

Environmental Measurement Symposium

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

**“Monitoring Response to
Environmental Disasters”**

Bellevue, Washington
August 15 – 19, 2011

Symposium Sponsors



Exhibitors

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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 attending the Symposium, we hope you find it stimulating and beneficial. Our Registration Staff and Information Booth are available to assist you with any questions or locate individuals you want to meet. Please let us know how we can help make your participation in the Symposium a success.

Have a great week!

Site Map and General Information



The NELAC Institute is pleased to provide **free internet access** near the registration desk, during conference hours, as well as in your guestroom.

Symposium Technical Help Desk

Do you have an idea for a session or want to submit a paper for NEMC 2012? 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 Technical Help Desk adjacent to the registration area. From 7:30 am to 3:30 pm, Monday through Thursday, NEMC session chairs, TNI committee chairs, and other volunteers will be staffing the Help Desk to answer your questions.



Meals and Breaks



Continental breakfast 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.

Lunch is provided Tuesday, Wednesday, and Thursday. Lunches are from 12:00 – 1:30.

Exhibition

Grand Ballroom

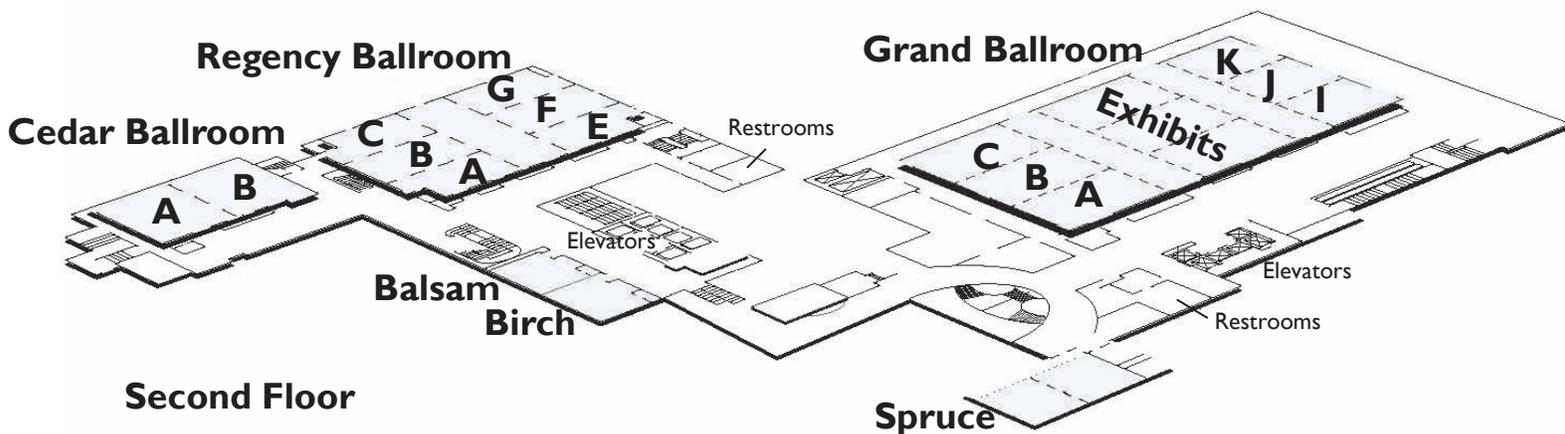
Meet with instrument manufacturers, laboratory suppliers, LIMS providers, and other laboratory service providers. See the latest innovations in measurement technology, proficiency testing, sample preparation, and laboratory automation.

Exhibit Hours

Monday
5:30 – 7:00

Wednesday
7:30 – 8:00
10:00 – 10:30
12:00 – 1:30
3:00 – 3:30
5:30 – 7:00

Tuesday
7:30 – 8:00
10:00 – 10:30
12:00 – 1:30
3:00 – 3:30



Second Floor

Keynote Speakers

Monday, 8:15, Grand ABC

**Coffee from Seed to Cup:
The Biomedical Story from a
Heart Surgeon's Perspective**

Dr. James A. Ameika
Kona Cloud Coffee Estates

Dr. Ameika practices cardiology in Jonesboro, Arkansas at Northeast Arkansas Clinic. Dr. Ameika received his medical degree from the University of Arkansas College of Medicine in 1981. He served as Chief of General and Cardiothoracic Surgery for the 15th Evacuation Hospital during Operation Desert Storm in Saudi Arabia in 1990–91.

Tuesday, 8:15, Grand ABC

**Collaborative Opportunities for Meeting
the US Environmental Protection Agency's
Measurement and Monitoring Needs**



Lara P. Autry
US Environmental
Protection Agency
Office of the Science Advisor

Ms. Autry is the Senior Advisor for Measurement, Monitoring, and Laboratory Science Issues with the US Environmental Protection Agency (EPA) in the Office of the Science Advisor (OSA). In over 16 years with the EPA, she has served in various positions and roles within the Office of Air and Radiation and the Office of Research and Development before joining the OSA staff. Over her years of government service, she has gained expertise in budgeting and program planning, quality systems, laboratory accreditation, monitoring and testing issues, proficiency testing, regulatory issues, modeling, statistical design and analysis, and innovative strategies and technologies. At present, she is not only an advisor for science issues, but serves as the Director of the Forum on Environmental Measurements, Designated Federal Official for the Environmental Laboratory Advisory Board, and Quality Assurance Manager for OSA. As a native of North Carolina, Lara did her Bachelor's and Master's work in Statistics at North Carolina State University with a minor in Mathematics. She has received numerous honors and is involved in several professional organizations including The NELAC Institute (TNI).

Tuesday, 12:30, Grand ABC

Update on Activities of The NELAC Institute



Steve Arms
Florida Department of Health

Mr. Arms is the Environmental Laboratory Certification Program (ELCP) Administrator for the Florida Department of Health. He has more than 25 years of managerial and analytical experience in the environmental testing field. As ELCP Administrator, Mr. Arms is responsible for oversight of the program's Quality System and day-to-day operations. He is responsible for ensuring that all employees are trained, competent, and knowledgeable in the standards for accreditation and their application as they relate to each individual's job functions. He periodically evaluates the effectiveness of the Quality System and makes adjustments to policies and procedures as necessary. He participated on the Partnership Planning Team and Transition Board that led to the formation of The NELAC Institute (TNI). He currently serves as Chair of the TNI Board of Directors and is a member of the NELAP Accreditation Council. Mr. Arms has a B.S. degree in Chemistry from the University of Florida.

Thursday, 8:15, Grand ABC

Observing Puget Sound



Dr. Jan Newton
University of Washington

Dr. Newton is Chair of the Puget Sound Partnership Science Panel and a Principal Oceanographer with the Applied Physics Laboratory of the University of Washington (UW) and affiliate faculty with the UW School of Oceanography and the School of Marine Affairs, both in the new UW College of the Environment. A biological oceanographer (Ph.D. 1989), her research has focused on a systems view of marine ecosystems, spanning estuaries, such as Puget Sound, the outer Pacific–Northwest (PNW) coast, and the open Pacific Ocean, assessing factors such as climate forcing and human effects on the characteristics and productivity of these systems. She is the Principal Investigator of the Hood Canal Low Dissolved Oxygen Program Integrated Assessment and Modeling Study and the Executive Director of the Northwest Association of Networked Ocean Observing Systems (NANOOS). She is currently working with colleagues at UW and the National Oceanic and Atmospheric Administration (NOAA) to assess the status of ocean acidification in Puget Sound and coastal Washington. Dr. Newton is the Chair of the Puget Sound Partnership Science Panel.

Plenary Speakers

Wednesday, 8:15 – 12:00, Regency

8:30 Responding to Environmental Disasters



Dr. Stan Meiburg
US Environmental Protection Agency, Region 4

Dr. Meiburg is the Deputy Regional Administrator for the US Environmental Protection Agency (EPA), Region 4 in Atlanta, Georgia. Stan came to Region 4 in April 1996, following service as Deputy Regional Administrator in EPA's Region 6 office in Dallas, Texas. He has served as Acting Regional Administrator during transitions in both Region 4 and Region 6, and has been involved all across EPA. From 1990 to 1995, Stan was Director of Region 6's Air, Pesticides, and Toxics Division.

From 1985 to 1990, he was Director of the Planning and Management Staff of EPA's Office of Air Quality Planning and Standards in Durham, North Carolina working on the 1990 Clean Air Act Amendments as well as planning and budgeting for the air program.

From 1977 to 1984, he worked in EPA headquarters in Washington, DC, including service as Executive Assistant to Deputy Administrator Alvin L. Alm. He was also a Special Assistant for Air and Radiation, and began his career with EPA as an analyst in the Program Evaluation Division specializing in delegation to States and clean air issues.

In 2003, Stan led a management review of EPA's Office of Criminal Enforcement, Forensics, and Training, which significantly reframed the mission and operation of that office. He served from 2001 to 2010 as Executive Director of EPA's Environmental Financial Advisory Board, and in 2004, led EPA to establish the Integrated Consortium of Laboratory Networks with 10 other Cabinet Departments and agencies. In 2008, Stan completed a 2-year detail as National EPA Liaison to the Centers for Disease Control (CDC) and Prevention in Atlanta, Georgia building relationships and strengthening collaborative activities between EPA and CDC. He has been very active on EPA task forces and in promoting innovation within the Agency. Stan has a B.A. degree from Wake Forest University, and M.A. and Ph.D. degrees in Political Science from The Johns Hopkins University. He has been recognized as a Meritorious Senior Executive Service (SES) Executive, and received EPA's Gold Medal for his work on the Clean Air Act Amendments and Silver Medal for work on State-Federal relations.

9:15 Stages of Incident Response From a Laboratory Perspective



David Friedman
Friedman Consulting, LLC

David Friedman retired from federal service in 2005 after 32 years in environmental protection and environmental analytical science. His US Environmental Protection Agency (EPA) career included 14 years with the Office of Solid Waste (OSW) and 15 with the Office of Research and Development (ORD). Some of his accomplishments, while in the OSW's hazardous waste program, included: developing the infamous Toxicity Characteristic Leaching Procedure (TCLP); codifying into official methods many of the then new measurement technologies that we now commonly employ in environmental monitoring; and fathering "*Test Methods for the Identification of Hazardous Waste*", also known as SW-846.

In 1985, as part of his efforts to foster a partnership between scientists in government and the private sector, David created the annual National Environmental Monitoring Conference (NEMC) and served as its chair for over 20 years.

As ORD Senior Advisor on Monitoring, his primary responsibilities revolved around improving Agency monitoring policies. David helped establish the Agency's Forum on Environmental Measurements (FEM) and Environmental Laboratory Advisory Board (ELAB) with major roles in efforts to foster Performance Based Measurement Systems (PBMS); establish a national environmental laboratory accreditation program (NELAC); and efforts resulting in the manual "*Standardized Analytical Methods for Environmental Restoration Following Homeland Security Events*" (SAM). In his spare time, he directed the EPA program that successfully converted the Soviet biological weapon research and development laboratory in Kazakhstan into an environmental analytical laboratory to serve that now free nation.

Since retiring, David is serving as Technical Advisor to the American Council for Independent Laboratories (ACIL) Environmental Sciences Section; presenting seminars on environmental technology validation and on EPA analytical methodology; advising commercial laboratories in business development; and assisting analytical instrument manufacturers in designing and conducting validations of new instruments in order that they might obtain approval by EPA for their new technologies.

Plenary Speakers

10:30 Research Needs from the Gulf Oil Spill



Dr. Danny Reible
University of Texas

Dr. Reible is the Bettie Margaret Smith Chair of Environmental Health Engineering at the University of Texas, and Coordinator of Environmental and Water Resources in the Department of Civil, Architectural, and Environmental Engineering. In 2004, he joined the University of Texas after 23 years in the Department of Chemical Engineering at Louisiana State University (LSU) where he also served as Director of the Hazardous Substance Research Center / South and Southwest. He holds a B.S. in Chemical Engineering from Lamar University, and an M.S. and Ph.D. in Chemical Engineering from the California Institute of Technology. Dr. Reible's research career has been focused on understanding the fate and transport of contaminants in the environment, evaluating the risks posed by these contaminants, and devising effective measures for risk mitigation. He has been active in technical and policy issues associated with the assessment and in-situ remediation of contaminated sites, particularly sediment sites, and the management of water resources in the face of energy and environmental challenges. Dr. Reible has co-authored five National Research Council committee reports on risk assessment and remediation of contaminated sites; the author of the textbooks "Fundamentals of Environmental Engineering" and "Diffusion Models of Environmental Transport"; and edited three other books. He has authored more than 100 refereed technical papers. Dr. Reible currently serves on the National Research Council Board of Environmental Studies and Toxicology and the Environmental Engineering Committee of the US Environmental Protection Agency (EPA) Science Advisory Board. He is an Associate Editor of the Journal of the Air and Waste Management Association, the Journal of Environmental Forensics, the Journal of Environmental Engineering, and the Journal Environments and Fluids. Dr. Reible is a Fellow of the American Institute of Chemical Engineers and the American Association for the Advancement of Science. He is a Board Certified Environmental Engineer, and a Professional Engineer, and in 2005, was elected to the National Academy of Engineering for the "development of widely used approaches for the management of contaminated sediments".

11:15 BP Deepwater Horizon Oil Spill: An Industry Perspective



Dr. Al Verstuyft
Al Verstuyft Consulting, LLC

Dr. Verstuyft formed Al Verstuyft Consulting, LLC in 2011 after a 32 year career with Chevron. He was Global Laboratory Coordinator / Senior Consulting Scientist for Chevron's Energy Technology Company. He provided petroleum and environmental analysis, and was a chemistry consultant to Chevron and its licensee laboratories worldwide. As Global Lab Coordinator, he provided Chevron operating companies and licensees access to Chevron's Technology Company Laboratories experienced in solving complex sampling, analysis, and quality problems for petroleum and environmental laboratories and operations. He started his professional career at the National Institute for Occupational Safety and Health (NIOSH) as a Research Analytical Chemist. Al is a member of the American Petroleum Industry's Test Methods Task Force and Environmental Monitoring Task Force; the Western State Petroleum Association Test Methods Task Force for Petroleum Fuels; and the American Society for Testing and Materials committees on Petroleum D-2, Water D-19, and Waste D-34. He was appointed to boards and committees including the US Environmental Protection Agency (EPA) Environmental Laboratory Advisory Board; the National Environmental Laboratory Accreditation Conference (NELAC) On-Site Assessment Committee; California - Department of Health and Safety (CAL-DOHS) Environmental Laboratory Technical Advisory Board; CAL-EPA Laboratory Waste Regulatory Taskforce; California Water Resources Board; and CAL-EPA Laboratory Accreditation Panel. Al was a US Department of Energy Visiting Scientist at Sandia National Laboratories, Burner Engineering Research Lab. Dr. Verstuyft received a B.S. in Chemistry from Santa Clara University, a Ph.D. in Inorganic / Organometallic Chemistry from the University of Nevada at Reno, and was a Postdoctoral Associate in Physical Organic Chemistry at the University of Utah. He is the author of 17 peer reviewed papers and 24 presentations.

Technical Sessions

Monday Morning, August 15

Keynote Address
Sponsored by Promium
Grand ABC

PROMIUM

- 8:00 Welcome
Lara Autry, USEPA Office of Science Advisor
- 8:10 Introduction
Scot Cocanour, Promium
- 8:15 Coffee from Seed to Cup: The Biomedical Story from a Heart Surgeon's Perspective
James Ameika, Kona Cloud Coffee Estates

ELAB **ENVIRONMENTAL LABORATORY ADVISORY BOARD**

9:00 – 12:00
Grand ABC

**Session Chairs: Lara Autry, USEPA, Office of the Science Advisor
Designated Federal Official (DFO), and
Judy Morgan, Environmental Science Corporation,
Representing Commercial Environmental Laboratories**

The Environmental Laboratory Advisory Board (ELAB) is managed in compliance with the Federal Advisory Committee Act (FACA) to solicit consensus advice on 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, Mission Statement, and Overview of Board Goals
Approval of July Minutes
News / Updates from DFO
Presentations on Recent Recommendations
- Sufficiently Sensitive Methods
 - Improving EPA Regulations
 - Methods Update Rule (MUR)
- 10:00 BREAK
- 10:30 Workgroup Activities
- Monitoring Workgroup
 - Measurement / Technology Workgroup
 - Laboratory Management Workgroup
- Open Discussion / New Items
Review Action Items / Closing Remarks / Adjourn

Technical Sessions

TNI Mentor Session: Best Practices for Internal Audits

9:00 – 12:00

Regency

Session Chair: Betsy Kent, Reedy Creek Improvement District

TNI's Technical Assistance Committee (TAC) hosts a Mentor Session at each of TNI's semi-annual meetings to share information on topics of interest to laboratories and Accreditation Bodies. This Mentor Session will be an interactive discussion of internal auditing of your management system.

AGENDA

9:00 Scheduling

9:30 Checklists

10:00 BREAK

10:30 Root Cause Analysis

11:00 Corrective Actions

11:30 Verification of Corrective Action

TNI Policy Committee

9:00 – 12:00

Grand I

Committee Chair: Alfredo Sotomayor, Wisconsin Department of Natural Resources

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

AGENDA

9:00 Program Updates
Complaint Resolution SOP

10:00 BREAK

10:30 SOP on Review and Approval of Materials
Other Policies and SOPs in Development

12:00 – 1:30 **LUNCH ON YOUR OWN**

Technical Sessions

Monday Afternoon, August 15

NEMC Advanced Clean-Up and Sample Preparation Techniques

1:30 – 5:00

Regency ABC

Session Chair: Michael Young, Waters Corporation

- 1:30 Better Site Characterization through Incremental Sampling Methodology – Status Report on ITRC Guidance
Mark Bruce, TestAmerica, Inc.
- 2:00 In A Green World, Shouldn't All Analyses Be Micro?
David Mauro, META Environmental
- 2:30 Soil Extraction Cell: An Alternate Method of Soil Extraction for Organics
Joseph Boyd, Environmental Express
- 3:00 BREAK
- 3:30 Automation of Extractable Petroleum Hydrocarbons (EPH) Method from Soils and Water
Chris Wakefield, Alpha Analytical
- 4:00 Automated GPC with In-line SPE to Improve Sample Clean-up for PAH Analysis
Jessica Netzer, J2 Scientific
- 4:30 Determination of PAH in Seafood: An Optimized Procedure for LC-Fluorescence Screening and GC-MS-MS Confirmation
Michael Young, Waters Corporation

NEMC Air Methods and Monitoring

Sponsored by Restek

1:30 – 5:00

Grand I



Session Chairs: Deb Gaynor, Phoenix Chemistry Services and Joe Konschnik, Restek Corporation

- 1:30 Green House Gas Rule and Its Implications
Kesavalu Bagawandoss, Accutest Laboratories
- 2:00 Evaluation of Petroleum Hydrocarbon Methodologies Utilized by the Massachusetts DEP to Assess Potential Exposure in Vapor Intrusion Investigations
Andy Rezendes, Alpha Analytical, Inc.
- 2:30 Stationary Source Audit Sample Program Update
Maria Friedman, TestAmerica, Inc.
- 3:00 BREAK
- 3:30 Vapor Intrusion Investigations: Air Sampling Tips for Meeting Data Quality Objectives
Nella Dagnillo, Trihydro Corporation
- 4:00 A New State of the Art in Thermal Desorption
Stephen Wesson, CDS Analytical
- 4:30 The Future of Vapor Intrusion (VI) Monitoring and Analysis
Henry Schuver, USEPA OSWER

Technical Sessions

NEMC Chromate: Prevalence and Analysis in Soil and Water

1:30 – 5:00

Grand K

Session Chairs: Andy Eaton, MWH Laboratories and Richard Jack, Dionex

- 1:30 Hexavalent Chromium – Déjà vu All Over Again
Andrew Eaton, MWH Labs
- 2:00 Sensitive Determination of Hexavalent Chromium in Drinking Water
Brian De Borba, Thermo Fisher Scientific
- 2:30 Determination of Hexavalent Chromium in Drinking Water by SPE-ICP-MS and IC-ICP-MS
Yap Wei Ning, Public Utilities Board of Singapore

- 3:00 BREAK

- 3:30 Ultra Trace Hexavalent Chromium Analysis Using IC-ICP-DRC-MS
Hakan Gurleyuk, Applied Speciation
- 4:00 Optimizing Sample Preservation for Hexavalent Chromium Analyses in Waters
Yongtao Li, Underwriters Laboratories, Inc.

NEMC USEPA Office of Water Method Activities

1:30 –5:00

Regency EFG

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

- 1:30 Review of ASTM D7365-09a; Practice for Sampling and Mitigating Interferences for the Analysis of Cyanide in the 2010 MUR
John Sebroski, Bayer Material Science
- 2:00 Cyanide Methods and the 2010 Method Update Rule
William Lipps, ITT / OI Analytical
- 2:30 Overview of EPA Office of Water's Test Procedure Program for Nationwide Approval of Compliance Monitoring Methods
J. Kevin Roberts, Computer Sciences Corporation, Inc.

- 3:00 BREAK

- 3:30 Development of a New EPA SOP for Analysis of Flue Gas Desulfurization Wastewaters by ICP-MS
Richard Burrows, TestAmerica, Inc.
- 4:00 Welcome to EPA Method 1664B for Oil and Grease
Joe Stefkovitch, Xenosep Technologies, Inc.
- 4:30 Support of the Use of the Most Recent Published Approved Standard Method Proposed in the 2010 MUR
Andrew Eaton, MWH Laboratories

Technical Sessions

Monday Afternoon, August 15

TNI Laboratory Proficiency Testing Committee

1:30 – 5:00

Grand ABC

Committee Chair: Kirstin McCracken, TestAmerica, Inc.

The mission of the Laboratory Proficiency Testing Committee is to develop standards for:

- the development and testing of PT samples,
- the evaluation of PT Providers,
- the evaluation of PT Provider Oversight Organizations, and
- the use of PT samples by laboratories and laboratory accrediting bodies.

AGENDA

- Comments on Working Draft Standard
- Review Working Draft Standard for Chemistry

TNI Consistency Improvement Task Force

1:30 – 5:00

Grand J

Committee Chair: Alfredo Sotomayor, Wisconsin DNR

The Consistency Improvement Task Force (CITF) was chartered to promote systems and develop recommendations aimed at increasing the consistency of TNI laboratory assessments and evaluations of accreditation bodies.

AGENDA

- Overview of CITF
- Realistic Expectations About Consistency: The Beat Goes On
- Review of Preliminary CITF Recommendations:
 - Laboratory Assessments
 - Accreditation Body Evaluations
 - Laboratory Performance and Operations
- Conclusions and Next Steps

**Reception and Exhibition
Grand Ballroom
Monday
5:30 to 7:00**

**Join Us to See the Latest Innovations for Environmental Laboratories
and
Learn Some Interesting Facts About the Seattle Area**

Technical Sessions

Tuesday Morning, August 16

Keynote Address

Sponsored by Waters Corporation

Grand ABC

Waters
THE SCIENCE OF WHAT'S POSSIBLE™

- 8:00 Welcome
Earl Hansen, The NELAC Institute
- 8:10 Introduction
Joe Romano, Waters Corporation
- 8:15 Collaborative Opportunities for Meeting the US Environmental Protection Agency's
Measurement and Monitoring Needs
Lara Autry, USEPA Office of Science Advisor

NEMC Analysis of Metallic Species and Organometallics

9:00 – 12:00

Regency ABC

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

- 9:00 A Brief History of Metals Speciation Method Development and Analysis in the Pacific Northwest
Michelle Briscoe, Brooks Rand Labs
- 9:30 Critical Considerations for Data Quality in Elemental Speciation Analysis
Hakan Gürleyük, Applied Speciation
- 10:00 BREAK
- 10:30 A Comparison of Three Methods for Arsenic Speciation in Biological Tissues
May Nguyen, Brooks Rand Labs
- 11:00 Metal Speciation by ICP–MS: Arsenic and Chromium Case Studies
Tatyana Pinyayev, USEPA ORD
- 11:30 Cr(VI) Measurements: Feasibility, Fate, and Stability
Ruth Wolf, USGS

NEMC Challenges of Low Concentration Nutrient Analyses

9:00 – 12:00

Regency EFG

Session Chairs: Charles Patton, USGS and William Lipps, ITT / OI Analytical

- 9:00 Low–Concentration Nutrient Determination Needs and Challenges – Which Ones? How Low? What Applications?
Charles Patton, USGS
- 9:30 Variability in Wastewater Effluent Phosphorus Measurements
JB Neethling, HDR, Inc.
- 10:00 BREAK
- 10:30 Importance of Low–Level Analysis in Comparison to Sample Timing, Handling, and Other Methods to Obtain
Representative Phosphorus Measurements in Lake Water
Gertrud Nurnberg, Freshwater Research
- 11:00 Accurate Measurement of Particulate Nitrogen and Phosphorus in Environmental Water Samples
Carl Zimmermann, University of Maryland – Nutrient Analytical Services Laboratory
- 11:30 Monitoring and Fractionation of Low–Level Phosphorus in Water and Environment
Yap Wei Ning, Public Utilities Board of Singapore

Technical Sessions

Tuesday Morning, August 16

NEMC Analytical Electronic Data Integrity

9:00 – 12:00

Cedar

Session Chair: Robert Benz, Promium and Scot Cocanour, Promium

- 9:00 Electronic Management of Environmental Analytical Data
Anand Mudambi, USEPA OSA
- 9:30 Selecting the Proper LIMS – A Systematic Approach to Guarantee a Successful Implementation
Robert Walla, Astrix Technology Group
- 10:00 BREAK
- 10:30 The Future of Cloud Computing
Steve Yi, Microsoft
- 11:00 The Pros and Cons for LIMS in a “Software as a Service” (SaaS) Environment
William Pingank, Ethosoft, Inc.
- 11:30 Automated Tool for Data Review
Catherine Katsikis, LDCFL, Inc.

TNI Assessment Forum

9:00 – 12:00

Grand J

Session Chair: Jack Farrell, Analytical Excellence

The Technical Assistance Committee hosts an Assessment Forum at each of TNI’s semi-annual meeting to share information on topics of interest related to laboratory assessments.

AGENDA

- 9:00 Introductions, Objectives, Agenda, Ground Rules
- 9:15 Should Demonstration of Capability (DOC) Requirements be Removed from the TNI Standard?
- 10:00 BREAK
- 10:30 Recommendations from the Accreditation Body Task Force

TNI Environmental Measurement Methods Expert Committee

9:00 – 12:00

Grand I

Committee Chair: Richard Burrows, TestAmerica, Inc.

The mission of this committee is to improve the technical quality of environmental testing methodologies by providing tools (e.g., detection, quantitation, calibration) that assure the quality of data, which may be adopted by federal and state regulatory agencies.

AGENDA

- 9:00 Introductions, Ground Rules, Objectives, and Agenda
- 9:30 Presentation – Why We Need a TNI Standard on Calibration
- 10:00 BREAK
- 10:30 Working Session – Standard Development – Calibration

Technical Sessions

TNI Information Technology Committee

9:00 – 12:00

Grand K

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

9:00 LAMS
Improvements to the Standard Interpretation Request Process

10:00 BREAK

10:30 Analyte and Method Codes
Website Review

12:00 – 1:30 **LUNCH PROVIDED**
Grand ABC

Keynote Address: Update on Activities of TNI
Steve Arms, Florida DOH



Mt. Ranier

Technical Sessions

Tuesday Afternoon, August 16

NEMC Analysis of Metallic Species and Organometallics (Continued)

1:30 – 5:00

Regency ABC

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

- 1:30 Measurement of Background Levels of Cr(VI) in New Jersey Soils
Stuart Nagourney, New Jersey DEP
- 2:00 Update on New and Modified Extraction Methods for Cr(VI) Determination in Dusts, Ashes, and Soils
Ruth Wolf, USGS
- 2:30 Alkylated Lead Speciation Analysis in Soil, Sediment, and Aqueous Samples Using Selective Extraction
Followed by IC / RP-ICP-MS
Russell Gerads, Applied Speciation and Consulting, LLC
- 3:00 BREAK
- 3:30 Trace-Level Automated Mercury Speciation Analysis
Vivien Taylor, Dartmouth University
- 4:00 Expanding Selenium Speciation in Environmental Waters
Zoe Grosser, PerkinElmer
- 4:30 Selenium Speciation in Aqueous Matrices and Its Impacts on the Accuracy of Compliance Monitoring Measurements
Ben Wozniak, Applied Speciation and Consulting

NEMC Oil Spill Damage Assessment and Restoration

1:30 – 5:00

Cedar

Session Chairs: Richard Burrows, TestAmerica, Inc. and Reza Karimi, Battelle Memorial Institute

- 1:30 Ensuring Seafood Safety with Rapid Screening for Polyaromatic Hydrocarbons Using LC-Fluorescence
Joe Romano, Waters Corporation
- 2:00 LC / MS / MS Analysis of PAH's, Their Derivatives, and 3 Oil Dispersants in Sea Water
Rolf Kern, AB SCIEX
- 2:30 BP Gulf Oil Spill: Modified EPA Method 8260 for the Analysis of Crude Oils by Purge-and-Trap GC-MS
Joe Konschnik, Restek Corporation
- 3:00 BREAK
- 3:30 Dynamic Headspace Determination of Volatile Organic Compounds in a Tar Ball from the Gulf of Mexico
William Lipps, ITT / OI Analytical
- 4:00 Integrated Engineering and Laboratory Services for NAPL Site Management
Mark Bos, CH2M HILL Applied Sciences Laboratory

Technical Sessions

NEMC Challenges of Low Concentration Nutrient Analyses (Continued)

1:30 – 5:00

Regency EFG

Session Chairs: Charles Patton, USGS and William Lipps, ITT / OI Analytical

- 1:30 The Importance of Analytical Methods in the Interpretation of Data from Natural Systems – Accounting for All Forms of Phosphorous in the Water and Sediment of Upper Klamath Lake, OR
Nancy Simon, USGS
- 2:00 Evaluation of Colorimetric Phosphate Speciation Analysis Using Long Path Lengths and Model Compounds
Scott Smith, Wilfrid Laurier University
- 2:30 Low Level Determination of Ammonia by Membrane Extraction–Conductivity
Edward Askew, Askew Scientific Consulting
- 3:00 BREAK
- 3:30 Low–Concentration Nutrient Determinations in Water – An Overview of Approved and Candidate Method Capabilities
William Lipps, ITT / OI Analytical
- 4:00 Round Table Discussion

TNI Environmental Measurement Methods Expert Committee (Continued)

1:30 – 5:00

Grand I

AGENDA

- Working Session – Standard Development – Calibration (Continued)

TNI Laboratory Accreditation Body Committee

1:30 – 5:00

Grand J

Committee Chair: Lynn Bradley, The NELAC Institute

The Laboratory Accreditation Body (AB) Committee develops the standard for operation of laboratory accreditation bodies.

AGENDA

- Potential Merger of On–Site and AB Expert Committee
- AB Task Force Recommendation 2: AB Administrative Support Services
- AB Task Force Recommendation 4: Use of Third Party Assessors
- AB Task Force Recommendation 7: Surveillance Assessments

TNI Proficiency Test Executive Committee

1:30 – 5:00

Grand K

Committee Chair: Eric Smith, TestAmerica, Inc.

The purpose of the Proficiency Testing (PT) Executive Committee is to establish and maintain a national PT program to support a national environmental accreditation program.

AGENDA

- Fields of Proficiency Testing (FoPTs) for Non–Potable Water
- FoPTs for Field Sampling and Measurement
- FoPT Table Management Standard Operating Procedure (SOP)

Technical Sessions

Wednesday Morning, August 17

PLENARY SESSION: “Monitoring Response to Environmental Disasters”

Regency

- 8:15 Welcome
Jerry Parr, The NELAC Institute
- 8:25 Introductions
Lara Autry, USEPA OSA
- 8:30 Responding to Environmental Disasters
Stan Meiburg, USEPA Region 4
- 9:15 Stages of Incident Response from a Laboratory Perspective
David Friedman, Friedman Consulting, LLC
- 10:00 BREAK
- 10:30 Research Needs from the Gulf Oil Spill
Danny Reible, University of Texas
- 11:15 BP Deepwater Horizon Oil Spill: An Industry Perspective
Al Verstuyft, Al Verstuyft, LLC

12:00 – 1:30 **LUNCH PROVIDED**
Grand ABC

TNI Technical Assistance Committee

12:00 – 1:30 (WORKING LUNCH)
Birch

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 training programs relevant to the needs of the stakeholder community are provided.

AGENDA

- Small Laboratory Handbook
- AB Task Force Recommendation 1: Assessor Training
- TNI Training Program

Reception and Exhibition
Grand Ballroom
Wednesday
5:30 to 7:00

Join Us to See the Latest Innovations for
Environmental Laboratories
and
Continue Your Search for Seattle–Area Trivia

Technical Sessions

Wednesday Afternoon, August 17

NEMC Environmental Monitoring Needs Following Environmental Disasters

1:30 – 5:00

Cedar

Session Chair: Ruth Forman, Environmental Standards, Inc.

- 1:30 Generating Meaningful Environmental Information During the Chaos of an Emergency Response
Ruth Forman, Environmental Standards, Inc.
- 2:00 Radioanalytical Emergency Response – A State Perspective
Jack Bennett, Connecticut Department of Public Health
- 2:30 Standardizing Electronic Data Deliverables: Public Health Laboratory Emergency Response
John (Jack) Krueger, Association of Public Health Laboratories
- 3:00 BREAK
- 3:30 Emergency Response – Field Support for Sample Integrity
Charles Newton, TestAmerica, Inc.
- 4:00 Application of NADP Monitoring Network for Examining Potential Impacts of BP Oil Spill Fires and Recent Nuclear Accident
Robert Brunette, Frontier Geosciences / Frontier Global Sciences
- 4:30 Laboratory Selection During Emergency Response Actions – Balancing the Need for Quality Data with the Need for Quick Data
Jennifer Gable, Environmental Standards, Inc.

NEMC Drinking Water Methods

1:30 – 5:00

Regency ABC

Session Chair: Andy Eaton, MWH Laboratories

- 1:30 On-Line SPE–LC–APCI–MS / MS for the Determination of Steroidal Hormones in Drinking Water
Paul Fayad, Université de Montréal
- 2:00 Direct Aqueous Determination of Glyphosate and Related Compounds by Liquid Chromatography–Tandem Mass Spectrometry Using Reversed–Phase and Weak Anion–Exchange Mixed–Mode Column
Chunyan Hao, Ontario Ministry of the Environment
- 2:30 Analysis of Organophosphorus Pesticides in Drinking Water Using Solid Phase Extraction
Thomas Dobbs, J2 Scientific
- 3:00 BREAK
- 3:30 Evaluation of a New Technique in Semi–Automated, Miniaturized Solid Phase Extraction
Rob Freeman, SGE
- 4:00 Determination of Dissolved Gases in Ground Waters
Ray Matrano, Seewald Laboratories, Inc.

Technical Sessions

Wednesday Afternoon, August 17

NEMC Operational and Advocacy Issues Impacting the Environmental Laboratory Industry

1:30 – 5:00

Regency EFG

Session Chairs: David Speis, Accutest Laboratories

- 1:30 Improving Laboratory Accreditation Efficiency Using Third Party Processes
Cabot Earle, Microbac Laboratories, Representing ACIL
- 2:00 Emergency Response: On-Site Laboratories
Bosco Ramirez, TestAmerica, Inc.
- 2:30 Deployment of Field Laboratories for Rapid Remediation of Environmental Contamination
Ben Thompson, CH2M HILL Applied Sciences Laboratory
- 3:00 BREAK
- 3:30 Energy Opportunities, Environmental Issues and Monitoring
Al Verstuyft, Al Verstuyft, LLC
- 4:00 Making Progress on Detection, Quantitation, and Calibration Activities of the EMMEC
Richard Burrows, TestAmerica, Inc.
- 4:30 Development and Use of Customized Quality Control Materials for Large-Scale Monitoring Projects
Ruth Wolf, USGS

TNI National Environmental Field Activities Program Executive Committee

1:30 – 5:00

Grand K

Committee Chair: Marlene Moore, Advanced Systems

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

AGENDA

- 1:30 Approve Meeting Minutes
Status of the Accreditation Body (AB) Recognition
Vote on AB Recognition
Next Steps in Process
Review or Vote on Standard Interpretation Request (SIR) #4
Nomination Committee
Action Items
Comments from Attendees
- 3:00 BREAK
- 3:30 Presentation – Training Session – Practice for Webinar
FSMO Accreditation for Small Businesses

Technical Sessions

TNI Laboratory Quality Systems Committee

1:30 – 5:30

Grand I

Committee Chair: Silky Labie, ELCAT, LLC

The Laboratory Quality Systems 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.

This session will be focused on receiving comments on their Working Draft Standard.

AGENDA

- 1:30 Introduction, Summary of Changes, and Comments on Global Changes
- 2:00 Comments on VIM2, Sections 1.0 – 5.4
- 2:30 Comments on VIM2 Sections 5.4 – 5.10

- 3:00 BREAK

- 3:30 Comments on VIM3 Asbestos
- 3:40 Comments on VIM4 Chemistry
- 4:00 Comments on VIM5 Microbiology
- 4:20 Comments on VIM6 Radiochemistry
- 4:30 Comments on VIM7 Toxicity
- 4:40 Parking Lot Items and Next Steps

TNI Outreach Efforts

1:30 – 5:00

Grand J

Session Chair: Judy Duncan, Oklahoma DEQ

This is a special session being sponsored by TNI's Advocacy Committee to continue advancing partnerships with communities affected by accreditation requirements.

AGENDA

- 1:30 Small Laboratory Advocacy Group (SLAG)
 - SLAG Activities
 - Top Challenges for Small Labs
 - A new TNI Resource: Handbook for Small Laboratories

- 3:00 BREAK

- 3:30 Outreach to Public Health Laboratories
 - State Primacy Laboratory Accreditation Task Force
 - State Environmental Laboratory Accreditation

Technical Sessions

Thursday Morning, August 18

KEYNOTE ADDRESS

Grand ABC

- 8:00 Welcome
Ilona Taunton, The NELAC Institute
- 8:15 Observing Puget Sound
Jan Newton, University of Washington

NEMC Environmental Monitoring Needs Following Environmental Disasters (Continued)

9:00 – 12:00

Regency ABC

Session Chair: Ruth Forman, Environmental Standards, Inc.

- 9:00 Laboratory Readiness for Large-Scale Environmental Incidents – Practice Makes Perfect
Barry Pepich, USEPA Region 10
- 9:30 Laboratory Rapid Response on a PCB Fire at an Electric Plant
Amy Jacobson, Pace Analytical Services, Inc.
- 10:00 BREAK
- 10:30 EPA Region 9 & 10 Exercise – A Participating Laboratory Perspective
Blaine Rhodes, Washington State Public Health Laboratories
- 11:00 Use of a Work Cell Model to Successfully Manage Large Projects
Charles Neslund, Lancaster Laboratories, Inc.

NEMC Creative Solutions in Academic Research

9:00 – 12:00

Grand K

Session Chairs: Zoe Grosser, PerkinElmer, and David Friedman, Friedman Consulting, LLC

- 9:00 Detecting Changes in Water Quality in Long Island Sound
James O'Donnell, University of Connecticut
- 9:20 Student Internship Program as Benchmarking System for Sustainable Practice
Chayanika Mitra, Virginia Tech
- 9:40 Climate Change, All-Hazard Preparedness and Determination of Fungicides by LC / MS / MS
Michael Wichman, State Hygienic Laboratory
- 10:00 BREAK
- 10:30 Scientific Support for Environmental Emergency Response (SSEER) in Rhode Island
Richard Horwitz, Coastal Institute, URI
- 11:00 Academic Roundtable
Dane Richards, University of Georgia

Technical Sessions

NEMC Contaminated Sediments and Pharmaceutical and Personal Products in the Environments

9:00 – 12:00

Cedar

Session Chair: Joe Romano, Waters Corporation

- 9:00 Analysis of High Molecular Weight Phthalates in Sediments Using Atmospheric Pressure GC Coupled to a Time-of-Flight Mass Spectrometer
Kenneth Rosnack, Waters Corporation
- 9:30 Method Validation for the Analysis of Pharmaceuticals and Personal Care Products in Biological Tissues
Coreen Hamilton, AXYS Analytical Services, Ltd.

NEMC Innovative and Emerging Technologies for Analysis of Environmental Contaminants

9:00 – 12:00

Regency EFG

Session Chair: Mark Bruce, TestAmerica, Inc.

- 9:00 VAMWA / VMA Study on Method Reliability and Data Variability Associated with Ambient Monitoring Using EPA Method 1668 – Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC / HRMS
Jessie DeLuna, Hampton Roads Sanitation District
- 9:30 Emerging Interest in GC–Triple Quadrupole Mass Spectrometry for Environmental Analysis
Jason Cole, Thermo Fisher Scientific
- 10:00 BREAK
- 10:30 High Throughput Analysis of Hormones and Antibiotics in Solids
Paul Fayad, Université de Montréal
- 11:00 New Capabilities for Analysis of Biogenic Amines Using Ion Chromatography
Rosanne Slingsby, Thermo Fisher Scientific
- 11:30 The Detection and Identification of Unknown Contaminants During ToF Screening and Structural Elucidation for Pesticides in River Water Using an Integrated Software Approach
Kenneth Rosnack, Waters Corporation

TNI National Environmental Laboratory Accreditation Program (NELAP) Accreditation Council

9:00 – 12:00

Grand I

Session Chair: Steve Stubbs, Texas Commission on Environmental Quality

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
Accreditation Body (AB) Task Force Recommendation 5: Use of Assessments by Other Organizations
- 10:00 BREAK
- 10:30 Accreditation Body Renewals
PT Issues

Technical Sessions

Thursday Morning August 18

TNI Stationary Source Audit Sample (SSAS) Program

9:00 – 12:00

Grand J

Session Chair: Maria Friedman, TestAmerica, Inc.

This program is focused on the externalization of the US Environmental Protection Agency's (EPA's) Stationary Source Audit Program, 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

- SSAS Program Update
- SSAS Table Update

TNI Conference Planning Committee

10:30 – 12:00

Spruce

Committee Chair: Jerry Parr, The NELAC Institute

The Conference Planning Committee plans the semi-annual meetings of TNI.

AGENDA

- 2012 Sarasota Meeting
- Future Winter Meetings
- 2012 Environmental Measurement Symposium

12:00 – 1:15 **LUNCH PROVIDED**

Grand ABC

TNI Consensus Standards Development Program

12:00 – 1:15 (WORKING LUNCH)

Birch

Session Chair: Ken Jackson, The NELAC Institute

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

AGENDA

- Expert Committee Reports
 - Field Activities
 - Proficiency Testing
 - Laboratory Quality Systems
 - Laboratory Accreditation Body
 - Stationary Source Audit Sample
 - Environmental Measurement Methods
- Guidance Document for Maintenance and Development of Standards
 - Brainstorm as to Items / Materials for Inclusion and Consideration of Working Group

Technical Sessions

Thursday Afternoon, August 18

NEMC Establishing a Geochemical Baseline for North American Soil

1:15 – 5:00

Regency ABC

Session Chairs: David B. Smith, USGS and Ruth Wolf, USGS

- 1:15 Introduction to Session
- 1:30 The North American Soil Geochemical Landscapes Project: History, Objectives, Accomplishments
David Smith, USGS
- 2:00 Preliminary Continental–Scale Soil Geochemistry from the North American Soil Geochemical Landscapes Project
Laurel Woodruff, USGS
- 2:30 Progress Towards U.S. National Maps of Soil Mineralogy by X–ray Diffraction Analysis
William Cannon, USGS

- 3:00 BREAK

- 3:30 Geochemical Variability of Soils in the Maritime Provinces of Canada and the New England States of the United States
Laurel Woodruff, USGS
- 4:00 Bioaccessibility Studies Using In–Vitro Extraction Methods on Soils of North America
Suzette Morman, USGS
- 4:30 Oxidation and Mobilization of Naturally Occurring Chromium in Soils of the Sacramento Valley, California
Christopher Mills, USGS
- 5:00 Monitoring Soil Geochemistry in the Urban Environment: A Comparison of Studies in 1972 and 2005 in Denver, Colorado
David Smith, USGS
- 5:30 Session Wrap–Up, Including Questions and Answers

NEMC Innovative and Emerging Technologies for Analysis of Environmental Contaminants

1:15 – 5:30

Regency EFG

Session Chairs: Mark Bruce, TestAmerica, Inc.

- 1:15 The Role of LC and LC / MS in the Environmental Laboratory: An Overview of Recent Technology Trends
Rick Lake, Restek Corporation
- 1:45 Eliminating the Secondary Extraction PH in the Automated Phase Extraction Semi–Volatile Organic Compounds from Water for EPA Method 8270
Dave Gallagher, Horizon Technology, Inc.
- 2:15 Having Your Cake And Eating It Too: Micro–Extraction plus Large Volume Injection GC / MS Saves Time, Lowers Solvent Use, and Maintains Aqueous Detection Limits
Charles Lytle, City of Portland
- 2:45 Reconnaissance Investigation of Emerging Contaminants in Wastewater–Treatment–Plant Effluent and Stormwater Runoff in the Columbia River Basin
Jennifer Morace, USGS

- 3:15 BREAK

- 3:30 Application of an Analytical Technique for Determining Alkyl PAHs, Saturated Hydrocarbons, and Geochemical Biomarkers in Water, Soil, and Tissue
Charles Neslund, Lancaster Laboratories, Inc.
- 4:00 Using Flow Switching Devices to Improve GC–MS Productivity in Environmental Analyses
Andrew Tipler, PerkinElmer
- 4:30 Multi–Residue Analysis for Emerging Contaminants Using On–Line LCMS / MS
Ali Haghani, MWH Laboratories
- 5:00 Medium Resolution PCB Congener Analysis for Tissue, Soil, Sediment, and Water Matrices
Michael Schaadt, CH2M HILL Applied Sciences Laboratory

Technical Sessions

Thursday Afternoon, August 18

NEMC Air Methods and Monitoring (Continued) **Sponsored by Restek**



1:15 – 5:00

Cedar

Session Chairs: Deb Gaynor, Phoenix Chemistry Services and Joe Konschnik, Restek Corporation

- 1:15 Detection of Airborne Asbestos by Fluorescent-Labeled Protein Probe and Its Application to Quick Monitoring
Akio Kuroda, Hiroshima University
- 1:45 Near-Real-Time Air Monitoring for Chemical Warfare Agents in the Destruction of Chemical Munitions
Gary Sides, Battelle Memorial Institute
- 2:15 Historical, Confirmation, and Certification Air Monitoring for Chemical Warfare Agents in the Destruction of Chemical Munitions
George Lucier, Battelle Memorial Institute
- 2:45 Some Challenges of Sampling and Reporting Lower Level Volatile Organic Chemicals in Ambient Air Related to Inhalation Risk Exposure Evaluations
William Elcoate, TestAmerica, Inc.

- 3:15 BREAK

- 3:30 Quantitative Leak Testing Using a Commercially Available Helium Tracer Shroud
Bruce Godfrey, Curtis & Tompkins Labs
- 4:00 Making Tube Sampling Easy: The Development of a New Type of Grab Sampler
Nicola Watson, Markes International
- 4:30 Time Integrated Indoor Air Sampling Using a Membrane Based Passive Sampler
Jim Whetzel, W.L. Gore and Associates

TNI Field Activities Committee

1:15 – 3:15

Grand I

Committee Chair: Marlene Moore, Advanced Systems

The Field Activities Committee develops standards for the accreditation of field sampling and measurement organizations (FSMO).

AGENDA

- Discuss Development of Revisions to the TNI-FSMO Standard
- Comments Received and Process
- Advocacy Update – Brochure
- Presentation: Source Evaluation Society Qualified Source Testing Individual Program
- Training Procedure Review
- Nominations for Committee Seats
- Action Items
- Comments from Attendees

Technical Sessions

TNI Advocacy Committee

1:15 – 3:15

Grand K

Committee Chair: Judith Duncan, Oklahoma Department of Environmental Quality

The Advocacy Committee is charged with promoting the efforts of TNI nationally.

AGENDA

- Highlights from the Bellevue Meeting
- Accreditation Database
- Position Papers
- Brochures
- Newsletter Assignments

TNI Laboratory Accreditation System Executive Committee

1:15 – 3:15

Grand J

Session Chair: Ilona Taunton, The NELAC Institute

The purpose of this Executive Committee is to manage TNI's efforts in supporting a national program for the accreditation of environmental laboratories

AGENDA

- Accreditation Body (AB) Task Force Recommendation 6: Sharing of Information and Resources
- Standard Interpretation Requests
- Implementing the 2009 Standard

3:15 **BREAK**

TNI Board of Directors

4:00 – 6:00

Grand AB

Board Chair: Steve Arms, Florida Department of Health

The NELAC Institute Board of Directors supervises, controls, and directs the affairs of TNI; determines its policies; and actively pursues its mission.

AGENDA

- 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

TNI Board Reception

6:15 – 7:00

Twisted Cork

Poster Presentations

Session Organizer: Patsy Root, IDEXX Laboratories, Inc.

Tuesday Morning

Exhibit Hall

7:30 – 12:00

Storage Stability and Preservation of Low Concentrations of Ammonia and Nitrate–Nitrite in Water Samples

Edward Askew, Askew Scientific Consulting

What's New for SW846?

Amy Dahl, Techlaw, Inc.

Overview of Quality Management System Requirements for Source Testing Firms Performing Part 75 Test Programs

David Elam, Summa Consultants, Inc.

A Fully Integrated Centrifugal Microfluidic Platform for On–Site Simultaneous Determination of Nitrogen Species

Hyundoo Hwang, UNIST

Method for the Analysis of Mercury in Compact Fluorescent Lamps (CDLs)

Clifton Jones, Shaw Environmental, Inc.

Ambient Thermal Desorption Ionization for Rapid Mass Spectrometric Analysis of Contaminants

Joe Romano, Waters Corporation

Optimization and Changes in the New 524.3 Drinking Water Method

Jeff Sheriff, EST Analytical

Determination of Volatile Organic Compounds in Air

Jeff Sheriff, EST Analytical

Tuesday Afternoon

Exhibit Hall

1:00 – 5:00

City of Cincinnati Case Study: An Effective and Reliable BOD Estimate with a New, Rapid Measurement Technology

Ryan Edelen, ManSci

Automated Web–Based Remediation Performance Monitoring and Visualization of Contaminant Mass Flux and Discharge

Brian Kahl, Groundswell Technologies, Inc.

Optimizing Analytical Parameters for Soil Vapor Samples Using Automated Thermal Desorption / Gas Chromatography / Mass Spectrometry (ATD / GC / MS)

Lee Marotta, PerkinElmer

California Oxygenates and 8260

Jeff Sheriff, EST Analytical

Welcome to EPA Method 1664B for Oil and Grease

Joe Stefkovitch, Xenosep Technologies, Inc.

Trace to Elevated Level Analysis, The Future of Ambient Monitoring and Soil Gas Analysis on One System

Nicola Watson, Markes International

Element Distributions in 0 to 5 cm Depth Soils: Preliminary Results from the North American Soil Geochemical Landscapes Project

Laurel Woodruff, USGS

Poster Presentations

Wednesday Morning

Exhibit Hall

7:30 – 12:00

Estimating Dry Deposition of Reactive Gaseous Mercury Using Surrogate Surfaces – Pilot Monitoring Network in Four Corners and Eastern Oklahoma

Robert Brunette, Frontier Geosciences / Frontier Global Sciences

Inlet Liner Geometry and the Impact on GC Sample Analysis

Rob Freeman, SGE

Identifying Pharmaceuticals and Personal Care Products in Water, Biosolids, and Solids

Tom Hall, Fluid Management Systems, Inc.

One Step Automated SPE and Direct to Vial Concentration of the Full EPA Method 8270 Compound List

Tom Hall, Fluid Management Systems, Inc.

PPCP Analysis Using Liquid Chromatography Coupled to High Resolution and Accurate Mass MS / MS

Rolf Kern, AB SCIEX

Large Volume Injection of Semivolatiles by Gas Chromatography Using a Commercially–Available, Unmodified Splitless Injector

Joe Konschnik, Restek Corporation

Creation of New Soil Standard Reference Materials for Metals and Organics

Stuart Nagourney, New Jersey DEP

Vacuum Distillation – GC / MS for the Determination of Volatiles in Non–aqueous Liquids

Steven Reimer, USEPA Region 10

Wednesday Afternoon

Exhibit Hall

1:00 – 5:00

Preliminary Maps of the Mineral Content of US Soils

William Cannon, USGS

Rapid Analysis of Pesticides in Different Matrices Using Direct Sampling Analysis (DSA) Source TOF Mass Spectrometry,

Andrew Tipler, PerkinElmer

Evaluation of an Automated Air Sampling System

Kyle Hunt, Signature Science

Fluorescence Microscopy–Based Method for Selective Detection of Asbestos

Takenori Ishida, Hiroshima University

Cyanide Concentration Changes in Environmental Water Samples as a Function of Sample Preservation and Holding Time

William Lipps, ITT / OI Analytical

Optimized EPA Method 552.1 for the Determination of Haloacetic Acids and Dalapon in Drinking Water by Quaternary Amine Anion Exchange Method

Xiaoyan Wang, UCT, Inc.

Simultaneous Extraction of Pesticides, Semi–Volatiles, and PCB Congeners Using One Universal SPE Cartridge

Xiaoyan Wang, UCT, Inc.

Round the Clock, On–Line and Cryogen–Free Monitoring of Hydrocarbons from Acetylene to Trimethyl Benzene in Ambient Air

Nicola Watson, Markes International

Training

Friday, August 19

Collecting and Handling Water Samples per EPA Method 1669 for Low-Level Mercury and Trace Metals Analyses

The objective of this unique course is to teach the information and skills necessary for the proper collection and handling of water samples per EPA Method 1669. This course will combine classroom instruction with practical experience for collecting ambient water samples for the analysis of low-level total and dissolved mercury, in addition to other trace metals, as well as, various metals species including methylmercury and inorganic arsenic species. The course will include a half-day in the classroom with lectures covering the circumstances under which low-level detection limits would be desired or required; EPA analytical methods that must be used; proper handling and preservation of samples; necessary sampling supplies; considerations that should be made prior to and during sampling activities in order to collect samples correctly and avoid contamination; various sampling and field-filtration techniques; and field quality assurance sample collection requirements. The second half of the day, students will engage in off-site field exercises at Lake Washington, where they will be given the opportunity to practice several surface water sampling protocols. The class fee includes lunch for all students.

8:00 – 5:00

Cedar B

Assessing Data Usability: Maybe You Can Use the Unusable

The objective of this course is to familiarize data users with basic quality control measures that are used in a laboratory and how the results of these control measures may affect the use of the associated data. This course will include group activities that focus on data sets and the assessment of their usability. At the end of the course, the student should understand: the principles behind the most common quality control measures used in laboratories; how to logically evaluate data usability with failed (or acceptable) quality control measures; and when to use / accept / submit data for making decisions.

8:00 – 5:00

Balsam

How to Modify a Method through an Alternate Test Procedure

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 (i.e., 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.

8:00 – 3:00

Cedar A

You must be registered to attend training sessions.

Thank You

**We appreciate
the volunteers who donate their time
to make the Symposium a success!**

NEMC

Conference Chair

Lara Autry, USEPA OSA

Conference Organizer

Jerry Parr, The NELAC Institute

Technical Program Chair

Earl Hansen, The NELAC Institute

Program Director

Ilona Taunton, The NELAC Institute

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Greg Carrol, USEPA OW
Judith Duncan, Oklahoma DEQ
Dane Richards, University of Georgia
David Speis, Accutest Laboratories

Session Chairs

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Michelle Briscoe, Brooks Rand Laboratories
Mark Bruce, TestAmerica, Inc.
Richard Burrows, TestAmerica, Inc.
Scot Cocanour, Promium
Andy Eaton, MWH Laboratories
Michael Flournoy
Ruth Forman, Environmental Standards, Inc.
David Friedman, Friedman Consulting, LLC
Deb Gaynor, Phoenix Chemistry Services
Zoe Grosser, PerkinElmer
Richard Jack, Dionex / Thermo Fisher Scientific
Reza Karimi, Battelle Memorial Institute
Joe Konschnik, Restek Corporation
William Lipps, ITT / OI Analytical
Stuart Nagourney, New Jersey DEP
Charles Patton, USGS
Joe Romano, Waters Corporation
Patsy Root, IDEXX Laboratories, Inc.
David Smith, USGS
Dave Speis, Accutest Laboratories
Lemuel Walker, USEPA OW
Ruth Wolf, USGS
Robert Wyeth, PACE Analytical Services, Inc.
Michael Young, Waters Corporation

The NELAC Institute

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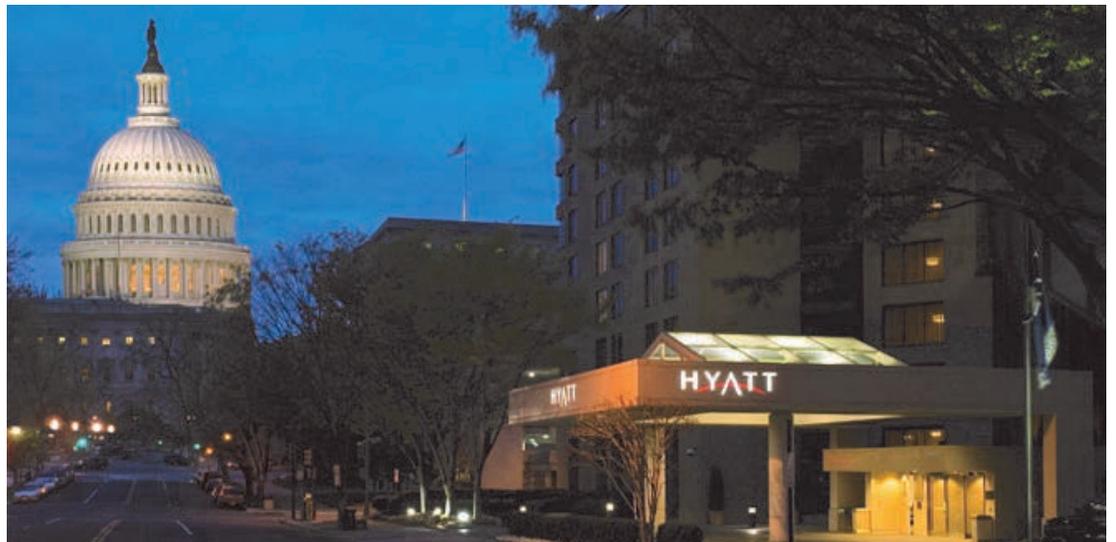
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Future Meetings



Sarasota, Florida
January 30 – February 2, 2012



Washington, DC
August 6 – 10, 2012



ELAB