommendations. They are intended to stimulate discussion and focus thinking on what the regulatory system of the future should look like.

Biography: Terry Davies is a political scientist who has been involved in environmental policy for 45 years. He is a retired Senior Fellow at Resources for the Future and a Senior Advisor to the Woodrow Wilson Center's Project on Emerging Technologies. His previous positions include Director of the Center for Risk Management at Resources for the Future, and Assistant Administrator for Policy at the US Environmental Protection Agency. Dr. Davies has written several books and numerous articles about environmental policy. He chaired the National Academy of Sciences' Committee on Decision Making for Chemicals in the Environment and co-authored the reorganization plan that created the Environmental Protection Agency. He has a BA from Dartmouth College and a PhD in American Government from Columbia University.

Tuesday, 8:00, Regency Ballroom

Is Science Informing or Driving Public Policy? The View from 30 Years of Watching the NAAQS Process



Dr. Philip K. Hopke

Bayard D. Clarkson Distinguished Professor; Director, Center for the Environment; and Director, Center for Air Resources Engineering and Science Clarkson University

The US Environmental Protection Agency (USEPA) has the responsibility of protecting public health as the primary mission dictated by all of the major pieces of legislation that provide the Agency with its authority. The discussion of the role of science in public health policy always talks about science informing policy. However, how much does this really happen? Since the policy decisions dictate much of the research and basic monitoring that gets done, does the science drive the policy or does the policy drive the science? How much of the science is lamppost science under the bright light of the regulatory apparatus, but well away from the dark alley where the answers really lie? Having watched the EPA for a long time, there are cases of both that have occurred with science sometimes driving the regulation such as in the case of a National Ambient Air Quality Standard (NAAQS) for PM_{2.5}, but then the choice of that standard locks us in and precludes reexamining the problem when health and atmospheric science then suggest separating PM_{2.5} from coarse particles and potentially moving the cut-point to a lower size. Similar problems exist for many regulatory problems where the monitoring is dictated by the regulations and may not be fully able to provide the key science data to look forward beyond the problems of the past.

Biography: Dr. Philip K. Hopke is the Bayard D. Clarkson Distinguished Professor, Director of the Institute for a Sustainable Environment, and Director of the Center for Air Resources Engineering and Science at Clarkson University. Dr. Hopke is a past Member and Chair of the Clean Air Scientific Advisory Committee (CASAC), and he also chaired the CASAC Ambient Air Monitoring and Methods (AAMM) Subcommittee for a number of years. In addition, he has served as a Science Advisory Board (SAB) Member. Professor Hopke is a Past President of the American Association for Aerosol Research, and was a member of the National Research Council's Congressionally-mandated Committee on Research Priorities for Airborne Particulate Matter and the Committee on Air Quality Management in the United States. He has served on 11 other National Research Council (NRC) committees including the Committee on Risk Assessment of Exposure to Radon in Drinking Water. Professor Hopke received his BS in Chemistry from Trinity College (Hartford), and his MA and PhD degrees in chemistry from Princeton University.

Keynote Addresses

Thursday, 8:00, Regency Ballroom

Water Monitoring: Advancements, Interpreting Data, and Unmet Technology Needs



Dr. Robert M. Hirsch

Hydrologist, US Geological Survey

Monitoring of water has come a long way since the passage of the Clean Water Act in 1972. New sensors for flow, water level, chemistry, and sediment are helping to increase our knowledge, and new communications capabilities are allowing us to obtain vital water information in near-real time. These new sensors, along with methods of data analysis are providing much richer information than was ever possible in the past. But, many needs remain unmet. Water quality concerns today focus heavily on nutrients, sediment, bacteria, harmful algal blooms, and man-made organic compounds. Rapid variation in conditions, associated with storm runoff, make frequent measurements critical to accurate assessment of the status and trends in water quality. Some of the frontiers for new instrumentation are for more accurate and reliable sensors of nutrients, major ions, sediment, and harmful algal blooms. Meeting the Nation's water quality challenges will require accurate assessments of conditions and measures of progress towards water quality goals.

Biography: Robert M. Hirsch currently serves as a Research Hydrologist at the US Geological Survey (USGS). From 1994 through May 2008, he served as the Chief Hydrologist of the USGS. In this capacity, Dr. Hirsch was responsible for all USGS water science programs. These programs encompass research and monitoring of the nation's ground water and surface water resources including issues of water quantity, as well as quality. Since 2003, he has served as the co-chair of the subcommittee on water availability and quality of the committee on Environment and Natural Resources of the National Science and Technology Council, and in this role, he has been instrumental in developing interagency priorities for water science and technology. Dr. Hirsch earned a PhD from the Johns Hopkins University Department of Geography and Environmental Engineering.

Technical Sessions

Monday, August 9

KEYNOTE ADDRESS

Regency Ballroom

- 8:00 Welcome
Lara Autry, USEPA Office of Science Advisor
- 8:15 Environmental Regulation: Past, Present, and Future
Dr. J. Clarence (Terry) Davies
Retired Senior Fellow at Resources for the Future and a Senior Advisor to the Woodrow Wilson Center's Project on Emerging Technologies

ELAB

ENVIRONMENTAL LABORATORY ADVISORY BOARD

9:00 – 12:00
Columbia AB

Session Chairs: Lara Autry, USEPA OSA and David Speis, Accutest Laboratories, representing ACIL

The Environmental Laboratory Advisory Board (ELAB) is managed in compliance with the Federal Advisory Committee Act (FACA) to solicit consensus advice from the environmental measurement, monitoring, and laboratory science community. The recommendations ELAB provides include issues such as:

- Enhancing EPA's measurement programs; and
- Facilitating the operation and expansion of a national environmental laboratory accreditation program.

All ELAB meetings are open to the public.

AGENDA

- 9:00 Opening Remarks, Roll Call, and Approval of July Minutes
General Workgroup Updates
- Monitoring
 - Measurement & Technology
 - Laboratory Management
- 9:30 SW-846 Policy Revision – Status Update
- 10:00 BREAK
- 10:30 Drinking Water Certification Program and
TNI Standard – Next Steps
- 11:15 Open Discussion
- Method Identification Issues (SW-846 Policy Revision)
 - Proficiency Test Frequency
 - Quality System Standard for Drinking Water
 - New or Old Topics
- 11:50 Review Action Items

Mentoring Session: Topics in the New TNI Laboratory Accreditation Standards

9:00 – 12:00
Capitol B

Session Chair: Betsy Kent, Reedy Creek Improvement District

The NELAC Institute (TNI) has approved changes to the National Environmental Laboratory Accreditation Program (NELAP) that are expected to be fully implemented by 2011. These changes will replace the 2003 NELAC Standard with four new TNI standards:

- Management and Technical Requirements for Laboratories Performing Environmental Analysis,
- General Requirements for Accreditation Bodies Accrediting Environmental Laboratories,
- General Requirements for Environmental Proficiency Test Providers, and
- General Requirements for an Accreditor of Environmental Proficiency Test Providers.

AGENDA

- 9:00 Changes in ISO 17025
Betsy Kent, Reedy Creek Improvement District
- 10:00 BREAK
- 10:30 Method Validation and Demonstration of Capability
Silky Labie, ELCAT, LLC

Working Session: TNI Quality Manual Template

9:00 – 12:00
Columbia C

Session Chair: David Caldwell, Oklahoma DEQ

The NELAC Institute (TNI) is developing a new Quality Manual Template to assist laboratories in becoming accredited. Tools for implementation will also be discussed. This is a working session of the subcommittee developing the template. All conference attendees are welcome to participate.

AGENDA

- 9:00 Working Session
- 10:00 BREAK
- 10:30 Working Session

Technical Sessions

Monday, August 9 (Continued)

Contaminated Sediments

1:30 – 5:00
Columbia A

Session Chairs: Patricia McIsaac, Test America, Inc. and David Thal, Environmental Standards, Inc.

- 1:30 Hudson River Dredging Project – Remedial Action Monitoring Program
Mark Meyers, Anchor QEA, LLC
- 2:00 Real-Time Compliance Assessment for Contaminated Sediment Site Remediation
Samuel Haffney, Anchor QEA, LLC
- 2:30 Performance Evaluation Sample Program for Hudson River PCB Site Sediment and Remedial Action Monitoring Programs
David Blye, Environmental Standards, Inc.
- 3:00 BREAK
- 3:30 The Impact of Sediment Depth on Biogas Production in Capped Contaminated Freshwater Sediments
Cyndee Gruden, University of Toledo
- 4:00 Enhanced Monitored Natural Recovery at Contaminated Sediment Sites
Victoria Kirtay, SSC Pacific
- 4:30 Passive Sampling to Assess the Bioavailability of Halogenated Aromatic Compounds in Aquatic Systems
David Thal, Environmental Standards, Inc.

Best Practices for Data Reduction – Turning Data into Information

1:30 – 5:00
Capitol B

Session Chair: Richard Burrows, TestAmerica, Inc.

- 1:30 Untangling the Web of Method Detection Limits, Method Quantitation Limits, and Calibration Curves
Lara Autry, USEPA OSA
- 2:00 How Confident Are You In Your MDL-Reported Analytical Results?
Ruth Forman, Environmental Standards, Inc.
- 2:30 Inter-Laboratory Performance Standards for the Municipal Solid Waste Permit Section Practical Quantitation Limit (MSW-PQL)
Nancy Grams, Texas Commission on Environmental Quality
- 3:00 BREAK
- 3:30 Refining the QA/QC Focus in Water Quality Data Collection
Daren Harmel, USDA-ARS
- 4:00 Generating Meaningful Environmental Information from Laboratory Testing Data
Rock Vitale, Environmental Standards, Inc.
- 4:30 Turning Data into Information – Limitations and Solutions
Richard Burrows, TestAmerica, Inc.

Air Methods

1:30 – 3:00
Capitol A

Session Chair: Reza Karimi, Battelle Memorial Institute

- 1:30 A Novel New GCMS Inlet System for EPA Method TO-15 using Active SPME and Cold Trapping for Improved Performance and Molecular Weight Range Compatibility
Dan Cardin, Entech Instruments, Inc.
- 2:00 Working Together: How Effective Teamwork Improved the Quality and Usability of Air Monitoring Data
Deborah Gaynor, Phoenix Chemistry Services
- 2:30 A Simple More Reliable Time Integrated Whole Air Sampling Approach to EPA Method TO-15 Using Helium Diffusion Sampling
Dan Cardin, Entech Instruments, Inc.

Sensors and In Situ Monitoring

3:30 – 5:00
Capitol A

Session Chair: Reza Karimi, Battelle Memorial Institute

- 3:30 Evaluation of Nitrate Sensors for Groundwater Remediation Monitoring
Stuart Nagourney, New Jersey DEP
- 4:00 In-Field Quantitative Determination of Volatiles and Semivolatiles using Portable SPME-GC-TMS
Joe Oliphant, Torion Technologies, Inc.

TNI Policy Committee

1:30 – 5:00
Columbia C

Committee Chair: Alfredo Sotomayor, Wisconsin DNR

The Policy Committee serves as a resource for the development of TNI policies and Standard Operating Procedures (SOPs), general policies for TNI, and reviews policies and SOPs developed by other TNI committees.

AGENDA

- 1:30 Program Updates
Complaint Resolution Processes
- 3:00 BREAK
- 3:30 SOP on Guidance
TNI Quality Management Plan
Other Policies and SOPs in Development

Technical Sessions

Monday, August 9 (Continued)

Mentoring Session: Methods Panel

1:30 – 5:00
Columbia B

Session Chair: Jack Farrell, Analytical Excellence

AGENDA

- 1:30 Methods in the Office of Science and Technology
Lemuel Walker, USEPA OW
- 2:00 Methods in the Office of Drinking Water
Greg Carroll, USEPA OW
- 2:30 Methods in the Office of Resource Conservation and
Recovery
Kim Kirkland, USEPA ORCR

- 3:00 BREAK

- 3:30 Methods in Standard Methods
Andy Eaton, MWH Laboratories
- 4:00 Methods in ASTM International
William Lipps, OI Analytical
- 4:30 General Discussion

Monday Afternoon Break
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PRŌMIUM

We speak the language of your lab.

Reception and Exhibition

Ticonderoga / Yorktown / Valley Forge

Monday

5:30 – 7:00

Technical Sessions

Tuesday, August 10

KEYNOTE ADDRESS

Regency Ballroom

- 8:00 Welcome
Earl Hansen, Independent Laboratories Institute
- 8:15 Is Science Informing or Driving Public Policy? The View from 30 Years of Watching the NAAQS Process
Dr. Philip K. Hopke
Bayard D. Clarkson Distinguished Professor; Director, Center for the Environment; and Director, Center for Air Resources Engineering and Science Clarkson University

Operational and Advocacy Issues Impacting the Environmental Laboratory Industry

9:00 – 12:00
Columbia B

Session Chair: David Speis, Accutest Laboratories

- 9:00 State Level Advocacy Issues: RI Drinking Water Program, NJ LL TO-15
Milton Bush, The M Companies
- 9:30 Understanding Department of Transportation Sample Shipping Requirements for Environmental Laboratories
Michael Stevens, US DOT
- 10:00 BREAK
- 10:30 Going Green: Identifying and Managing Hazardous Waste in the Laboratory
Judy Morgan, Environmental Science Corporation
- 11:00 Quantitation Limits in Texas
Richard Burrows, TestAmerica, Inc.
- 11:30 Cost Accounting in the Environmental Testing Industry
Robert Wyeth, Pace Analytical Services, Inc.

TNI Information Technology Committee

Regency Foyer
9:00 – 12:00

Committee Chair: Art Clark, USEPA Region I

The Information Technology Committee provides recommendations as to the design and content of the TNI website, manages the TNI Laboratory Accreditation Management System (LAMS), and maintains TNI databases such as technology codes, method codes, and analyte codes.

AGENDA

- National Database
- Website Review

Drinking Water Methods / Pharmaceutical and Personal Care Products

9:00 – 12:00
Columbia C

Session Chairs: Andy Eaton, MWH Laboratories and Greg Carroll, USEPA OW

- 9:00 Improved Determination of Inorganic Iodine Species in Water
Kok Yong Lim, Centre for Advanced Water Technology, Singapore
- 9:30 Analysis of Low Level Haloacetic Acids in Drinking Water by Reversed-Phase LC/ESI/MS
Yongtao (Bruce) Li, Underwriters Laboratories, Inc.

10:00 BREAK

- 10:30 New EPA Method 557 for Haloacetic Acids, Bromate and Dalapon by IC-MS/MS. Development and Performance Comparison with EPA Method 552
Richard Jack, Dionex Corporation
- 11:00 Comparison of Soluble Nitrate Reductase and Granular Copperized Cadmium Reducing Agents for Routine, Colorimetric Nitrate Determinations in Water
Charles Patton, USGS
- 11:30 Design Considerations for Interlaboratory Comparison of PPCP/EDC Analytical Methods
Curtis Wood, ERA

Challenges in Low-Level Mercury Analyses (Part I)

9:00 – 12:00
Columbia A

Session Chair: Mark Bruce, TestAmerica, Inc.

- 9:00 Mercury Collection and Analysis in Ambient Waters and Effluents: An Historical Perspective
Bill Telliard, USEPA (Retired)
- 9:30 Sample Collection Options for Low Level Mercury Monitoring
Mark Bruce, TestAmerica, Inc.

10:00 BREAK

- 10:30 Limitations of the Room Temperature BrCl Digestion for the Analysis of Total Mercury In Wastewater
Charles R. Lytle, City of Portland
- 11:00 How a POTW Conquered Clean Sampling for Trace Level Mercury using EPA Method 1669 and Trace Level Mercury Analysis by EPA Method 1631 Utilizing a Non-Gold Trap Method
Cheryl Soltis-Muth, Northeast Ohio Regional Sewer District
- 11:30 Mercury Concentration in Bottled Water from Around the World
David Clarke, CETAC Technologies

Technical Sessions

Tuesday, August 10 (Continued)

Assessment Forum: Improving Audit Consistency

9:00 – 12:00
Capitol A

Session Chair: Jack Farrell, Analytical Excellence

The 2010 Assessment Forum will focus on activities of TNI's Consistency Improvement Task Force (CITF).

AGENDA

- 9:00 Introductions, Objectives, Agenda, Ground rules
Jack Farrell, Analytical Excellence
- 9:15 CITF – The March Towards Improving Accreditation Consistency
Alfredo Sotomayor, Wisconsin DNR

10:00 BREAK

- 10:30 CITF – A Blueprint for Conducting a Successful Routine On-site Assessment
Tom McAninch, Laboratory Consulting Services
- 11:15 CITF – Helping ABs Manage the Chaos
Kathy Gumpfer, ChemVal Consulting

National Environmental Field Activities Program

Capitol B
9:00 – 12:00

Session Chair: Marlene Moore, Advanced Systems

The purpose of this program is to establish and implement a program for the accreditation of field sampling and measurement organizations (FSMOs).

AGENDA

- 9:00 NEFAP Executive Committee and Field Activities Expert Committee: Review Progress to Date
Action Items and Program Development
Program Status Including SOPs and Checklists
EPA Lead Program Presentation Related to TNI/EPA MOU
Field PT Subcommittee: Status of PTs for Field Program
Program Timeline for First FSMOs Accredited

12:00 – 1:30 LUNCH PROVIDED
Regency Ballroom

TNI Consensus Standards Development Program

12:00 – 1:30 (WORKING LUNCH)
Concord

Session Chair: Robert Wyeth, Pace Analytical Services, Inc.

The purpose of this program is to develop consensus standards for use by TNI's accreditation and proficiency test programs.

AGENDA

- 12:00 Update on Standards in Development

TNI Technical Assistance Committee

12:00 – 1:30 (WORKING LUNCH)
Bunker Hill

Committee Chair: Betsy Kent, Reedy Creek Improvement District

TNI's Technical Assistance Committee develops tools and templates to assist laboratories and accreditation bodies with implementing accreditation programs and ensures that training programs relevant to the needs of the stakeholder community are provided.

AGENDA

- 12:00 Role of TNI and Other Organizations in Providing Training
TNI SOP on Educational Delivery Systems

Technical Sessions

Tuesday, August 10 (Continued)

Innovative Approaches to Analysis for Conventional and Emerging Pollutants

Columbia C

1:30 – 5:00

Session Chair: Robert Wyeth, Pace Analytical Services, Inc.

- 1:30 Using the Dispersive Solid Phase Extraction Clean Up Approach from QuEChERS for EPA Method 8081 Organochlorine Pesticide Samples
Michelle Mizelwitz, Reastek Corporation
- 2:00 Automating Sample Preparation for Semi-Volatile Organic Compounds (EPA Method 8270D) in Water Utilizing a Solid Phase Extraction Disk and Carbon Cartridge
Michael Ebiton, Horizon Technology, Inc.
- 2:30 A New EPA SW-846 Method for Toxaphene and Toxaphene Congeners in Various Environmental Media
Shen-yi Yang, USEPA ORCR
- 3:00 BREAK
- 3:30 Development of a Sample Preparation and Analysis Method for the Determination of Compounds on the EPA Method 8330B Analyte List in Marine Tissue
Chris Pace, USEPA Region 10
- 4:00 Novel Method for the Determination of Trace-level Perfluorinated Compounds in Water Matrices by Inline Matrix Elimination Ion Chromatography
Hari Narayanan, Metrohm USA
- 4:30 A Novel Approach to the Analysis of Chlorophenoxy Acid Herbicides in a Difficult Matrix
Charles Nestlund, Lancaster Laboratories, Inc.

Pharmaceutical and Personal Care Products

Columbia B

1:30 – 5:00

Session Chair: Andy Eaton, MWH Laboratories and Joe Romano, Waters Corporation

- 1:30 Assessment of Sampling Protocols and Analytical Performance via Interlaboratory Comparison for PPCPs/EDCs
Brett Vanderford, Southern Nevada Water Authority
- 2:00 Results of a Real World Interlab Study on PPCP Analysis
Andy Eaton, MWH Laboratories
- 2:30 Experiences in the Analysis of PPCPs in POTW and Environmental Samples
Coreen Hamilton, AXYS Analytical Services, Ltd.
- 3:00 BREAK
- 3:30 LC-MS/MS Analysis of Pharmaceutical and Personal Care Products (PPCPs) by EPA Method 1694
Charles Nestlund, Lancaster Laboratories, Inc.
- 4:00 The Analysis of Pharmaceuticals in Water Using UPLC with On-line SPE Technology
Claude Mallet, Waters Corporation
- 4:30 The Impact of Sample Salinity on the Analysis of Pharmaceuticals and Personal Care Products (PPCPs)
Michael Flournoy, TestAmerica, Inc.

Challenges in Low-Level Mercury Analyses (Part 2)

Columbia A

1:30 – 5:00

Session Chair: Mark Bruce, TestAmerica, Inc.

- 1:30 Solutions to Data Quality Risks with EPA Method 1631
Colin Davies, Brooks Rand Labs
- 2:00 USEPA 1631 and Low-Level Mercury Analysis Using the CETAC QuickTrace™ M-8000 CVAF Mercury Analyzer
Jeff Forsberg, CETAC Technologies
- 2:30 Simple, Environmentally-Friendly Mercury Analysis by EPA Method 1631
Jason Gray, Nippon Instruments
- 3:00 BREAK
- 3:30 The Mercury CV Hg Analyzers from SCP SCIENCE
Mark Harris, SCP SCIENCE
- 4:00 Automated EPA Method 1631: Optimization and Advances of a Performance Based Method
Eric Puetbo, Tekran Research and Development
- 4:30 USEPA Methods 1631 and 245.7: Similarities, Differences and the Gray Area in Between
Dave Pfla, Taledyna-Leaman Labs

Tuesday Afternoon Break
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Fluid Management Systems



Technical Sessions

Tuesday, August 10 (Continued)

Assessment Forum: Improving Audit Consistency (Continued)

1:30 – 5:00
Capitol A

Session Chair: Jack Farrell, Analytical Excellence

AGENDA

- 1:30 CITF – A Proposed Laboratory Bill of Rights
Verl Preston, TestAmerica, Inc. and Silky Labie, ELCAT, LLC
- 2:15 Topics of Confusion for Labs and Assessors
LOQ Reporting for PT Samples,
Tom McAninch, Laboratory Consulting Services
Uncertainty Reporting & the New Standard
Jim Todaro, Alpha Analytical
- 3:00 BREAK
- 3:30 Common Assessment Findings – An Update
- New York
 - Texas
 - Florida
- 4:30 Open Session, Path Forward, Questions, Evaluations
Jack Farrell, Analytical Excellence

National Environmental Field Activities Program (Continued)

Capitol B
1:30 – 5:00

Session Chair: Marlene Moore, Advanced Systems

AGENDA

- 1:30 Training on How to Implement the TNI FSMO Standard
- Accreditation Bodies' Perspective
 - FSMO Perspective

Poster Presentations

Ticonderoga / Yorktown / Valley Forge

7:30 – 5:00

Session Organizer: Kim Kirkland, USEPA ORCR

Tuesday

7:30 – 12:00 pm

- Flexible, Automated Sample Processing System for Analysis of Drinking Water Using SPE Cartridges and Disks
Thomas Dobbs, J2 Scientific
- Cyanide Analysis – Reducing Laboratory Operating Costs without Compromising Data Quality or Regulatory Compliance
William Lipps, OI Analytical
- Simplified Procedure for the Determination of Total Kjeldahl Nitrogen in Water and Wastewater
David MacDonald, Hach Company
- Automated Handling Techniques for the Analysis of Volatile Organic Compounds (VOCs) in Soils Utilizing USEPA Method 8260
Tammy Rellar, Teledyne Technologies, Inc.
- Portable XRF for Cost-Effective Environmental Site Investigations of Hazardous Metals in Soil
Kim Russell, Innov-X Systems
- Benefits of Radial Passive Samplers
Katherine Stenerson, Sigma-Aldrich/Supelco

1:00 – 5:00 pm

- Methods Information Communication Exchange (MICE)
Ray Anderson, SAIC
- Satisfying ISO-17025 Requirements in a Field Sampling and Monitoring Organization
Patrick Conlon, Environmental Standards, Inc.
- Real Time BOD Estimations by Automated COD Analysis using the PC-BOD/Titrate Duo
Lindsay Peddle, ManTech International, Corp.
- On-line Water Quality Monitoring as a Security Program
Lindsay Peddle, ManTech International, Corp.
- Standard Reference Materials for Contaminants of Emerging Concern: Perfluorinated Compounds
Jessica Reiner, NOAA
- Rapid Detection of Clostridium Perfringens by a New Chromogenic Media
Katherine Stenerson, Sigma-Aldrich/Supelco

Wednesday

7:30 – 12:00pm

- Developing Long-Term Sustainable Management Systems
Umair Ahmed, Hach Company
- Incremental Sampling Methodology – ITRC Status Report
Mark Bruce, TestAmerica, Inc.
- Perchlorate Methods Re-visited
Jay Gandhi, Metrohm
- Improved Productivity in Environmental ICP-MS Analysis
Zoe Grosser, PerkinElmer, Inc.
- USEPA Method 524.3 for Analysis of Volatile Organic Compounds (VOCs) in Finished Drinking Water: Optimized Instrument Parameters and Method Validation
William Lipps, OI Analytical
- Evaluating the Benefits of a Split Injection for EPA Method 8270
Michelle Misselwitz, Restek Corporation

1:00 – 5:00pm

- Analysis of Micro Nutrients in Water
Jay Gandhi, Metrohm
- 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
- Environmental Technology Verification – Science to Guide Local, Regional, and Federal Decision Making
John McKernan, USEPA ORD
- The Analysis of Halogenated Organics in Environmental Samples by LC/MS/MS
Michelle Misselwitz, Restek Corporation
- EPA Method 1664B and Oil and Grease Method Flexibility
Joseph Stefkovich, Xenosep Technologies

Technical Sessions

Wednesday, August 11

PLENARY SESSION

Regency Ballroom

- 8:15 Welcome
Jerry Parr, The NELAC Institute
- 8:20 EPA Efforts to Bring Science into Public Policy
Lara Autry, USEPA Office of Science Advisor
- 8:30 Taking Action on Climate Change
Gina McCarthy, Assistant Administrator, Office of Air and Radiation
- 9:15 The Role of Enforcement to Ensure the Integrity of Our Science
Cynthia Giles, Assistant Administrator, Office of Enforcement and Compliance Assurance
- 10:00 BREAK
- 10:30 Regional Viewpoint on Science and Its Impact on Public Policy
Ronald Hammerschmidt, Laboratory Director, Regional Office 7
- 11:15 Science and Technology Solutions for Emergency Response Situations
Lara Autry, Senior Advisor, Office of the Science Advisor

12:00 – 1:30 LUNCH

Sponsored by ERA and Waters
Regency Ballroom



TNI Advocacy Committee

12:00 – 1:30 (WORKING LUNCH)

Concord

Committee Chair: Judith Duncan, Oklahoma DEQ

AGENDA

Meeting with Trade Associations Representing Water Utility Laboratories

TNI Laboratory Accreditation Body Expert Committee

12:00 – 1:30 (WORKING LUNCH)

Bunker Hill

Committee Chair: Joe Aiello, New Jersey DEP

AGENDA

12:00 Accreditation Body Evaluation SOP

Method Validation

1:30 – 5:00

Columbia B

Session Chairs: Lemuel Walker, USEPA OW and William Lipps, OI Analytical

Each presenter will give an overview of their group's method submittal, development, approval, validation, and publishing process.

- Brynn Murphy, ASTM International, Technical Committee Operation
- Andy Eaton, Standard Methods, Joint Editorial Board
- Greg Carroll, USEPA, Office of Ground Water and Drinking Water
- Richard Reding, USEPA, Office of Science and Technology
- Charles Patton, US Geological Survey, Methods Research and Development Program

Emerging Technologies

1:30 – 5:00

Columbia C

Session Chair: Nancie Copeland, Environmental Express

- 1:30 Large Volume Injection for Gas Chromatography Using a Commercially Available Unmodified Splitless Injector
Jack Cochran, Restek Corporation
- 2:00 Optimization of Solid Phase Extraction (SPE) Media and Concentration Methodology for Rapid Processing of Large Volume Environmental Water Samples for the Analysis of Pharmaceuticals and Personal Care Products (PPCPs)
Michael Ebitson, Horizon Technology, Inc.
- 2:30 Optimizing the use of a Single GC/MS in the Analysis of Volatile and Semi-volatile Environmental Applications
William Goodman, PerkinElmer, Inc.
- 3:00 BREAK
- 3:30 A Novel Automated Sample Preparation System Utilizing Microwave Heating for Acid Digestion and Solvent Extraction
Mike Moses, SCP Science
- 4:00 Monitoring Iodated X-Ray Contrast Media in Wastewater Samples by LC/MS/MS
Rebecca Wittrig, AB Sciex
- 4:30 US EPA Method 8015 Fast – Using a New Novel Gas Chromatograph (GC) Oven Design
Lee Marotta, PerkinElmer, Inc.

Technical Sessions

Wednesday, August 11 (Continued)

Innovative Approaches to Analysis for Conventional and Emerging Pollutants

1:30 – 5:00
Columbia A

Session Chair: Robert Wyeth, Pace Analytical Services, Inc.

- 1:30 Pesticide Monitoring by the Direct Injection of Drinking Water
Joe Romano, Waters Corporation
- 2:00 UPLC-MS(MS) Determination of Diquat and Related Compounds in Aqueous Samples and Extracts
Michael Young, Waters Corporation
- 2:30 IC-ICP-MS Analysis of Bromate and Bromide: Bromate Detoxification in Rats and Humans
Zhongxian Guo, Centre for Advanced Water Technology, Public Utilities Board, Singapore
- 3:00 BREAK
- 3:30 The Detection and Characterization of Nanoparticles in the Environment
John Scalera, USEPA OEI
- 4:00 Technical and Regulatory Issues Associated with the use of USEPA Method 1668 in Environmental Permits
Michael Gershenson, Alcoa Technical Center
- 4:30 Contaminants Identified in Environmental Waters Using a ToF Screening Approach
Ken Rosnack, Waters Corporation

TNI Proficiency Test (PT) Program

3:30 – 5:00
Capitol B

Session Chair: Eric Smith, TestAmerica, Inc.

The purpose of this program is to ensure that an effective PT program exists to support TNI's accreditation programs.

AGENDA

- 3:30 Fields of Proficiency Tests (FoPTs)
- Status of Potable Water, Non-potable Water, and Solids &
 - Chemical Material Table Updates
 - Cryptosporidium
- PTPA Evaluations
- Update of PTPA Assessment SOP
 - New PTPA Application
 - Status of PTPA Assessments for 2010



TNI Laboratory On-Site Assessment Expert Committee

1:30 – 5:00
Capitol A

Committee Chairs: Denise Rice, USEPA OIG and John Gumper, ChemVal Consulting

AGENDA

- 1:30 Technical Training Curriculum for Laboratory Assessors
Role of Surveillance Assessments

TNI Laboratory Accreditation System Executive Committee

1:30 – 3:00
Capitol B

Committee Chair: June Flowers, Flowers Chemical Laboratories, Inc.

AGENDA

- 1:30 Implementation of New TNI Standards
Standard Interpretation Requests
Review of Quality Systems Expert Committee Checklist
Interactions with Technical Assistance Committee and NEFAP Accreditation Council

Reception and Exhibition

Ticonderoga/Yorktown/Valley Forge

Wednesday

5:30 – 7:00

Technical Sessions

Thursday, August 12

KEYNOTE ADDRESS

Regency Ballroom

- 8:00 Welcome
Ilona Taunton, The NELAC Institute
- 8:15 Water Monitoring: Advancements, Interpreting Data, and Unmet Technology Needs
Dr. Robert M. Hirsch, Hydrologist, US Geological Survey

International Approaches to Monitoring

9:00 – 12:00
Columbia C

Session Chairs: David Friedman, Friedman Consulting and Zoe Grosser, PerkinElmer, Inc.

- 9:00 Environmental Protection in the Socialist Republic of Vietnam
Michael Violette, Washington Laboratories, Ltd.
- 9:30 The Profile of the Laboratories in Conducting the Analyses for the Brazilian Environmental Agencies
Fernanda Curvelo Santos, Escola ecnica da Universidade Federal da Bahia
- 10:00 BREAK
- 10:30 Environmental Protection in Central America
Oscar Ceville, Organization of American States
- 11:00 International Environmental Technology Verification
Amy Dindal, Battelle Memorial Institute
- 11:30 Discussion

Current Topics in Microbiology (Part I)

9:00 – 12:00
Columbia B

Session Chair: Patsy Root, IDEXX Laboratories, Inc.

- 9:00 Structure of Standard Methods, How and When Changes are Made
Margo Hunt, USEPA (retired)
- 9:30 Assessing Laboratory Proficiency for Detecting Cryptosporidium Oocysts
Carrie Miller, USEPA OW
- 10:00 BREAK
- 10:30 Laboratories Receive Water Contamination Response Capabilities via EPA Full-Scale Exercise and New Analytical Methods and Tools
Latisha Mapp, USEPA OW
- 11:00 Microbiological Method Validation Challenges
Yildiz Chambers, CSC
- 11:30 What is a Number – MPN vs. MF Colilert, Colilert-18, MTF and MF
Gil Dichter, IDEXX Laboratories, Inc.

Analysis of Metallic Species and Organometallics (Part I)

9:00 – 12:00
Columbia A

Session Chairs: Michelle Briscoe, Brooks Rand Labs and Stuart Nagourney, New Jersey DEP

- 9:00 Speciation of Organotin and Organomercury Compounds in the Environment by GC-ICP/MS for Improved Environmental Management
Olivier Donard, Laboratoire de Chimie Bioinorganique et Environnement
- 9:30 Arsenic and Selenium Speciation in Natural and Industrial Waters – Technical Issues Affecting the Accuracy of the Environmental Monitoring Process
Panayot Petrov, Brooks Rand Labs
- 10:00 BREAK
- 10:30 Determination of Total Arsenic and Arsenic Species in Baby Food
Vivien Taylor, Trace Element Analysis Laboratory, Dartmouth College
- 11:00 Application of Selenium Speciation Analyses for Fish Based NPDES Discharge Limits
Russell Gerads, Applied Speciation and Consulting, LLC
- 11:30 Arsenic Speciation Measurements in NIST Standard Reference Materials
W. Clay Davis, Hollings Marine Laboratory, NIST

National Environmental Laboratory Accreditation Program

9:00 – 12:00
Capitol B

Session Chair: Aaren Alger, Pennsylvania DEQ

The purpose of this program is to establish and implement a program for the accreditation of environmental laboratories.

AGENDA

- 9:00 Implementation of the New TNI Standards
NELAP Evaluation SOP
Accreditation Body Renewals
- 10:00 BREAK
- 10:30 Training on Volume 2: General Requirements for Accreditation Bodies Accrediting Environmental Laboratories

Technical Sessions

Thursday, August 12 (Continued)

TNI Laboratory PT Expert Committee

9:00 – 12:00
Capitol A

Session Chair: Kirstin McCracken, TestAmerica, Inc.

AGENDA

9:00 Tentative Interim Amendments and Working Draft Standard
Accreditation Body Survey
Interactions with the PT Executive Committee

Stationary Source Audit Sample Program

9:00 – 12:00
Regency Foyer

Session Chair: Maria Friedman, TestAmerica, Inc.

This program is focused on the externalization of the EPA's Stationary Source Audit Program (SSAP), including roles and responsibilities of program participants, manufacture of audit samples, oversight of audit sample providers, management of audit sample results, and acceptance criteria.

AGENDA

9:00 SSAS Program Update
SSAS Central Database Demonstration
SSAS Central Database Training for Providers

12:00 – 1:30 LUNCH PROVIDED
Regency Ballroom

Cryptosporidium Proficiency Testing (PT) and QA Program

1:30 – 3:00
Concord

Moderators: Eric Smith, TestAmerica, Inc. and Carrie Miller, USEPA OW

EPA's Technical Support Center is evaluating the technical feasibility for private sector PT providers to provide PT samples for laboratories that analyze raw drinking water for cryptosporidium oocysts. TNI has had preliminary discussions with EPA about related issues regarding EPA's Laboratory Quality Assurance Evaluation Program for Cryptosporidium, as well. This open session is designed to allow PT providers, laboratories, and others to share their views on these topics.

General Topics

1:30 – 5:00
Columbia C

Session Chair: Robert Wyeth, Pace Analytical Services, Inc.

- 1:30 The Analysis of Samples from an Idaho Firing Range: A Case Study in the Application of Multi-Increment Sampling
Katie Adams, USEPA Region 10
- 2:00 Improved Methods for Analysis of Endocrine Disrupting Chemicals in Water
Yongtao (Bruce) Li, Underwriters Laboratories, Inc.
- 2:30 A Method for the Analysis of NDMA at the Low Part Per Trillion Level
Charles Neslund, Lancaster Laboratories, Inc.

3:00 BREAK

- 3:30 Evaluation of Matrix Spike and Deuterated Monitoring Compound (DMC) Recoveries in Environmental Samples
Nazy Abousaedi, Computer Sciences Corporation
- 4:00 Using Standard Reference Materials to Improve the Quality of Data Generated by EPA Analytical Methods
Stuart Nagourney, New Jersey DEP
- 4:30 Paperless Laboratories from an Assessor's Point of View
Patrick Conlon, Environmental Standards, Inc.

Analysis of Metallic Species and Organometallics (Part 2)

1:30 – 5:00
Columbia A

Session Chairs: Michelle Briscoe, Brooks Rand Labs and Stuart Nagourney, New Jersey DEP

- 1:30 How to Improve the Quality of Measurements of Cr(VI) in Soils
Stuart Nagourney, New Jersey DEP
- 2:00 Evaluation of Extraction Methods for Cr(VI) Determination in Dusts, Ashes, and Soils
Ruth Wolf, USGS
- 2:30 Evaluation of the Accuracy of Cr(VI) Measurements in Soils
Julien Malherbe, NIST
- 3:00 BREAK
- 3:30 Watching the Isobars on the Way to Quantifying the Species, Sometimes it's the Molecules Just Cannot Stay Out of the Way
Brian Buckley, Environmental and Occupational Health Sciences Institute, Rutgers University
- 4:00 Speciation of Arsenic, Selenium, and Chromium in Wild Fire Impacted Soils and Ashes
Ruth Wolf, USGS
- 4:30 Comparison of Different Column Diameters for HPLC-ICP-MS
Zoe Grosser, PerkinElmer, Inc.

Technical Sessions

Thursday, August 12 (Continued)

Current Topics in Microbiology (Part 2)

1:30 – 5:00
Columbia B

Session Chair: Patsy Root, IDEXX Laboratories, Inc.

- 1:30 Beach Monitoring Using Rapid Microbial Methods Used to Identify Pollution Sources at Lake Erie Beaches
Mark Citriglia, Northeast Ohio Regional Sewer District
- 2:00 Comparing Rapid QPCR Assays for Enterococcus sp. with Culture-Based Analyses
Reagan Converse, University of North Carolina at Chapel Hill
- 2:30 An Update on EPA's New or Revised Recreational Water Quality Criteria
John Wathen, USEPA OW
- 3:00 BREAK
- 3:30 Discussion – Beach Monitoring
- 4:00 Selection of Pathogens for EPA's CCL
Tracy Bone, USEPA OW
- 4:30 New Microbiological Methods: From Pasteur to Star Trek
Susan Boutros, Environmental Associates, Ltd.

TNI Laboratory Quality Systems Expert Committee

1:30 – 5:30
Capitol A

Committee Chair: Silky Labie, ELCAT, LLC

The Quality Systems Expert Committee passed a tentative Interim amendment in VIM6, Section 1.7.1 c). The amendment was passed based on expert advice in radiochemistry. The committee must now propose the amendment as a permanent change to the standard. In addition, several questions have been raised concerning sections 1.4 and 1.5 in the technical modules. It was pointed out that the language in the technical module was from an older ISO standard and the current ISO language was deleted from VIM2. In an effort to standardize the sections, the relevant ISO language was added back to Sections 5.4.4 and 5.4.5 of VIM2 and the definition for “reference method” was added to the glossary. **There is no change to the intent of the standard.** Changes are meant to clarify the original intent of the standard. This session is an open workshop to take comments on the proposed changes, and to solicit any additional changes that might clarify, but not change the 2009 TNI standard.

AGENDA

- 1:30 Overview of Standard Changes
Changes to Glossary
Additions to VIM2 Sections 1.4 and 1.5
Changes to Technical Modules
- VIM3 – Asbestos
 - VIM4 – Chemistry
 - VIM5 – Microbiology
 - VIM6 – Radiochemistry
 - VIM7 – Toxicity Testing
- Open Session on Other Suggested Changes

Friday, August 13

TNI Board of Directors

8:30 – 12:00
Columbia B

Chair: Steve Arms, Florida Department of Health

AGENDA

- 8:30 Consensus Standards Development Program
National Environmental Field Activities Program
National Environmental Laboratory Accreditation Program
Proficiency Test Program
Stationary Source Audit Sample Program
Administration and Support

USEPA's Water Laboratory Alliance (WLA), Security Related Tools, Exercises, and Ongoing Research

8:30 – 12:00
Capitol A

Session Chair: Pamela Bernard, USEPA OW

This session will focus on the portion of EPA's Environmental Laboratory Response Network (ERLN) that addresses drinking water contamination response capabilities for the Water Sector: the EPA Water Laboratory Alliance (WLA). Included in the session will be an overview of the ERLN, details on WLA programmatic activities, and the contents and use of the WLA Response Plan (WLA-RP). In addition, participants will receive an in-depth tour of EPA's Water Contaminant Information Tool (WCIT), including a contamination scenario that will allow participants to understand WCIT's utility in response to a real-world situation.

AGENDA

- 8:30 Overview of EPA's ERLN, WLA Programmatic Activities, and the WLA-RP
- 10:00 BREAK
- 10:30 Overview of WCIT, including a Water Contamination Scenario

Training Courses

How to Modify a Method Through an Alternate Test Procedure: Meeting the Regulatory Requirements for Federal Compliance

Friday, August 13
8:30 am – 2:30 pm
Concord

The class will step through the requirements that a laboratory must perform to complete an Alternate Test Procedure (ATP) at a local or regional level (Tier 1 or Tier 2) for a method modification under the requirements of the Clean Water Act (CWA) and Safe Drinking Water Act (SDWA). The areas that will be focused on are:

- Development of the method modification justification for a Tier 1 or Tier 2 ATP.
- Determine what method modifications will or can be made without requiring an ATP.
- Determine what method modifications will or can be made without requiring a new method under EPA requirements.
- Develop the experimental parameters.
- Minimum statistical requirements for method comparison.
- Writing the new method in EPA format.
- Writing and submitting the summary reports.

Instructor: Edward Askew, Askew Scientific Consulting

New TNI Laboratory Accreditation Standards

Friday, August 13
8:30 am – 3:00 pm
Capitol B

The NELAC Institute (TNI) National Environmental Laboratory Accreditation Program (NELAP) has adopted for use within the program four new accreditation standards:

- Management and Technical Requirements for Laboratories Performing Environmental Analysis;
- General Requirements for Accreditation Bodies Accrediting Environmental Laboratories;
- General Requirements for Environmental Proficiency Test Providers; and
- General Requirements for an Accreditor of Environmental Proficiency Test Providers.

The new standards will replace the 2003 NELAC standard and will be implemented in 2011. All NELAP-accredited laboratories will need to comply with the new requirements by July 1, 2011. This workshop will review in detail the standard applicable to laboratories, briefly review the other three standards, and present the plan for implementation.

Instructors: TNI Staff, Committee Chairs, and Volunteers

Electronic Delivery of Laboratory Data for the Next Generation

Friday, August 13
8:30 - 4:30 pm
Bunker Hill

This training course will introduce and discuss the implementation of the Staged Electronic Data Deliverable (SEDD). The course will focus on implementing SEDD for the Superfund Methods (ISM01.2, SOM1.2, DLM2.2 and CBC1.2) Statements of Work for EPA's Contract Laboratory Program (CLP). The course will also be applicable to anyone using SEDD for other programs (e.g., SW-846). Laboratories, software vendors, and Architect-Engineer firms who have bid or are considering bidding on this contract in the future or have worked 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. The course will introduce SEDD and discuss the various Stages and what type of data each can deliver. The structure of SEDD will be discussed that will show the type of data that is reported in a Stage 2a, 2b, or 3 SEDD file and how the files are constructed. The course will focus on the reporting of the data for the Stage 2a and 2b along with some discussion on Stage 3.

SEDD allows for the complete linking of all samples to their associated Quality Control samples, the complete linking of all samples to their associated continuing and initial calibration data, and the complete linking of all reported results to the specific analysis that was used to derive that specific result. Numerous real examples will be displayed and discussed. The various means for constructing these files along with the current tools that can assist the laboratories with the evaluation of their in-house created files will be demonstrated. Overall, in the data review process, a significant cost savings has been demonstrated in the CLP through the use of these deliverables and associated software tools.

Instructor: Joseph Solsky, US Army Corps of Engineers

Collaborating Instructors: John Nebelsick, USEPA Office of Superfund Remediation and Technology Innovation and David Youngman, Shaw Environmental Group, Inc.

You must be registered for these courses to attend.

Thank You

NEMC

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

Future Meetings



Savannah, Georgia
January 31 – February 5, 2011



Seattle, Washington
July 18 – 22, 2011