



EIGHTH INTERNATIONAL CONFERENCE ON REMEDIATION
AND MANAGEMENT OF CONTAMINATED SEDIMENTS

FINAL PROGRAM

JANUARY 12-15, 2015 | NEW ORLEANS, LOUISIANA

www.battelle.org/sedimentscon

Battelle
The Business of Innovation

The Conference is organized and presented by Battelle.

Battelle's environmental engineers, scientists and professionals offer focused expertise to government and industrial clients in the U.S. and abroad. Combining sound science and engineering solutions with creative management strategies, Battelle works with clients to develop innovative, sustainable and cost-effective solutions to complex problems in site characterization, assessment, monitoring, remediation, restoration, and management. Every day, the people of Battelle apply science and technology to solving what matters most. At major technology centers and national laboratories around the world, Battelle conducts research and development, designs and manufactures products, and delivers critical services for government and commercial customers. Headquartered in Columbus, Ohio, since its founding in 1929, Battelle serves the national security, health and life sciences, and energy and environmental industries.



Conference Sponsors

Battelle gratefully acknowledges the financial contributions and support of the following Conference sponsors. The corporate descriptions they provided appear on pages 32-35.



EIGHTH INTERNATIONAL CONFERENCE ON REMEDIATION AND MANAGEMENT OF CONTAMINATED SEDIMENTS

Welcome back to New Orleans! Thank you for attending the 2015 Battelle Sediments Conference. We believe you will find both the technical program content and the networking opportunities well worth your time. We're looking forward to a great week, with about 1,000 environmental professionals from 20 countries participating in the extensive technical program and other events.

The program will be a forum for sharing research results, practical experiences, and opportunities associated with remediating, restoring and maintaining the environmental and economic vitality of waterways. The accumulation of potentially hazardous or toxic chemicals in the sediments of rivers, lakes, bays, harbors and oceans presents significant health risk to aquatic environments and human populations worldwide. Maintaining the viability of these aquatic systems requires complex actions that affect a diverse group of stakeholders and touch a wide range of environmental, economic, political and social issues. The program will reflect the growing knowledge that better management of contaminated sediment systems is the key to success.

Eight short courses will be offered on Monday. The Conference Registration Desk will open at 2:00 p.m. Monday. The 75 exhibit booths, the Welcome Reception, and the first poster display will open at 5:00 p.m. The Plenary Session will begin at 6:30.

From Tuesday through Thursday, 50 breakout sessions and four panels will be conducted. Posters will be presented in two groups, on Tuesday and Wednesday evenings. Nearly 500 platform and poster presentations are scheduled. On Thursday afternoon, the Conference will close with a Roundtable, "The Billion-Dollar Question: Can Urban Master Planning Help Resolve the Cost/Benefit Impasse at Large Contaminated Sediment Sites?" The Roundtable will provide attendees an

opportunity to reconvene and participate in a wrap-up discussion.

Enjoy your free time exploring the French Quarter, the French Market, and the wealth of world-famous restaurants, shops, and historical sites within walking distance of the Hotel that make up one of the oldest cities in the U.S.

We appreciate the participation of the Conference Sponsors, whose financial support has been an important part of the planning process. In addition, we recognize the efforts of the Technical Steering Committee, the session chairs and panel organizers, and the presenters who have devoted their time and technical expertise to developing a high-quality program.

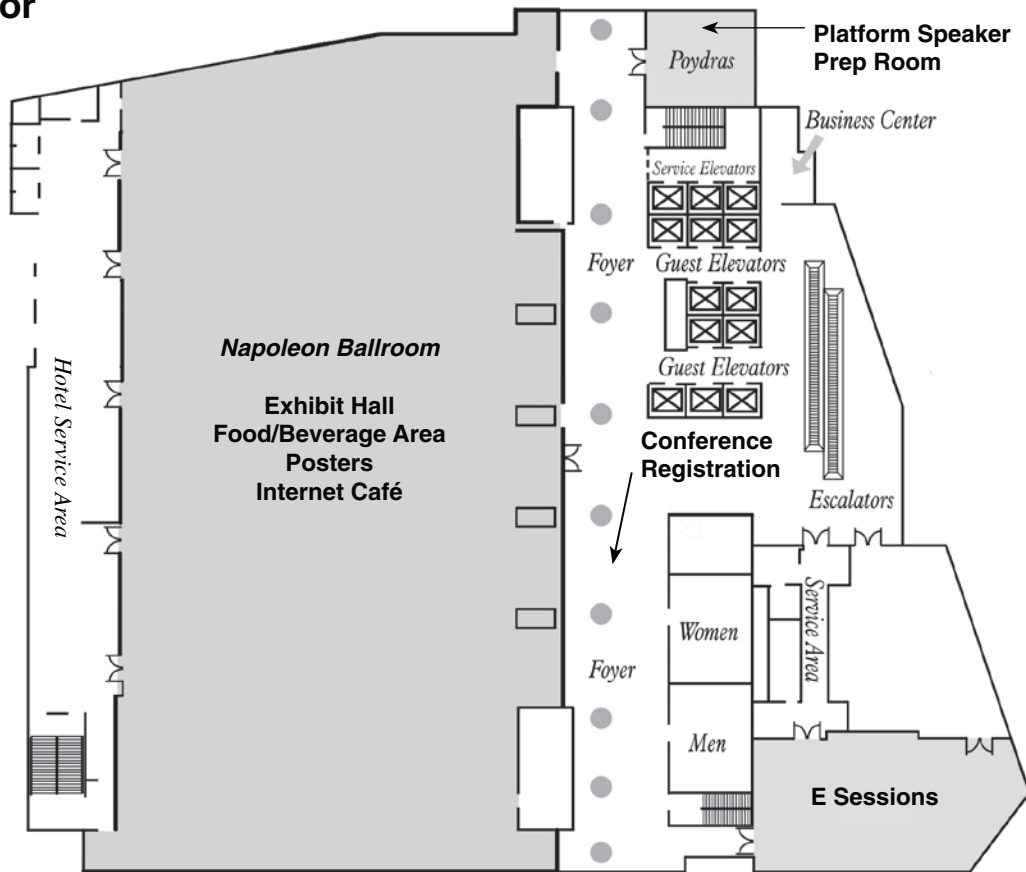
Andrew K. Bullard
Deirdre T. Dahlen
Conference Chairs (Battelle)

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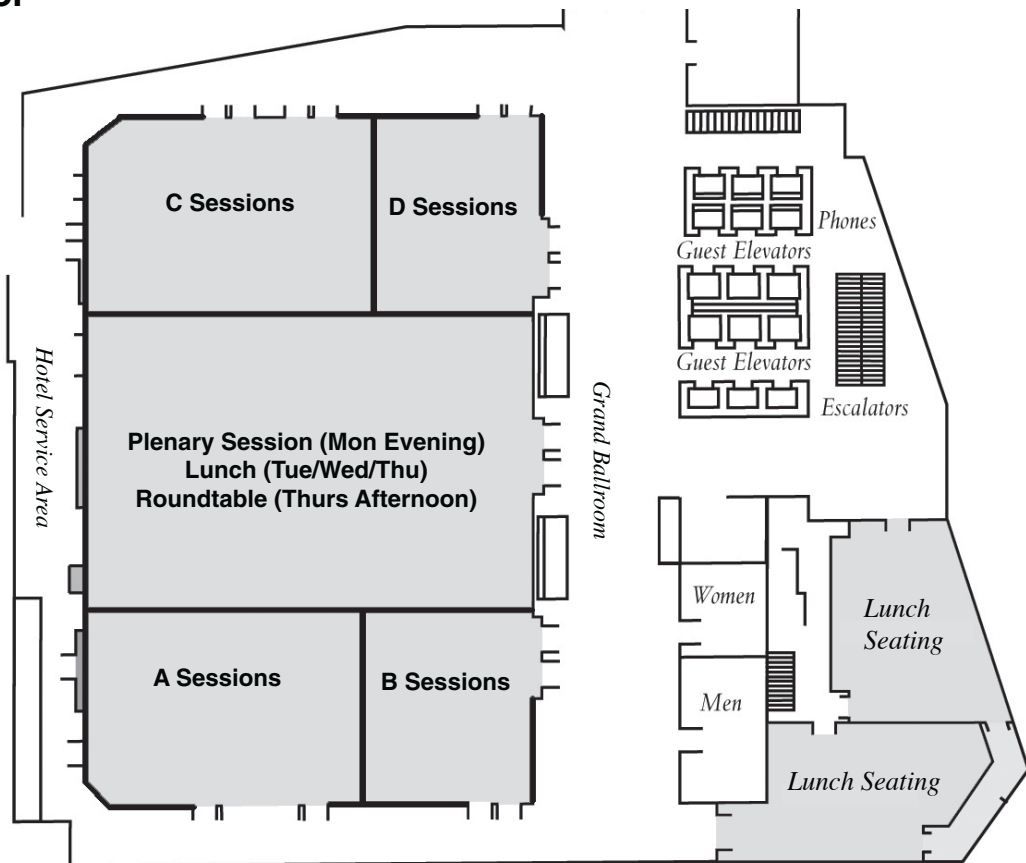
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CONFERENCE FLOOR PLAN

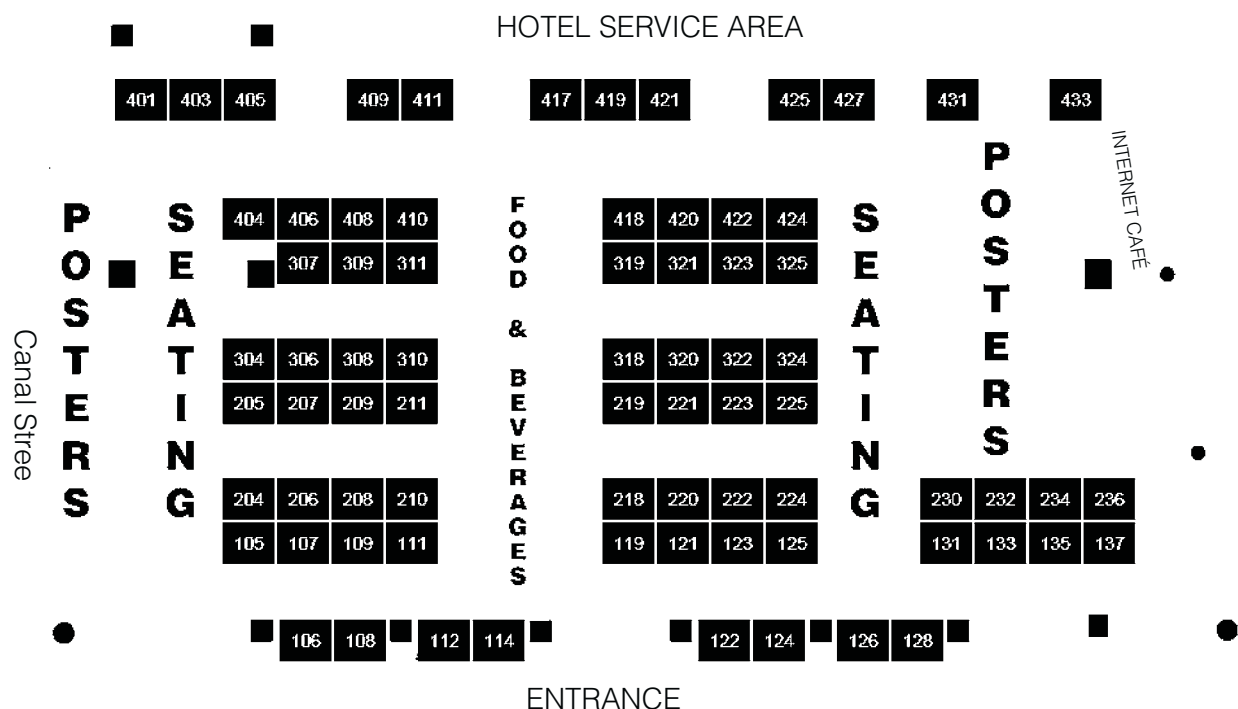
Third Floor



Fifth Floor



EXHIBITORS AND EXHIBIT FLOOR PLAN



Listed by Organization—Conference Sponsors Shown in Bold

AECOM	123	Envirocon, Inc.	318	Naval Facilities Engineering Command	137
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ALLU Group, Inc.	209	Environmental Quality Management, Inc.	404	Ocean Surveys, Inc.	409
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CAPE	122	Innosoil B.V.	128	SGS Environmental Services	221
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CBI	232	Kokosing Construction Company, Inc.	234	Terra Contracting Services, LLC	422
CDM Smith	131	Louis Berger	210	TestAmerica	109
CETCO	205	Magnus Pacific Corporation	418	Tetra Tech	424
CH2M HILL	219	Maxxam Analytics	321	The Intelligence Group-Environmental	204
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Clean Earth, Inc.	405	NASA Kennedy Space Center	206	Vista Analytical Laboratory	308
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DEL Tank & Filtration Systems	106				
Directional Technologies, Inc.	112				
EA Engineering, Science, and Technology, Inc.	306				
ENTACT, LLC	107				

GENERAL INFORMATION

All Conference events will be held at the Sheraton New Orleans. Floor plans appear on page 2. See the pages noted below for additional information about each event.

Schedule Overview

Monday, January 12

- 8:00 a.m.–5:00 p.m. Short Courses
- 2:00–8:00 p.m. Registration Desk Open
- 5:00–6:30 p.m. Exhibits, Welcome Reception, Group Poster 1 Display
- 6:30–8:00 p.m. Plenary Session

Tuesday–Thursday, January 13–15

The technical program will be conducted Tuesday morning through Thursday afternoon. The 50 sessions and four panels are organized into five thematic tracks, as summarized in the table to the right. See pages 8–9 for the platform sessions and panels to be conducted each day and pages 14 and 22 for the poster sessions on Tuesday and Wednesday evenings.

Presentations

Platform and poster presentations and panels scheduled as of December 21, 2014, are listed by day on pages 10–28. Late revisions in platform presentations (speaker changes, withdrawals) will be marked on overview sheets posted in the registration area and on daily lists outside each breakout room.

Platform talks are scheduled at 25-minute intervals, and each talk is to begin promptly at the time printed in the schedule, except as may be noted at the beginning of the day on the overview sheets and the daily lists. Session chairs are to adhere strictly to the schedule, making it possible for registrants to move between breakout rooms to hear the talks of greatest interest to them. To minimize distraction, please confine such movement to the short intervals between talks.

Panel discussions are scheduled within the platform session tracks. See panel titles in the box to the right.

Posters will be displayed on the Third Floor of the Sheraton and will be presented on Tuesday and Wednesday evenings. During the presentation periods, presenters will be at their posters to discuss their work, and refreshments will be served. See pages 14–17 and 22–25 for details on the poster presentations.

Closing Roundtable. At the conclusion of the breakout sessions on Thursday afternoon, all participants are invited to attend the closing Roundtable, “The Billion-Dollar Question: Can Urban Master Planning Help Resolve the Cost/Benefit Impasse at Large Contaminated Sediment Sites?” See page 29 for more information.

Please do not take photos or videos of any platform or poster presentation without securing the speaker’s permission and notifying the session chair in advance.

Program Topics

A. Remediation and Restoration Alternatives

- ▶ Sessions A1-A10
- ▶ Panel: *Contaminated Sediment Management from the Contractor Perspective: Design Innovation, Process Optimization and Overcoming Surprises*

B. Management Approaches and Policy

- ▶ Sessions B1-B9
- ▶ Panel: *Interagency Coordination: Integration of Regulatory Authorities to Optimize Sediment Remediation and Restoration*
- ▶ Panel: *Finding the Right Balance in Remedy Selection between Sound Science, Politics, Stakeholders and Cost Effectiveness*

C. Remedy and Restoration Implementation

- ▶ Sessions C1-C10
- ▶ Panel: *The Great Lakes Legacy Act: Using the Cost-Sharing Approach to Implement Contaminated Sediment Cleanup Projects*

D. Characterization, Assessment and Monitoring

- ▶ Sessions D1-D11

E. Environmental Processes and Modeling

- ▶ Sessions E1-E10

Mobile Scheduling Guide

The guide can be used on all major smartphone operating systems and on the Web. Abstracts are included for all platform and poster presentations. Use the mobile event guide to build your personal schedule on your smartphone, tablet or laptop. You may use your personal schedule to make notes before and during the presentations. In addition, you have the option of entering your profile to enhance networking opportunities with other participants, including sending private instant messages.



[www.eventmobi.com/
2015sediments](http://www.eventmobi.com/2015sediments)

Proceedings

All presentations given at the Conference will be represented in the proceedings. Each platform and poster presenter was invited to submit a short paper expanding upon his or her presentation. If no paper was submitted, the one-page abstract used in the abstract collection distributed shortly before the Conference will be included in the proceedings, along with the slide files for platform presentations. After the Conference, the proceedings will be compiled, indexed, published in electronic format, and distributed to technical-program registrants.

Exhibits

The 75 exhibitors are companies, government agencies, and not-for-profit organizations that engage in sediments assessment, remediation, and management activities or supply related products and services. Exhibits will be on display from 5:00 p.m. Monday through 1:00 p.m. Thursday. See page 3 for the floor plan and the list of exhibitors. Daily continental breakfasts, breaks, and receptions will be served and seating will be provided in the Exhibit Hall.

Internet Café/Charging Stations/Meeting Space

Internet Café kiosks and charging stations will be available to participants who wish to check email during Conference hours Tuesday–Thursday. The kiosks and charging stations will be in the Exhibit Hall; please be considerate and limit your use of these areas when others are waiting. Complimentary wireless Internet access also is available in the Hotel lobby. Private meeting rooms will be available for attendees' use; check at the Conference Registration Desk for details.

Messages/Job Board

A message board will be available near the Conference Registration Desk for the use of attendees wishing to contact one another. Notices about jobs available or help wanted may be posted here. This board will be used also for messages taken by the registration staff for attendees.

Meals and Receptions

For the convenience of Conference attendees, meals and breaks will be provided on site during the program at no additional cost to program registrants and exhibit booth staff. Light receptions will be served on Monday evening, during the Tuesday and Wednesday evening poster sessions, and during the Closing Roundtable on Thursday. Continental breakfasts, morning and afternoon breaks, and lunches will be provided Tuesday through Thursday. For other meals, several options are available in the hotel, and many restaurants and cafes are within walking distance from the hotel. Registrants may purchase guest meal tickets at the Conference Registration Desk; guest tickets will be priced equal to the cost incurred by the Conference for each meal.

Food and Beverage Sponsor

We appreciate the participation of Huesker, whose contribution has been applied toward the overall cost of food and beverage for Conference attendees.



GENERAL INFORMATION

Student Participation

In addition to the technical information gained by attending presentations and visiting exhibits, students will be able to meet and talk with environmental professionals representing a wide range of work experience and employers.

Student Paper Competition. Papers were due October 15, 2014. The review committee was led by Ramona Darlington, Ph.D. (Battelle). The winner received a complimentary Conference registration and, through the generosity of the Student Event sponsors, a financial award to help cover travel and related costs.

Student Paper Winner

Qi Luo (University of Georgia)
Title: In Situ Remediation of Perfluorooctanoic Acid via Enzyme-Catalyzed Oxidative Humification Reaction
Advisor: Qinggou Huang
Presentation: Poster #79, Group 1 (Tuesday)

Congratulations!

Student Mixer. To increase networking opportunities and help students become acquainted, a Student Mixer will be held on Tuesday evening, following the poster presentations. The Mixer will be attended by invited mentors who are environmental professionals selected from a variety of public- and private-sector organizations.

Student Event Sponsors. The following organizations provided financial support for the student paper awards and the Mixer.

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ITRC Remedy Selection Guidance Demonstration

Tuesday, 12:15–12:45 p.m.
“A” Breakout Sessions Room

The new, interactive ITRC guidance document *Remedy Selection for Contaminated Sediments* will be demonstrated on Tuesday, during the lunch break in the “A” Sessions room (Grand Ballroom D). The 30-minute demonstration will be given by ITRC Team Leaders John Cargill (DE Dept of Natural Resources & Environmental Control) and Greg Neumann (NJ Dept of Environmental Protection). The demonstration will begin promptly at 12:15. Participants may bring lunch from the nearby buffet line into the room.

The purpose of this new Web-based guidance is to provide decision makers assistance in identifying the contaminated sediment remedial technologies (monitored natural recovery, enhanced monitored natural recovery, in situ treatment, capping, and removal) that are the most favorable for a site. The guidance document begins with an evaluation of site-specific physical, sediment, contaminant, and land and waterway use characteristics.

The document then presents a six-step remedy selection framework to help identify favorable technologies and remedial alternatives, and it describes additional factors that must be considered as part of the alternative evaluation process. The technology overviews provided in the document contain technology assessment guidelines (TAGs) to help decision makers understand how site characteristics influence technology/remedy selection.

The demonstration will illustrate how to navigate efficiently through the guidance document to obtain only the information that is needed and also how to document all the evaluation information in the “Technology Evaluation Worksheet” that is part of the document. Don’t miss this opportunity to see a demonstration of this new document.

PLENARY SESSION

Plenary Session

Monday, January 12, 6:30-8:00 p.m.

Welcome and Opening Remarks

Conference Chairs:
Andrew K. Bullard and Deirdre T. Dahlen
(Battelle)

Presentation of Student Paper Awards

Student Event Coordinator:
Ramona Darlington (Battelle)

The National Climate Change Assessment: Climate Change Impacts in the United States and Beyond

Anthony C. Janetos, Ph.D.



Professor Janetos received his A.B. in Biology from Harvard University and his Master's and Ph.D. in Biology from Princeton University. He has written and spoken widely on the need to understand the scientific, environmental, economic, and policy linkages among the major global environmental issues. In addition to his research interests in the interaction of land systems with human needs and climate change, he has been a Lead Author and Coordinating Lead Author for the Intergovernmental Panel on Climate Change (IPCC) and has served on multiple National Research Council Committees and Boards. He has chaired the Indicators Working Group, part of the National Climate Assessment and the U.S. Global Climate Change Research Program (USGCRP), whose purpose is to devise a set of indicators of climate, its impacts, and responses, so as to establish long-term baselines for evaluations of future change.

Professor Janetos's priorities for the Pardee Center are to foster the integration of natural and social sciences, so that it can continue its long tradition of "interdisciplinary, policy-relevant, and future-oriented research that contributes to long-term improvements in the human condition."

His presentation will summarize the findings of the third U.S. National Climate Assessment and explore what response options might be especially important for coastal regions.

Featured Speaker

The National Climate Change Assessment: Climate Change Impacts in the United States and Beyond



Anthony C. Janetos, Ph.D.
*The Frederick S. Pardee
Professor*
*Director, The Frederick S. Pardee
Center for the Study of the Longer-
Range Future*

Anthony Janetos recently joined Boston University as Director of the Frederick S. Pardee Center for the Study of the Longer-Range Future, and as Professor of Earth and Environment.

Professor Janetos most recently was Director of the Joint Global Change Research Institute at the University of Maryland and has held positions at The Heinz Center for Science, Economics and the Environment; the World Resources Institute; NASA; and the U.S. EPA.

MONDAY, JANUARY 12, 2015

7:00-8:00 a.m. Morning Course Check-In
 12:00-1:00 p.m. Afternoon Course Check-In
 2:00-8:00 p.m. Conference Registration

TUESDAY, JANUARY 13, 2015

7:00 a.m.-7:00 p.m. Registration, Exhibits,
 Poster Group 1 Display
 7:00-8:00 a.m. Continental Breakfast
 Lunch scheduled within each track

8:00 a.m.-5:00 p.m. Short Courses

8:00 a.m.-5:00 p.m.

▶ Evaluating Sediment Transport: Tools, Techniques, and Application to Site Management

8:00 a.m.-Noon

▶ Methods for Evaluating the Impact of Urban Stormwater on Sediment Quality

▶ Innovative Remedial Design Exercises Using Vacuum Consolidation

▶ ITRC Guidance: Remedy Selection for Contaminated Sediments

1:00-5:00 p.m.

▶ Using Passive Samplers for Monitoring Porewater: Applications for Managing Sites Contaminated with Hydrophobic Organic Compounds

▶ Managing the Five Rs of Environmental Dredging

▶ The Role of Stable Isotopes and Other Analytical Techniques in Monitoring the Sources and Fate of Organic Materials in Contaminated Sediments

▶ Capping Design: The Art of Designing Isolation Layers to Reduce Environmental Risk Associated with Contaminated Sediments

8:00 a.m.-5:35 p.m. Platform Sessions

A1. Dredging

A2. Dredged Material Dewatering Process Improvements
 ITRC Remedy Selection Guidance Demonstration
(12:15-12:45 p.m., during lunch break)

A3. Dredged Material Disposal and Containment

A4. Amendments and Other In Situ Treatment Options

B1. Site Management Decision Strategies

B2. Integrating Sustainability into the Sediment Management and Decision-Making Process

B3. Communication and Facilitation with Stakeholders

PANEL. Finding the Right Balance in Remedy Selection between Sound Science, Politics, Stakeholders and Cost Effectiveness

C1. Sediment Remediation in the Great Lakes Basin

PANEL. The Great Lakes Legacy Act: Using the Cost-Sharing Approach to Implement Contaminated Sediment Cleanup Projects

C2. Implementation and Assessment: Successes in Sustainable Sediment Management

C3. Monitoring and Evaluating Remedy Effectiveness

D1. Ecological and Human-Health Risk Assessment

D2. Field Sampling Approaches and Tools

D3. Contaminants of Emerging Concern

D4. Chemical/Toxicological/Biological Measurements and Monitoring

E1. Hydrodynamics

E2. Sediment Transport and Contaminant Redistribution

E3. Groundwater/Sediment/Surface Water Interactions

E4. Contaminant Fate and Transport

5:00-6:30 p.m. Welcome Reception, Exhibits,
 Poster Group 1 Display
 6:30-8:00 p.m. Plenary Session

5:45-7:00 p.m. Poster Group 1 Presentations
 and Reception
 See page 14 for sessions in Poster Group 1.

7:00-8:30 p.m. Student Mixer

WEDNESDAY, JANUARY 14, 2015

7:00 a.m.-7:00 p.m. Registration, Exhibits,
Poster Group 2 Display
7:00-8:00 a.m. Continental Breakfast
Lunch scheduled within each track

8:00 a.m.-5:35 p.m. Platform Sessions

- A5. Cap Design and Modeling
- A6. Cap Construction and Operation
- PANEL.** Contaminated Sediment Management from the Contractor Perspective: Design Innovation, Process Optimization and Overcoming Surprises
- A7. Hybrid Remedies

- B4. Sediment Management under State-Led Programs
- PANEL.** Interagency Coordination: Integration of Regulatory Authorities to Optimize Sediment Remediation and Restoration
- B5. Adaptive Management
- B6. Risk-Based Management and Cleanup Decisions

- C4. Innovation and Improvement in the Design Process
- C5. Habitat and Wetlands Mitigation and Restoration
- C6. Evaluating Cap Performance
- C7. Estimating Costs and Schedules

- D5. Innovative Characterization and Assessment Tools
- D6. Noncontaminant Stressors
- D7. Impacts of Oil and Gas Spills and MGPs
- D8. Source ID and Control

- E5. Ebullition
- E6. Contaminant Bioavailability and Uptake
- E7. Contaminant Partitioning
- E8. MNR and Enhanced MNR

5:45-7:00 p.m. Poster Group 2 Presentations
and Reception
See page 22 for sessions in Poster Group 2.

THURSDAY, JANUARY 15, 2015

7:00 a.m.-1:00 p.m. Registration, Exhibits,
Poster Group 2 Display
7:00-8:00 a.m. Continental Breakfast
Lunch scheduled within each track

8:00 a.m.-2:40 p.m. Platform Sessions

- A8. Ex Situ Treatment Options
- A9. Stabilization
- A10. Beneficial Use of Contaminated Sediments

- B7. Defining Background
- B8. Sediment Quality Guidelines and TMDLs
- B9. Establishing Remediation Goals

- C8. Sediment Cleanup Challenges for Ports and Municipalities
- C9. Remediation of Urban Waterways
- C10. Monitoring and Assessing Effects during Remedy Execution

- D9. Contaminant Forensics
- D10. Geomorphological and Geotechnical Assessment
- D11. Recontamination

- E9. Contaminant Degradation via In Situ Treatment
- E10. Geospatial Data Evaluation and Data Visualization

3:00-4:00 p.m. Closing Roundtable

The Billion-Dollar Question: Can Urban Master Planning Help Resolve the Cost/Benefit Impasse at Large Contaminated Sediment Sites?
Refreshments will be provided.

4:00 p.m. Conference adjourns

TUESDAY MORNING PLATFORM SESSIONS

	A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)
8:00	<p>Dredging and Dewatering at the Roebling Steel Company Superfund. <i>A. Wright and J. Czachorowski.</i> Andrew Wright (Sevenson Environmental Services, Inc./USA)</p> <p>Paerdegat Basin Remedial Dredging and Capping. <i>L. Conley.</i> Lewis Conley (Jay Cashman, Inc./USA)</p> <p>Morrow Lake and Delta Area 2014 Dredging Operations on the Kalamazoo River. <i>G. Loveland, R. Walsh, S. Taplin, D. Hopper, and J. Wiens.</i> Rich Walsh (Terra Contracting Services, LLC/USA)</p>	<p>Going from Remediation to Restoration and Delisting: Defining Completion Based on Area of Concern Goals at Ashtabula. <i>A. Mucha, T. Conlin, and A.-J. Klei.</i> Amy Pelka Mucha (U.S. EPA/USA)</p> <p>Why Decision Models Do Work and Which Models We Need. <i>I. Linkov, M.E. Bates, and C. Fox-Lent.</i> Todd S. Bridges (USACE/USA)</p> <p>Why Decision Models Don't Work for Sediment Sites and Why We Need Models More Than Ever. <i>B.C. Hermanson.</i> Brad Hermanson (GEI Consultants/USA)</p> <p>Can BSAF Be Used Successfully to Help Set Sediment Remediation Goals? <i>J.M. LaVelle, T.W. King, E. Blischke, and K. Koch.</i> James M LaVelle (CDM Smith/USA)</p> <p>St. Clair River Sediment Management: The Decision-Making Process for the Canadian Portion of the Area of Concern. <i>R. Joyner, R. Santiago, T. Briggs, M. Graham, E. Hartman, and K. Klin.</i> Rupert D. Joyner (Environment Canada/Canada)</p>	<p>The Great Lakes Legacy Program: A Ten-Year Retrospective of Sediment Remediation in the Great Lakes. <i>M.L. Tuchman.</i> Marc L. Tuchman (U.S. EPA/USA)</p> <p>Is It Time to Create a National Legacy Act Program? Why Should the Great Lakes Have All the Fun? <i>S. Nadeau.</i> Steven C. Nadeau (Sediment Management Work Group/Honigman Miller/USA)</p> <p>Buffalo River Great Lakes Legacy Act Sediment Remediation and Habitat Restoration. <i>S. Cienizawski, M.B. Giancarlo, B. Jones, R. Galloway, and J. Jedlicka.</i> Mary Beth Giancarlo (U.S. EPA/USA)</p> <p>Collaborative Pre-design Investigation and Design Approach for the Upper Trenton Channel Act. <i>M. Erickson, L. Tomlinson, A. Mucha, and S. Greenfield.</i> Sarah A. Greenfield (ARCADIS U.S./USA)</p>	<p>Rethinking the Sediment Quality Triad for Metals-Impacted Sediment. <i>S. Clough and R. Schuck.</i> Russell Schuck (Haley & Aldrich Inc./USA)</p> <p>Developing Estimates of Baseline Risk Fish Ingestion: An Application from River Miles 0 to 8 of the Lower Passaic River Study Area. <i>J.C. Kinnell, M.F. Bingham, and S.G. Hickman.</i> Jason C. Kinnell (Veritas Economic Consulting, LLC/USA)</p> <p>Challenges of Benthic Risk Assessment at the Newtown Creek Superfund Site: Non-CERCLA Stressors, Reference Conditions, and Laboratory to Field Extrapolation. <i>D. Glaser, J. Volosin, D. Haurly, and L. Logan.</i> David Glaser (Anchor QEA, LLC/USA)</p>	<p>The Return Period of Bed Stress along the River-Estuary Continuum. <i>S.A. Talke and D.A. Jay.</i> Stefan A. Talke (Portland State University/USA)</p> <p>Development and Calibration of Phase 1 Hydrodynamic Model for Newtown Creek. <i>K. Ziegler, L. Zheng, and F. Chen.</i> Kirk Ziegler (Anchor QEA, LLC/USA)</p> <p>Field and Modeling Characterization of Wetland Hydrodynamics. <i>C. Jones, G. Chang, K. Nelson, and T. Martin.</i> Craig A. Jones (Integral Consulting Inc./USA)</p> <p>Representation of Key Estuarine Dynamics in a Hydrodynamic Model of Ackerman's Creek and Berry's Creek. <i>J. Grush, T. Dekker, A. Hopton, and R. Galloway.</i> Jeremy Grush (LimnoTech/USA)</p>
8:25					
8:50					
9:15	<p>Bucket to Slurry and Back Again: Precision Mechanical Dredging with Slurry Transport and Dewatering. <i>J. Elliott, C. Lamb, and E. Bakkom.</i> Joshua Elliott (Maul Foster Alongi, Inc./USA)</p> <p>Evaluation of Environmental Impacts Created during Bed-Leveling Operations in the Savannah River, Georgia, USA. <i>K. Badu-Tweneboah, R. Mijares, A. Testannichaei, and J. O'Brien.</i> Kwasi Badu-Tweneboah (Geosyntec Consultants/USA)</p>				
9:40					
10:05					

A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)				
<p>10:30</p> <p>Lead-Impacted Swamp and Lake Dredging Sediment Dewatering, Chemical Fixation, On-Site Beneficial Reuse, and Effluent Monitoring. L. J. Almaleh, E. Hicks, M. Hodges, R. Hoffman and D. Harris Larry J. Almaleh (Black & Veatch Special Projects Corp/USA)</p> <p>10:55</p> <p>Maximizing Production: Challenges of Maintaining Continuous Sediment Processing at a Large Multiyear Seasonal Dredging Project. S. Archinal, K. Dufek and J. Waechter John Waechter (GB&I/USA)</p>	<p>11:20</p> <p>Onondaga Lake Dredging and Dewatering: Years 1-3 Performance and Lessons Learned on a 2M CY Dredging Program. B. Hague, L. Somer, A. Steinhoff, P. Blue, T. Drachenberg, B. Rule, and K. Foley Al Steinhoff (Parsons/USA)</p> <p>11:45</p> <p>The AMORAS Project: Dewatering and Reuse of the Antwerp Port Sediments. F. Aerts, Maarten Van Esbroeck (Mobility and Public Works-Maritime Access/ Belgium)</p>	<p>12:10</p> <p>ITRC Remedy Selection Guidance Demonstration (12:15-12:45 p.m., during lunch break)</p>	<p>10:30</p> <p>Towards a New Paradigm for Sustainable Sediment Management in the Urban Environment. P.S. Finn, A.P. Joslyn, L. Niki, D. Crockett, and D. DeBiasio P. Stephen Finn (Golder Associates Inc./USA)</p> <p>10:55</p> <p>Merging NEBA, HIA, and ESHA in Sediment Remedy Feasibility Studies. J. Nicolette and R.J. Wenning Richard J. Wenning (ENVIROM/USA)</p> <p>11:20</p> <p>Hackensack Watershed Restoration, Resiliency, and Sustainability in the Face of Sea Level Rise. R. Davis and E. Henry Ryan Davis (Anchor OEA, LLC/USA)</p> <p>11:45</p> <p>Running Out of Options: Regional Sediment Management Solutions in Southern California. S. Anghera and S. Cappellino Shelly Anghera (Anchor OEA, LLC/ USA)</p>	<p>12:10</p> <p>Advantages of Sustainability and Convergence with Regulatory Trends in Contaminated Sediment Management and Remediation. M. Vanderkooy, T. Krug, and M. McMaster Matt Vanderkooy (Geosyntec Consultants/Canada)</p>	<p>12:35</p> <p>LUNCH</p>			
<p>A2. Dredged Material Dewatering Process Improvements</p>					<p>B2. Integrating Sustainability into the Sediment Management and Decision-Making Process</p>	<p>Panel</p> <p>The Great Lakes Legacy Act: Using the Cost-Sharing Approach to Implement Contaminated Sediment Cleanup Projects (Panel Discussion)</p> <p>Moderators: Marc Tuchman (U.S. EPA Great Lakes National Program Office) Steven C. Nadeau (Honigman Miller Schwartz and Cohn LLP)— Coordinating Director of the Sediment Management Work Group (SMWG)</p> <p>Panelists: Victor Magar (ENVIROM) John Morris (Honeywell) Robert Rule (demaximis, inc.)</p>	<p>D2. Field Sampling Approaches and Tools</p> <p>Using TARGOST® to Evaluate NAPL Extent and Remedial Technologies in Interidal Sediments at the Wyckoff/Eagle Harbor Superfund Site, Washington. H. Orlean, H. Bottcher, R. Moore, J. Gentry, M. Basial, and R. St. Germain. Jeff L. Gentry (CH2M Hill/USA)</p> <p>Evaluation of Sediment Cap Conditions at the Wyckoff/Eagle Harbor East Harbor Operable Unit Using a Videoprobe System. D. Browning, S. FitzGerald, B. Jaworski, H. Bottcher, and C. Barton. Dave Browning (Browning Environmental Services (BES)/USA)</p>	<p>E2. Sediment Transport and Contaminant Redistribution</p> <p>Near-Red Sediment Dynamics in the Berry's Creek Tidal Estuary. G. Chang, C. Jones, and T. Martin. Grace Chang (Integral Consulting, Inc./USA)</p> <p>Evaluation of Resuspension by Propeller Wash for DoD Harbors. P.F. Wang, I. Rivera-Duarte, K. Richter, B. Johnston, Q. Liao, K. Markillie, J. Germano, and J. Galliani. Pei-Fang Wang (U.S. Navy/USA)</p> <p>Enhanced Conceptual Site Model for Contaminated Sediment Sources in a Legacy Mining District. P. Burnet, D. Malmon, R. Mitchell, E. Moreen, and K. Prestbo Paul Burnet (CH2M HILL/USA)</p> <p>Near-Far Field Coupling of Sediment Clouds in a Current. A.C.H. Lai, S.N. Chan, A.W.K. Law, and E.E. Adams. Adrian C. H. Lai (Singapore-MIT Alliance for Research and Technology Center/Singapore)</p>
<p>LUNCH</p>					<p>LUNCH</p>	<p>LUNCH</p>	<p>LUNCH</p>	<p>LUNCH</p>

TUESDAY AFTERNOON PLATFORM SESSIONS

	A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)
1:00	Dredged Material Management and Raising for Long-Term Capacity. <i>C. Maglio, J. Bearce, M. Presley, and S. Meyer.</i> Coraggio K. Maglio (USACE/USA)	LUNCH	How to Ensure Successful Long-Term Remediation in Sediment Remediation Projects: The Need for a Sustainable Blue-Green Strategy for Oslo Harbor. <i>A. Pettersen, G.A. Slimde, H. Neilson, A.M.P. Oen, and Espen Eek.</i> Arne Pettersen (Norwegian Geotechnical Institute (NGI)/Norway)	LUNCH	Multimethod Characterization of Wetland Sediment Contamination and Impacts from LNAPL Groundwater Contamination at a Former Zephyr Refinery. <i>Muskegon, MI. M. Loomis, S. Pearson, and K. Kowalk.</i> Mark Loomis (U.S. EPA/USA)
1:25	Successful Management and Placement of Contaminated Materials in a Large Fill Site at the "Greenest Seaport." <i>S. Anghera, S. Cappellino, M. Bieri, M. Laugier-Diamond, T. Baldwin, and M. Arms.</i> Shelly Anghera (Anchor OEA, LLC/USA)	Developing Protective, Cost-Effective Remedies within the Context of a Facilitated Feasibility Study Process. <i>J. Morris, P. Gupta, M. Sorensen, R. Mohan, W. Dinicola, A. Sowatzka, and V.S. Maqar.</i> John Morris (Honeywell/USA)	Sydney Tar Ponds, Canada's Most Notorious Contaminated Site, Reborn and Reclaimed as a Public Park: A Glimpse Back and a Long Look Forward. <i>B. Noble, D. Burke, D. Wilson, and D. MacDonald.</i> Bruce Noble (AECOM/Canada)	Issues Affecting the Risk Management of Pharmaceutical and Personal Care Products in Sediments. <i>T. Sorell.</i> Tamara Sorell (Brown and Caldwell/USA)	An Evaluation of Multiple Technologies to Assess Marine Creek. <i>J. Frederick, S. McDonald, C. Prabhu, J. Kern, B. Chadwick, and E. Mahoney.</i> Jeffrey J. Frederick (Louis Berger/USA)
1:50	Landfill Disposal Challenges and Cost Factors for Dewatered and/or Stabilized Contaminated Sediments. <i>J.M. Trast and C.K. Tan.</i> John M. Trast (GEI Consultants, Inc./USA)	Enhanced Community Involvement at the Anniston PCB Site through Strategic Engagement and Communications. <i>E.G. Macolly, C. Kirk, T. Loper, and A.S. Fowler.</i> Gayle Macolly (Solutia, Inc./USA)	Climate Change and Estuary Remediation: Addressing the Challenges of Climate Change While Working below Sea Level at the Sydney Tar Ponds. <i>R. Pointkoski, D. Burke, B. Noble, D. Wilson, and D. MacDonald.</i> Randy Pointkoski (AECOM/Canada)	Concentrations of Per- and Polyfluoroalkylated Substances (PFAS) in Surface Water, Sediments, and Fish Tissue on Ottawa River. <i>K. Dasu, M.A. Mills, K. Tadele, and B. Crane.</i> Marc A. Mills (U.S. EPA/USA)	Field and Modeling Studies of the Groundwater-to-Surface Water Pathway at a Former MGP Site in Portland, Oregon. <i>T. Thornburg, B. Wyatt, D. Hatley, and B. Chadwick.</i> Todd Thornburg (Anchor OEA, LLC/USA)
2:15	Optimizing Disposal Capacity: Foundation Improvement of Soft Soils Using an Innovative Design Approach. <i>L. de Melo and D. Espinoza.</i> Lucas de Melo (Geosyntec Consultants/USA)	Community/Corporate Partnership for the Cleanup of Onondaga Lake. <i>J. McAuliffe, W. Hague, and C. Milburn.</i> John McAuliffe (Honeywell/USA)	Conducting Initial Assessment of Environmental Effects of Navigation and Infrastructure Projects: A New PIANC Standard of Practice. <i>B.C. Suedel.</i> Burton C. Suedel (USACE/USA)	Pharmaceuticals, Personal Care Products, and Pathogens in Sediments of an Urban Waterway: Tracers for Combined Sewer Overflow Discharges. <i>J. Nuwer, D. Gunster, A. Shellenberger, D. Glaser, and D. Haury.</i> Jonathan Nuwer (NewFields/USA)	Assessing Groundwater/Sediment/Surface Water Interactions: Gowanus Canal, Brooklyn, New York. <i>S. McDonald, P. Lamont, C. Prabhu, J. Frederick, S. Ghondou-Tugbawa, E. Garvey, and E. Mahoney.</i> Shane McDonald (Louis Berger/USA)
2:40	Classification and Disposal of Dewatered Sediments. <i>T. Blackmar and T.D. Stark.</i> Terri Blackmar (Tetra Tech/USA)	Navigating an RI/FS at a Complex Sediment Site: Portland Harbor Superfund Site, Oregon. <i>B. Wyatt and J. McKenna.</i> Robert Wyatt (NW Natural/USA)	BREAK	Treating Emerging Contaminants: A Look at Both Conventional and Advanced Treatment Technologies. <i>S.A. Grieco and B.V. Ramnarao.</i> Scott A. Grieco (O'Brien & Gere/USA)	Tidally Influenced Groundwater: Implications for Contaminant Fate and Transport and Sediment Site Remediation—Lower Willamette River Examples. <i>D. Livermore and E. Dodak.</i> David Livermore (Integral Consulting/USA)
3:05	BREAK	Global Resolution of Contaminated Sediment Sites: Selecting Remedies and Allocating Liability Efficiently. <i>K. Richardson, J. Carrlin, and J. Casler-Goncalves.</i> Kelly E. Richardson (Latham & Watkins LLP/USA)	Establishing a Performance Monitoring Baseline in Estuarine Environments. <i>R.J. Scott and S.R. Clough.</i> Ryan J. Scott (Haley & Aldrich/USA)	BREAK	
E3. Groundwater/Sediment/Surface Water Interactions					
E3. Contaminants of Emerging Concern					
E3. Implementation and Assessment: Successes in Sustainable Sediment Management					
E3. Communication and Facilitation with Stakeholders					

A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)
<p>3:30</p> <p>In Situ Sediment Treatment Using Activated Carbon: A Demonstrated Sediment Cleanup Technology. P. LaRosa, C. Patmont, J. Quadri, U. Ghosh, C. Menzie, R. Luthy, M. Greenberg, G. Cornelissen, E. Eek, J. Collins, J. Hull, T. Hjartland, E. Glaza, and J. Bleiler. Paul LaRosa (Anchor QEA, LLC/USA)</p>	<p>BREAK</p>	<p>Remedy Implementation and Progress towards Remedial Action Goals in the Sheboygan River Superfund Site. S. Lehrke, K. Aukerman, S. Laszewski, and K. Egan. Stephen G. Lehrke (Foth/USA)</p>	<p>Ultra-Low Detection Water Column Sampling of PCBs and DDTs in the Los Angeles and Long Beach Harbor Waters. W. Hovel, X. Lu, E. Darby, K. Curtis, A. Jirik, M. Arms, J. Vernon, and J. Dunay. Wendy Hovel (Anchor QEA, LLC/USA)</p>	<p>Using Model Emulation to Update Projections of Future Fish Tissue PCBs in the Lower Hudson River. J. Field, J. Kern, and L. Rosman. Jay Field (NOAA Office of Response & Restoration/USA)</p>
<p>3:55</p> <p>Laboratory Evaluation of Amended Caps to Reduce Mercury and Methylmercury Fluxes from Low-Productivity Marine Sediments. J.S. Grundy, P. Breta, L.E. Katz, A. Schieritz, and D.D. Reible. James S. Grundy (University of Texas at Austin/USA)</p>	<p>Finding the Right Balance in Remedy Selection between Sound Science, Politics, Stakeholders and Cost Effectiveness (Panel Discussion) Moderator: Stephen J. Ellis (U.S. EPA, Office of Sediments Remediation and Technology Innovation)—<i>Chair of the Contaminated Sediments Technical Advisory Group</i> Panelists: Todd S. Bridges (U.S. Army Corps of Engineers) Steven C. Nadeau (Honigman Miller Schwartz and Cohn LLP)—<i>Coordinating Director of the Sediment Management Work Group (SIMWG)</i> Douglas J. Sarno (Forum Facilitation Group, LLC) Randy Sturgeon (U.S. EPA, Region 3)</p>	<p>Water and Fish: Long-term Indicators of Sediment Remediation Progress on the Lower Fox River. D. Roznowski, J. Manchester, and S. Lehrke. Denis Roznowski (Foth/USA)</p>	<p>The Critical Importance of Comprehensive Isotope Dilution in Organochlorine Pesticide Measurement and Monitoring. B. Vining, A. Martin, R. Appelle, H. Distel, and J. Hart. Bryan A. Vining (SGS Environmental Services/USA)</p>	<p>Newtown Creek Chemical Fate and Transport Modeling and Groundwater, Sediment, and Surface Water Interaction Considerations. D. Keith, K. Russell, K. Ziegler, M. Casas, and M. Zhang. Kevin Russell (Anchor QEA, LLC/USA)</p>
<p>4:20</p> <p>Bioavailability Reduction of Polychlorinated Biphenyls with In Situ Sorbent Amendments in a Tidal Phragmites Marsh. J.P. Sanders, N. Andrade, U. Ghosh, C. Gilmour, C. Menzie, B. Amos, S. Brown, and E. Henry. Upal Ghosh (University of Maryland Baltimore County/USA)</p>	<p>Use of Long-Term Fish Dataset for Monitoring the Influence of Environmental and Remedial Events. L. Venne, E. Curtis, L. Smith, and K. Roberts. Emmet Curtis (AMEC Environment & Infrastructure, Inc./USA)</p>	<p>Developing Multiple Lines of Evidence to Empirically Evaluate Ecological Effects and/or Exposure to PAHs in Surface Sediments. H. Costa, L. McWilliams, and J. Germano. Helder Costa (Haley & Aldrich/USA)</p>	<p>Investigating DDT Fate and Transport at the United Heckathom Superfund Site. R. Thompson, K. Gustavson, C. Jones, and P. White. Rachelle S. Thompson (U.S. EPA/USA)</p>	<p>Mercury Occurrence, Distribution, and Fractionation in Estuarine Sediment and Surface Water. R. D. Himmelheber, D. Vassopoulos, P. de Haven, T. Marth, and J. Wollenberg. David Himmelheber (Geosyntec Consultants/USA)</p>
<p>4:45</p> <p>Mirror Lake Remediation and Restoration: The First Full-Scale Application of Activated Carbon, Dover, Delaware. J.G. Cargill, R.W. Greene, U. Ghosh, and E. Patmont. John G. Cargill (Delaware DNREC/USA)</p>	<p>Mosquitofish Tissue Results Demonstrate Effectiveness of a Cover Remedy in McIntosh, Alabama. T. Towey, D. Herrera, S. Havlik, M. Ware, S. Favors, and C. King. Timothy Towey (LimnoTech/USA)</p>	<p>How Do We Communicate the Results of a Sediment Remediation Project? J. Laugesen, H. Beate Keilen, and S. Lone. Jens Laugesen (DNV GL/Norway)</p>	<p>Quantitative Justification for a Reduced Sediments Porewater PAH Analyte List for Assessing Ecological Risk to Benthic Invertebrates. S.C. Geiger, N.A. Azzolina, D.V. Makles, and S.B. Hawthorne. Stephen C. Geiger (ERM/USA)</p>	<p>Enhanced Relative Methyl Mercury Concentrations in Sediments within a Sea Grass Area in the Brackish Fjord Gunnekevifjorden, Norway. M. Schaanning, M. Olsen, E. Lydersen, F. Moy, and Marianne Olsen (Telemark University College/Norway)</p>
<p>5:10</p> <p>In Situ Capping in the Grenlandfjord, Norway: Effects on Benthic Macrofauna Communities Four Years after Capping. C. Raymond, J.S. Gunnarsson, G.S. Samuelsson, S. Agrenius, and M.T. Schaanning. Caroline Raymond (Stockholm University/Sweden)</p>	<p>A4. Amendments and Other In Situ Treatment Options</p> <p>C3. Monitoring and Evaluating Remedy Effectiveness</p> <p>D4. Chemical/Toxicological/Biological Measurements and Monitoring</p> <p>E4. Contaminant Fate and Transport</p>			

5:45-7:00 p.m. GROUP 1 POSTER PRESENTATIONS AND RECEPTION

Exhibit Hall and Foyer

GROUP 1 POSTERS

TUESDAY

Display: Monday 5:00 p.m. – Tuesday 7:00 p.m. | **Presentations/Reception:** Tuesday 5:45–7:00 p.m.

Poster Group 3

The following posters will be on display from Monday evening through Tuesday evening. During the Presentations/Reception period Tuesday evening, presenters will be at their displays to discuss their work. The poster board number assigned to each presentation appears below.

- A1. Dredging
- A2. Dredged Material Dewatering Process Improvements
- A3. Dredged Material Disposal and Containment
- A4. Amendments and Other In Situ Treatment Options
- A5. Cap Design and Modeling
- A6. Cap Construction and Operation
- A7. Hybrid Remedies
- B1. Site Management Decision Strategies
- B2. Integrating Sustainability into the Sediment Management and Decision-Making Process
- B3. Communication and Facilitation With Stakeholders
- B4. Sediment Management under State-Led Programs
- B5. Adaptive Management
- C1. Sediment Remediation in the Great Lakes Basin
- C2. Implementation and Assessment: Successes in Sustainable Sediment Management
- C3. Monitoring and Evaluating Remedy Effectiveness
- D1. Ecological and Human-Health Risk Assessment
- D2. Field Sampling Approaches and Tools
- D3. Contaminants of Emerging Concern
- D4. Chemical/Toxicological/Biological Measurements and Monitoring
- E1. Hydrodynamics
- E2. Sediment Transport and Contaminant Redistribution
- E3. Groundwater/Sediment/Surface Water Interactions
- E4. Contaminant Fate and Transport

EXHIBIT HALL, Nos. 1–85

A1. Dredging

1. Evaluation of Dredging Elutriate Test (DRET) and Effluent Elutriate Test (EET) Results at a Great Lakes Site. *D. Hayes, J. Beaver, P. Derrick, and W. Murray.*
Donald Hayes (University of Nevada/USA)

2. Evaluation of the Ecological Benefits of Dredging Lake Sediment Using a 3-Dimensional Hydrodynamic and Water Quality Model. *K. Pilgrim, J. Hawley, T. Wagner, B. Sheets, J. Bankston, and J. Smits.*
Jamie Bankston (Barr Engineering Company/USA)

3. Precision Dredging in Design, Permitting, and Application. *C. Lamb, J. Elliott, E. Bakkom, M. Novak, and M. Murray.*
Connor Lamb (Maul Foster Alongi, Inc./USA)

A2. Dredged Material Dewatering Process Improvements

4. Innovative Polymer Application in Water Treatment at a Large-Scale Sediment Remediation Project. *S.A. Grieco, N. Lim, and A. Redding.*
Scott A. Grieco (O'Brien & Gere/USA)

A3. Dredged Material Disposal and Containment

5. Lessons Learned from Landfill Design. *M. Goldenberg and C. Athanassopoulos.*
James T. Olsta (CETCO/USA)

6. Evaluating the Presence of Debris in Dredge Material. *J. J. Gravenmier, A. Greenly, and A. Velasquez.*
Josh J. Gravenmier (ARCADIS/USA)

7. Various Elutriate Tests and Their Application to Dredged Material Management Projects. *P. McIsaac, A.F. Vicinie, L. Matko, and M. Palermo.*
Patricia McIsaac (TestAmerica Laboratories/USA)

A4. Amendments and Other In Situ Treatment Options

8. The Reactive Treatment Cell: A New Approach to Funnel-and-Gate Remediation of Impacted Sediments in Narrow Waterways. *D.G. Grubb, N.R. Brown, J.A. Wilkie, and J. Collins.*
Dennis G. Grubb (CH2M HILL/USA)

9. Treatability of Mercury and Methylmercury with In Situ Sorbent Amendments in Berry's Creek, New Jersey. *C.C. Gilmour, J.T. Bell, B. Amos, C. Menzie, U. Ghosh, E. Henry, E. Glaza, and S. Brown.*
Cynthia C Gilmour (Smithsonian Environmental Research Center/USA)

10. Polanyi-Based Model for Performance Prediction of Activated Carbon Amendments at Contaminated Sediment Sites. *W. Azhar and D. Reible.*
Wardah Azhar (University of Texas at Austin/USA)

11. Evaluation of Carbon Amendments to Reduce Bioavailability of PCBs and PAHs in Sediment. *K. Craigie, G. Braun, U. Ghosh, J. Gomez-Eyles, and E. Ashley.*
Keir Craigie (Tetra Tech/USA)

12. In Situ Formation of Permeable Reactive Barriers to Intercept and Remove Contaminants from Groundwater. *R.C. Moore, M.J. Rigali, and J.B. Duncan.*
Robert C. Moore (Sandia National Laboratories/USA)

13. In Situ Thermal Remediation of NAPL and PAHs via Gas Thermal Remediation. *C. Winell and G. Geckeler.*
Carol Winell (GEO/USA)

14. Remediation of Dioxin-Contaminated Marine Sediments Using Thin-Layer Capping with Activated Carbon and Other Sorbents: Evaluation of Bioavailability Assessment Technique. *J.S. Gunnarsson, A. Gustafsson, S. Josefsson, G. Cornelissen, I. Allen, and M. Schaanning.*
Jonas S. Gunnarsson (Stockholm University/Sweden)

15. Evaluation of Processed Kraft Lignin as an Alternative Sorbent for Sediment Remediation with Thin-Layer Capping: Comparison with Activated Carbon Derived from Charcoal and Coconut. *A. Gustafsson, J.S. Gunnarsson, G. Cornelissen, E. Sjöholm.*
Åsa Gustafsson (Stockholm University/Sweden)

16. Analysis of Polycyclic Aromatic Hydrocarbon Fluxes in Sediments Amended with Activated Carbon in the Field. *M. Rakowska, C. Thomas, and D. Reible.*
Magdalena I. Rakowska (Texas Tech University/USA)

17. Bauxaline, Bauxsol, and Granulated Bauxaline as an Amendment to Stabilize Dredged Sediments. *M. Tanez, C. Hurel, and N. Marmier.*
Nicolas Marmier (University of Nice Sophia-Antipolis/France)

A5. Cap Design and Modeling

18. A Numerical Modeling Approach to Predict BTEX and PAH Sorption in a Reactive Cap over NAPL-Impacted Sediments. *K. Wright-Ng, S. Carroll, and D. Reible.*
Kristen Wright-Ng (Haley & Aldrich, Inc./USA)

19. Selection of an Aqueous Cap Remedy at a Mercury Sediment Superfund Site. *C. Draper, H. Fogell, T. Glover, and K. Roberts.*
Cynthia Draper (AMEC/USA)

20. Achieving Higher Confidence in Cap Design Modeling through Calibration. *D. Reidy, K. Russell, J. Harrison Rice, M. Mahoney, and K. E. Lento.*
Deirdre Reidy (Anchor QEA, LLC/USA)

21. Chemical Isolation Cap Design and Construction Simplification at Ninemile Creek. *P. Roth, B. Hague, R. D'Hollander, S. Blauvelt, and J. O'Loughlin.*
Paul Roth (Parsons Corporation/USA)

22. Numerical Modeling and Sediment Cap Design. *B. Sharma, J. Wilkie, G. Hicks, R. Stryker, J. Keiser, P. Kuchikulla, and T. Heins.*
Bhawana Sharma (CH2M HILL/USA)

23. Capping Soft Swedish Sediments: A Column-Scale Case Study. *J. Jersak, M. Kallin, H. Eriksson, and P. Elander.*
Joseph Jersak (SAO Environmental Consulting AB/Sweden)

24. Conceptual Cap Design for Manistique River and Harbor. *C.E. Ruiz, P.R. Schroeder, D.D. Reible, A. Mucha, S. Cieniawski and D. Acevedo-Acevedo.*
Carlos E. Ruiz (U.S. Army Engineer Research and Development Center/USA)

25. An Innovative Permeable Reactive Barrier for Rapid Removal of Heavy Metal and Organic Matter: An Organized Study on Novel Techniques. *A. Selvaraj and I.M. Nambi.*
Ambika Selvaraj (EWRE Division, Civil Engg Dept./India)

26. Is It Possible to Design Sediment Caps for Eternity? *J. Laugesen, T. Møskeland, H.P. Mortensholm, E. Eek, D. Reible, M. Palermo, and J. Jersak.*
Jens Laugesen (DNV GL/Norway)

A6. Cap Construction and Operation

27. Cap Construction in Deep Waters. *J. Laugesen, T. Møskeland, H.P. Mortensholm, E. Eek, and B. Nygård.*
Jens Laugesen (DNV GL/Norway)

28. Design and Capping of Mine Waste Sediment at the Abandoned Jamestown Mine. *J.C. Isham.*
Julian C. Isham (CB&I/USA)

29. Constructed Remedial Caps Survive 500-Year Storm and Flood. *G. Partch, I. Mossberger, E. Hedblom, T. Wagner, and L. Sittoni.*
Guy Partch (Barr Engineering Company/USA)

30. Multifaceted Oil Seepage Remedy in Urban Stormwater Conveyance Channel. *B. Smith, D. Morgan, and T. Keyser.*
William Smith (Environmental Alliance, Inc./USA)

31. Contaminated Sediment Capping Construction: Case Studies and Lessons Learned. *T.A. Loux and A. Filshill.*
Theresa A. Loux (Golder Associates, Inc./USA)

32. In Situ Capping with No Loss of Water Depth. *D. Hwang.*
Daekyoo Hwang (URS Corporation/USA)

33. Innovative Cap for Erosion Control over PAH-Contaminated Sediment at an Active Steel Mill in Brazil. *B. Gerken, P. Aronchi, A. Fitzpatrick, and L.A. Escobar.*
William J. Gerken (AECOM/USA)

34. Implementing a Capping Remedy for Chromium in Sediments of the Lower Hackensack River, Jersey City, New Jersey. *J.M. Nielsen, J. Sananes, R. Mohan, W. Dinicola, T. Donegan, W. Hague, and J. Morris.*
J. Mark Nielsen (ENVIRON International Corporation/USA)

A7. Hybrid Remedies

35. Evaluation of Postdredging Remedy Options for Operable Unit 3 of the Horseshoe Road Superfund Site. *K.L. Roberts, N. Higginbotham, M. Popper, and T. Mathew.*
Keegan L. Roberts (CDM Smith/USA)

36. Chemically Activated In Situ Barrier Along Coastal Sediment and Embankment Remedies Ecological Risk. *M. Apfelbaum, J. Hamel, and E. Axelrod.*
Mike Apfelbaum (Woodard & Curran/USA)

B1. Site Management Decision Strategies

37. State of the Art on Contaminated Sediments in Italy. *A. Careghini, A. Mastorgio, E. Sezenna, and S. Saponaro.*
Elena Sezenna (Politecnico di Milano - DICA/Italy)

38. Remediation of Hexavalent Chromium Sediment in a "Ditch": The Non-Waters of the United States as Defined by the USACE. *S. C. Anderson, C. Brookshire, and J. Paul.*
Scott C. Anderson (Golder Associates Inc./USA)

39. Great Lakes Legacy Act Funding for the Ralston Street Lagoon Sediment Remediation Project. *R. French, T. King, and D. Vicari.*
Ronald D. French (FOTH/USA)

40. Trondheim Harbour—Cleaner Harbour: Phased Design of Remedial Actions. *M. Moseid, M. Kvennaas, G. Breedveld, J. Laugesen, and G. Eidnes.*
Marianne Kvennaas (NGI/Norway)

B2. Integrating Sustainability into the Sediment Management and Decision-Making Process

41. Balancing Potential Benefit from Remediation of Contaminated Sediments and Conservation of a Sea Grass Biotope in Gunnekefjorden, Norway. *M. Olsen, M. Schaanning, K. Næs, and E. Eek.*
Marianne Olsen (Norwegian Institute for Water Research (NIVA)/Norway)

42. Innovations in Stormwater and Sediment Management at San Diego International Airport. *B. Chandler and P. Manasjan.*
Ben Chandler (Haley & Aldrich, Inc./USA)

43. Sustainable Sediment Management and the Implications of Climate Change. *D.W. Moore, R.J. Wenning, V. Magar, and D.B. Chadwick.*
David W. Moore (ENVIRON International Corp./USA)

44. Dredged Material Management in Long Island Sound: Screening of Disposal Alternatives. *L. Lefkovitz, S. Pala, and T. Randal.*
Lisa Lefkovitz (Battelle/USA)

45. Green and Sustainable Remediation Evaluation for Sediments Sites Using SiteWise(sup)TM Version 3.1. *S. Moore, A. Bullard, R. Sirabian, R. Wensink, and A. Hawkins.*
Andrew Bullard (Battelle/USA)

B3. Communication and Facilitation with Stakeholders

46. Sediment Remediation at Former Launch Structures. *D.A. Cacciatore, J. Stormo, D. Springer, C. So, M. Weisberg, J. Hinkle, K. Gerber, and A.S. Nelson.*
David Cacciatore (CB&I Federal Services/USA)

47. Stakeholder Involvement for Dredging in a Sensitive Setting: A Case Study. *S. McAnulty and J.M. Rice.*
Stacy McAnulty (TRC Environmental Corporation/USA)

B4. Sediment Management under State-Led Programs

48. Using Site-Specific Data to Avoid Sediment Removal. *K. Jaglal and D.K. Meixell.*
Kendrick Jaglal (O'Brien & Gere/USA)

B5. Adaptive Management

49. Adaptive Management at the Lower Fox River PCB Remediation Project. *G. Berken, J. Grosskopf and R. Fox.*
George Berken (The Boldt Company/USA)

GROUP 1 POSTERS

C1. Sediment Remediation in the Great Lakes Basin

50. Managing Great Lakes Legacy Act (GLLA) Data: The GLLA Data Management System.

M. Loomis, L. Blume, N. Jannelle, J. Schofield, and Z. Rahim.

Mark Loomis (U.S. EPA/USA)

51. Revitalizing Local Waterfront Economies: The Great Lakes Legacy Act. *C.A. McCoy and J. Karl.*

Caitie A. McCoy (Illinois-Indiana Sea Grant/USA)

52. Ashtabula River Area of Concern Remediation Projects. *A. Mucha, M. Asquith, S. Cieniawski, M. Tuchman, T. Conlin, A.J. Klei, and V. Wilson.*

Amy Pelka Mucha (U.S. EPA/USA)

C2. Implementation and Assessment: Successes in Sustainable Sediment Management

53. The Great Lakes Legacy Program: Connecting Sediment Remediation to Restoration and Revitalization. *M.L. Tuchman.*

Marc Tuchman (U.S. EPA/USA)

C3. Monitoring and Evaluating Remedy Effectiveness

54. First-Year Attainment of Remedial Goals at Geddes Brook following Remediation. *M. Arrigo, S. Blauvelt, M. Warren, E. Henry, M. Murphy, and J. McAuliffe.*

Mark Arrigo (Parsons/USA)

55. Field-Deployment Results of Green PCB Removal from Sediment Systems. *J. Quinn, R. DeVor, J. Captain, G. Booth, and C. Akudo.*

Robert DeVor (QinetiQ North America/USA)

56. Short-Term Performance and Stability of an Activated-Carbon Amendment to Reduce PCB Bioavailability at an Active Naval Shipyard.

V.J. Kirtay, D.B. Chadwick, R.K. Johnston, G. Rosen, J. Conder, M. Grover, V. Magar, and J. Germano.

Victoria Julio Kirtay (SSC Pacific (US Navy)/USA)

57. Evaluating Dredging Effectiveness at a Mountain Lake in Presidio, California.

R. Teczon.

Rick Teczon (Kennedy/Jenks/USA)

D1. Ecological and Human-Health Risk Assessment

58. Canada-Wide Marine and Freshwater Contaminated Sediment Studies. *T.R. Walker, R. Willis, and R. Recoskie.*

Dave Young (Dillon Consulting Limited/Canada)

59. Evaluation of the Ecotoxicity of Vanadium in Sediment Using Multiple Lines of Evidence.

S. Jones and T. Small.

Steven M. Jones (Conestoga-Rovers & Associates/USA)

60. Lower Passaic River RM0-8: An Alternative Human Health Risk Assessment. *J.D. Urban, C. Perry, D. Wikoff, L. Abraham, and M.A. Harris.*

Jonathan D. Urban (ToxStrategies, Inc./USA)

61. Air Monitoring in a Mercury-Contaminated Estuary: Support for Risk Assessment and Risk Management. *M. Behum, J. Lape, J. Durda, P. deHaven, and J. Wollenberg.*

Matthew Behum (Integral Consulting Inc./USA)

62. Reference Area Selection Process for the Newtown Creek Superfund Site: Part 2.

D. Haury, T. Schadt, S. Geiger, N. Hausmann, and S. Peterson.

David Haury (Anchor QEA, LLC/USA)

63. Quantitative Integration of Multiple Lines of Evidence: The Use of Likelihood Ratios in Benthic Community Risk Assessments.

D. Nielsen, J. Sampson, K. Whitehead, and J. Durda.

Dreas Nielsen (Integral Consulting Inc./USA)

64. Assessment of Ecological Risk to Biota Associated with Contaminated Sediments in the Ottawa River near a Nuclear Facility.

M.J. Bond, D.J. Rowan, R. Silke, D.R. Lee, M. Stuart, and J. Carr.

Matthew J. Bond (Canadian Nuclear Laboratories/Canada)

65. Benthic Injury Dose-Response Models for PCB-Contaminated Sediment. *K. Finkelstein, T. Dillon, and N. Beckvar.*

Kenneth Finkelstein (NOAA/USA)

D2. Field Sampling Approaches and Tools

66. Fate and Transport of Legacy Contaminants (Hg, MeHg and Dioxin) from the Landlocked Fjord, Gunneklevfjorden, in Norway: Derivation of Conceptual Models from Measured Concentration Gradients and Fluxes.

E. Eek, A. Pettersen, M. Olsen, M. Schaanning, and K. Næs.

Espen Eek (Norwegian Geotechnical Institute/Norway)

67. Quantification of Bioavailable Metals by Diffusive Gradient in Thin-Film Passive Samplers: The Influence of Sulfide Nanoparticles.

H. Hsu-Kim and A.L.-T. Pham.

Heileen Hsu-Kim (Duke University/USA)

68. Integrated Field Sampling Methods Designed to Lessen the Quandary of Selecting Sustainable Remediation Alternatives.

A.M.P. Oen, A. Nybakk, S. Hess, E. Alve, T. Joranger, H. Bjørnstad, T. Winther-Larsen, T.R. Lund, J. Laugesen, B. Levin, V. Ellefsen, W. Olsen, K. Halvorsen, and O.R. Nærnes.

Amy M.P. Oen (Norwegian Geotechnical Institute/Norway)

69. The Great Lakes Sediment Surveillance Program. *K. Rockne, A. Li, N. Sturchio, and J. Giesy.*

Karl Rockne (University of Illinois at Chicago/USA)

70. Evaluation of VOC Air Emission Controls and Development of Wind Condition Constraints at a Residue Pond Remediation Site. *S. Manchester.*

Kendrick Jaglal (O'Brien & Gere/USA)

71. Evaluating the Accessibility of Mercury-Organic Colloids in Diffusive Gradient in Thin-Film Passive Samplers. *B. Rao, A. Schierz, D. Reible, and P. Bireta.*

Balaji Rao (Texas Tech University/USA)

72. Case Study: Sediment Characterization Using Incremental Sampling Methodology.

H. Blichke, R. Struck, and E.C. Hughes.

Heidi Blichke (GSI Water Solutions, Inc./USA)

73. Assessing Mercury and Methylmercury Bioavailability in Sediment Using Mercury-Specific DGTs. *L. Brown, N. Steenhaut, A. Amirbahman, G. Lotufo, and V.S. Magar.*

Lauren Brown (ENVIRON/USA)

74. Establishment of a Baseline Porewater Dataset for Long-Term Monitoring of In Situ Treatment. *K. Craigie, G. Braun, R. Siegener, and J. Occhialini.*

Keir Craigie (Tetra Tech/USA)

75. Lessons Learned from Sites in Three Great Lakes AOCs on Feasibility Study Volume Estimation Based on Sampling and Survey Data.

M. Ciarlo, K. Kowalk, J. Beaver, D. Roznowski, S. Lehrke, J. Wright, A. Mucha, Michael C. Ciarlo (EA Engineering, Science, and Technology, Inc./USA)

76. Use of a Commercially Available Polyethylene Bag as an Adsorptive Medium for Semivolatile PAH Analyses.

L. Matko, P. McIsaac, and C. Gamber.

Larry Matko (TestAmerica, Inc./USA)

77. A Decision Unit (DU) and Multi-Increment Sampling (MIS) Approach for Arsenic Characterization of Fish Pond and Estuary Sediments in Hawaii.

J. Peard, R. Brewer, J. Nakayama, K. Falinski, and W. Leon-Guerrero..

Fenix Grange (Hawaii Dept. of Health/USA)

78. Sensitivity of Results for Sediment Profile Image Analysis to Interpretation by Different Investigators.

A. Maxemchuk, G. Durell, J. Hardin, and J. Digialleonardo.

Amanda Maxemchuk (Battelle/USA)

D3. Contaminants of Emerging Concern

79. In Situ Remediation of Perfluorooctanoic Acid via Enzyme-Catalyzed Oxidative Humification Reaction. *Q. Luo and Q. Huang.*
Qi Luo (University of Georgia/USA)

STUDENT PAPER WINNER

80. Black Carbon Depositional Flux and Its Influence on SV-PBT Transport to Great Lakes Sediment. *S. Hosseini, K. Rockne, A. Li, Z. Li, J. Guo, N.C. Sturchio, and C. Smalley.*
Soheil Hosseini (University of Illinois at Chicago/USA)

81. Life after COPCs: "Emerging" Contaminants and Their Potential Role at Superfund Sediment Sites. *R.W. Gensemer, C.A. Claytor, and D. Murray.*
Robert W. Gensemer (GEI Consultants, Inc./USA)

82. Investigation of Shale-Gas Drilling Materials with Impact to Upland Sediment Practices. *C. Neslund.*
Charles Neslund (Eurofins Lancaster Laboratories Environmental, LLC/USA)

D4. Chemical/Toxicological/Biological Measurements and Monitoring

83. Impacts of Polychlorinated Biphenyl Analytical Interpretation Uncertainties on Dechlorination Assessment. *A.S. Hughes, J.M. VanBriesen, and M. J. Small.*
Amanda Hughes (Geosyntec Consultants/USA)

84. Sediment Bioaccumulation Test with *Lumbriculus variegatus* (EPA Test Method 100.3): Effects of Feeding and Organism Loading Rate. *L.P. Burkhard, D. Hubin-Barrows, N. Billa, T.L. Highland, J.R. Hockett, D.J. Hoff, D.R. Mount, and T.J. Norberg-King.*
Lawrence P. Burkhard (U.S. EPA/USA)

85. Evaluation of Compound Interference in Interpreting Organochlorine Pesticide Data by GC/ECD and the Potential Impacts on Site Management Decisions. *E. C. Hughes, D. Livesay, J. McAteer, and K. Parrett.*
Erin Carroll Hughes (GSI Water Solutions, Inc./USA)

REGISTRATION FOYER, Nos. 86–107

86. Contributions of Parent versus Alkyl PAHs to EPA "Toxic Units" in Sediment Porewater from Pyrogenic and Petrogenic Sites. *S.B. Hawthorne, D.J. Miller, C.B. Grabanski, and N.A. Azzolina.*
Steven Hawthorne (University of North Dakota/USA)

87. Results of an Empirical, Multiple Lines of Evidence Evaluation of Potential Ecological Effects and/or Exposure to PAHs in Surface Sediments. *L. McWilliams, H. Costa, and L. Read.*
Laura McWilliams (Haley & Aldrich/USA)

88. A Detailed Assessment of Sediment Contamination from Trace Metal in Lagos Harbour, Nigeria. *A. Bamanga, G. Fones, and G. Mills.*
Awwal Bamanga (University of Portsmouth/United Kingdom)

89. Coelution of Contaminant Drivers at Cleanup Sites and the Role of Consilience. *J. Knox, L. Johnson, S. Dunnihoo, and V. Spohn.*
Laura Johnson (Pacific Groundwater Group/USA)

E1. Hydrodynamics

90. Translating an Observation-Based Conceptual Site Model to a Hydrodynamic and Morphodynamic Numerical Model of a Great Lakes Estuary. *E. Hedblom, B. Sheets, I. Mossberger, T. Wagner, B. van Maren, L. Sittoni and H. Winterwerp.*
Ben Sheets (Barr Engineering Company/USA)

E2. Sediment Transport and Contaminant Redistribution

91. Integrated Sediment Transport, Wave, and Vegetation Modeling of a Great Lakes Freshwater Estuary. *B. Sheets, T. Wagner, J. Bankston, B. van Maren, L. Sittoni, and A. van Rooijen.*
Ben Sheets (Barr Engineering Company/USA)

92. Implementation of Vegetation in a Hydrodynamic and Sediment Transport Model for a Great Lakes Estuary. *J. Lee, B. Sheets, T. Wagner, L. Sittoni, and A. van Rooijen.*
Timothy S. Wagner (Barr Engineering Company/USA)

93. Combining an Oceanographic Survey and Sediment Sampling to Form the Conceptual Site Model at a Coastal Superfund Site. *C. Gurr, J. Mayo, and F. Tsang.*
Edward Leonard (CDM Smith/USA)

94. Identification and Characterization of Sediment Erodibility and Physical Properties within Newark Bay, New Jersey. *J. Magalen, E. Garland, J. Wands, L. Sanford, and E. Naranjo.*
Jason Magalen (Sea Engineering, Inc./USA)

95. Development of a 3-D Lithostratigraphic Model of a Contaminated River Bed. *D. Malmon, P. Burnet, R. Mitchell, F. Garglio, E. Moreen, and K. Prestbo.*
Daniel Malmon (CH2M HILL/USA)

96. Integrating Multiple Geochemical Tools to Create a Complete Picture of Historical and Current Contaminated Sediment Transport. *L. Warner, E. Garvey, A. Accardi-Dey, E. Dudek, M. Austin, A. Darpinian, and K. Maas.*
Leonard J. Warner (Louis Berger/USA)

97. Modeling the Movement of Sediment and Lead in the Lower Coeur d'Alene River, Idaho. *R. Mitchell, P. Burnet, D. Malmon, S. Tjerry, E. Moreen, and K. Prestbo.*
Ryan Mitchell (CH2M HILL/USA)

98. Quantitative Characterization of Sediments and Transport with Optical Scattering and Holographic Imaging. *M. Twardowski and J. Sullivan.*
Michael Twardowski (WET Labs, Inc./USA)

99. Laser Diffraction Reveals a Rich Vertical Structure in Sediments in the Cowlitz River, Oregon. *Y. Agrawal, C. Pottsmith, and W. Slade.*
Wayne H. Slade (Sequoia Scientific, Inc./USA)

E3. Groundwater/Sediment/Surface Water Interactions

100. Mercury Fate and Transport in a River Bank under Dynamic Flow. *P. Bireta, J. Grundy, P.A. Schierz, D. Reible, and R. Landis.*
Paul Bireta (University of Texas at Austin/USA)

101. Quantifying Seepage Flux Using Sediment Temperatures. *B.K. Lien and R.G. Ford.*
Bob K. Lien (U.S. EPA/USA)

102. Assessment of Potential Groundwater Impacts to Sediments in a Tidal Waterway. *K. Roberts, C. Kwan, E. Leonard, and J. Mayo.*
Keegan L. Roberts (CDM Smith/USA)

103. Application of Passive Samplers at a Contaminated Sediment Site to Measure PCB and VOC Porewater. *A. Accardi-Dey, L. Warner, E. Dudek, J. Goldstein, K. Goldstein, P.M. Gschwend, J. MacFarlane, M. Austin, A. Darpinian, and K. Maas.*
Jordan D. Goldstein (Louis Berger/USA)

104. Groundwater/Surface Water Interface Assessment: Overview and Application of the MDEQ's June 2014 GSI Compliance Options Resource Document. *J. Barkach, D. McCauley, and E. Schneider.*
John Barkach (Great Lakes Environmental Center, Inc./USA)

105. Evaluation of Groundwater Mass Discharge and Surface Water VOC Concentrations as Part of Remediation Optimization. *M.S. Kozar and M.T. Christopher.*
Michael S. Kozar (O'Brien & Gere/USA)

E4. Contaminant Fate and Transport

106. Assessment of Mercury Fate and Methylation in Low-Productivity Sediments. *A. Schierz, D.D. Reible, P. Bireta, J.S. Grundy, L.E. Katz, and R. Landis.*
Ariette Schierz (Texas Tech University/USA)

107. Evaluation of Contaminant Loading at the Klau and Buena Vista Mines Superfund Site. *E. Blischke, J. Sickles, S. Dent, and A. Greazel.*
Eric Blischke (CDM Smith/USA)

WEDNESDAY MORNING PLATFORM SESSIONS

WEDNESDAY

Time	A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)	
8:00	<p>Construction and Navigation Tolerances for Cap Design. <i>M. Palermo.</i> Michael R. Palermo (Mike Palermo Consulting, Inc./USA)</p> <p>Design of a Reactive Cap Remedy for Sort, NAPL-impacted Sediments. <i>S.M. Carroll and W. Haswell.</i> Sean M. Carroll (Haley & Aldrich, Inc./USA)</p> <p>Cap Design to Isolate 67 Metric Tonnes Hg in a WWII Submarine Wreck outside the Island Fedje on the Norwegian West Coast. <i>E. Eek, F. Lovholt, R. Toft Klinkvort, A.M.P. Oen, T. Maskeland, J. Laugesen, H.P. Mortensenholm.</i> Espen Eek (Norwegian Geotechnical Institute/Norway)</p> <p>Use of Analytical and Numerical Models to Design a Cap for Mercury-Contaminated Sediments. <i>X. Shen and D. Reible.</i> Xiaolong Shen (The University of Texas at Austin/USA)</p>	<p>Sediment Characterization in the St. Louis River Area of Concern to Support Planning and Restoration of Priority Habitat Sites. <i>T. Towey, D. Brennan, H. Tao, and V. Breidenbach.</i> Timothy Towey (LimnoTech/USA)</p> <p>State of Delaware's "Watershed Approach to Toxics Assessment and Restoration" Program (WATAR). <i>J.G. Cargill, R.W. Greene, and T.A. Keyser.</i> John G. Cargill (Delaware DNREC/USA)</p> <p>Sediment Cleanup in the Columbia Slough: Approach, Status, and Results. <i>J. Sutter and S. Miller.</i> Jennifer Sutter (Oregon Department of Environmental Quality/USA)</p> <p>A Stormwater Inspection Program: An Innovative Approach to Source Control for Protection of Remediated Sediments on the Lower Duwamish Waterway in Seattle, Washington. <i>C. Nancarrow, C. Wilson, and M. Alam.</i> Christine Nancarrow (Leidos Engineering/USA)</p>	<p>Designing Dredge Prisms to Remove Impacted Sediments While Protecting Infrastructure. <i>T. Boom, M. Ellis, C. Jones, and G. Partch.</i> Tom Boom (Barr Engineering/USA)</p> <p>Mercury Treatment at a Large-Scale Sediment Remediation Project: A Tale of Two Scales. <i>S.A. Grieco and B.E. White.</i> Scott A. Grieco (O'Brien & Gere/USA)</p> <p>Design Solutions for the Milwaukee River Channel Sediments Site: Strategies for Pre-Construction Volume Estimation and Removing Scattered Sources. <i>M. Ciarlo, J. Trombino, W. Fitzpatrick, and M. Burzynski.</i> Michael C. Ciarlo (EA Engineering, Science, and Technology, Inc./USA)</p> <p>The Complex World of Dredge Prism Design. <i>A. Clough, J. Benaman, J. Connolly, P. LaRosa, and D. Berlin.</i> Adrienne Clough (Anchor QEA, LLC/USA)</p>	<p>Passive Sampling Devices: New Tools and Approaches for Site Monitoring and Exposure Measurement from the NIEHS Superfund Research Program. <i>H. Henry and W.A. Suk.</i> Heather Henry (NIEHS/USA)</p> <p>Application of Polyethylene Devices (PEDS) for Monitoring PAHs and PCBs in Water Sediment and Tissue at a Freshwater Sediment Remediation Site. <i>L. Lefkowitz, M. Benotti, and M. Mills.</i> Lisa Lefkowitz (Battelle/USA)</p> <p>Evaluating Sediment Porewater and Water Column PAH Concentrations in a Marine Intertidal Environment Using In Situ SPME PDMS Samplers. <i>H. Botcher, H. Orlean, S. Sheldrake, K. Carboneau, R. Moore, D. Reible, and C. Thomas.</i> Courtney Thomas (University of Texas at Austin/USA)</p>	<p>NAPL Transport at Surface Water Interface and in Sediment. <i>J.L. Gentry.</i> Jeff L. Gentry (CH2M HILL/USA)</p> <p>Three-Year Postcap Gas Ebullition Monitoring Study on the Grand Calumet River Indiana, Reaches I and II. <i>K.J. Rockne and R.S. Kallappan.</i> Karl Rockne (University of Illinois at Chicago/USA)</p> <p>Application of a Gas Ebullition and Consolidation Model for Determining the Thickness of a Sand Cap That Eliminates Gas Emission. <i>L. Sittori, W. van Kesteren, K. Kuiper and T. van Kessel.</i> Luca Sittori (Deltares/The Netherlands)</p> <p>Understanding and Addressing Ebullition-Facilitated Sheeping in Cap Design. <i>P.Z. Viana, M. Gefell, M. Gravelding, M. Hanish, and K. Paschl.</i> Priscilla Z. Viana (ARCADIS U.S., Inc./USA)</p>	
8:25						
8:50						
9:15						
9:40	<p>Design Considerations for Thin-Cover Placement at a Saltwater Estuary, Brunswick, Georgia. <i>R. Mohan, W. Dinciolu, K. Ziegler, D. Reidy, K. Russell, J. Morris, P. Gupta, J. Saranies, M. Sorensen, and V.S. Magar.</i> Ram K. Mohan (ANCHOR QEA, LLC/USA)</p> <p>Realistic Estimation of Contaminant Mass Release from Sediments with Thin-Layer Caps. <i>D. Meric and T.C. Sheehan.</i> Dogus Meric (Geosyntec Consultants/USA)</p>	<p>Integration of Sediment Management Area Closure Design with Cost Effectiveness, Sustainability, and Site Use. <i>L.K. Brussel, M. Arrigo, S. Blauvelt, P. Roth, J.F. Beech, M. Zhu, C. Milburn, and J. McAuliffe.</i> Laura K. Brussel (Parsons/USA)</p> <p>Characterization of Deepwater Benthic Communities at Drilling Sites Employing Environmental DNA Sequence Analysis. <i>D. Stoeckel, C. Barling, A. Minard Smith, L. Montano, J.A. Crawford, J. Bickham, and G. Whale.</i> Donald M. Stoeckel (Battelle Memorial Institute/USA)</p>	<p>Integration of Sediment Management Area Closure Design with Cost Effectiveness, Sustainability, and Site Use. <i>L.K. Brussel, M. Arrigo, S. Blauvelt, P. Roth, J.F. Beech, M. Zhu, C. Milburn, and J. McAuliffe.</i> Laura K. Brussel (Parsons/USA)</p> <p>Characterization of Deepwater Benthic Communities at Drilling Sites Employing Environmental DNA Sequence Analysis. <i>D. Stoeckel, C. Barling, A. Minard Smith, L. Montano, J.A. Crawford, J. Bickham, and G. Whale.</i> Donald M. Stoeckel (Battelle Memorial Institute/USA)</p>	<p>Integration of Sediment Management Area Closure Design with Cost Effectiveness, Sustainability, and Site Use. <i>L.K. Brussel, M. Arrigo, S. Blauvelt, P. Roth, J.F. Beech, M. Zhu, C. Milburn, and J. McAuliffe.</i> Laura K. Brussel (Parsons/USA)</p> <p>Characterization of Deepwater Benthic Communities at Drilling Sites Employing Environmental DNA Sequence Analysis. <i>D. Stoeckel, C. Barling, A. Minard Smith, L. Montano, J.A. Crawford, J. Bickham, and G. Whale.</i> Donald M. Stoeckel (Battelle Memorial Institute/USA)</p>	<p>Integration of Sediment Management Area Closure Design with Cost Effectiveness, Sustainability, and Site Use. <i>L.K. Brussel, M. Arrigo, S. Blauvelt, P. Roth, J.F. Beech, M. Zhu, C. Milburn, and J. McAuliffe.</i> Laura K. Brussel (Parsons/USA)</p> <p>Characterization of Deepwater Benthic Communities at Drilling Sites Employing Environmental DNA Sequence Analysis. <i>D. Stoeckel, C. Barling, A. Minard Smith, L. Montano, J.A. Crawford, J. Bickham, and G. Whale.</i> Donald M. Stoeckel (Battelle Memorial Institute/USA)</p>	<p>Integration of Sediment Management Area Closure Design with Cost Effectiveness, Sustainability, and Site Use. <i>L.K. Brussel, M. Arrigo, S. Blauvelt, P. Roth, J.F. Beech, M. Zhu, C. Milburn, and J. McAuliffe.</i> Laura K. Brussel (Parsons/USA)</p> <p>Characterization of Deepwater Benthic Communities at Drilling Sites Employing Environmental DNA Sequence Analysis. <i>D. Stoeckel, C. Barling, A. Minard Smith, L. Montano, J.A. Crawford, J. Bickham, and G. Whale.</i> Donald M. Stoeckel (Battelle Memorial Institute/USA)</p>
10:05						

A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)
<p>10:30</p> <p>BREAK</p>	<p>Interagency Coordination: Integration of Regulatory Authorities to Optimize Sediment Remediation and Restoration (Panel Discussion)</p> <p><i>Moderator:</i> Stephen Geiger (ERM)</p>	<p>BREAK</p>	<p>Ecological Risk Assessment in an Urban System: Considerations for the Lower Passaic River Superfund Site. L. Saban, M. Johns, and R. Law. Lisa Bauer Saban (Windward Environmental, LLC/USA)</p>	<p>The Biology of Bioavailability: The Role of Functional Ecology in Exposure. A. Kennedy, G. Lotufo, C. Ruiz, J. Coleman, J. Lindsay, T. Bridges, L. Fernandez, and R. Burgess. Alan James Kennedy (U.S. Army Corps of Engineers/USA)</p>
<p>10:55</p> <p>Controlling NAPL Transport in Sediment at a Former MGP Site. J.M. Rice, A.A. Sellwood, K.A. Vater, V.E. Buehning, G. Loveland, H. Evans, and S.A. Wiesemann. John M. Rice (TRC Environmental Corporation/USA)</p>	<p>Panel</p> <p><i>Panelists:</i> John Cargill (Delaware Department of Natural Resources and Environmental Control) Joseph Kreitinger (U.S. Army Corps of Engineers) Alex Liverman (Oregon Department of Environmental Quality) Greg Neumann (New Jersey Department of Environmental Protection) Dale Rector (Tennessee Department of Environment and Conservation)</p>	<p>Mitigation Rules, Privatized Banking and International Trends for Habitat and Wetland Restoration. G. Kelly George Kelly (Environmental Banc and Exchange, LLC/USA)</p>	<p>Potential Sources of PAHs and Toxicity in Receiving Sediment Near a NW Refinery Outfall: A Success Story. A. Fitzpatrick Anne G. Fitzpatrick (AECOM/USA)</p>	<p>Spatially Explicit Bioaccumulation Modeling to Support Risk Assessment within a Decision Analytic Framework. Katherine von Stackelberg (NEK Associates LTD/USA)</p>
<p>11:20</p> <p>Field and Laboratory Verification Techniques for an Interim Sand and Organoclay in Situ Cap to Address PCB Contamination in the River Raisin, S. Cienawski, T. LeMasters, V. Buhir, T. Lee, R. Weber, and A. Corbin. Richard Weber (Natural Resource Technology, Inc./USA)</p>	<p>Panel</p>	<p>New York City's Initiative to Establish Wetland Mitigation Banks as a Means to Restore Degraded Urban Wetlands. K. Axt and M. McBrien. Peg McBrien (The Louis Berger Group, Inc./USA)</p>	<p>Evaluation of Seafood Waste Remedial Alternatives for the UniSea, Inc., Dutch Harbor Alaska Facility, Negotiations with EPA. M. McCullough, J. Massingale, J. Nakayama, and G. Bishop. Megan M. McCullough (Floyd/Smider/USA)</p>	<p>Evaluation of PCB Availability in Sediment after Application of an Activated-Carbon Amendment at an Active Naval Shipyard. J. Conder, M. Grover, G. Rosen, D.B. Chadwick, and V. Magar. Jason Conder (ENVIRON International Corporation/USA)</p>
<p>11:45</p> <p>The Large-scale Capping Experiment in the Grenlandsfjord Area: Dioxin Retention 0-4 Years after Capping. M.T. Schaanning, J. Allan, B. Beylich, C. Raymond, G. Samuelsson, J.S. Gunnarsson, E. Eek, and G. Cornelissen. Morten T. Schaanning (Norwegian Institute for Water Research/Norway)</p>	<p>LUNCH</p>	<p>Construction Flexibility and Getting Done. D. Westmoreland Brandon Spaug (North State Environmental/USA)</p>	<p>A Framework for Determining Causes of Impairment at Contaminated Sites. M. Henning, D. Peilletter, M. Irving, and K. Sullivan. Miranda Henning (ENVIRON International Corporation/USA)</p>	<p>Evaluation of Low Mercury Bioavailability in a Tidal Marsh, Berry's Creek, New Jersey. E. Henry, D. Glaser, M. Kelsall, C. Gilmour, and S. Brown. Elizabeth Henry (Anchor OEA, LLC/USA)</p>
<p>12:10</p> <p>Sediment Cap Installation and River Bank Restoration on the Ohio River. W. Dinicola, P. LaRosa, J. Cary, C. Geadelmann, and D. Davin. Walter Dinicola (Anchor OEA, LLC/USA)</p>	<p>LUNCH</p>	<p>The Future of 3-D Optimization: Innovation and Efficiencies Related to Stream Restoration and Geomorphic Assessment for Habitat and Stream Mitigation. D. Bideispach, M. Geenen, G. Jennings, and G. Athanasakes. David Bideispach (Stantec/USA)</p>	<p>LUNCH</p>	<p>Release of Metals from Contaminated Sediments: Translation from Laboratory- to Field-Scale Assessments. K.J. Farley, K.J. Rader, R.F. Carbonaro, and G.A. Burton. Kevin Farley (Manhattan College/USA)</p>
<p>12:35</p> <p>Onondaga Lake Remediation Cap Material Management Required for Complex High-Volume Cap Construction. D. Smith, A. Steinhoff, B. Long, W. Hague, and L. Somer David A. Smith (Parsons/USA)</p>	<p>Panel</p> <p>"Adapt or Die": An Imperative for Winning Baseball Games and Managing a Sediment Cleanup Program. T.S. Bridges and R.G. Fox. Todd S. Bridges (USACE/USA)</p>	<p>LUNCH</p>	<p>LUNCH</p>	<p>A Comparison of Constituent Bioaccumulation into the Tissue of Aquatic Organisms at Three Contaminated Sediment Sites. M. Rondinelli, C. Krieger, and S. Mooney. William A. Schew (O'Brien & Gere/USA)</p>

WEDNESDAY AFTERNOON PLATFORM SESSIONS

Time	A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)
1:00	LUNCH	Molehills Out of Mountains: Surmounting Hurdles to Adaptive Management at Superfund Sites. <i>M.C. McCullough and L.S. Kirsch.</i> Laurence S. Kirsch (Goodwin Procter/USA)	LUNCH	Geomorphic Surface Mapping: A Practical Method for Submerged Oil Assessment in the Kalamazoo River. <i>J. Holmstadt and D. Richardson.</i> Jen Holmstadt (Tetra Tech/USA)	LUNCH
1:25	LUNCH	Application of the Enhanced Adaptive Management Model for Mercury Remediation in the South River. <i>M. Grosso, C. Foran, I. Linkov, and C. Patmont.</i> Nancy Grosso (DuPont Company/USA)	Cap Performance Monitoring at the Grand Calumet River Legacy Act Site. <i>K.E. Gustavson, T.J. Fredette, P.R. Schroeder, M.A. Mills, and H. Williams.</i> Karl Gustavson (USACE/USA)	New Conceptual Site Model for Pathway from Mature LNAPL Sites to Waterways. <i>T. Hallihan, S.W. McDonald, and M.A. Stonecipher.</i> Marcy Stonecipher (Aestus, LLC/USA)	LUNCH
1:50	Contaminated Sediment Management from the Contractor Perspective: Design Innovation, Process Optimization and Overcoming Surprises (Panel Discussion) Moderator: Mark Binstfeld (J.F. Brennan Company, Inc.) Panelists: Tom Bajko (Ryba Marine) Lew Conley (Cashman Dredging) Victor Buhr (J.F. Brennan Company, Inc.) Bill Cretens (Infrastructure Alternatives) Mike Crystal (Sevenson Environmental Services, Inc.) Neil Geever (Boskalis Environmental) Jason Guenther (Great Lakes Dredger/terra Contracting Services)	Adaptive Management of a CERCLA Wetlands Remediation and Restoration: A Successful Case Study. <i>P.P. Brussock, R. Naman, and R. Dingle.</i> Peter P. Brussock (The ELM Group, Inc./USA)	Cap Coring Results and Implications for Performance Monitoring. <i>P.R. Schroeder, K.E. Gustavson, and H. Williams.</i> Paul R. Schroeder (U.S. Army Engineer Research and Development Center/USA)	Remediating Nonaqueous-Phase Liquid-Impacted Sediments at a Former MGP Site in Boston, Massachusetts. <i>M. Reemts, J. Harrison Rice, M. Mahoney, J. Raimondi, and B. Middlesworth.</i> Mark Reemts (Anchor QEA, LLC/USA)	Use of Polyethylene Devices (PEDs) in a Laboratory-Based Study to Determine Concentrations of DDT in Sediment Porewater. <i>F. Dillon, P. White, and J. Bishop.</i> Frank Dillon (CH2M HILL/USA)
2:15	Panel	The Need for T1 Waivers on Complex Sediment Projects. <i>A. Fitzpatrick, S. Goetz, and M. Spera.</i> Anne G. Fitzpatrick (AECOM/USA)	Cap Performance Monitoring Using Forensic Chemistry Methods. <i>M.A. Mills, B. Crone, K. Fetters, and H. Williams.</i> Marc A. Mills (U.S. EPA/USA)	Considerations for Characterization of Oily Sediment Systems. <i>G. McLinn.</i> Gene McLinn (Burns & McDonnell/USA)	Contaminant Bioavailability during Shallow Water Habitat Restoration. <i>N. Johnson, A. Brennan, D. Fraser, and J. Kreitinger.</i> Nathan W. Johnson (University of Minnesota - Duluth/USA)
2:40		An Assessment of the Lower Willamette Coupled Sediment and Food Web Model: Predicting Future Concentrations of Total PCBs in Fish Tissue. <i>F. Wolf and B. DeShield.</i> Frederick Wolf (RETIA USA/Legacy Site Services LLC/USA)	Characterization of PAH Fate and Transport Utilizing SPME-PDMS to Address Cap Effectiveness at the West Branch of the Grand Calumet River. <i>C. Thomas, D.D. Reible, P. Schroeder, K. Gustavson, M. Mills, A. Mucha, and H. Williams.</i> Courtney Thomas (Texas Tech University/USA)	Comparing the Bioavailability of Pyrogenic and Petrogenic PAHs (PAH-34) with Koc, Koc/KBC and Coal Tar PP-LFER Models. <i>S.B. Hawthorne, D. J. Miller, C. B. Grabanski, H.P.A. Arp, and N.A. Azzolina.</i> Steven Hawthorne (University of North Dakota/USA)	Comparing the Bioavailability of Pyrogenic and Petrogenic PAHs (PAH-34) with Koc, Koc/KBC and Coal Tar PP-LFER Models. <i>S.B. Hawthorne, D. J. Miller, C. B. Grabanski, H.P.A. Arp, and N.A. Azzolina.</i> Steven Hawthorne (University of North Dakota/USA)
3:05		Estimating Postcap Groundwater/Surface Water Exchange at the Grand Calumet River, Indiana, Using Streambed Temperature Profiles. <i>R.S. Kallappan and K.J. Rockne.</i> Raja S. Kallappan (University of Illinois at Chicago/USA)	Estimating Postcap Groundwater/Surface Water Exchange at the Grand Calumet River, Indiana, Using Streambed Temperature Profiles. <i>R.S. Kallappan and K.J. Rockne.</i> Raja S. Kallappan (University of Illinois at Chicago/USA)	Multiple Lines of Evidence to Characterize Potential Sources to the Manistique River AOC. <i>M.A. Mills, B. Crone, K. Fetters, A. Mucha, D. Walters, B. Keiper, and S. Cieniatowski.</i> Marc A. Mills (U.S. EPA/USA)	Porewater and Accessible Concentrations of Hydrophobic Contaminants in Sediments for Risk Assessment and Modeling. <i>F. Smedes and A.J. Wideveld.</i> Arian Wideveld (Deltares/The Netherlands)

A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)
<p>3:30</p> <p>BREAK</p>	<p>Long-Term Fish Trending as a Basis for Sediment Remedial Selection. <i>L. Venne, E. Curtis, C. Draper, and J. Kerr.</i> Emmet Curtis (AMEC Environment & Infrastructure, Inc./USA)</p>	<p>BREAK</p>	<p>Focusing the Right Regulatory Approaches on Surface Water Source Control at Sediment Sites. <i>J.P. Snyder.</i> Joan P. Snyder (Stoel Rives LLP/USA)</p>	<p>BREAK</p>
<p>3:55</p> <p>Satisfying Data Needs for the Evolving Sediments Remedy Selection Process. <i>K. Jaglal and D.M. Crawford.</i> Kendrick Jaglal (O'Brien & Gere/USA)</p>	<p>Consideration of Fish Consumption Risks in Evaluating Remedial Alternatives. <i>L. Kennedy and B. Brosnan.</i> Laura Kennedy (Kennedy/Jenks Consultants/USA)</p>	<p>What Is It Going to Take to Get this Project Started? <i>M. Erickson and M. Graveldeing.</i> Mark Graveldeing (ARCADIS/USA)</p>	<p>Assessment of Potential Sources of Recontamination to a DDT-Contaminated Waterway. <i>T. Himmer, P. White, and R. Thompson.</i> Theresa Himmer (CH2M Hill/USA)</p>	<p>Monitored Natural Recovery Case Studies for Sediment. <i>C. Stivers and C. Patmont.</i> Carl Stivers (Anchor QEA, LLC/USA)</p>
<p>4:20</p> <p>Evaluation of Hybrid Remedial Alternatives for Contaminated Sediment at Southeast Loch, Pearl Harbor, Hawaii. <i>W. Wen, S. Sahetapy-Engel, and K. Markillie.</i> Wendell Wen (AECOM/USA)</p>	<p>Ecological Risk Management Recommendations for the Portland Harbor Feasibility Study. <i>J. Toll.</i> John Toll (Windward Environmental LLC)</p>	<p>The Real Cost of Sediment Remediation: An Examination of Critical Cost Factors to Consider During Feasibility Planning. <i>R. Carscadden, B. Starr, and B. Kellers.</i> Reid Carscadden (Integral Consulting Inc./USA)</p>	<p>Identifying, Tracking, and Addressing Sources of PCB Contamination in Ontario Great Lakes Tributaries. <i>N. Benoit, D. Burniston, and A. Dove.</i> Nadine Benoit (Ontario Ministry of the Environment and Climate Change/Canada)</p>	<p>Verifying the Lower Willamette Coupled Sediment and Food Web Model: Predicted versus Actual Near-Field Sediment Concentrations. <i>F. Wolf and T. Slater.</i> Frederick G. Wolf (RETIA USA/USA)</p>
<p>4:45</p> <p>A Novel, Sustainable Technology to Prevent Hydrocarbon Sheens: The Oleophilic Biobarrier. <i>T. Sale, M. Chalfant, M. Lyverse, M.J. Blondillo, and M.R. Schnobrich.</i> Tom Sale (Colorado State University/USA)</p>	<p>The Lower Passaic River: A Realistic Evaluation of Ecological Conditions for Making Risk-Management Decisions. <i>T. Iannuzzi, J. Iannuzzi, E. Morrison, M. Beauchemin, and D. Jones.</i> Melissa Beauchemin (ARCADIS/USA)</p>	<p>Cost Estimating—Design Build and Analysis of Alternatives. <i>T.M. Donegan.</i> Timothy M. Donegan (Sevenson Environmental Services, Inc./USA)</p>	<p>Source Identification and Control at the Gowanus Canal Superfund Site. <i>Brian E. Carr.</i> Brian E. Carr (U.S. EPA/USA)</p>	<p>Evaluation of Natural Recovery in the Berry's Creek Study Area. <i>T. Martin, P. deHaven, C. Jones, D. Glaser, and N. Kelsall.</i> Todd Martin (Integral Consulting Inc./USA)</p>
<p>5:10</p> <p>Postconstruction Review of Zoned Sediment Remediation in an Industrial Canal. <i>T. Staniec, S. Perrick, M. Dalon, and J. Chapman.</i> Trevor Staniec (O'Brien & Gere/USA)</p>	<p>Application of ITRC Remediation Risk Management at Sediment Sites to Improve Decision Making and Project Performance. <i>B.C. Hermanson.</i> Brad Hermanson (GEI Consultants/USA)</p>	<p>Making Sense of Vast Ranges of Costs for Sediment Dredging and Capping. <i>M. Otten.</i> Mark T. Otten (Parsons/USA)</p>	<p>Stormwater Source Control: A Low-Maintenance, Passive System to Treat DDT to Part-per-Trillion Concentrations: Two Years of Monitoring. <i>D. Livermore, J. Sund, M. Martin, and T. Slater.</i> David Livermore (Integral Consulting/USA)</p>	<p>Quantifying Reduction of Bioaccumulation Potential from Carbon-Enhanced Monitored Natural Recovery. <i>B.R. Hitchens and C. Lieder.</i> Brian R. Hitchens (Geosyntec Consultants/USA)</p>

5:45-7:00 p.m. GROUP 2 POSTER PRESENTATIONS AND RECEPTION
Exhibit Hall and Foyer

GROUP 2 POSTERS

Display: Wednesday 7:00 a.m.–Thursday 1:00 p.m. | **Presentations/Reception:** Wednesday 5:45–7:00 p.m.

The following posters will be on display from Wednesday morning through Thursday afternoon. During the Presentations/Reception period Wednesday evening, presenters will be at their displays to discuss their work. The poster board number assigned to each presentation appears below.

- A8. Ex Situ Treatment Options
- A9. Stabilization
- A10. Beneficial Use of Contaminated Sediments
- B6. Risk-Based Management and Cleanup Decisions
- B7. Defining Background
- B9. Establishing Remediation Goals
- C4. Innovation and Improvement in the Design Process
- C5. Habitat and Wetlands Mitigation and Restoration
- C6. Evaluating Cap Performance
- C7. Estimating Costs and Schedules
- C8. Sediment Cleanup Challenges for Ports and Municipalities
- C9. Remediation of Urban Waterways
- C10. Monitoring and Assessing Effects during Remedy Execution
- D5. Innovative Characterization and Assessment Tools
- D6. Noncontaminant Stressors
- D7. Impacts of Oil and Gas Spills and MGPs
- D8. Source ID and Control
- D9. Contaminant Forensics
- D10. Geomorphological and Geotechnical Assessment
- D11. Recontamination
- E5. Ebullition
- E6. Contaminant Bioavailability and Uptake
- E7. Contaminant Partitioning
- E8. MNR and Enhanced MNR
- E9. Contaminant Degradation via In Situ Treatment
- E10. Geospatial Data Evaluation and Data Visualization

EXHIBIT HALL, Nos. 1–85

A8. Ex Situ Treatment Options

1. A New On-Site Approach for the Remediation of Contaminated Marine Sediments in Korea.

K. Kim.

Kyoungrean Kim (Korea Institute of Ocean Science and Technology/South Korea)

2. Destruction of PCBs from Contaminated Marine Sediments by Washing with Surfactant and Fenton's Reagent. *J.Y. Choi, K. Kim, and G.H. Hong.*

Kyoungrean Kim (Korea Institute of Ocean Science and Technology/South Korea)

3. Advanced Thermochemical Sediment Decontamination Processing for Urban Superfund Sites in the United States.

E.A. Stern, E. Peck, M. Mensinger, A. Hendricks, R. Fabricant, B. Beckstrom, D. Leavitt, and K.W. Jones.

Eric A. Stern (CDM Smith/USA)

A9. Stabilization

4. Construction Logistics of Implementing ISS in Riverine Environments, Pilot-Study Findings and Full-Scale Considerations. *D. MacDougall, D. Payne, J. Clock, J. Finn, P. Jansen, M. Sabulis, R. Cleary, and P. LaGoy.*

David MacDougall (D.A. Collins Environmental Services, LLC/USA)

5. In Situ Solidification Pilot Demonstration of River Sediments: A Discussion of Results and Future Applications. *P. Jansen, J. Finn, M. Sabulis, J.A. Clock, D. MacDougall, D. Payne, R. Cleary, and P. LaGoy.*

Paul Jansen (GEI Consultants of North Carolina, P.C./USA)

6. Stabilization of Heavy Metals (Ni, Zn, Cu, and Pb) in Marine Sediments Contaminated with Bentonite. *Y.K. Kim, K.R. Na, and W.S. Shin.*

Woo-Seok Shin (Hankyong National University/South Korea)

7. In Situ Stabilization of Pb in Marine Contaminated Sediments Using Zeolite. *Y.K. Kim, K.R. Na, and W.S. Shin.*

Woo-Seok Shin (Hankyong National University/South Korea)

8. Soil Mixing for In Situ Stabilization: Does the Choice of Equipment Matter? *P. Lear.*

Paul Lear (WRSIE/USA)

A10. Beneficial Use of Contaminated Sediments

9. Beneficial Use of Steel Slugs and Bottom Ash in Water Bodies. *A.J. Wijdeveld, G. van Waning, and A. Fase.*

Arjan Wijdeveld (Deltares/The Netherlands)

10. Beneficial Use of Dredge Sediments on a NYC Brownfield with Regional Comparisons: Case Study. *M. Clark, S. Radel, J. Bourdeau, and G. Banner.*

Jacob Bourdeau (Key Environmental, Inc./USA)

11. STFATE, DREDGE, and RECOVERY Modeling of Snake River Contaminated Sediment.

P.T. Gidley, P.R. Schroeder, J.P. Kreitinger and S.T. Juul.

Paul R. Schroeder (USACE/USA)

B6. Risk-Based Management and Cleanup Decisions

12. Let Them Eat Fish: Addressing Conservatism in Environmental Risk Assessment. *B. DeShields and F. Wolf.*

Bridgette R. DeShields (Integral Consulting Inc./USA)

13. Use of Bioavailability and Toxicity Data to Facilitate Change in Records of Decision under Superfund: A Case Study. *L. Colburn, G. Demers, K. Hallinger, and D. Banks.*

Lyndsey Colburn (ERM/USA)

B7. Defining Background

14. Establishing Background Levels of Nickel and Chromium in West Coast Embayments: Correlations and Relation to Ultramafic Signature. *S.R. Clough.*

Stephen R. Clough (Haley & Aldrich/USA)

15. Challenges in Identifying Upstream Background Locations. *J.M. LaVelle, T.W. King, A.D. Santini, and P. Bucholtz.*

James M. LaVelle (CDM Smith/USA)

16. Weight-of-Evidence Evaluation of Mercury Background/Reference Condition in a Northeastern Freshwater Pond System.

J.A. Bleiler, K. Durocher, and D. Simmons.
John A. Bleiler (AECOM/USA)

B9. Establishing Remediation Goals

17. Keeping Our Eyes on the Prize: Rethinking Risk Assessment for Improved Preliminary Remediation Goals. *C. Claytor, S. Roark, R. Gensemer, B. Hermanson, K. Barber Bradley, and D. Murray.*

Carrie Claytor (GEI Consultants, Inc./USA)

18. Innovative Approach to Developing Remedial Action Levels Using Natural Recovery Modeling for Pearl Harbor Sediment.

S. Sahetapy-Engel, W. Wen, K. Markillie.
Steve Sahetapy-Engel (AECOM/USA)

19. Lower Passaic River RMD-8: An Alternative Preliminary Remediation Goal.

L. Abraham, M.A. Harris, C. Perry, J.D. Urban, D. Wikoff, J.C. Kinnell, M. Bingham, and S. Hickman.
Mark A. Harris (ToxStrategies, Inc./USA)

20. Sediment-Loading Model to Derive Soil PCB Cleanup Goals Related to Stormwater Discharge, Portland, Oregon.

M. Bazargani, S. Kemnitz, J. Peterson, and H. Vazquez.
Steve Kemnitz (SLR International Corporation/USA)

21. Use of Surface-Weighted Average Concentrations and Not-to-Exceed Remedial Goals at Contaminated Sediment Sites.

V.P. Sacks, D. Pellitier, M. Sorensen, and V.S. Magar.
Victoria P. Sacks (ENVIRON/USA)

C4. Innovation and Improvement in the Design Process

22. Industrialized Stream Remediation Challenges and Adaptations.

M.L. Rochotte.
Mary Lou Rochotte (KEMRON Environmental Services, Inc./USA)

23. Consideration of Climate Change Impacts during Remedy Selection and Design for Sediment Remediation.

B. Kellems and E. Guyer.
Barry Kellems (Integral Consulting Inc./USA)

24. Assessment, Protection, and Mitigation for Historic Cultural Resources on a Large-Scale Sediment Remediation Project.

J. McAuliffe, T. Drachenberg, E. Glaza, S. Bupp, and C. Sabick.
Tom Drachenberg (Parsons/USA)

25. New Methods of Habitat Remediation Technology That Combines Hydroponic-Growing Techniques with Blanket-Roll Application Techniques.

T. Kryzak.
Thomas Kryzak (AIR & EARTH LLC/USA)

C5. Habitat and Wetlands Mitigation and Restoration

26. Coordinating Natural Resource Damages and Sediment Remediation to Promote Compensatory Restoration: A Case Study.

S. Jones, J. Daniel, and J. Moir.
Steven M. Jones (Conestoga-Rovers & Associates/USA)

27. Geddes Brook Floodplain Wetland and Stream Restoration: A Success Story.

R. D'Hollander, J. McAuliffe, S. Blauvelt, J. O'Loughlin, P. Roth, M. Arrigo, and R. Davis.
Raymond D. D'Hollander (Parsons/USA)

28. Innovative Sediment Remediation via Preload and Consolidation of Wetland Peat.

T. Briggs, K. Kerigan, A. Ricciardelli, and P. Sheehan.
David Winslow (GZA GeoEnvironmental, Inc./USA)

29. Review of Thin-Cover Placement in Spartina Marsh and Potential Bioturbation Effects.

K. Searcy Bell, V. Sacks, R. Mohan, W. Dinicola, J. Morris, P. Gupta, and V.S. Magar.
Kristin Searcy Bell (ENVIRON/USA)

30. Addressing Site Restoration Challenges as Part of Lake Remediation Efforts.

A.S. Eallonardo and K. Jaglal.
Kendrick Jaglal (O'Brien & Gere Engineers, Inc./USA)

C6. Evaluating Cap Performance

31. Understanding the Relationships among Low-Level Metal Influx and Remediated Sediments: Zone of Influence (ZOI).

A.S. Knox, M. Paller, K. Dixon, T. Redder, and J. Wolfe.
Anna Knox (Savannah River National Laboratory/USA)

32. Testing Different Sorbent Materials for In Situ Active and Passive Capping for Oil-Contaminated Sediments.

L. Silvani, N. Lorenti, and M. Petrangeli Papini.
Ludovica Silvani (University of Rome "La Sapienza"/Italy)

33. Demonstrating Success: A Novel Monitoring Approach for Sediment Cap Construction and Postconstruction Activities.

E. Bakkom, C. Lamb, J. Faust, M. Murray, and S. Dimke.
Erik Bakkom (Maul Foster & Alongi, Inc./USA)

34. Use of Environmental Forensics Tools to Analyze Bioavailability of Organic Chemicals.

D. Meric and T.C. Sheahan.
Dogus Meric (Geosyntec Consultants/USA)

C7. Estimating Costs and Schedules

35. Compelling Improvement Factors in the Contractor Bidding Process to Reduce Cost and Delays.

D. Hopper, C. Wilson, S. Taplin and J. Guenther.
Don Hopper (Terra Contracting Services, LLC/USA)

C8. Sediment Cleanup Challenges for Ports and Municipalities

36. Feasibility Study Remedy Considerations due to Munitions and Explosives of Concern Requirements, Pearl Harbor, Hawaii.

K. Markillie, W. Wen, S. Sahetapy-Engel, and E. Sloan.
Kimberly Markillie (U.S. Navy/USA)

37. Contaminated Sediment Dredging under a Marginal Wharf: A Challenging Case Study.

H. Abedi, L. Boreen, M. Kylo, V. Richards, R. Seamons, S. Ozkan, G. Braun, and W. McGinnis.
Raymond Seamons (Tetra Tech EC, Inc/USA)

38. Influence of Open-Lake Placement of Dredged Material on Western Lake Erie Basin Harmful Algal Blooms.

J.V. Depinto, E. Verhamme, M.M. Galloway, A. Lenox, and S. Pickard.
Marcia M. Galloway (Ecology and Environment, Inc./USA)

39. Dredging Sydney Harbour, Environmental Considerations.

R. Wells and D. Stafford.
Ryan P. Wells (Environmental Strategies/AUSTRALIA)

C9. Remediation of Urban Waterways

40. Sediments, Integrated Planning, and Green Infrastructure.

D. Herrema and J. Wolfe.
Dan Herrema (LimnoTech/USA)

41. Best Practices and Lessons Learned from Australia's Largest Sediment Remediation Project.

S. Vancheeswaran, J. Brinkman, B. Foot, and A. Dann.
Sanjay Vancheeswaran (Enviant Services PTY, Ltd./Australia)

42. Design of a Sampling Program to Evaluate Point Source Discharges at the Newtown Creek Superfund Site.

A. Shellenberger, K. Russell, M. Werth, D. Glaser, D. Haury, G. Weatherford, J. Nuwer, and D. Gunster.
Amanda Shellenberger (Anchor QEA, LLC/USA)

43. Superfund in New York and New Jersey Harbor Estuary: The Birth of Superfund Sediment Regional Management?

E. Peck and E.A. Stern.
Eugene Peck (Viridian Alliance, Inc./USA)

C10. Monitoring and Assessing Effects during Remedy Execution

44. Sediment Remediation: A Case Study of Residual-Driven Volume Expansion and Project Risk.

F. Wolf and S. Parkinson.
Frederick G. Wolf (RETIA USA/USA)

45. Hudson River PCB Superfund Site Quality-of-Life Performance Standards.

G. Klawinski, J. Fazzolari, and L. Kutina.
John Fazzolari (Ecology & Environment, Inc./USA)

46. Remote Water Quality Monitoring During Dredge Operations: Methods, Execution, and Observations within an Urban Waterway.

R. McCarthy, J. Kaczor, and S. Cieniawski.
Ryan S. McCarthy (AECOM/USA)

47. The Development of Rapid Field Screening Techniques to Assess Sediment Quality Prior to Scow Offloading and Treatment.

D.G. Grubb, D.R.V. Berggren, A.W. Walter, and K. Ohm.
Dennis G. Grubb (CH2M HILL/USA)

48. Optimization and Oversight of the Onondaga Lake Remedial Design and Construction/Operations.

M. Spera, K. Krzanowska, D. Scheuing, K. Neijstrom, and M. O'Neill.
Michael L. Spera (AECOM/USA)

D5. Innovative Characterization and Assessment Tools

49. Passive Monitoring of Hydrophobic Organic Contaminants in Sediments Using a Porewater Sampler.

J. Roberts, P. Dennis, S. Dworatzek, P. Dollar, M. Vanderkooy, and T. Krug.
Jeff Roberts (SIREM/Canada)

GROUP 2 POSTERS

50. Development of Surface Water Sampling Techniques with Ultra-Low Detection Limits for Use on the Lower Passaic River RI/FS.

K. Durocher, R. Kennedy, S. Hinz, and B. Vining.
Kristen Durocher (AECOM/USA)

51. Comparing Aroclor and Congener Analyses in Passive Samplers: Implications for Passive Sampling Programs.

M. Vanderkooy, B. Wagner, J. Roberts, T. Krug, D. Himmelheber, A. Hughes, and J. Klens Caprio.
Matt Vanderkooy (Geosyntec Consultants/Canada)

52. Camera Surveys to Document Human Use in an Isolated Urban Estuary: Update and Analysis.

M. Behum, J. Durda, D. Himmelheber, and P. Brussock.
Matthew Behum (Integral Consulting Inc./USA)

53. Recent Advances in Dendrogeomorphology in the US and Its Application to Erosion/Sediment Transport Assessment.

B. Dick, I. Jewell, I. Peszlen and P. Simon.
Bryan Dick (Lotic Solutions LLC/USA)

54. Heavy Metal XRF-CPT Probe: Praxis-Derived Advantages Respectively On-Shore and Near-Shore Application Fields.

E. Martac, M. Hirsch, A. Oppermann, M. Neuhaus, and R. Comtois.
Eugen Martac (Fugro Consult GmbH/Germany)

55. Designing and Optical Sensing System to Detect Hydrocarbons in Sediment.

M. Benotti, G. Brand, J. Hardin, D. Michelin, A. Tilstone, and J. Word.
Mark Benotti (Battelle/USA)

56. Demonstration of Fluorescent Paramagnetic Tracer Particles for Linking Sources to Sediments at DoD Sites.

J. Leather, K. Black, M. Wright, and M. Mills.
Jim Leather (U.S. Navy/USA)

D6. Noncontaminant Stressors

57. Field Validation of Polar Organic Chemical Integrative Samplers (POCIS) for Detection of Munitions Constituents in Underwater Environments.

G. Rosen, G.R. Lotufo, J. Belden, R. George, and W. Wild.
Gunther Rosen (Space and Naval Warfare Systems Center Pacific/USA)

58. Nonchemical Stressors and Their Relative Contribution to Ecological Risk in Urban River Systems.

W.A. Schew.
William A. Schew (O'Brien & Gere/USA)

D7. Impacts of Oil and Gas Spills and MGPs

59. Cost-Effective Means of Estimating Pollution Extents from Oil Spills in Remote Locations Using Hydrodynamic Modeling Techniques.

S. Gaskell, F. Kristanovich, V. Magar, and R. Mandelbaum.
Simon Gaskell (ENVIRON/United Kingdom)

60. NAPL Mobility Testing of MGP-Impacted Sediments.

J.L. Gentry, M.R. Niemet, M. Bruno, D.R.V. Berggren, and C.D. Tsiamis.
Jeff Gentry (CH2M HILL/USA)

61. Proposed Response Activity for NAPL Migration to Great Lakes to Meet Michigan Groundwater/Surface Water Interface Criteria.

J.L. Gentry, T. Hutchinson, and G.B. Reeder.
Jeff L. Gentry (CH2M HILL/USA)

62. Delineation Technique to Locate Submerged Oil in Sediment at Major Spill Response: A Case Study.

K. Kolwaite, R. Barnes, L. Trumbull, and J. Steinbacher.
Vernon (Lyle) Trumbull (O'Brien & Gere/USA)

63. Oily Sediments Adjacent to a Dredged and Capped Sediment Deposit Undergoing Natural Recovery.

G. McLinn and E. Ehrengren.
Gene McLinn (Burns & McDonnell/USA)

D8. Source ID and Control

64. Keys to Addressing the Extent of a Superfund Site Boundary.

E. C. Hughes, J. Sutter, K. Parrett, and K. Johnson.
Erin Carroll Hughes (GSI Water Solutions, Inc./USA)

65. Conjunctive Use of Field Testing and Modeling for Evaluating Performance of a Hydraulic Control and Containment System at a Former MGP Site.

P. Mugunthan, J. Edwards, M. Riley, J. Renda, T. Stone, B. Johnson, M. Wilson, B. Gong, and B. Wyatt.
Pradeep Mugunthan (Anchor QEA, LLC/USA)

66. The Portland Harbor Upland Source Control Story: The Cleanup before the Cleanup.

L.A. Liverman and M. McClincy.
L. Alexandra Liverman (Oregon Department of Environmental Quality/USA)

67. Sediment Contamination in Newtown Creek: Assessing Contaminant Data for a Better Understanding of the System.

C. Prabhu, S. Gbondo-Tugbawa, E.A. Garvey, S. McDonald, and E. Mahoney.
Chitra Prabhu (The Louis Berger Group/USA)

68. Use of Chemometrics in Support of PAH Allocation in Sediments at Former MGP Sites.

D.M. Mauro.
David M. Mauro (META Environmental, Inc./USA)

69. Quaternary Ammonium Compounds as Tracers of Sources and Movement of Contaminated Sediments: Hempstead Bay Pre- and Post-Superstorm Sandy.

B. Brownawell, P. Clyde, and A. Cooper Doherty.
Bruce Brownawell (Stony Brook University/USA)

D9. Contaminant Forensics

70. Evaluation of the Effect of Bridge Coatings on Sediment Quality.

S. Bowerman, J. Dittman, D. Profusek, P. Spadaro, C. Moody, and K. Maitland.
Samantha Bowerman (The Intelligence Group/USA)

71. Using Sheens to Quantify Spilled Crude Oil Weathering in Sediments with High Background Hydrocarbon Contamination.

D.A. Chiavelli, P.M. Simon, P.B. Simon, and S. Schroeder.
Deborah A. Chiavelli (Anchor QEA, LLC/USA)

72. Quantifying Residual Spilled Crude Oil Concentration in River Sediments with a Multiratio Mixing Model.

D. Chiavelli, P.B. Simon, P.M. Simon, M. Rury, and E. Pendleton.
Deborah A. Chiavelli (Anchor QEA, LLC/USA)

73. Background Sources of Polycyclic Aromatic Hydrocarbons in Sediments of the Yellowstone River.

S. Dunn, M. Butcher, T. Iannuzzi, and J. Iannuzzi.
Shannon Dunn (ARCADIS U.S., Inc./USA)

74. Using Forensic Methods to Distinguish Sources of PCBs to Sediments.

M. Hayes, T. Sauer, M. Biondolillo, N. Gensky, and J. Iannuzzi.
Matt Biondolillo (ARCADIS/USA)

75. Contrast of Mass-Based and Toxicity-Based Allocation of PCB Contamination.

D. Kay, J. Newsted, P. Simon, and P. Simon.
Denise Kay (Natural Resource Technology, Inc./USA)

76. Surface Water Sheen Monitoring and Characterization Approach.

R. Parmelee, J. Sueker, and S. Patil.
Rhiannon Parmelee (ARCADIS U.S., Inc./USA)

77. Application of Mercury Stable Isotope Ratios for Identification and Tracking of Contaminant Sources.

G.N. Bigham and K.J. Murray.
Gary N. Bigham (Exponent, Inc./USA)

78. Use of Mercury Stable Isotope Analysis for Sediment Source Identification.

D. Chambers, J.D. Blum, A. Leavitt, and S. McLaughlin.
Deni Chambers (Northgate Environmental Management, Inc./USA)

D10. Geomorphological and Geotechnical Assessment

79. Vibration Study Design, Implementation, and Findings Related to Vertical Barrier Wall Feasibility Evaluations. *B. Hung, S. Dickenson, S.M. Jaeger, and B. Xiong.*
Ben Hung (Anchor QEA, LLC/USA)

80. Slope Stability versus Bearing Capacity in Subaqueous Capping. *S.S. Nadukuru, M. Zhu, and J. Beech.*
Srinivasa S. Nadukuru (Geosyntec Consultants/USA)

D11. Recontamination

81. Preventing Recontamination by Blending CERCLA and Clean Water Act Tools: A Reluctant Marriage That's Actually in Violent Agreement. *L.A. Liverman.*
L. Alexandra Liverman (Oregon Department of Environmental Quality/USA)

82. Sediment Recontamination Prevention Measures: The Port of Venice Case Study. *N. Torricella, M. Citron, L. Santon, S. Biondi, F. Sambo, and P. Bottega.*
Nicola Torricella (Venice Port Authority/Italy)

E5. Ebullition

83. Reasons and Technology for Inhibiting Methanogenesis during In Situ Sediment Treatment. *J. Hull, M. Scalzi, and J. Mueller.*
John Hull (AquaBlok, LTD/USA)

E6. Contaminant Bioavailability and Uptake

84. Biogeochemical Framework to Evaluate Mercury Bioavailability and Methylation Potential in Contaminated Sediments. *H. Hsu-Kim, M.A. Deshusses, T. Zhang, Anh L.-T. Pham, J. Ticknor, and A. Matsumoto.*
Heileen Hsu-Kim (Duke University/USA)

85. Bioavailability and Toxicity of PAHs and Metals in Sediments of Duck and Otter Creeks, Ohio. *P. Fuchsman, L. Brown, M. Bock, M. Travers, V. Magar, J. Kubitz, C. Pfeifer, and M. Darr.*
Phyllis Fuchsman (ENVIRON/USA)

REGISTRATION FOYER, Nos. 82–101

86. Bioaccumulation of PCBs and DDTs from Historically Polluted Sediments and its Relation to POM-Derived, Freely Dissolved Concentration in Porewater. *G.R. Lotufo and K.E. Gustavson.*
Karl E. Gustavson (U.S. Army Corps of Engineers/USA)

87. Comprehensive Mercury Methylation and Food Web Connectivity Assessment in a Small Reservoir at the Klau and Buena Vista Mines Superfund Site. *S. Dent, J. Sickles, E. Blischke, and A. Greazel.*
Stephen R. Dent (CDM Smith/USA)

E7. Contaminant Partitioning

88. Simulating Resuspension and Bioturbation in Aquatic Sediments: Differentiating the Effects on Metal Bioavailability. *G.A. Burton, J. Daley, L. Sano, K. Fetters, S. Nedrich, and A. Harrison.*
G. Allen Burton (University of Michigan/USA)

89. Questioning the Fate of Low-Molecular-Weight PAHs in a Seiche-Influenced, Ice-Covered Environment. *N. Johnson, A. Brennan, and A. Jefferson.*
Nathan W. Johnson (University of Minnesota - Duluth/USA)

90. Interaction of PCDDs and PAHs with Five Contrasting Geosorbents. *C.T. Johnston, E. Barth, S. Chattopadhyay, K. Das, and S.A. Boyd.*
Cliff T. Johnston (Purdue University/USA)

E8. MNR and Enhanced MNR

91. Monitoring Benthic Habitat Recovery Using Sediment Profile Imaging/Plan View Technology. *G. Revelas and B. Day.*
Gene Revelas (Integral Consulting Inc./USA)

92. Environmental Footprint Analysis of a Thin-Layer Capping Remedy Compared to Conventional Sediment Management Remedies. *K.C. Saucier, M.P. Hays, and C.M. Shoaf.*
Karen C. Saucier (TRC Environmental Corporation/USA)

93. Using Bioturbation by Tubifex to Decrease the Peak Concentration of Contaminants as a Remediation Measure. *M.A. de Lucas Pardo and L. Sittoni.*
Luca Sittoni (Deltares/The Netherlands)

E9. Contaminant Degradation via In Situ Treatment

94. Turnkey Technology to Monitor and Treat Contaminated Sediment In Situ. *F. Lakaye, W. De Windt, and J. Dick.*
Frédéric Lakaye (Biorem SA/Belgium)

95. An In Situ Pilot Study Evaluating the Efficacy of Bioaugmentation for Treatment of PCB-Impacted Sediments in Abrahams Creek, Quantico, VA. *K.R. Sowers, R. Payne, U. Ghosh and H.D. May.*
Upal Ghosh (University of Maryland Baltimore County/USA)

96. Rules of Thumb for Planning Activated Carbon Treatments for Contaminated Sediment in Vegetated Wetlands. *C.A. Menzie, B. Amos, U. Ghosh, S.S. Brown, C.C. Gilmour, E.A. Henry, E. Glaza, and J. Bleiler.*
Charles Menzie (Exponent/USA)

97. Effects of Chitosan on the Metal-Ion Content of Contaminated Sediment and Larvae of Aquatic Insects. *R.C. Corrêa, S.P. Campana-Filho, and J.J. Corbi.*
Regiane Cristina Corrêa (Universidade de São Paulo/Brazil)

E10. Geospatial Data Evaluation and Data Visualization

98. GIS Streamtube Methodology to Estimate PCB Surface-Area Weighted Average Concentrations (SWACs) in Kalamazoo River Sediment. *T. Parks, M. Prytula, E. Curtis, and C. Draper.*
Cynthia Draper (AMEC/USA)

99. Geostatistical Analysis of Sediment PCB Concentrations in a Braided River System. *E. Thomas, J. Eykholt, T. Parks, C. Draper, and H. Fogell.*
Evan Thomas (AMEC Environment & Infrastructure, Inc./USA)

100. An Operational Framework for Providing Complete and Useable Datasets to Multiple Primary Responsible Parties Involved in a Remedial Investigation. *K.L. Fletcher and T. Kennedy.*
Karen L. Fletcher (ERM/USA)

101. Remedial Action Delineation: Sample Design Considerations for Remedy Approval and Cost Reduction. *M. Novak, P. Wiescher, R. Maronn, C. Lamb, E. Bakkom, and J. Elliott.*
Madi Novak (Maul Foster Alongi, Inc./USA)

THURSDAY MORNING PLATFORM SESSIONS

THURSDAY

A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)
8:00 The Successful Solidification/Stabilization (S/S) of Freshwater Sediments Impacted by an Organoarsenic Herbicide. <i>D.G. Grubb, D.R.V. Berggren, J. Danko, and G.L. Hicks.</i> Dennis G. Grubb (CH2M HILL/USA)	Natural and Regional Background Concepts, Adaptive Sampling Approaches, and Application to Sediment Cleanup in Washington State. <i>T.C. Michelsen, L.S. Inouye, C.E. Asher, and L.B. Read.</i> Teresa C. Michelsen (Avocet Consulting/USA)	The Role of the Municipality in Cleanup of Contaminated Sediments: Lessons from the Thea Foss Waterway in Tacoma, Washington. <i>P. Spadaro, M. Henley, J. O'Loughlin, and M.P. Stevin.</i> Philip Spadaro (The Intelligence Group/USA)	Application of Ensemble Environmental Forensics to PAH Source Attribution. <i>P. Boehm, J. Pietari, and S. Ahn.</i> Jaana Pietari (Exponent/USA)	Treatability Study for Under-Pier Activated Carbon Amendment Treatment of Contaminated Sediments, Pearl Harbor, Hawaii. <i>E. Sloan, W. Wen, S. Sahetapy-Engel, K. Markille.</i> Ed Sloan (AECOM/USA)
8:25 Large-Scale Ex Situ Immobilization Treatment of Contaminated River Sediments: From Bench-Scale to Full-Scale Implementation. <i>S. Vancheeswaran, A. Montgomery, B. Foot, and A. Dann.</i> Sanjay Vancheeswaran (Enviant Services PTY, Ltd./Australia)	Mercury in Sediments: Challenges in Assessing Background Conditions. <i>G.J. McDermott, E. Walden, D. Michael, and W. Swanson.</i> Gregory McDermott (Neptune and Company, Inc/USA)	A Superfund Site Runs through It. <i>K. Cox.</i> Kim E. Cox (City of Portland/USA)	Multiple Lines of Evidence Approach: Crude Oil Spill Identification and Differentiation. <i>P.M. Simon, P.B. Simon, D. Chiavelli, D. Glaser, and M. Rury.</i> Peter M. Simon (Ann Arbor Technical Services, Inc./USA)	Evaluation of Powdered versus Granular Forms of Amendments for In Situ Sequestration of Sediment Contamination. <i>T.A. Krug, M. Vanderkooy, J. Hull, and J. Roberts.</i> Matt Vanderkooy (Geosyntec Consultants/Canada)
8:50 Excavation and Treatment of Agent Orange-Contaminated Sediments at Daang Airport, Vietnam. <i>K. Sorenson, A. Lopez, J. Barner, R. Chichakli, P. Chenevey, T. Bolvin, D. Liu, and R. Baker.</i> Kent Sorenson (ODM Smith/USA)	Setting Achievable Background Levels for Sediment Remedies. <i>C. Stivers and A. Nelson.</i> Carl Stivers (Anchor O&E, LLC/USA)	Challenges for a Small City with a Big Sediment Cleanup Site: Port Angeles, Washington. <i>B. Day, W. Bloor, D. McKean, and N. West.</i> Betsy Day (Integral Consulting Inc./USA)	PCB Fingerprinting Using Congener Data and Multiple Statistical Evaluation Methods. <i>T. Dekker, N. Barabas, A. Hopton, and R. Galoway.</i> Timothy Dekker (LimnoTech/USA)	Geotechnical Evaluation of Organoclay Adsorptive Media Exposed to NAPL. <i>K. Gardner and S. Greenwood.</i> Scott Greenwood (University of New Hampshire/USA)
9:15 Simultaneous Chemical Fixation of Priority Heavy Metals in Soil, Sediment, and Groundwater Using MetaFix™ Reagents. <i>F. Lakhwala, A. Seach, and P. Hicks.</i> Fayaz Lakhwala (PeroxyChem, LLC/USA)	Zinc in Soils and Sediments: The Road from Background to Ambient. <i>B. Castle, M.J. Guttman, M.J. Moes, A. Ng, and D.W. Harbaugh.</i> Maria J. Guttman (Erler & Kalinowski, Inc./USA)	Efficient and Effective Strategies to Address the Unique Challenges Public Entities Face in Sediment Cleanups and Cost Allocations: A Legal Perspective. <i>K. Peterson and E. Black.</i> Kurt Peterson (Cascadia Law Group/USA)	Fingerprinting and Source Apportionment of PCBs and BDEs. <i>L.A. Rodenburg.</i> Lisa A. Rodenburg (Rutgers, The State University of New Jersey/USA)	Field-Scale Study of Activated Carbon In Situ Remediation Treatments for a PCB-Contaminated Wetland. <i>K. Gardner, S. Greenwood, and J. Bleiler.</i> Kevin H. Gardner (University of New Hampshire/USA)
9:40 BREAK	BREAK	BREAK	Forensic Evaluation and Allocation of Heavy Metals in Surface Water Runoff from Multiple Sources to an Urban Lake. <i>P.M. Mesard and K.R. Robrock.</i> Peter M. Mesard (Exponent/USA)	BREAK
10:05 Preparing for a Unique Pilot Demonstration: What It Takes to Go from Concept to Pilot. <i>J. Clock, J. Finn, P. Jansen, M. Sabulis, D. MacDougall, D. Payne, R. Cleary, P. LaGoy, T. Olean.</i> Jeffrey A. Clock (Electric Power Research Institute/USA)	Applying the New Vision for the Clean Water Act Section 303(d) Program: Accounting for Ongoing Restoration at Contaminated Sediment Sites. <i>J. Benaman, T.C. Stiles, and E. Darby.</i> Jennifer Benaman (Anchor O&E, LLC/USA)	Urban Design Challenges for the Remedial Design of the Gowanus Canal. <i>D. Nicholas, D. Himmelheber, J. Beach, and H. Cumberland.</i> Darrell Nicholas (Geosyntec Consultants/USA)	BREAK	BREAK

A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)	
<p>10:30</p> <p>Stabilization/Solidification (S/S) of MGP-Impacted Sediments. J.L. Gentry, M.R. Niemet, M. Bruno, D.R.V. Berggren, D.G. Grubb, and C.D. Tslami. Jeff Gentry (CH2M HILL/USA)</p>	<p>10:55</p> <p>Field-Scale Feasibility Tests for Stabilization of Petroleum-Contaminated Sediments in Mexico and Development of Leachate Criteria. R.H. Adams, K. Schenk, M. Vargas, L. Hernández Acosta, P.C. Caño Urgell, and J.J. Muñoz Avalos. Randy H Adams (Züblin Ambiental, S.A. de C.V./Mexico)</p>	<p>11:20</p> <p>Cement Stabilization for Managing Oil-Impacted Dredged Material Planned for Disposal in a Confined Disposal Facility. S. Cappellino, S. Anghera, D. Porter, and M. Arms. Sieve Cappellino (Anchor OEA, LLC/ USA)</p>	<p>11:45</p> <p>In Situ Stabilization/Solidification (ISS): Another Tool for Remediation of Contaminated Sediments. C.A. Robb, T.J. deGroot, and R.H. Weber. Christopher A. Robb (Natural Resource Technology, Inc./USA)</p>	<p>12:10</p> <p>LUNCH</p>	
<p>12:35</p>	<p>B9</p> <p>Developing Risk-Management Cleanup Goals in the Face of Uncertainty. M. Sorensen, P. Leitman, A. Daniel, D. Peltier, J. Morris, P. Gupta, and V.S. Magar. Marty Sorensen (ENVIRON/USA)</p>	<p>C10</p> <p>Environmental Risk Management and Stakeholder Engagement: Best Practices from Australia's Largest Sediment Remediation Project. S. Vancheeswaran, C. Bagnall, B. Foot, and A. Dann. Sanjay Vancheeswaran (Enviant Services PTY, Ltd./Australia)</p>	<p>E10</p> <p>Visualizing the Potential of Environmental Big Data. M. Aldea, J. Buonagurio, and M. Edwards. Mihai Aldea (Exponent, Inc./USA)</p>	<p>12:10</p> <p>LUNCH</p>	
<p>B8. Sediment Quality Guidelines and TMDLs</p>		<p>Integrating Sediment Quality Guidelines and Assessment Approaches. D.J. McCauley, J. Barkach, and M. Garton. Dennis McCauley (Great Lakes Environmental Center, Inc./USA)</p>	<p>Assessment of Contaminants in Combined Sewer Overflows in New York City: Establishing a Basis for Superfund Characterization. E.A. Garvey, S. Ghondo-Tugbawa, C. Prabhu, and E. Mahoney. Edward A. Garvey (Louis Berger/ USA)</p>	<p>Lower Passaic River (RM 10.9) Early Action: Evaluation of Remedial Design Data and Implications for River-Wide Remedy Development. M. Greenblatt and J. Connolly. Marcia Greenblatt (Integral Consulting, Inc/USA)</p>	<p>Geotechnical Design Considerations for Dredging and Capping. J.F. Beech, M. Zhu, D. Nicholas, and A. Ebrahimi. Jay Beech (Geosyntec Consultants/ USA)</p>
<p>A9. Stabilization</p>		<p>C9. Remediation of Urban Waterways</p>		<p>How Much Data? Supporting the Decision-Making Process for the Berry's Creek Study Area Remedial Investigation/Feasibility Study (RI/FS). D. Tomchuk and P.P. Brussock. Doug Tomchuk (U.S. EPA, Region 2/USA)</p>	<p>Using Surface-Area Weighted Average Concentrations (SWACs) and Geomorphology to Identify Potential Sediment Remediation Areas. C. Draper, J. Kern, T. Glover, T. Parks, M. Piytula, and L. Venne. Cynthia Draper (AMEC Environment & Infrastructure, Inc./USA)</p>
<p>D10. Geomorphological and Geotechnical Assessment</p>		<p>E9. Contaminant Degradation via In Situ Treatment</p>		<p>Suppression of Methylmercury Production in, and Release from, Sediments Using Ferric Oxide. S. Klein. Stephen M. Klein (Benthiqa/USA)</p>	<p>Methylmercury Control via Nitrate Addition at Onondaga Lake: From Pilot Test to Full-Scale, Long-Term Implementation. J. Nolan, D. Babcock, and D. Matthews. John Nolan (Parsons/USA)</p>
<p>LUNCH</p>		<p>LUNCH</p>		<p>Case Histories of Sediment Dredging around Retaining Structures. D. Nicholas, J. Beech, and M. Zhu. Ming Zhu (Geosyntec Consultants/ USA)</p>	<p>LUNCH</p>

THURSDAY AFTERNOON PLATFORM SESSIONS

THURSDAY

	A Sessions Grand Ballroom D (Fifth Floor)	B Sessions Grand Ballroom E (Fifth Floor)	C Sessions Grand Ballroom A (Fifth Floor)	D Sessions Grand Ballroom B (Fifth Floor)	E Sessions Borgne (Third Floor)
1:00	<p>Creating a Realistic Context to Support the Beneficial Use of Dredged Material in Construction Projects. <i>D.G. Grubb, S.E. Petron, and B.K. Hope.</i> Dennis G. Grubb (GH2M HILL/USA)</p> <p>Beneficial Use and Long-term Use of a Confined Disposal Facility. <i>K. Potrykus, S. Laszewski, S. Lehrke, J. Starke, and D. Haen.</i> Ken Potrykus (Foth/USA)</p>	<p>The Perfect is the Enemy of the Good: A Rational Approach to PCB Cleanup Goals and Source Control for San Francisco Bay. <i>B. DeShields, M. Pattanayek, P. Spadaro, and N. van Aelstyn.</i> Bridgette R. DeShields (Integral Consulting Inc./USA)</p> <p>Developing a Useful and Restoration-Based PCB Cleanup Goal: A Multiple Lines of Evidence Approach for the Manistique Area of Concern. <i>A. Mucha, M. Mills, L. Burkhard, K. Gustavson, C. Roth, J. Canar, and S. Cieniawski.</i> Amy Pelka Mucha (U.S. EPA/USA)</p>	<p>Lessons Learned in Quantification of Dredge Volumes: A Hydrographic Surveyor's Perspective. <i>P. Diemer and S. Goetz.</i> Peter Diemer (AECOM/USA)</p> <p>Development and Implementation of a Water Quality Monitoring Program for Dredging and Capping Activities on Onondaga Lake. <i>S. Haffey, C. Peirah, J. Ryan, M. Smith, J. Deter, K. Powell, R. Mohan, B. Hague, and L. Somer.</i> Samuel Haffey (Anchor QEA, LLC/USA)</p>	<p>Analysis of Recontamination Following Completion of Sediment Remediation Projects: An Update. <i>S.C. Nadeau and M.M. Skaggs.</i> Steven C. Nadeau (Sediment Management Work Group/Honigman Miller/USA)</p> <p>Predicted and Observed Postremediation Sediment Quality Trends in Thea Foss Waterway, Tacoma, Washington. <i>T.M. Thornburg, M.L. Henley, and D.B. de Leon.</i> Todd M. Thornburg (Anchor QEA, LLC/USA)</p>	<p>Contaminant Trends in the Lower Passaic River: An Evaluation of Data Sufficiency and Relationships among Media for Use in Decision-Making. <i>J. Iannuzzi, T. Iannuzzi, E. Morrison, and M. Beauchemin.</i> Timothy Iannuzzi (ARCADIS/USA)</p> <p>A Contaminant Mapping Methodology for Remedial Alternatives Assessment on the Lower Passaic River. <i>A. Thorvaldsen, G. Dang, P. Israelsson, J. Connolly, P. Oates, and M. Greenblatt.</i> Alyssa Thorvaldsen (Anchor QEA, LLC/USA)</p>
1:25	<p>Enabling Port Revitalization through Beneficial Use of Contaminated Sediment in the U.S. and Norway: Two Case Studies. <i>R. Gardner, L.J. McShea, M.A. Stiffler, J.P. Doody, J. Laugesen, and K. Næs.</i> Rebecca Gardner (Anchor QEA AS/Norway)</p> <p>Beneficial Reuse of Dredged Material for Sea Level Rise Adaptation in Southwest Brooklyn. <i>R.J. Daoust, E. Westerhof, M. Hayes, and W. Thomas.</i> Wesley Thomas (ARCADIS US/USA)</p>	<p>Evaluation of Toxicity Test Data in Developing Preliminary Remediation Goals. <i>J. Cura, H. Clark, E. Mahoney, E. Leduc, C. Prabhu, and J. Kern.</i> Jerome Cura (Woods Hole Group/USA)</p> <p>Toxicity Reference Values for Mercury and Their Effect on Sediment Cleanup Goals. <i>P. Fuchtsman, M. Sorensen, J. Conder, M. Henning, and V. Magar.</i> Phyllis C. Fuchtsman (ENVIRON International Corp./USA)</p>	<p>Modeling of Dredge Plume Dispersion in Different Marine Environments. <i>K. Cronin, B. van Maren, and C. Jeurken.</i> Katherine Cronin (Deltaires/The Netherlands)</p> <p>Development and Implementation of a Construction Quality Assurance Program for Dredging and Capping Activities on Onondaga Lake. <i>R. Brown, J. Deter, D. Smith, T. Drachenberg, R. Mohan, W. Hague, and L. Sommer.</i> Randy Brown (Anchor QEA, LLC/USA)</p>	<p>Sediment Recontamination Challenges: Polycyclic Aromatic Hydrocarbons and Urban Embayments. <i>A. Geiselbrecht, G. Heavner, and J. Taylor.</i> Allison Geiselbrecht (Floyd/Snyder/USA)</p> <p>PCB Cycling in an Urban River/Estuary. <i>J. Stern.</i> Jeffrey Stern (King County Dept. Natural Resources/USA)</p>	<p>Conceptualization of Kalamazoo River Floodplain Soils and Sediments with Dynamic Cross Sections. <i>E. Thomas, J. Eykholt, T. Parks, C. Draper, H. Fogell, and A. Delvisser.</i> Evan Thomas (AMEC Environment & Infrastructure, Inc./USA)</p> <p>Three-Dimensional Spatial Analysis of 15 Years of Data for the Manistique River Area of Concern Conceptual Site Model. <i>M. Ciarlo, J. Beaver, M. Powell, D. Roznowski, S. Lehrke, and J. Wright.</i> Michael C. Ciarlo (EA Engineering, Science, and Technology, Inc./USA)</p>
1:50	<p>A10. Beneficial Use of Contaminated Sediments</p>	<p>B9. Establishing Remediation Goals</p>	<p>C10. Monitoring and Assessing Effects during Remedy Execution</p>	<p>D11. Recontamination</p>	<p>E10. Geospatial Data Evaluation and Data Visualization</p>
2:15					

The Billion-Dollar Question: Can Urban Master Planning Help Resolve the Cost/Benefit Impasse at Large Contaminated Sediment Sites?

**Closing Roundtable
Thursday, 3:00–4:00 p.m.**

Moderator

Timothy J. Dekker (LimnoTech, Inc.)

Participants

Brian Anderson (The Boeing Company)

Steven S. Brown (The Dow Chemical Company)

Jason Kinnell (Veritas Economic Consulting)

Steve Mathies (ENVIRON)

Gullivar Shepard (Michael Van Valkenburgh Associates, Inc.)

Douglas Tomchuk (U.S. EPA, Region 2)

The Conference will close with a Roundtable open to all Conference participants. The Roundtable will encourage discussion on one of the most vexing questions facing the sediment management community globally: How do governments, companies, and local communities find a shared vision for environmental protection while overcoming the tremendous costs typically associated with cleanup and restoration of large contaminated sediment sites?

It is time for a paradigm shift on how society should approach the resolution of these sites. Perhaps community master planners, who routinely create partnerships between the public and private sectors, possess the unique skills and expertise to resolve the current dilemma posed by cleanup price tags reaching hundreds of millions to billions of dollars. For countless communities around the world, master plans are tangible and specific statements of current conditions, a vision of what the future should look like, and a road map of what is required to get there.

The potential benefits and challenges of community master planning processes will be shared in an open discussion with a distinguished panel of invited experts from the planning, industry, restoration, and regulatory communities. The Roundtable is intended to inspire the global sediment management community to share and debate perspectives and advance the critical discussion relating to the technical and economic realities of addressing contaminated sediment sites. Refreshments will be provided.

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Sabrina Saponaro (Polytechnic University of Milan)
Marc L. Tuchman (U.S. EPA)
Patricia J. White (Battelle) *Steering Committee Coordinator*

Tuesday Platform Sessions

A1. Dredging

Ram Mohan (Anchor QEA, LLC)
Steve C. Shaw (Sevenson Environmental Services, Inc.)

A2. Dredged Material Dewatering Process Improvements

Jerry Vetter (Mobile Dredging & Pumping Company)
Brian E. White (O'Brien & Gere)

A3. Dredged Material Disposal and Containment

John E. Lally (Lally Consulting LLC)
Heather M. VanDewalker (ARCADIS)

A4. Amendments and Other In Situ Treatment Options

Yunzhou (Joe) Chai (The Dow Chemical Company)
Elena Sezenna (Politecnico di Milano)

B1. Site Management Decision Strategies

Ronald D. French (Foth Infrastructure and Environment, LLC)

B2. Integrating Sustainability into the Sediment Management and Decision-Making Process

Eric A. Foote (Battelle)
John P. McAuliffe (Honeywell)

B3. Communication and Facilitation with Stakeholders

Victor S. Magar (ENVIRON)
Steven C. Nadeau (Honigman Miller Schwartz and Cohn LLP)

C1. Sediment Remediation in the Great Lakes Basin

Sanjiv Sinha (Environmental Consulting & Technology, Inc.)
Marc L. Tuchman (U.S. EPA)

C2. Implementation and Assessment: Successes in Sustainable Sediment Management

Amy M.P. Oen (Norwegian Geotechnical Institute)
Eric A. Stern (CDM Smith)

C3. Monitoring and Evaluating Remedy Effectiveness

Andrew K. Bullard (Battelle)
Robert S. Webb (Dalton, Olmsted & Fuglevand, Inc.)

D1. Ecological and Human-Health Risk Assessment

Betsy Ruffle (AECOM)
Lisa Saban (Windward Environmental, LLC)

D2. Field Sampling Approaches and Tools

Robert Gensemer (GEI Consultants, Inc.)
Amy L. Hawkins (U.S. Navy)

D3. Contaminants of Emerging Concern

Mark J. Benotti (Battelle)
Kendrick Jaglal (O'Brien & Gere)

D4. Chemical/Toxicological/Biological Measurements and Monitoring

Jennifer L. Holder (ERM)
Edward Leonard (CDM Smith)

E1. Hydrodynamics

Timothy J. Dekker (LimnoTech, Inc.)
Harry A. Zahakos (Environmental Resources Management)

E2. Sediment Transport and Contaminant Redistribution

Craig A. Jones (Integral Consulting Inc.)
Kirk Ziegler (Anchor QEA, LLC)

E3. Groundwater/Sediment/Surface Water Interactions

Solomon S. Gbondo-Tugbawa (Louis Berger)
Douglas Simmons (AECOM)

E4. Contaminant Fate and Transport

Helder J. Costa (Haley & Aldrich, Inc.)
Kenneth J. Goldstein (Louis Berger)

Wednesday Platform Sessions

A5. Cap Design and Modeling

Joseph M. Jersak (SAO Environmental Consulting AB)
Danny Reible (Texas Tech University)

A6. Cap Construction and Operation

John A. Collins (AquaBlok, Ltd.)
Edward C. Glaza (Parsons)

A7. Hybrid Remedies

Doug Crawford (O'Brien & Gere)
Staci Goetz (AECOM)

B4. Sediment Management under State-Led Programs

John Cargill (DE Dept of Natural Resources & Environmental Control)
Stephen C. Geiger (ERM)

B5. Adaptive Management

Todd S. Bridges (U.S. Army Corps of Engineers)
Richard G. Fox (Natural Resource Technology, Inc.)

B6. Risk-Based Management and Cleanup Decisions

Richard Beach (AMEC E&I)
Richard J. Wenning (ENVIRON)

C4. Innovation and Improvement in the Design Process

Matthew Binsfeld (J.F. Brennan Co. Inc.)
Guy Partch (Barr Engineering)

C5. Habitat and Wetlands Mitigation and Restoration

John P. Lortie (Stantec)
Todd Polacek (Applied Ecological Services, Inc.)

C6. Evaluating Cap Performance

Richard Weber (Natural Resource Technology, Inc.)
Heather Williams (U.S. EPA)

C7. Estimating Costs and Schedules

Michael D. Crystal (Sevenson Environmental Services, Inc.)
Mark T. Otten (Parsons)

D5. Innovative Characterization and Assessment Tools

Gregory Durell (Battelle)
Damian Shea (North Carolina State University)

D6. Noncontaminant Stressors

Kathryn R. Huibregtse (ENVIRON)
Kenneth Simon (EnviroSystems Inc.)

D7. Impacts of Oil and Gas Spills and MGPs

Sean M. Carroll (Haley & Aldrich)
Eugene L. McLinn (Burns & McDonnell)

D8. Source ID and Control

Anne G. Fitzpatrick (AECOM)
Douglas Reid-Green (BASF Corporation)

E5. Ebullition

Karl J. Rockne (University of Illinois)
Thomas R. Stolzenburg (TRC Environmental Corporation)

E6. Contaminant Bioavailability and Uptake

Amanda Maxemchuk (Battelle)
David W. Moore (ENVIRON)

E7. Contaminant Partitioning

Marcia M. Galloway (Ecology and Environment, Inc.)
Mary Miller (Anchor QEA, LLC)

E8. MNR and Enhanced MNR

Karl Gustavson (U.S. Army Corps of Engineers)
George Hicks (CH2M HILL)

Thursday Platform Sessions**A8. Ex Situ Treatment Options**

Timothy M. Donegan (Sevenson Environmental Services, Inc.)
Dennis G. Grubb (CH2M HILL)

A9. Stabilization

Shane Blauvelt (Parsons)
Kristine Carbonneau (CH2M HILL)

A10. Beneficial Use of Contaminated Sediments

Thomas Bajko (Ryba Marine Construction Co.)
Lisa Lefkovitz (Battelle)

B7. Defining Background

Sandip Chattopadhyay (Tetra Tech, Inc.)
Patricia J. White (Battelle)

B8. Sediment Quality Guidelines and TMDLs

Todd W. King (CDM Smith)
Daniel F. Vicari (Gary Sanitary District)

B9. Establishing Remediation Goals

Deirdre T. Dahlen (Battelle)
Dwight E. Leisle (Port of Portland)

C8. Sediment Cleanup Challenges for Ports and Municipalities

Kelly Madalinski (Port of Portland)
Philip A. Spadaro (The Intelligence Group)

C9. Remediation of Urban Waterways

Scott E. Thompson (The Louis Berger Group, Inc.)
Jennifer Wollenberg (The ELM Group)

C10. Monitoring and Assessing Effects during Remedy Execution

William J. Haswell (Haley & Aldrich, Inc.)
Robert Law (de maximis, inc.)

D9. Contaminant Forensics

Dennis Beckmann (BP Remediation Engineering)
Edward A. Garvey (The Louis Berger Group, Inc.)

D10. Geomorphological and Geotechnical Assessment

Ernest C. Ashley (CDM Smith)
Kwasi Badu-Tweneboah (Geosyntec Consultants)

D11. Recontamination

Jamie Beaver (EA Engineering, Science, and Technology, Inc.)
Stuart Messur (Anchor QEA, LLC)

E9. Contaminant Degradation via In Situ Treatment

John H. Hull (Hull & Associates, Inc.)
Marc A. Mills (U.S. EPA)

E10. Geospatial Data Evaluation and Data Visualization

Steven S. Brown (The Dow Chemical Company)
Susan B. Kane Driscoll (Exponent, Inc.)

Panel Discussions

Tuesday—Track B
Finding the Right Balance in Remedy Selection between Sound Science, Politics, Stakeholders and Cost Effectiveness
Stephen Ells (U.S. EPA)

Tuesday—Track C
The Great Lakes Legacy Act: Using the Cost-Sharing Approach to Implement Contaminated Sediment Cleanup Projects
Mark Tuchman (U.S. EPA)
Steven C. Nadeau (Honigman Miller Schwartz and Cohn LLP)

Wednesday—Track A
Contaminated Sediments Management from the Contractor Perspective: Design Innovation, Process Optimization and Overcoming Surprises
Mark Binsfeld (J.F. Brennan Company, Inc.)

Wednesday—Track B
Interagency Coordination: Integration of Regulatory Authorities to Optimize Sediment Remediation and Restoration
Stephen Geiger (ERM)

Thursday—Closing Roundtable
The Billion-Dollar Question: Can Urban Master Planning Help Resolve the Cost/Benefit Impasse at Large Contaminated Sediment Sites?
Timothy J. Dekker (LimnoTech, Inc.)

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2015 BIOREMEDIATION SYMPOSIUM

Third International Symposium on Bioremediation and Sustainable Environmental Technologies

May 18–21, 2015 | Miami, Florida

The Symposium program is comprised of more than 550 platform and poster presentations in 62 sessions. The sessions and the four panels are organized into the following tracks:

- ▶ Bioremediation Technologies
- ▶ Bioremediation Implementation Practices
- ▶ Biodegradation of Emerging Contaminants
- ▶ Application of Bioremediation to Complex Sites
- ▶ Advances in Natural Attenuation
- ▶ Advanced Tools for Assessing Bioremediation
- ▶ Biodegradation and Remediation of Crude Oil in Different Environments
- ▶ Managing Petroleum Hydrocarbon Sites
- ▶ Biological Processes in Unconventional Oil and Natural Gas Development
- ▶ Microbial-Based Alternative Energy
- ▶ Green and Sustainable Remediation (GSR)
- ▶ Sustainable Site Management Strategies
- ▶ Munitions Site Management
- ▶ Evaluating and Mitigating Vapor Intrusion
- ▶ Bioremediation in International Settings

The Preliminary Program will be available at www.battelle.org/biosymp by January 30, 2015. Eight short courses will be offered on May 18.

Exhibit or sponsorship information:
301-670-4990 | bioremediation2015@scgcorp.com

Symposium Sponsors



www.battelle.org/biosymp

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2016 CHLORINATED CONFERENCE

Tenth International Conference on Remediation of Chlorinated and Recalcitrant Compounds

May 23–26, 2016 | Monterey, California

The Chlorinated Conference is one of the world's largest and most comprehensive meetings on the application of innovative and existing technologies and approaches for characterization, monitoring and management of chlorinated and complex sites. The 2014 Conference was attended by 1,650 environmental professionals from 28 countries. Nearly 900 platform talks and posters were presented in 68 breakout sessions, and six panels were conducted.

The major thematic areas expected to be addressed in 2016 are:

- ▶ Management and Restoration of Complex Sites
- ▶ Refining the Conceptual Site Model – When Is It Enough?
- ▶ Advanced Diagnostic Tools and Strategies
- ▶ Emerging and Persistent Issues
- ▶ Vapor Intrusion
- ▶ Metals
- ▶ Munitions Response and Site Management
- ▶ Adopting and Applying Risk-Based Approaches
- ▶ Combining Remedies to achieve Remedial Action Objectives
- ▶ Lessons Learned from Source Zone Remediation
- ▶ Remediation of Bedrock and Fractured Media
- ▶ Remediation Technology Innovations
- ▶ Advances in In Situ Amendment Formulations
- ▶ Amendment Delivery–Lessons Learned and Innovative Approaches
- ▶ Management Strategies–Successes and Lessons Learned
- ▶ Technology Development, Transfer, and Regulatory Acceptance

The 2016 Call for Abstracts brochure will be available at www.battelle.org/chlorcon in April 2015.

Exhibit or sponsorship information:
301-670-4990 | chlorinated2016@scgcorp.com

www.battelle.org/chlorcon

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TUESDAY, JANUARY 13, 2015

7:00 a.m.-7:00 p.m. Registration, Exhibits,
Poster Group 1 Display
7:00-8:00 a.m. Continental Breakfast
Lunch scheduled within each track

8:00 a.m.-5:35 p.m. Platform Sessions

- A1. Dredging
- A2. Dredged Material Dewatering Process Improvements
ITRC Remedy Selection Guidance Document Demonstration
(12:15-12:45 p.m., during lunch break)
- A3. Dredged Material Disposal and Containment
- A4. Amendments and Other In Situ Treatment Options

- B1. Site Management Decision Strategies
- B2. Integrating Sustainability into the Sediment Management and Decision-Making Process
- B3. Communication and Facilitation with Stakeholders
PANEL. Finding the Right Balance in Remedy Selection between Sound Science, Politics, Stakeholders and Cost Effectiveness

- C1. Sediment Remediation in the Great Lakes Basin
PANEL. The Great Lakes Legacy Act: Using the Cost-Sharing Approach to Implement Contaminated Sediment Cleanup Projects
- C2. Implementation and Assessment: Successes in Sustainable Sediment Management
- C3. Monitoring and Evaluating Remedy Effectiveness

- D1. Ecological and Human-Health Risk Assessment
- D2. Field Sampling Approaches and Tools
- D3. Contaminants of Emerging Concern
- D4. Chemical/Toxicological/Biological Measurements and Monitoring
- E1. Hydrodynamics
- E2. Sediment Transport and Contaminant Redistribution
- E3. Groundwater/Sediment/Surface Water Interactions
- E4. Contaminant Fate and Transport

WEDNESDAY, JANUARY 14, 2015

7:00 a.m.-7:00 p.m. Registration, Exhibits,
Poster Group 2 Display
7:00-8:00 a.m. Continental Breakfast
Lunch scheduled within each track

8:00 a.m.-5:35 p.m. Platform Sessions

- A5. Cap Design and Modeling
- A6. Cap Construction and Operation
PANEL. Contaminated Sediment Management from the Contractor Perspective: Design Innovation, Process Optimization and Overcoming Surprises
- A7. Hybrid Remedies

- B4. Sediment Management under State-Led Programs
PANEL. Interagency Coordination: Integration of Regulatory Authorities to Optimize Sediment Remediation and Restoration
- B5. Adaptive Management
- B6. Risk-Based Management and Cleanup Decisions

- C4. Innovation and Improvement in the Design Process
- C5. Habitat and Wetlands Mitigation and Restoration
- C6. Evaluating Cap Performance
- C7. Estimating Costs and Schedules

- D5. Innovative Characterization and Assessment Tools
- D6. Noncontaminant Stressors
- D7. Impacts of Oil and Gas Spills and MGPs
- D8. Source ID and Control

- E5. Ebulition
- E6. Contaminant Bioavailability and Uptake
- E7. Contaminant Partitioning
- E8. MNR and Enhanced MNR

THURSDAY, JANUARY 15, 2015

7:00 a.m.-1:00 p.m. Registration, Exhibits,
Poster Group 2 Display
7:00-8:00 a.m. Continental Breakfast
Lunch scheduled within each track

8:00 a.m.-2:40 p.m. Platform Sessions

- A8. Ex Situ Treatment Options
- A9. Stabilization
- A10. Beneficial Use of Contaminated Sediments

- B7. Defining Background
- B8. Sediment Quality Guidelines and TMDLs
- B9. Establishing Remediation Goals

- C8. Sediment Cleanup Challenges for Ports and Municipalities
- C9. Remediation of Urban Waterways
- C10. Monitoring and Assessing Effects during Remedy Execution

- D9. Contaminant Forensics
 - D10. Geomorphological and Geotechnical Assessment
 - D11. Recontamination
 - E9. Contaminant Degradation via In Situ Treatment
 - E10. Geospatial Data Evaluation and Data Visualization
- 3:00-4:00 p.m. Closing Roundtable

5:45-7:00 p.m. Poster Group 1 Presentations
and Reception
See page 14 for sessions in Poster Group 1.

7:00-8:30 p.m. Student Mixer

5:45-7:00 p.m. Poster Group 2 Presentations
and Reception
See page 22 for sessions in Poster Group 2.

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www.eventmobi.com/2015sediments

