January 27-30, 2025 | Tampa, Florida

Twelfth International Conference on the Remediation and Management of Contaminated Sediments

FINAL PROGRAM

battelle.org/sedimentscon
#BattelleSediments25

BATTELLE

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Twelfth International Conference on the Remediation and Management of Contaminated Sediments

Welcome to Tampa! Thank you for attending the 2025 Sediments Conference.

We are so grateful for your participation, and we are excited to gather and discuss advances, innovations, and solutions for the pressing technical challenges that we confront each day in our aquatic systems management work.

This work requires engagement across diverse groups of stakeholders representing environmental, economic, political, and social dimensions. The 2025 technical program reflects this multi-dimensional approach and includes sessions and panel discussions focused on emerging contaminants and critical considerations in sediment management and remediation, including characterization and management of PFAS, beneficial use of contaminated sediments, advanced data analytics to improve decision-making and remedy design, and incorporating environmental justice from project inception through completion stages.

We acknowledge and appreciate the participation of the Conference Sponsors seen to the left whose financial support is integral to Battelle's ability to organize and host the Conference. In addition, we recognize the efforts of the Technical Steering Committee, Session Chairs, panel organizers, short course instructors, and others, who have committed their time and technical expertise to developing a high-quality program. Our sincere thanks are also extended to the hundreds of platform and poster presenters who are responsible for all the research, hard work, and innovation that will be shared in individual presentations over the course of this week. We are eager to see and hear all the updates and advancements in the field since we gathered last!

On Monday, January 27, our Conference commences with seven short courses plus a Career Panel Discussion and Career KickStarter for students and young professionals. The Plenary Session, featuring Davis "Yellowash" Washines, will be presented at 5:30 p.m. (Salons E/F, Grand Ballroom, Tampa Marriott Water Street). All attendees, including Exhibitors, are invited to attend the Plenary Session. The Welcome Reception will be held in the Exhibit Hall (Tampa Bay Ballroom, JW Mariott) immediately following the Plenary Session and will feature refreshments, exhibit booths, and an early display of Group 1 Posters.

From Tuesday, January 28, through Thursday, January 30, nearly 400 platform and poster presentations will be presented in 88 breakout sessions. Six panel discussions, nine Learning Lab presentations, and four Lunch & Learn presentations will also be conducted. Posters will be presented in two groups on Tuesday and Wednesday evenings from 5:45-7:00 p.m.

On Thursday afternoon, January 30, attendees are invited to attend a Closing Panel discussion from 2:45-4:00 p.m. This panel will provide a summary of major topics and themes from each of the five technical tracks from the Conference Program while also touching on research needs, innovative approaches, and upcoming challenges in the contaminated sediments field. The Closing Panel will be followed by a final networking reception.

In your free time, we hope you enjoy exploring the arts, music, and local cuisine of Tampa.

We are happy you are here with us and look forward to seeing old friends and colleagues, meeting new people, encouraging and mentoring students and young professionals, and learning more about this important work we do every day.

Eliza Kaltenberg and Sam Moore | Conference Program Chairs (Battelle)

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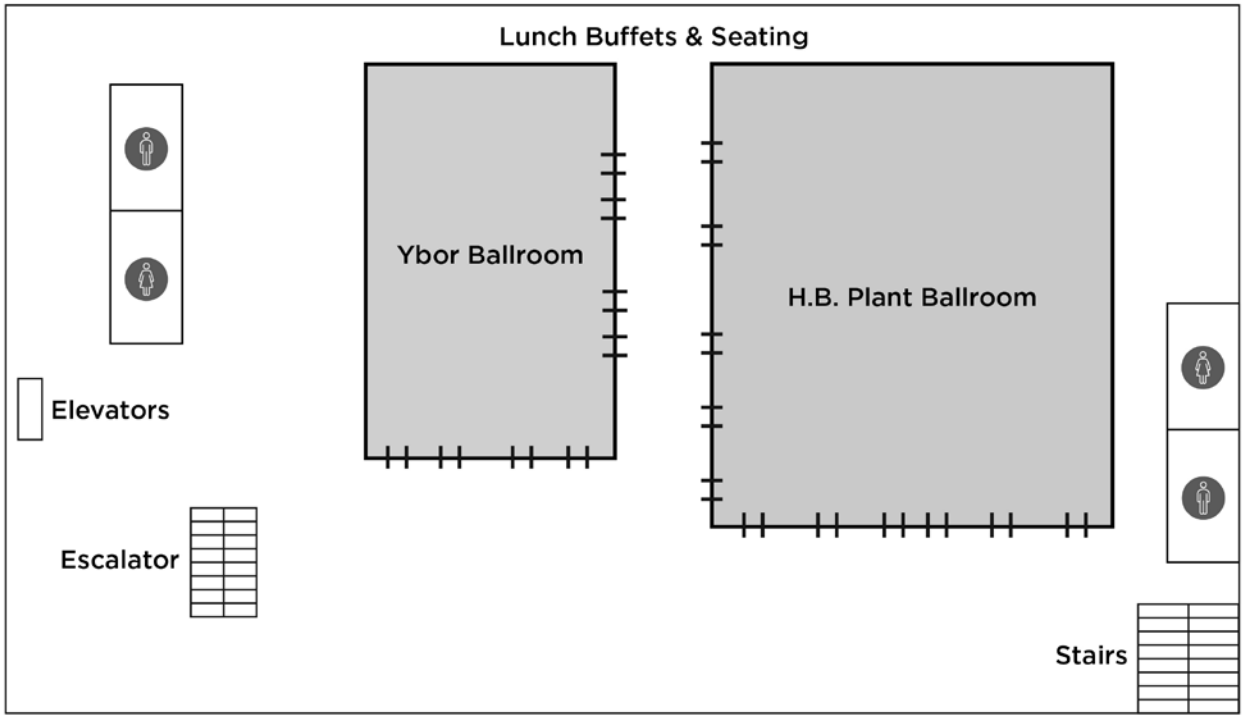
Conference Floor Plan

JW Marriott (2nd Floor)

Lunch Buffets & Seating—
H.B. Plant and Ybor Ballrooms



Skybridge

JW Marriott (3rd Floor)
Tampa Marriott (2nd Floor)
Connects the two hotels for easy access.

Tampa Marriott Water Street (2nd Floor)

Session Rooms—
Marriott Grand Ballroom

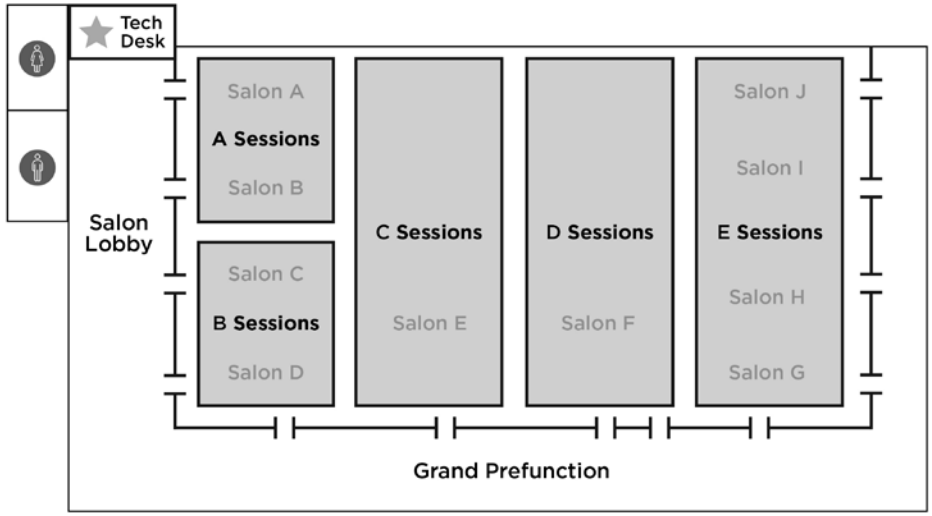


Exhibit Hall (4th Floor)

JW Marriott, Tampa Bay Ballroom

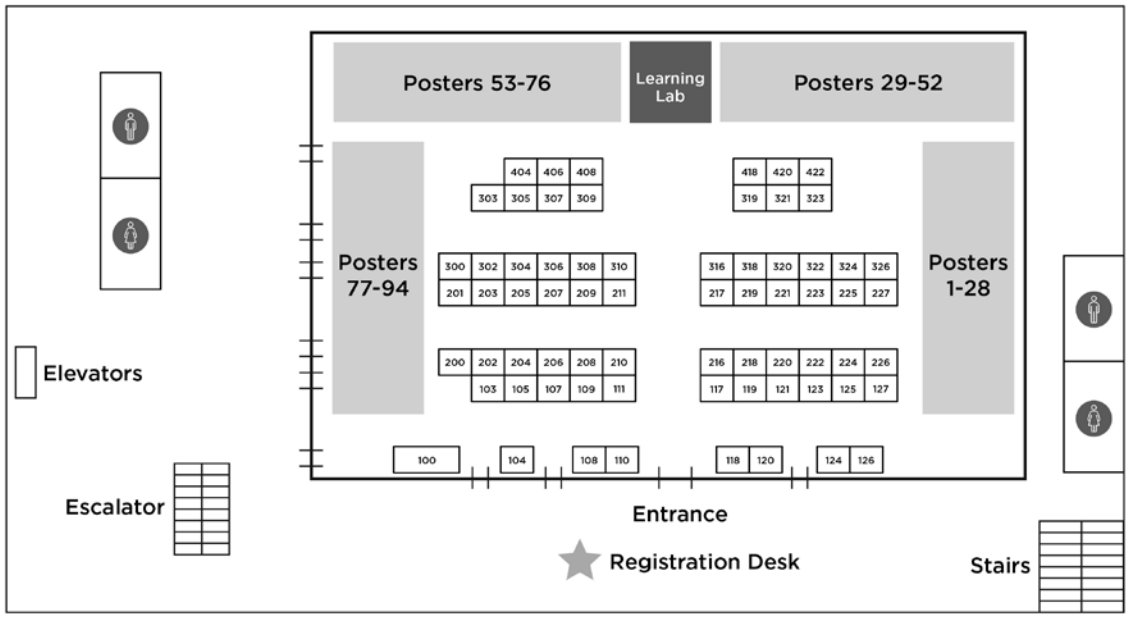


Exhibit Hours

Monday, January 27: 7:00–8:30 p.m.

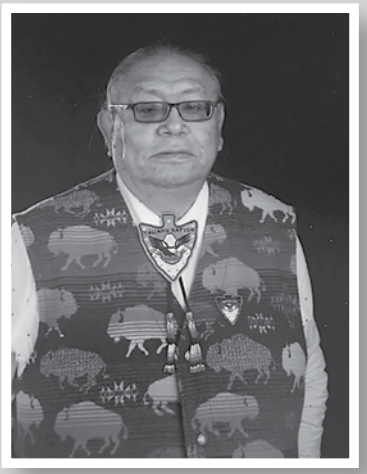
Tuesday, January 28: 7:00 a.m.–7:00 p.m.

Wednesday, January 29: 7:00 a.m.–7:00 p.m.

Thursday, January 30: 7:00 a.m.–1:00 p.m.

Conference Sponsors are shown in bold.

Plenary Session—Grand Salon E/F, Tampa Marriott Water Street (2nd Floor)



Davis "Yellowash" Washines is a member of the Yakama Nation and a Government Relations Liaison in the Yakama Nation Department of Natural Resources Fisheries Resource Program's Superfund Section, where he communicates and coordinates the toxic cleanup efforts of the Columbia River Basin with numerous federal, tribal, state and local governments and their agencies. He is on the Board of Trustees for Pacific Northwest University of Health Sciences as well as Vice Chair of the Native American Advisory Board for the Burke Museum at the University of Washington.

Plenary Session Schedule

Monday, January 27, 5:30–7:00 p.m.

Welcome and Opening Remarks
Conference Chairs:
Eliza Kaltenberg, Ph.D. (Battelle)
Sam Moore (Battelle)

Plenary Speaker
Davis "Yellowash" Washines

Incorporating Indigenous Traditional Ecological Knowledge (TEK) Perspectives: Cleanup and Recovery of Toxic Sediment Sites in the Columbia River Basin

Yellowash retired from law enforcement in 2014 after more than 30 years of service, including three terms as Chief of Police for the Yakama Nation and the Columbia River Inter-Tribal Fish Commission. He has served on the Executive Board of the Yakama Tribal Council and on Yakama General Council as Executive Chair. As a youth educator, he directed the Yakama Nation Youth Summer Camp for several years and was a paraprofessional and middle school guidance counselor for the Wapato School District, as well as a Yakama language instructor at the high school.

He carries the Oglala Lakota name of "Yello-Wash-Tay" bestowed by a Lakota elder at Crazy Horse School, Pine Ridge, South Dakota, in 1995 at a traditional gathering. Yellowash has called upon the tribal communities of the region to conduct traditional ceremonies because of his knowledge of his native language, cultural and oral traditional history of native people, and local land and natural resources. As a recognized traditional knowledge keeper and speaker, he provides the Yakama Nation's perspective regarding its time immemorial connection to the water, land, and all other natural resources to other governments and agencies, including the Yakama Nation's U.S. Constitutionally guaranteed legal rights as protected by virtue of the US-Yakama Treaty of 1855 (12 Stat.951).

In his plenary address, Yellowash will introduce and present the internationally acclaimed film, "Land of the Yakamas," and provide insights about the film. He will also provide context and a unique perspective to the importance of sediments work with emphasis on the importance of water bodies and the preservation and restoration of natural habitats.

All attendees, including Exhibitors, are invited to attend the Plenary Session.

NOTES

General Information

All Conference events will be held at the at the JW Marriott Tampa Water Street (510 Water St, Tampa, FL 33602) and Tampa Marriott Water Street (505 Water Street, Tampa, FL, 33602).

A skybridge connects the two hotels; the access point is located on the 3rd floor of the JW Marriott and the 2nd floor of the Tampa Marriott.

See the following pages for additional information:
- Page 11: Short Courses offered on Monday
- Page 32: Overview of the platform sessions and panels to be conducted each day. Times for exhibits, breakfasts, lunches, and receptions.

Program Overview

Monday, January 27

- **8:00 a.m.-5:00 p.m.** All-Day Short Courses
- **8:00 a.m.-12:00 p.m.** Morning Short Courses
- **1:00-2:40 p.m.** Career Panel Discussion
- **1:00-5:00 p.m.** Afternoon Short Courses
- **2:00-8:30 p.m.** Registration Desk Open
- **3:00-5:00 p.m.** Career KickStarter
- **5:30-7:00 p.m.** Plenary Session
- **7:00-8:30 p.m.** Welcome Reception, Exhibits, Group 1 Poster Display

Tuesday, January 28

- **7:00 a.m.-7:00 p.m.** Registration Desk Open
- **7:00-8:00 a.m.** Continental Breakfast
- **8:00 a.m.-5:35 p.m.** Platform Presentations
- **9:30-10:00 a.m.** Morning Beverage Break
- **11:30 a.m.-1:00 p.m.** General Lunch
- **3:00-3:30 p.m.** Afternoon Beverage Break
- **5:45-7:00 p.m.** Group 1 Poster Presentations and Reception

Wednesday, January 29

- **7:00 a.m.-7:00 p.m.** Registration Desk Open
- **7:00-8:00 a.m.** Continental Breakfast
- **8:00 a.m.-5:35 p.m.** Platform Presentations
- **9:30-10:00 a.m.** Morning Beverage Break
- **11:30 a.m.-1:00 p.m.** General Lunch
- **3:00-3:30 p.m.** Afternoon Beverage Break
- **5:45-7:00 p.m.** Group 2 Poster Presentations and Reception

Thursday, January 30

- **7:00 a.m.-4:00 p.m.** Registration Desk Open
- **7:00-8:00 a.m.** Continental Breakfast
- **8:00 a.m.-2:40 p.m.** Platform Presentations
- **9:30-10:00 a.m.** Morning Beverage Break
- **11:30 a.m.-1:00 p.m.** General Lunch
- **2:55-4:00 p.m.** Closing Panel Wrap-Up Discussion
- **4:00-4:45 p.m.** Closing Reception

Presentations

Platform presentations scheduled as of January 6, are listed by day on pages 16-26.

Program changes made after January 6, will be reflected in the Conference app and the online program.

Platform talks are scheduled at 25-minute intervals. Each talk is to begin promptly at the time printed in the schedule. Session chairs will adhere strictly to the schedule, making it possible for registrants to move between breakout rooms to hear the talks most pertinent to them. To minimize distraction, please confine such movement to the short intervals between talks. Revisions and changes will be reflected in the digital session room signage positioned in the hallways between session rooms.

All poster listings and board numbers may be found only in the Conference app. Go to the "Program" tab and filter by "Type" for "Poster."

Group 1 Posters
Display: Monday 7:00 p.m.–Tuesday 7:00 p.m.
Presentations: Tuesday 5:45–7:00 p.m.

Group 2 Posters
Display: Wednesday 7:00 a.m.–Thursday 1:00 p.m.
Presentations: Wednesday 5:45–7:00 p.m.

General Attendance Certificate. If you would like to receive a general certificate of Conference attendance sign up at the Registration Desk. PDF certificates will be emailed after the Conference. Certificates will not include number of attendance hours.

Photo/Video Policy. Audio, video, and still photography are prohibited in session rooms during platform presentations or panel discussions without FIRST securing the speaker(s) permission and notifying the session chair or panel moderator in advance.

Video and still photography of poster board presentations are also prohibited without FIRST securing author/speaker permission.

Exhibits

(JW Marriott, Tampa Bay Ballroom, 4th Floor)

Booths will be displayed by organizations that conduct remediation activities or supply equipment used in such work. Exhibits will be on display from 7:00 p.m. Monday evening through 1:00 p.m. Thursday afternoon. See page 5 for exhibit hours and the list of exhibitors.

Daily continental breakfasts, beverage breaks, and refreshments for poster receptions will be served in the Exhibit Hall.

Ad Hoc Meeting Rooms

Small meeting rooms are available for ad hoc meetings. Come to the Conference Registration Desk for room details and to reserve a time. Rooms may be reserved in 30-minute increments for up to 2 hours. Rooms are not set with AV equipment and will be set conference-style for 10-12 people.

Messages, Job Postings, Lost & Found

A message board will be available near the Registration Desk. Notices about jobs available or wanted may be posted here. This board also will be used for messages taken by the registration staff for attendees. Please turn any found items into the Registration Desk. Lost items may be picked up with a detailed description of the item.

WIFI

Complimentary wireless Internet access is available in the Exhibit Hall and session rooms.

Tampa Marriott Network Name: MarriottBonvoy_Conference

JW Marriott Network Name: JWMarriott_CONFERENCE

Password (case-sensitive): Sediments25

Learning Lab/Lunch & Learn Schedule (Exhibit Hall)

Learning Lab and Lunch & Learn listings may be found in the Conference app. Go to the "Program" tab and filter by "Type" for "Learning Lab" or "Lunch & Learn." Scheduled times may also be seen below. Look for the Learning Lab and Lunch & Learn symbols seen to the right in the left-hand margin throughout the platform schedule grids for a reminder when a Learning Lab or Lunch & Learn is scheduled.

Tuesday, January 28

- **8:50-9:15 a.m.**—OPTICS Insight: Adding Resolution to Your COC Data
- **9:40-10:05 a.m.**—3D Visualization and Analysis Software Demonstration
- **10:30-10:55 a.m.**—Real Time Turbidity Monitoring: Its Attributes and Lessons Learned from Multiple Deployments
- **11:20-11:45**—Digital Data Collection with QNOPY
- **12:10-1:00 p.m.**—**Lunch & Learn**—In Situ Solidification/Stabilization (ISS) of Contaminated Sediments: A Discussion on State of the Practice
- **1:25-2:15 p.m.**—**Lunch & Learn**—Quality Assurance Approaches for Sediment Characterization and Remedial Programs
- **2:40-3:30 p.m.**—Do I Need Powdered Activated Carbon and How Can I Get It Down and Spread It Uniformly?

Wednesday, January 29

- **8:50-9:15 a.m.**—Real Time Turbidity Monitoring: Its Attributes and Lessons Learned from Multiple Deployments
- **9:40-10:05 a.m.**— 3D Visualization and Analysis Software Demonstration
- **11:20-12:10 p.m.**—**Lunch & Learn**—Managing Debris for Environmental Dredging Projects
- **12:35-1:25 p.m.**—**Lunch & Learn**—Hydraulic Dredge Options for Restoring the Environmental and Economic Vitality of Waterways and Aquatic Systems
- **3:05-3:30 p.m.**—OPTICS Insight: Adding Resolution to Your COC Data
- **3:55-4:20 p.m.**— Digital Data Collection with QNOPY

Learning Lab Sponsor

lallyconsulting.com | Booth #219

Mobile App & Abstract Collection

Abstracts will be available only through the Conference mobile app. Due to the size of the program—six panel discussions and nearly 400 platform talks and poster presentations—it is recommended that attendees review the schedule and abstracts prior to the Conference.

Abstracts are included for all platform and poster presentations and panel discussions. The app may be used to build a personal schedule, take notes on presentations, and highlight favorite Exhibitors. In addition, you have the option of entering your profile to enhance networking opportunities with other participants, including sending private instant messages and scheduling meetings, if enabled.

Proceedings

All presentations given at the Conference will be represented in the proceedings. The one-page abstract will be supplemented with the slide files for platform presentations. Poster presenters have also been invited to submit PDFs of their poster presentations. After the Conference, the proceedings will be compiled and published only online.

Meals, Breaks, & Receptions

For the convenience of Conference participants, the meals, breaks, and light receptions, seen to the right, will be provided at no additional cost to program registrants and exhibit booth staff during the food service times listed.

Food service for breakfasts, morning and afternoon beverage breaks, and receptions will be in the Exhibit Hall.

Buffet lunches will be served in H.B. Plant and Ybor Ballrooms (JW Marriott, 2nd Floor) to accommodate seating.

The Closing Reception will be served in the Grand Ballroom (Tampa Marriott) prefunction area just outside the session rooms immediately following the Closing Panel Discussion.

For other meals and refreshments not provided by the Conference, many options are available in both the JW and Tampa Marriott as well as nearby.

Guest Tickets. If registrants wish to bring guests to meals or receptions, guest tickets can be purchased at the Registration Desk; guest tickets will be priced equal to the cost incurred by the Conference for each meal.

Closing Reception Sponsors

Food Service Times

Breaks between sessions may not directly correspond with food and beverage service times. If you wish to attend specific functions, please plan your schedule accordingly.

Continental Breakfast
Tuesday-Thursday, 7:00–8:00 a.m.

Morning Beverage Break
Tuesday-Thursday, 9:30–10:00 a.m.

Buffet Lunches
Tuesday-Thursday, 11:30 a.m.–1:00 p.m.

Afternoon Beverage Break
Tuesday-Wednesday, 3:00–3:30 p.m.

Welcome Reception
Monday, 7:00–8:30 p.m.

Group 1 Poster Presentations & Networking Reception
Tuesday, 5:45–7:00 p.m.

Group 2 Poster Presentations & Networking Reception
Wednesday, 5:45–7:00 p.m.

Closing Reception
Thursday, 4:00–4:45 p.m.

Short Course Schedule

Limited onsite Short Course registration may be available. Come to the Conference Registration desk one hour in advance of your preferred course to see if space is available.

Short Course registrants may pick up their badge, sign in for their course, and be directed to the course room at the Conference Registration Desk up to one hour prior to the course start time.

Monday, January 27, 8:00 a.m.-5:00 p.m.

- ASTM Sediment Guidance Training

Monday, January 27, 8:00 a.m.-12:00 p.m.

- Dredging 201: Introduction to Sediment Remediation
- Environmental Forensics: Origin, History, Fate and Characterization of Contaminants
- ITRC Sediment Capping Chemical Isolation Design, Construction, and Monitoring

Monday, January 27, 1:00-5:00 p.m.

- Evaluating Sediment Transport: Best Practices, Tools, Techniques, and Application to Site Management
- PFAS and Sediment: Background, Sampling, and Transport
- *Training on Using the CapSIM Model for In Situ Remediation Design

** Indicates a "laptop-required" course.*

Education Sponsor

WEDA
Western Dredging Association
westerndredging.org

Student/Young Professional Participation & Events

University students through Ph.D. candidates will find participation in the Conference valuable to their career development. 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. Recruitment is a major focus of many participating Exhibitors and Sponsors and the Conference will provide enhanced networking opportunities for student jobseekers. Be sure to check the Message Board near the Registration Desk where job postings may be available from participating companies.

Student Poster Competition

Students with abstracts accepted for the technical program as poster presentations were given the opportunity to participate in a poster competition.

Posters will be judged by a panel of experts and 1st, 2nd, and 3rd place winners will be selected and announced at the Closing Panel Discussion.

Career Development, Direction, and Growth Panel Discussion

Monday, January 27, 1:00-2:40 p.m.

(JW Marriott, Manatee Room, 4th Floor)

Open to all students and young professionals.

Attendees will hear perspectives on career direction from a variety of different industry stakeholders and will come away with strategies they can employ to direct their own practice to grow and advance their careers.

Career KickStarter

Monday, 3:00-5:00 p.m.

(JW Marriott, Hillsborough Room, 4th Floor)

Pre-registration was required to match mentors/mentees.

The Career KickStarter is a program designed to foster networking and mentorship within the environmental sector. New professionals will be matched with an experienced professional in a mentorship relationship, which both mentee and mentor are committed to sustaining for 1 year.

Student Events Sponsors

HGL
hgl.com | Booth #326

Jacobs
jacobs.com

Program Committee, Session Chairs & Panel Moderators

Program Committee

Conference Chairs

Eliza Kaltenberg, Ph.D. (Battelle)
Sam Moore (Battelle)

Technical Steering Committee

Nicolette Andrzejczyk, Ph.D. (U.S. Navy/NAVFAC EXWC)
Chance Asher (Washington State, Department of Ecology)
Helder Costa (Haley & Aldrich, Inc.)
Kristen Kerns (U.S. Army Corps of Engineers)
Janet Knox, LG (Mott MacDonald)
Lisa Lefkovitz, PMP (Battelle)
Chris McCarthy, CSE, IBERA Diplomate (Jacobs)
Marc A. Mills, Ph.D. (U.S. EPA, Office of Research and Development)
Ram Mohan, Ph.D., PE, F.ASCE (Anchor QEA & University of Georgia IRIS)
Roger Santiago (Canada Water Agency)

TUESDAY PLATFORM SESSIONS

A1. Characterization and Remediation of PFAS-Contaminated Sediments
Kavitha Dasu (Battelle)
Andrew Jackson (Texas Tech University)

A2. PFAS Analytical Testing
Rock J. Vitale, CEAC (Environmental Standards, Inc. [a Montrose Environmental Company])
Nasim Pica (Antea Group)

A3. Contaminant Forensics
AmyMarie Accardi-Dey (Tetra Tech, Inc.)
Juliana Atmadja (WSP USA Solutions Inc.)

B1. Contaminant Bioavailability and Bioaccumulation
William Gardiner (U.S. Army Corps of Engineers)
David Walters (U.S. Geological Survey)

B2. Contaminant Fate and Transport in Sediments
Bryon Dahlgren (Battelle)
Timothy Dekker (LimnoTech)

B3. Food Web Studies and Risk Assessment
Jana Heisler White (Battelle)
Christopher McCarthy (Jacobs Engineering)

B4. PFAS Bioavailability, Bioaccumulation, and Risk Assessment
Savannah Volkoff (Geosyntec)
Katherine von Stackelberg (NEK Associates LTD and the Harvard T.H. Chan School of Public Health)

C1. Adaptive Management Approaches
Andrew Bullard (CDM Smith Inc.)
Lisa Tomlinson (Arcadis)

C2. Climate Change Resiliency and Adaptation
Nicolette Andrzejczyk (U.S. Navy/NAVFAC)
Sam Moore (Battelle)

C3. Communication and Facilitation with Interested Parties
Meredith Hayes (Geosyntec Consultants, Inc.)
Kendrick Jaglal (CDM Smith)

C4. Remedial Cleanup Objectives and Approaches for Optimized Remedial Development
George Hicks (Haley & Aldrich, Inc.)
Brian Mastin (AECOM)

D1. Cap Modeling
Moses Ajemigbitse (AquaBlok)
Joseph Caryl (GEI Consultants)

D2. Dredging Design and Dredged Material Handling and Disposal
Tim Donegan (Sevenson)
Amber Wilson (J.F. Brennan Company, Inc.)

D3. Remedial Design Considerations
Wardah Azhar (Parsons Corporation)
Chad Robinson (WSP)

E1. Lessons Learned in Remedy Implementation
Jason Guenther (Tetra Tech)
Tyler Lee (J.F. Brennan, Inc.)

E2. Dredging Case Studies
Dustin Bauman (J.F. Brennan, Inc.)
Steven Shaw (Sevenson)

E3. In Situ Stabilization
Dogus Meric (Geosyntec Consultants, Inc.)
Tim Olean (Ramboll)

WEDNESDAY PLATFORM SESSIONS

A4. Field Sampling Methods and Techniques
Caitlyn Farragher (Battelle)
Sandy Paulsen (AECOM)

A5. Innovative Characterization and Assessment Approaches
Alex Johnson (Foth Infrastructure & Environment, LLC)
Janet Knox (Mott MacDonald)

A6. Innovative Characterization and Assessment Tools
Marc Mills (U.S. EPA ORD)
Danny Reible (Texas Tech University)

A7. Long-Term Monitoring Strategies
Mike Johns (Windward Environmental LLC)
Caryn Kiehl-Simpson (EA Engineering, Science, and Technology, Inc., PBC)

B5. Ebullition
John Rice (TRC Environmental Corporation)
Karl Rockne (National Science Foundation)

B6. Advanced Data Analysis and Decision Tools
Laura Bateman (Anchor QEA)
Paige Stork (WSP)

B7. Hydrodynamics and Sediment Transport
Craig Jones (Integral Consulting Inc.)
Kathryn Teske (AECOM)

C5. Determining Background
Shane Cherry (HydroGeoLogic, Inc.)
Jonathan Nuwer (NewFields)

C6. Great Lakes Legacy Act Successes and Challenges
Scott Cieniawski (U.S. EPA Great Lakes National Program Office)
Ben Szoke (Sevenson Environmental Services, Inc.)

C7. Characterization and Monitoring of NAPL and MGP Sites
Titania Ng (Haley & Aldrich, Inc.)
Priscilla Viana (Arcadis)

C8. Site Management Decisions and Remedy Cost Allocation
Michael McNally (The ELM Group, Inc./Haley and Aldrich)
Chris Moody (Tetra Tech)

D4. Beneficial Use of Contaminated Sediments
Staci Goetz (EA Engineering, Science, and Technology, Inc., PBC)
Ram Mohan (Anchor QEA & University of Georgia/IRIS)

D5. Monitored Natural Recovery and Sediment Bioremediation
Joseph Trotsky (U.S. Navy)
Patricia White (Jacobs)

D6. In Situ Treatment Amendments
Upal Ghosh (University of Maryland Baltimore County)
Charles Menzie (Sediment Solutions)

D7. Cap Design, Construction, and Operation
Stephen Rosansky (Battelle)
Heather VanDewalker (Arcadis)

E4. Field-Scale Application of In Situ Treatment Technologies
Arul Ayyaswami (Tetra Tech)
John Collins (AquaBlok Ltd.)

E5. Monitoring and Evaluating Remedy Effectiveness
Steve Garbaciak (Foth)
Cristin Wright (Anchor QEA)

THURSDAY PLATFORM SESSIONS

A8. Chemical/Toxicological/Biological Measurements and Monitoring
Scott Libby (Battelle)
Bhawana Sharma (Jacobs)

A9. Nanomaterials, Microplastics and Other Emerging Contaminants
Darcy Metzler (Haley & Aldrich)
Sonal Patil (Arcadis)

A10. Source ID, Loading Assessment, and Control
Jason Dittman (Foth)
Marcia Greenblatt (Integral Consulting)

B8. Environmental Justice Considerations in Sediment Projects
Miranda Henning (Integral Consulting Inc.)

B9. Advances in Passive Sampling Methods and Case Studies
Kristen Kerns (U.S. Army Corps of Engineers)
Peter Scharfschwerdt (Parsons)

C9. Groundwater/Sediment/Surface Water Interactions
John Hull (AQUABLOK LLC)
Robin Ritchey (CDM Smith)

C10. Canadian Great Lakes Sediment Management
Roger Santiago (Canada Water Agency)
Danielle Thorson (Geosyntec Consultants Inc.)

D8. Restoration, Revitalization, Redevelopment, and Sustainability
Dan Berlin (Anchor QEA, Inc.)
Michael Ciarlo (EA Engineering, Science, and Technology, Inc. PBC)

E6. Engineering with Nature
Anouk Savineau (LimnoTech)
Kyle Vickstrom (Parsons)

E7. Geotechnical Engineering and Structural Considerations
Joshua Kalada-Kania (Tetra Tech)
Ryan Sheaffer (GEI Consultants, Inc.)

Panel Discussions

TUESDAY

(E Sessions Room—8:00-9:40 a.m.)
Choosing In Situ Stabilization and Solidification to Replace Dredge and Cap at the Gasco Sediments Site in the Portland Harbor Superfund Site
Moderator: Michael Crystal (Sevenson Environmental Services, Inc.)

(D Sessions Room—3:55-5:35 p.m.)
Visioning, Collaborating, and Implementing Remediation and Restoration to Prioritize Environmental and Societal Benefits
Moderator: Steven Brown (AnchorQEA)

WEDNESDAY

(E Sessions Room—8:00-9:40 a.m.)
Assessing PFAS in Sediments: The Importance of Sediment-Water Dynamics in Chemical Fate and Transport, Risk Assessments, and Developing Regulations
Moderators: Arul Ayyaswami (Tetra Tech) and Jennifer Benaman (Anchor QEA)

(E Sessions Room—3:55-5:35 p.m.)
Lessons for Remediating Large Complex Sediment Sites without Federal or State Agency Involvement
Moderator: Jeffrey Talbert (Arnold & Porter)

THURSDAY

(B Sessions Room—8:00-9:40 a.m.)
Understanding Environmental Justice and Fostering Community Engagement in the Context of Contaminated Site Management
Moderator: Amanda Shellenberger (Anchor QEA)

(E Sessions Room—10:05-11:45 a.m.)
The Role of Tribes as Sovereign Nations
Moderator: Laura Shira (Yakama Nation)

Group 1 Posters

The following posters will be on display from Monday evening through Tuesday evening in the Exhibit Hall. During the Presentations/Reception period on Tuesday evening, presenters will be at their displays to discuss their work.

All poster listings and board numbers may be found only in the Conference app. Go to the "Program" tab and filter by "Type" for "Poster."

Display: Monday, 7:00 p.m.–Tuesday, 7:00 p.m.
Presentations: Tuesday 5:45–7:00 p.m.

A1. Characterization and Remediation of PFAS-Contaminated Sediments
A2. PFAS Analytical Testing
A3. Contaminant Forensics
A4. Field Sampling Methods and Techniques
B1. Contaminant Bioavailability and Bioaccumulation
B2. Contaminant Fate and Transport in Sediments
B3. Food Web Studies and Risk Assessment
B4. PFAS Bioavailability, Bioaccumulation, and Risk Assessment
B5. Ebullition
C1. Adaptive Management Approaches
C2. Climate Change Resiliency and Adaptation
C3. Communication and Facilitation with Interested Parties
C4. Remedial Cleanup Objectives and Approaches for Optimized Remedial Development
C5. Determining Background
D1. Cap Modeling
D2. Dredging Design and Dredged Material Handling and Disposal
D3. Remedial Design Considerations
D4. Beneficial Use of Contaminated Sediments
E1. Lessons Learned in Remedy Implementation
E2. Dredging Case Studies
E3. In Situ Stabilization
E4. Field-Scale Application of In Situ Treatment Technologies

Group 2 Posters

The following posters will be on display from Wednesday morning through Thursday at 12:30 p.m. in the Exhibit Hall. During the Presentations/Reception period on Wednesday evening, presenters will be at their displays to discuss their work.

Display: Wednesday 7:00 a.m. – Thursday 12:30 p.m.
Presentations: Wednesday 5:45–7:00 p.m.

A5. Innovative Characterization and Assessment Approaches
A6. Innovative Characterization and Assessment Tools
A7. Long-Term Monitoring Strategies
A8. Chemical/Toxicological/Biological Measurements and Monitoring
A9. Nanomaterials, Microplastics and Other Emerging Contaminants
A10. Source ID, Loading Assessment, and Control
B6. Advanced Data Analysis and Decision Tools
B7. Hydrodynamics and Sediment Transport
B8. Environmental Justice Considerations in Sediment Projects
B9. Advances in Passive Sampling Methods and Case Studies
C6. Great Lakes Legacy Act Successes and Challenges
C7. Characterization and Monitoring of NAPL and MGP Sites
C8. Site Management Decisions and Remedy Cost Allocation
C9. Groundwater/Sediment/Surface Water Interactions
C10. Canadian Great Lakes Sediment Management
D5. Monitored Natural Recovery and Sediment Bioremediation
D6. In Situ Treatment Amendments
D7. Cap Design, Construction, and Operation
D8. Restoration, Revitalization, Redevelopment, and Sustainability
E5. Monitoring and Evaluating Remedy Effectiveness
E6. Engineering with Nature
E7. Geotechnical Engineering and Structural Considerations

NOTES

Tuesday Platform Sessions—8:00–10:30 a.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
8:00	**Applications of the Sentinel™ Passive Sampler for PFAS Measurement in Sediment Porewater.** *E.W. Carter, H. Fadaei, C. Divine, P. Edmiston, D. Liles, and K. Berner.* Erika Carter (Arcadis U.S., Inc./United States)	**Fate, Toxicity and Bioaccumulation of PFAS in Exposures to Spiked Sediment.** *G.R. Lotufo, D.W. Moore, P. Krupa, L.R. May, and A.N. Kimble.* Guilherme Lotufo (US Army Engineer Research and Development Center/ United States)	**How to Make Adaptive Management Work for Contaminated Sediment Remediation Projects.** *J.F. Bratton, T.J. Dekker, T. Towey, G. Peterson, D. Herrema, and J.R. Wolfe.* John Bratton (LimnoTech/United States)	**Activated Carbon Cap Amendments: Example of a Site-Specific Sorption Study to Reduce Uncertainty in Cap Design.** *D. Reidy, M. Kanematsu, K. Russell, and B. Gauley.* Deirdre Reidy (Anchor QEA/United States)	
8:25	**PFAS Distribution and Flux at a Groundwater/Surface Water Interface Using a Direct Drive High-Resolution Passive Sampler.** *M.M. Vavra, M. Eldridge, A.A. Jackson, J. Guelfo, T. Anderson, P.B. Hatzinger, and G. Lavorgna.* Micaela Vavra (Texas Tech University/ United States)	**Polymeric Passive Sampling as a Tool to Predict Bioavailability and Bioaccumulation of Hydrophobic Organic Contaminants in Sediments.** *T. Hussain, D.D. Reible, B. Rao, D. Athanasiou, M. Rakowska, M. Bejar, I. Drygiannaki, N.T. Hayman, M. Colvin, G. Rosen, B. Chadwick, R. Pitt, M. Otto, and B. Steets.* Tariq Hussain (Haley & Aldrich, Inc/United States)	**Development of an Adaptive Site Management Plan at a Newly Listed Complex Sediment Superfund Site.** *J. LaPoma, M. Sivak, J. Smeraldi, and M. Lambert.* Jennifer LaPoma (U.S. Environmental Protection Agency Region 2/United States)	**Kinetic Differences between Granular and Powder Activated Carbon Evaluated and Demonstrated through CapSim Modeling and Column Study.** *K. Roberts, T. Burgesser, J. Collins, and M. Ajemigbitse.* Keegan Roberts (CDM Smith/United States)	**PANEL DISCUSSION** **Choosing In Situ Stabilization and Solidification to Replace Dredge and Cap at the Gasco Sediments Site in the Portland Harbor Superfund Site** **Moderator** Michael Crystal (Sevenson Environmental Services, Inc.) **Panelists** Bob Wyatt (NW Natural) Hunter Young (U.S. EPA) Tim Donegan (Sevenson) Ryan Barth (Anchor QEA) Taylor Crystal (Sevenson)
8:50	**Technical Validation and Field Case Study Demonstration of a Rapid and Portable PFAS Screening System within an AFFF-Impacted Site.** *S. Chaudhuri, J. Guegueniat, M.M. Renaud-Young, and S. Stietz.* Somshukla Chaudhuri (FREDsense Technologies Corp./Canada)	**Bioaccumulation Behavior of Planar and Non-Planar PCBs in a Marine Wetland near Naval Air Station, Pensacola, Florida.** *M. Islam, D.D. Reible, W. Gardiner, K. Kerns, G.R. Lotufo, H. Rectenweld, and C.J. McCarthy.* MD Rashedul Islam (TTU/United States)	**Early Action with Adaptive Management in a Portion of the Newtown Creek Superfund Site.** *A. Shellenberger, D. Haury, and P. LaRosa.* Amanda Shellenberger (Anchor QEA/ United States)	**Evaluating Contact Probability in Sorbent-Sand Mixture Caps for Improved Cap Performance.** *X. Shen, P.Z. Viana, M.J. Erickson, and D.D. Reible.* Xiaolong Shen (Arcadis/United States)	
9:15	**Influence of PFAS Speciation and Distribution on Remedial Strategies for Sediment and Surface Water.** *A. Wadhawan, N. Peffer, and M. Barba.* Amar Wadhawan (Noblis/United States)	**Riparian Spiders: A Functional Tool for Monitoring Persistent and Bioavailable Contaminants in and around Aquatic Ecosystems.** *R.R. Otter, C. Olson, M. Chumchal, M. Hannappel, and D.M. Walters.* Ryan Otter (Grand Valley State University/United States)	**From Monitored Natural Recovery to Adaptive Management: Applying Science and Community Engagement in Decision Making.** *R.D. Joyner, R. Santiago, T. George, and N. Green.* Rupert Joyner (Canada Water Agency/Canada)	**A Novel CapSim Application for Predicting Post-Remediation Porewater Concentrations.** *M. Bokare, R. Damera, and J. Hill.* Mandar Bokare (AECOM/United States)	
9:40	**Per- and Polyfluoroalkyl Substances (PFAS) Whole Sediment Toxicity.** *D.J. McCauley and M.W. Garton.* Dennis McCauley (Great Lakes Environmental Center, Inc./United States)	SESSION BREAK	SESSION BREAK	SESSION BREAK	SESSION BREAK
10:05	SESSION BREAK	**B2.** **Simulating Sediment Remediation and Maintenance Dredging in an Urban Estuary and Their Impact on Persistent Organic Pollutants.** *H.S. Rifai, O.B. Bustami, and H. Yalali.* Hooman Yalali (University of Houston/ United States)	**C2.** **An Evaluation of Living Shorelines to Enhance the Climate Resilience of the Remedial Design at Fort Monroe Dog Beach Landfill.** *C.J. Calabretta, V. Passaro, M. Stillman, and M. Kidder.* Christopher Calabretta (Leidos/United States)	**D2.** **How to Open Your Fish Window a Little Wider.** *E. Dievendorf, J.J. Bistrovich, D.K. Rigg, M.J. Erickson, and A. Hebert.* Eric Dievendorf (Arcadis/United States)	**E1.** **Restoration of Spirit Lake Estuary as a Landmark Project in the St. Louis River Area of Concern.** *M. Loomis, C. Winter, K. Denis, M. Ciarlo, and D. Bauman.* Mark Loomis (U.S. Environmental Protection Agency Great Lakes National Program Office/United States)

A1. Characterization and Remediation of PFAS-Contaminated Sediments | **B1. Contaminant Bioavailability and Bioaccumulation** | **C1. Adaptive Management Approaches** | **D1. Cap Modeling** | **Panel Discussion**

All technical sessions are located in the Grand Ballroom, Tampa Marriott Water Street (2nd Floor).

Tuesday Platform Sessions—10:30 a.m.–1:00 p.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
10:30	**A2. PFAS Analytical Testing** **Analysis of PFAS Contamination in Sediments: A Look beyond the Standard Analytical Methods.** *J. Thorn.* Jonathan Thorn (Eurofins Environment Testing/United States)	**B2. Contaminant Fate and Transport in Sediments** **Validation of a Modeling Approach Combining SEDCAM and a Hydrodynamic Sediment Transport Model in the LDW.** *N. Rose, P. Spadaro, and M. Bock.* Nicholas Rose (Verdantas/United States)	**C2. Climate Change Resiliency and Adaptation** **Enhanced Ecological Decision-Making Framework in Support of Qualifying Fill for Coastal Restoration Projects.** *K.C. Saucier, G. Archbald, M. Busnardo, Z. Gizicki, and C. Wang.* Karen Saucier (TRC Environmental Corporation/United States)	**D2. Dredging Design and Dredged Material Handling and Disposal** **Evaluation of Sediment Dredging, Transport, Dewatering and Disposal Approaches for Large Sediment Sites.** *T.L. Blackmar, R.J. Feeney, and B. Delaney.* Terri Blackmar (Tetra Tech/United States)	**E1. Lessons Learned in Remedy Implementation** **Lessons Learned from G Jetty/ Jetty 11 Remediation Project.** *M. Woltman, R. Thomas, M. Gerard, and M. Bodman.* Matt Woltman (Anchor QEA/United States)
10:55	**TBD**	**Sorting out the Significance of Contaminant Transport and Contribution to Sediment Remediation Areas When Many Potential Sources Exist.** *G. Schmeda, M. Velleux, L. Moore, and S.A. Moore.* Germán Schmeda (Formation Environmental, LLC/United States)	**Remedy Optimization Analysis at a Shoreline Landfill Impacted by Climate Change.** *M.T. Meyer, J. Sacker, and K. Bennett.* Michael Meyer (Battelle Memorial Institute/United States)	**A Collaborative Approach Leads to Success on the Multi-Faceted and Multi-Jurisdictional Munger Landing Remediation.** *C. Evenson, C. Nigrelli, and M.E. Kern.* Casey Evenson (J.F. Brennan Company, Inc./United States)	**Milwaukee River Operable Unit 2 Remedial Action, Phases 1 and 2: Complex Urban Remediation from the Contractor's Perspective.** *N. Wyrowski and T. Lee.* Nathan Wyrowski (J.F. Brennan Company, Inc./United States)
11:20	**The Total Oxidizable Precursor (TOP) Assay Reimagined.** *S.J. Choyke.* Sarah Choyke (Eurofins Environment Testing/United States)	**Distilling Complex Fate and Transport Modeling into Simple to Understand Site Management Tools.** *R. Makhlouf, L. Bateman, and K. Russell.* Ramzy Makhlouf (Anchor QEA Inc./ United States)	SESSION BREAK	**Bench-Scale Treatability Study for Washing Soils Contaminated with PCBs up to Hazardous Waste Levels and Co-Occurring Dioxin/ Furans.** *T. Sorensen, J.E. Fitts, D. Peterson, D. Berlin, J. Florer, and S. Albino.* Tasha Sorensen (Anchor QEA, Inc./ United States)	**Tidal Creek System Hydraulic Dredging, Subaqueous Capping, and Landfill Closure.** *T. Sattler, S.M. Damon, and S. Ueland.* Timothy Sattler (Langan Engineering & Environmental Services/United States)
11:45	**Sediment Matrix, What Happens Now?** *S.T. Zeiner.* Steven Zeiner (Environmental Standards Inc./United States)	SESSION BREAK		**Submerged Debris: A Framework for Synthesizing Qualitative Data to Estimate Dredged Debris Volume.** *J.L. Ripley, T. Holden, T. Cridge, M. Mann-Stadt, L. W.-Vernagallo, and B. McConathy.* Justin Ripley (Haley & Aldrich, Inc./ United States)	**A Hybrid Remedy Implementation Case Study for Marsh Restoration in Brunswick Estuary, Georgia, USA.** *M. Reemts, R. Mohan, R. Brown, P. Gupta, R. Galloway, T. Donegan, and M. Marrone.* Mark Reemts (Anchor QEA/United States)
12:10	SESSION BREAK			SESSION BREAK	**Restoring Sites with Change in Mind: Improving Results by Incorporating Adaptive Management into Habitat Restoration.** *R.W. Allison.* Ryan Allison (SWCA Environmental Consultants/United States)
12:35					SESSION BREAK

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Tuesday Platform Sessions—1:00–3:30 p.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
1:00	SESSION BREAK	SESSION BREAK	**Tribal Participation and Perspectives at the Portland Harbor Superfund Site.** *G. Fricano.* Gail Fricano (Industrial Economics, Inc./United States)	SESSION BREAK	SESSION BREAK
1:25	**World History (Cold War to Present) Preserved in the Sediment Record at an Industrial Facility.** *E. Applegate, N.A. Stevens, and J.R. Hale.* Emma Applegate (Kleinfelder, Inc./ United States)	**Evaluating Ecological Risk due to Acid Mine Drainage in the Trinity River.** *J.C. Klassen, S. Styger, and J. Suski.* Julia Klassen (EA Engineering, Science, and Technology, Inc., PBC/ United States)	**Beach Street MGP Sediment Remediation: Beyond Planning and Design: Stakeholder Listening and Responsiveness.** *B. Deshields, B. McConathy, L. W.-Vernagallo, D. Hassett, and E. Cox.* Bridgette Deshields (Integral Consulting Inc./United States)	**Chedoke Creek Remediation: Restoring an Urban Drainage System following a Prolonged Combined Sewer Overflow Spill.** *L.M. Lumbard, M. Coveney, T. Crowley, M. Senior, D. Klodnicki, and R. Scheckenberger.* Lance Lumbard (WSP Environment & Infrastructure Inc./United States)	
1:50	**True or False? Using the Biogenic Interference Calculation to Eliminate False Petroleum Hydrocarbon Detections in Organic Sediments.** *F. Kelly-Hooper.* Francine Kelly-Hooper (GHD Limited/ Canada)	**Development and Application of a Predictive Framework for Evaluating Remedial Actions for PCB-Impacted Water Bodies.** *M. Bokare, U. Ghosh, D. Murali, and A. Pinkney.* Mandar Bokare (AECOM/United States)	**Strategic Approach to Settlement Negotiations in Large-Scale Waterway Cleanup Project: Let's Join Forces for Success!** *H.W. Nelson, G. Gamolo, K. Parrett, and S. Miller.* Sarah Miller (Oregon Department of Environmental Quality/United States)	**Want to Speed up CERCLA? Expedited Path to Remediation.** *S. Dunn and L. Austrins.* Shannon Dunn (Arcadis/United States)	**Lessons Learned from an Urban Sediment Remediation Project: A Component of Delisting the Milwaukee Estuary AOC.** *J. Caryl, K.M. Krueger, P. Kenny, and J.M. Trast.* Joseph Caryl (GEI Consultants/ United States)
2:15	**Evaluation and Modeling of Petroleum Sources in Sediment Using EPH Forensic Method.** *S. Maxwell, and S.P. Cava.* Stephen Maxwell (Tetra Tech/United States)	**Tribal Considerations for Environmental Justice and Fish Consumption Rates.** *L.K. Shira.* Laura Shira (Yakama Nation/United States)	**Novel Approach to the Rehabilitation of a Working Waterfront.** *M.P. Johnson, J. Byrne, W. Needelman, C. Mayo, W. Mann, D. McGrath, H. Jones, S. Wolf, C. Springer, J. Henshaw, and T.W. Dobbins.* Michael Johnson (Stantec Consulting Services, Inc./United States)	**Leveling the Bidding Field with Treatability Testing.** *C. McNeely.* Connor McNeely (J.F. Brennan/United States)	**Remedial Dredging of Sediments at a Former Creosote Log-Dipping Site in Northern Idaho.** *M.O. Gravelding, L. Quig, M. Schettler, S. Dunn, J. Munholland, and S.C. Shaw.* Mark Gravelding (Arcadis/United States)
2:40	**Exploring the Effectiveness of PCA, t-SNE and UMAP for Analyzing PCB Fingerprints: A Case Study of a Portland Harbor Superfund Site, Oregon, USA.** *M. Dereviankin.* Mike Dereviankin (Dereviankin Consulting Inc./Canada)	**Terrestrial Food Web Model to Predict Biomonitoring Data for Eagles.** *K. von Stackelberg, H. Thurston, E. Kaltenberg, L.F. Lefkovitz, and M.A. Mills.* Katherine von Stackelberg (NEK Associates LTD and the Harvard T.H. Chan School of Public Health/United States)	**It Takes a Village: Municipal Agencies Join Forces to Protect the Anacostia River from Contaminated Sediment.** *J.S. Duckworth, N. Schneiter, and A. Morgan.* Jennifer Duckworth (Tetra Tech, Inc./ United States)	**Integrating Geostatistical Interpolation Methods and Site Conditions to Define Remedial Action Areas for the Lower Duwamish Waterway Upper Reach.** *K. Gross, J. Laplante, T. Wang, J. Stern, D. Williston, A. Crowley, P. Rude, D. Schuchardt, J. Flaherty, and K. Nogeire.* Katy Gross (Anchor QEA/United States)	**Remediation and Restoration at Pickle Pond in the Heart of Superior's Barker's Bay Recreation Area, St. Louis River Area of Concern.** *C. Kiehl-Simpson, J. Graham, D. Draper, B. Gezon, R. Lutz, J. Beaver, and J. Trombino.* Caryn Kiehl-Simpson (EA Engineering, Science, and Technology, Inc., PBC/ United States)
3:05	**Contribution of Inadvertent PCBs from Polychlorinated Terphenyls: An Overlooked and Significant Source of Contamination.** *J.G. Peale, G. Johnson, S.A. Moore, A. Caron, and M. French.* James Peale (Geosyntec Consultants, Inc./United States)	SESSION BREAK	SESSION BREAK	**Conditional Simulation for Estimating Vertical Extent When Cores Fail to Fully Penetrate Contaminant Deposits.** *J.W. Kern, D. Peabody, B. Bennett, S. Kirchner, and K. Roberts.* John Kern (Kern Statistical Services, Inc./United States)	**Full-Scale Pilot Study to Assess Dewatering and Stabilization of Dredged Sediments to Allow for Placement in an Existing Containment Cell.** *T. Olean, V.S. Magar, and K.S. Bell.* Tim Olean (Ramboll/United States)

A3. Contaminant Forensics

B3. Food Web Studies and Risk Assessment

C3. Communication and Facilitation with Interested Parties

D3. Remedial Design Considerations

E2. Dredging Case Studies

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Tuesday Platform Sessions—3:30–5:35 p.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
3:30	SESSION BREAK	**Bioaccumulation and Maternal Transfer of PFOS in a Multi-Generational Zebrafish Exposure.** *D.W. Moore, K.A. Gust, A.N. Kimble, J.E. Mylroie, M.L. Mayo, M.S. Wilbanks, C.S. Steward, K.A. Chapman, G.R. Lotufo, and N. Garcia-Reyero.* David Moore (U.S. Army Corps of Engineers (DoD)/United States)	**Utilizing Bench-Scale Treatability Investigations to Refine Assumptions in Sediment Management.** *M.K. Rodriguez, B.J. Mastin, and R.P. Frederick.* Melody Rodriguez (AECOM/United States)	SESSION BREAK	SESSION BREAK
3:55	**A3. Contaminant Forensics** **Use of PCB Forensics Evaluation at Small Sites Where California Sediment Quality Objectives Assessment is Required.** *J. Parker, M. Johns, G.S. Douglas, and H. Jeffrey.* Jennifer Parker (Windward Environmental, LLC/United States)	**B4. PFAS Bioavailability, Bioaccumulation, and Risk Assessment** **Site-Specific Concerns for Investigations at PFAS Sites: Bioaccumulation Factors for Freshwater Fish.** *K. Whitehead, S. Hutton, P. Goodrum, and J. Anderson.* Kenia Whitehead (GSI Environmental Inc./United States)	**C4. Remedial Cleanup Objectives and Approaches for Optimized Remedial Development** **Expediting Cap Design through Driver COC Identification at the Portland Harbor Superfund Site.** *E. Hughes, S.G. Lehrke and C. Moretti.* Erin Hughes (Foth Infrastructure and Environment/United States)	**Panel Discussion** **PANEL DISCUSSION** **Visioning, Collaborating, and Implementing Remediation and Restoration to Prioritize Environmental and Societal Benefits** **Moderator** Steven Brown (AnchorQEA) **Panelists** Timothy Dekker (LimnoTech), Carla Rosenfeld (USEPA-GLNPO) Roger Santiago (Canada Water Agency) Amy Beasley (The Dow Chemical Company) George Gigounas (DLA Piper)	**E3. In Situ Stabilization** **Characterization and pH Buffering of Acid Tar Lagoon Materials Using EPA LEAF Methods.** *D.G. Grubb, D.R. Berggren, E. Helbling, and B. Sharma.* Dennis Grubb (Jacobs Engineering/United States)
4:20	**PFAS Forensic Investigations: Sources, Tools, and Case Studies.** *M.J. Benotti and T. Schwichtenberg.* Mark Benotti (NewFields/United States)	**Reaching Site-Specific Closure for a PFAS Ecological Risk Assessment.** *J. Conder and J. Arblaster.* Jason Conder (Geosyntec Consultants/United States)	**Use of Multiple Lines of Evidence to Assess Risk, Develop Remedial Alternatives, and Select a Preferred Remedy for the Lower Genesee River.** *M.L. Vetter, L. Gorton, T. Drachenberg, K. Brooks, L. Brussel, A. Ruta, E. Glaza, M. Rondinelli, and T. Towey.* Matthew Vetter (Parsons/United States)		**Superabsorbent Polymer Applications for Dredged Sediment Management: Rapid and Efficient Stabilization for Off-Site Placement.** *W. Rawls.* Whit Rawls (Zappa-Stewart [Chase Corporation]/United States)
4:45	**High-Resolution Mass Spectral Tool for PFAS Forensic Analysis.** *K. Dasu, C.W. Orth, L. Mullins, and W. White.* Kavitha Dasu (Battelle/United States)	**Refined Per- and Polyfluoroalkyl Substance (PFAS) Ecological Risk Assessment at a Complex Coastal Site.** *C.J. McCarthy, J. Gondek, M. Hilyard, and M. O'Reilly.* Christopher McCarthy (Jacobs Engineering/United States)	**Value of an Alternatives Analysis during a Feasibility Study for Contaminated Sediment Sites.** *R.P. Frederick, J. Loomis, and B.J. Mastin.* Reece Frederick (AECOM/United States)		**Site-Specific Assessment of Chemical Flux from ISS-Treated Sediment Using a Multiple Lines of Evidence Approach.** *D. Reidy, D. Vlassopoulos, M. Kanematsu, M.J. Gefell, B. Gauley, and T. Stone.* Deirdre Reidy (Anchor QEA/United States)
5:10	**Artificial Intelligence: A Promising Tool for Forensic Source Identification.** *P. Burks, L. Yang, E.E. Clyde, J.W. Rice, and J. Rominger.* Patricia Burks (Gradient/United States)	**Sensitivity Analysis of Input Variables Used in Human Health Surface Water Quality Criteria Derivation: A Case Study Using PFOS.** *B. Ruffle, G. Kirkwood, K. Vosnakis, A. Thapalia, C. Davis, and P. Koster van Groos.* Betsy Ruffle (AECOM/United States)	**Making Strides Towards Restoration: Environmental Dredging to Remove Fine-Grained, Organic-Rich Sediment (Muck) in the Indian River Lagoon, Brevard County, Florida.** *A. Gering, J.F. Allen, and B. Sebastian.* Abigail Gering (Brevard County Natural Resources Management Department/ United States)		**Gowanus Canal Sediment ISS from Pilot Test to Full Scale.** *T. Deri and D. Payne.* Trae Deri (Geo-Solutions/United States)

5:45-7:00 p.m. POSTER GROUP 1 PRESENTATIONS AND RECEPTION (Exhibit Hall—JW Marriott, Tampa Bay Ballroom)

All technical sessions are located in the Grand Ballroom, Tampa Marriott Water Street (2nd Floor).

Wednesday Platform Sessions—8:00–10:30 a.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
8:00	**Exploratory Borings through an Historical Pier Structure to Support Remedial Design.** *B. Warner, J. DiMarzio, B.S. Johnson, S. Greenfield, and K. Daugherty.* Braedon Warner (GSI Water Solutions, Inc/United States)	**Use of Radiocarbon Data to Evaluate Carbon Sources Driving Gas Ebullition in Newtown Creek.** *G. Weatherford, A. McNichol, S. Messur, and D. Glaser.* Grace Weatherford (Anchor QEA LLC/ United States)	**Development of Representative Sediment Background Concentrations: Overview of Applicable ASTM Guidance.** *A. Geiselbrecht, D. Blue, and T. Fisher.* Allison Geiselbrecht (Floyd|Snider/ United States)	**Opportunities and Challenges for Beneficial Use of Dredged Material in Puget Sound.** *D. Berlin and R. Healy.* Dan Berlin (Anchor QEA, Inc./United States)	**PANEL DISCUSSION** **Assessing PFAS in Sediments: The Importance of Sediment-Water Dynamics in Chemical Fate and Transport, Risk Assessments, and Developing Regulations** **Moderators** Arul Ayyaswami (Tetra Tech) Jennifer Benaman (Anchor QEA) **Panelists** Janet Anderson (GSI Environmental Inc.) Jishnu Adhikari (Tetra Tech) Matthew Dunn (Tetra Tech - RPS Ocean Science) David Moore (U.S. Army Corps of Engineers [DoD]) Heidi Bullock (Port of Portland)
8:25	**Lessons Learned: Overcoming Challenges in Benthic Baseline Surveys in Turbid Waters.** *H.W. Nelson and G. Gamolo.* Heidi Nelson (Oregon DEQ/United States)	**Predicting Gas Ebullition from Sediment and Environmental Data from Wide-Scale Field Studies.** *M. Mansouri and K.T. Rockne.* Marzieh Mansouri (University of Illinois Chicago/United States)	**Statistical Methods for Demonstration of Attainment of Remedial Goals that Are Less than Anthropogenic Urban Background.** *J.W. Kern, C. Prabhu, and R. Weissbard.* John Kern (Kern Statistical Services, Inc./United States)	**Identification of Beneficial Use of Sediment and Habitat Restoration Needs at Contaminated Great Lakes Coastal Areas.** *J. Miller, S. Copp Franz, V.S. Magar, and B. Suedel.* Jennifer Miller (USACE/United States)	
8:50	**Rapid Field Verification of Organoclay Sand and Granular Activated Carbon Sand Capping Blends.** *N. Hamdan, A. Lampi, and D.G. Grubb.* Dennis Grubb (Jacobs Engineering/ United States)	**Laser-Induced Fluorescence as a Predictor of NAPL Migration due to Ebullition.** *J.D. Troyer, S.D. McDonald, C. Prabhu, R. Weissbard, and J.W. Kern.* Shane McDonald (HDR/United States)	**Seeing the Trees from the Forest: Distinguishing Site Impacts from Urban Background Using Machine Learning.** *A.S. Madison, S. Sorsby, and S. Finn.* Andrew Madison (WSP/United States)	**Beneficial Use Case Study: St. Louis River/Interlake/Duluth Tar (SLRIDT) Site Remediation, Duluth, Minnesota/Superior, Wisconsin, USA.** *E.P. Hedblom, R. Mohan, and G.M. Partch.* Eric Hedblom (Barr Engineering Co./ United States)	
9:15	**Real-Time Data through Horizontal Soil Sampling.** *E. Andelman and J. Sophis.* Elliott Andelman (Directional Technologies, Inc./United States)	**In Situ Measurement of Greenhouse Gas Emissions and Ebullition Mediated Contaminant Transport from Fiberbanks.** *P.C. Frogner-Kockum, A. Wernersson, W. Zhu, H. Peng, E. Eek, and O. Regnell.* Paul Frogner-Kockum (Swedish Geotechnical Institute/Sweden)	**Modeling Historical Lead Contamination and 40 Years of MNR in Lewis Lake, Yellowstone National Park.** *S. Klein.* Stephen Klein (Benthica/United States)	**Evaluation of Chemical Oxidation Process on Removal of Hydrophobic Contaminants in Sediment for Beneficial Use in Construction.** *B. Rao, E.G. Eleazar Ruiz, N.S. Barragan, D.D. Reible, M. Rakowska, E.A. Stern, R. Miskewitz, and T. Oathes.* Balaji Rao (Texas Tech University/ United States)	
9:40	SESSION BREAK	SESSION BREAK	**Resuspended Sediment PCB Background Considerations When Defining Achievable Sediment Remediation Goals.** *G.S. Douglas, J. Parker, M. Johns, and J. Hardenstine.* Jeffery Hardenstine (NewFields Environmental Forensics Practice/United States)	**Innovation in Contaminated Sediment Treatment and Management to Facilitate Beneficial Use: A Public Private Partnership Research Initiative.** *D.W. Moore.* David Moore (U.S. Army Corps of Engineers [DoD]/United States)	SESSION BREAK
10:05	**A5.** **A Multi-Pronged, Adaptive Monitoring Approach to Identify and Assess Errant Suitable Dredged Material Placement on Native Seafloor Habitats.** *K.N. Sylvester, A. Murphy, S. Wolf, A.D. Hopkins, and Z. McKelvey.* Zach McKelvey (INSPIRE Environmental, Inc./United States)	**B6.** **Developing a Robust Sampling Program Utilizing Geostatistical Analysis, Conditional Simulations and Receiver Operating Characteristic (ROC) Curves.** *K. Takagi, Y. Wang, G. Lukert, J. Gulczewski, J.W. Kern, M. Cheplowitz, and G. Klawinski.* Kenneth Takagi (WSP USA Solutions Inc./ United States)	SESSION BREAK	SESSION BREAK	**E4.** **Construction of an In Situ Activated Amendment Carbon Application to Treat Dioxins/Furans Contamination in the Scanlon Reservoir, St. Louis River Area of Concern.** *L. Lehto, M.E. Kern, B. Leick, C. Nigrelli, M. Elliott, C. Cruz, and S. Koszarek.* LaRae Lehto (Minnesota Pollution Control Agency/United States)

A4. Field Sampling Methods and Techniques (8:00–9:15)

B5. Ebullition (8:00–9:15)

C5. Determining Background (8:00–9:40)

D4. Beneficial Use of Contaminated Sediments (8:00–9:40)

Panel Discussion (8:00–9:40)

All technical sessions are located in the Grand Ballroom, Tampa Marriott Water Street (2nd Floor).

Wednesday Platform Sessions—10:30 a.m.–1:00 p.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
10:30	**Innovative Approach for Estimating Total PCB Congeners to Make Near Real-Time Field Decisions.** *A. Accardi-Dey, M.G. Shupe, D. Murali, and E. Redman.* AmyMarie Accardi-Dey (Tetra Tech, Inc./United States)	**Integration of Field Data to Dredge Prism Development.** *B.J. Mastin, J. Loomis, A. Bitel, and D. Wright.* Josh Loomis (AECOM/United States)	**Implementation of a Drum Removal Pilot Study in Torch Lake, Michigan.** *P. LaRosa, S.T. Inman, B. Gauley, J. Telano, H. Williams, C. White, D. Bauman, and A. Peitsch.* Paul LaRosa (Anchor QEA/United States)	**Monitored Natural Recovery of Cottonwood Bay Sediments (Dallas, Texas).** *K.S. Bell, V.S. Magar, K. Leigh, P. Fuchsman, and C. Epperson.* Kristin Bell (Ramboll/United States)	**Comparison of In Situ and Ex Situ Tools for PFAS Remediation in Sediments and Soils.** *J. Adhikari, J. Kewalramani, A. Ayyaswami, M. Dunn, S. Herbert, R. Mercuri, and C.W. Lenker.* Jishnu Adhikari (Tetra Tech/United States)
10:55	**Sample Density Analytics for Sediment Nature and Extent Summaries.** *J.R. Eykholt and E. Thomas.* Jerry Eykholt (WSP/United States)	**Leveraging Advanced Remote Sensing and Artificial Intelligence for Monitoring Remediation and Site Restoration.** *B. Brown.* Brendan Brown (CDM Smith/United States)	**Implementing a Complex, Large-Scale Sediment Remediation Project with Multiple Disciplines.** *E.M. Papenfus, D. Bauman, M. Loomis, and M. Ciarlo.* Erik Papenfus (J.F. Brennan Company/United States)	**Second Monitored Natural Recovery Study Conducted on the Palos Verdes Shelf Superfund Site, California, USA.** *C.J. Tang and R. Jordan Ward.* Renee Jordan Ward (USEPA Region IX/United States)	**Implementation and Results of Performance Monitoring for a Multi-Component Offshore Remedial Design in San Francisco Bay, California.** *J. Galvin, J.L. Ripley, G.L. Hicks, H.J. Costa, T. Holden, D. Metzler, and R. Saur.* Jennifer Galvin (Haley & Aldrich, Inc./ United States)
11:20	**Wrestling with Riprap: The Importance of Obtaining Hard-to-Get Data for Sediment Remediation Design and Strategies for Success.** *C. Lamb, A. Cerruti, J. Bale, T. Dreher, R. May, and D. Pickering.* Connor Lamb (Dalton, Olmsted & Fuglevand, Inc. (DOF)/United States)	**RM9W Sediment Interpolation Model Development, Uncertainty Evaluation, and Delineation of Sediment Management Areas.** *S.G. Lehrke, E. Hughes, A. Johnson, and C. Moretti.* Stephen Lehrke (Foth Infrastructure & Environment, LLC/United States)	**Great Lakes Legacy Act Sediment Remediation in the Detroit River Area of Concern.** *K.S. Bell, V.S. Magar, T. Staniec, V. Warner, C. Justice, C.M. Bako, and A. Falkner.* Kristin Bell (Ramboll/United States)	**Potential for PFOA Defluorination in River Sediments Undergoing the Feammox Process.** *P.R. Jaffe, S. Huang, A. Sherman, and C. Smorada.* Peter Jaffe (Princeton University/United States)	**Innovations in Capping: Powdered Activated Carbon (PAC) Placement Utilizing a New Method for Mixing and Delivering Cap Material.** *A. Timmis and T. Lee.* Andrew Timmis (J.F. Brennan/ United States)
11:45	**Statistical Approach to PAH Delineation in Urban Estuarine Sediment.** *R. Lippencott and E. O'Connor.* Erik O'Connor (TRC/United States)		**Milwaukee Estuary Area of Concern (AOC): Great Lake Legacy Act Partners Implementing Multiple Pathways to Remediation.** *H. Williams and C. White.* Heather Williams (USEPA/United States)		
12:10	SESSION BREAK	SESSION BREAK	SESSION BREAK	SESSION BREAK	SESSION BREAK
12:35				**D6. Sorption Kinetics of Polycyclic Aromatic Hydrocarbons (PAHs) onto Organophilic Clays of Different Particle Size and Its Impact on In Situ Remedial Design.** *K. Rouhi, D.D. Reible, X. Shen, J. Collins, and M. Ajemigbitse.* Kiana Rouhi (Texas Tech University/ United States)	

A5. Innovative Characterization and Assessment Approaches

B6. Advanced Data Analysis and Decision Tools

C6. Great Lakes Legacy Act Successes and Challenges

D5. Monitored Natural Recovery and Sediment Bioremediation

E4. Field-Scale Application of In Situ Treatment Technologies

All technical sessions are located in the Grand Ballroom, Tampa Marriott Water Street (2nd Floor).

Wednesday Platform Sessions—1:00–3:30 p.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
1:00	SESSION BREAK	**Computational Advances in Hydrodynamic and Sediment Transport Modeling.** *R. Mathew.* Rooni Mathew (GEI Consultants/ United States)	SESSION BREAK	**In Situ Bioremediation of a Former Municipal Sewage Treatment Pond Contaminated with High Concentrations of Aroclor 1248.** *K.R. Sowers, R.B. Payne, and U. Ghosh.* Kevin Sowers (University of Maryland Baltimore County/United States)	**Three Years of Cap Monitoring to Evaluate Remedy Effectiveness in Esquimalt Harbour.** *A.L. Corp, K. Ritchot, D. Ormerod, M. Bodman, D. Reidy, and M. Woltman.* Matt Woltman (Anchor QEA/United States)
1:25	**Digital Data Collection and Synthesis Tools Used in Remedial Decision Making.** *B.J. Mastin, A. Bitel, J. Loomis, D. Wright, R. Mikeal, and D. Arnaud.* Alison Bitel (AECOM/United States)	**Quantifying the Fate of Potentially Contaminated Stormwater Solids with High-Resolution Numerical Modeling.** *F. Salcedo, A. Sharma, S. Fenical, and J. Dening.* Francis Salcedo (Coast and Harbor Engineering/United States)	**Recontamination Potential from Uncontrolled NAPL Migration from Uplands in a Superfund Site.** *C. Prabhu, J.W. Kern, S.D. McDonald, R. Weissbard, and M. Tan.* Chitra Prabhu (HDR/United States)	**Low Dose Amendments Sufficient to Treat Lightly Contaminated Dredged Sediments.** *U. Ghosh and S. Yan.* Upal Ghosh (University of Maryland Baltimore County/United States)	**PFAS Mass Discharge Control and Surface Water Treatment Using Reactive Core Matting at Ellsworth AFB, South Dakota.** *J.B. Erickson.* Jay Erickson (Arcadis US, Inc./ United States)
1:50	**Tools Linking Laboratory to Field: Freshwater Mussel In Situ Exposures to Understand Complex Stressors.** *J.A. Steevens, J. Kunz, B. Perrotta, B. Sansom, M. Schelich, and A. Sieja.* Jeff Steevens (U.S. Geological Survey/ United States)	**Long-Term Dependence on Suspended Sediment Transport: Introducing Intermittency Effect and Random Diffusivity to the Fractional Stochastic Diffusion Particle Tracking Model.** *W. Shen and C. Tsai.* Weimin Shen (National Taiwan University/Taiwan)	**Evaluation of Manufactured Gas Plant Waste as a Potential Source of Polychlorinated Dibenzodioxins/furans in Sediments.** *C. Savoie, P. Wiescher, M.R. Murray, and A. Hackett.* Courtney Savoie (Maul Foster & Alongi/United States)	**Evaluation of Multiple Sediment Amendments at a Mercury-Contaminated Reservoir Using Bench-Top Microcosm Treatability Testing.** *S. Dent, J. Crawford, C. Eckley, and P.C. Ho.* Steve Dent (CDM Smith/United States)	**Lauritzen Channel, California: 35 Years of Pre- and Post-Dredge Monitoring.** *E. Naylor, C. Patmont, R.G. Luthy, J. Conder, W. Hovel, and R. Bodishbaugh.* Erik Naylor (Anchor QEA/United States)
2:15	**Applications of Environmental DNA Monitoring for Site Assessment and Management.** *J. Wollenberg, D. Doolittle, S. McGarvey, and J. Durda.* Jennifer Wollenberg (Integral Consulting Inc./United States)	**Adaptive Modeling Approach to Inform Source Identification and Management Decisions in San Leandro Bay.** *K. Scheu, S. McWilliams, C. Jones, P. Avellaneda, A. King, D. Yee, and J. Davis.* Kara Scheu (Integral Consulting Inc./ United States)	**Modeling Porewater Cleanup Time during Multicomponent Nonaqueous Phase Liquid Dissolution Using a Desorption Approximation.** *M.J. Gefell, A. Meyal, and D. Gurung.* Michael Gefell (Anchor QEA/United States)	**Combination of In Situ Chemical Oxidation and In Situ Solidification for Treatment of Contaminated Sediments.** *A.O. Barbosa, G.S. Oliveira, A.L. Souza, and A.L. Silva.* Augusto Barbosa (Cetrel S.A./Brazil)	**Assessing the Effectiveness of the Completed Lower Fox River Remedy: Updated Data through 2022.** *T.M. Van Hoof, S.G. Lehrke, J.R. Wolfe, P. Montney, and W. Hartman.* Tara Van Hoof (Foth Infrastructure & Environment, LLC/United States)
2:40	**Sediment Recontamination Potential of Hydrophobic Organics from Stormwater in a Mixed-Use Watershed.** *T. Hussain, D. Athanasiou, B. Rao, M. Bejar, M. Rakowska, D.D. Reible, R. Pitt, G. Rosen, N.T. Hayman, I. Drygiannaki, M. Colvin, B. Chadwick, M. Otto, and B. Steets.* Tariq Hussain (Haley & Aldrich, Inc/United States)	**Upper Mississippi River and Dogtooth Bend Peninsula: Hydrodynamic and Sediment Transport Modeling.** *S.C. Sanborn, E. Brauer, W. McAnally, and C. Wallen.* Stephen Sanborn (Dynamic Solutions, LLC/United States)	**Designing Reactive Caps for NAPL-Impacted Sediments: Leveraging the Conceptual Site Model to Balance Conservatism versus Cost.** *S.M. Carroll and W.J. Haswell.* Sean Carroll (Haley & Aldrich, Inc./ United States)	**Short-Term Impacts of Activated Carbon on Benthic Invertebrates during In Situ Treatment of Contaminated Sediment.** *A. Accardi-Dey, M. Bowersox, S. Delhomme, M.G. Shupe, and D. Murali.* AmyMarie Accardi-Dey (Tetra Tech, Inc./United States)	**Continued Assessment of the Effectiveness of the Upper Hudson River Remedy.** *C. Yates, J. Benaman, E. Lamoureux, M. Mathew, C.L. Wright, and R. Gibson.* Christopher Yates (Anchor QEA/ United States)
3:05	**Knowing Known Unknowns: A Vision of Non-Targeted Analysis for Contaminants of Emerging Concern.** *S.J. Choyke.* Sarah Choyke (Eurofins Environment Testing/United States)	SESSION BREAK	**Multi-Layer Amended Cap Installed to Remediate NAPL-Impacted Sediment in Lake George Canal Middle Section.** *S. Crawford.* Samuel Crawford (J.F. Brennan Company, Inc./United States)	SESSION BREAK	**Rapid Recovery of Puget Sound Urban Harbors and Waterways after Source Controls: Case Studies and Adaptive Management Framework.** *C. Patmont, R. Healy, and J. Baker.* Rob Healy (Port of Tacoma/United States)

A6. Innovative Characterization and Assessment Tools

B7. Hydrodynamics and Sediment Transport

C7. Characterization and Monitoring of NAPL and MGP Sites

D6. In Situ Treatment Amendments

E5. Monitoring and Evaluating Remedy Effectiveness

All technical sessions are located in the Grand Ballroom, Tampa Marriott Water Street (2nd Floor).

Wednesday Platform Sessions—3:30–5:35 p.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
3:30	SESSION BREAK	**Down by the River: Developing a Flood Alert System to Support Floodplain Remediation along an Unpredictable Waterway.** *C.M. Drennan and N. Williamson.* Craig Drennan (EHS Support/United States)	SESSION BREAK	**Sediment Cap Construction: Milwaukee River Operable Unit 2/ Third Ward MGP Sediments.** *J.M. Trast, K.M. Krueger, J. Caryl, and P. Kenny.* John Trast (GEI Consultants, Inc./ United States)	SESSION BREAK
3:55	A7. Long-Term Monitoring Strategies: **Developing a Long-Term Monitoring Strategy with Local First Nations.** *A.L. Corp, A. Koseos, E. Crawford, A. Blanc, F. Wong, and M. Larsen.* Amy Corp (Anchor QEA/United States)	B7. Hydrodynamics and Sediment Transport: **Sediment Cap Survival: Cap Mobility Evaluation Using a Robust Sediment Coarsening Model.** *S. McWilliams and C. Jones.* Samuel McWilliams (Integral Consulting Inc./United States)	C8. Site Management Decisions and Remedy Cost Allocation: **Guide for a Risk-Based Approach to Environmental Windows for Dredging and Navigation Infrastructure.** *R. Desrosiers.* Rebecca Desrosiers (Anchor QEA, Inc./ United States)	D7. Cap Design, Construction, and Operation: **Laboratory Examination of Amended Sand Cap Placement.** *P.R. Schroeder, C.E. Ruiz, J.P. Jarabica, J.L. Alexander, S.P. Hopkins, T. Whorley, D. Blue, K.A. Stevenson, and D. Grapski.* Paul Schroeder (US Army Engineer Research and Development Center/ United States)	Panel Discussuon: **PANEL DISCUSSION** **Lessons for Remediating Large Complex Sediment Sites without Federal or State Agency Involvement** **Moderator** Jeffrey Talbert (Arnold & Porter) **Panelists** Danny Reible (Texas Tech University) Betsy Henry (Anchor QEA) Patricia Duft (Mallinckrodt US LLC) Mitchell Bernard (Natural Resources Defense Counsel)
4:20	**10 Years of Monitoring at St. Louis River/Interlake/Duluth Tar Shows Integrated Remediation/Restoration Strategy Works for Ecosystem Recovery.** *E.P. Hedblom, G.M. Partch, D.H. Breneman, S. Johnson, and D. Cervin.* Eric Hedblom (Barr Engineering Co./ United States)	**Can Buried Contamination Remain in Place? A Multiple Lines of Evidence Approach to Evaluating Physical and Chemical Stability.** *J.E. Fitts, A. Shellenberger, E. Patmont, and D. Reidy.* Julia Fitts (Anchor QEA/United States)	**Can the Effectiveness of Fish Consumption Advisories be Enhanced Prior to Remedy Implementation at Superfund Sites?** *A.S. Fowler and T. Loper.* Alan Fowler (Geosyntec/United States)	**Enhancing Prediction of Activated Carbon Performance in In Situ Sediment Capping: A Kinetic Sorption Study.** *X. Shen, P.Z. Viana, M.J. Erickson, and D.D. Reible.* Xiaolong Shen (Arcadis/United States)	
4:45	**Key Highlights and Lessons Learned from the San Diego Regional Harbor Monitoring Program, San Diego County, California.** *C.C. Stransky, K. Tait, M.C. Swiderski, K. Holman, A. Burruss, S. Goong, K.C. Baker, V. Kalkirtz, Z. Smith, and K.L. Gobbi.* Kimbrie Gobbi (WSP/United States)	**Evaluation of a Blended Cover with Activated Carbon for In Situ Stabilization of DDx/Dieldrin in Sediment.** *R.G. Luthy, Y. Cho, B.J. Pauken, A.E. Tovkach, O.B. Fringer, and S.G. Monismith.* Richard Luthy (Stanford University/ United States)	**Quantitative Approaches for the Allocation of Remediation Costs at Multiparty Sediment Sites.** *N.C. Grasso and B.S. Harvey.* Neal Grasso (FTI Consulting/United States)	**Bench-Scale Evaluation of the Impact of Bioturbation on Thin Layer Caps.** *C.E. Ruiz, J.P. Jarabica, P.R. Schroeder, D.W. Moore, D. Farrar, L.R. May, D. Grapski, S.P. Hopkins, K.A. Stevenson, A.D. Redman, D. Blue, and T. Whorley.* Carlos Ruiz (ERDC-WES/United States)	
5:10	**Food Web Models: An Invaluable Tool for Designing and Assessing Data from Long-Term Monitoring Programs.** *S. Replinger, M. Johns, J. Toll, J. Parker, and A. Gibbs.* Suzanne Replinger (Windward Environmental LLC/United States)	**Hydrodynamic Dredging: Solving Sedimentation Naturally and Efficiently.** *J. Wagner, F. Lauterman, and N. Brilli.* Joe Wagner (Black & Veatch/United States)	**Navigating Technical Challenges Encountered in Late Stages of the Remedial Cost Allocation Process.** *J. Hedin, E. O'Connell, N. Rose, and P. Spadaro.* Jillian Hedin (Verdantas/United States)	**Design Strategies for Composite Cap Systems Enhancing NAPL Control, Organics, and Metals Remediation.** *P.Z. Viana, N. Gensky, S. Patil, M.J. Erickson, B. Orchard Aragon, and D.D. Reible.* Priscilla Viana (Arcadis/United States)	

5:45-7:00 p.m. POSTER GROUP 2 PRESENTATIONS AND RECEPTION (Exhibit Hall—JW Marriott, Tampa Bay Ballroom)

All technical sessions are located in the Grand Ballroom, Tampa Marriott Water Street (2nd Floor).

Thursday Platform Sessions—8:00–10:30 a.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
8:00	A8. Chemical/Toxicological/Biological Measurements and Monitoring **Recent Developments in the Use of Freshwater Mussels for Water and Sediment Toxicity Testing.** *J.A. Steevens, N. Wang, J. Kunz, C. Ivey, and D. Soucek.* Jeff Steevens (U.S. Geological Survey/United States)	Panel Discussion **PANEL DISCUSSION** **Understanding Environmental Justice and Fostering Community Engagement in the Context of Contaminated Site Management** **Moderator** Amanda Shellenberger (Anchor QEA) **Panelists** Arianne Fernadez (Washington State Department of Ecology) Stacey Halliday (Arnold & Porter) Jessica Hamilton (Port of Portland) Jennifer LaPoma (U.S. Environmental Protection Agency Region 2)	C9. Groundwater/Sediment/Surface Water Interactions **Groundwater/Surface Water Interactions Affect Mercury Transport from the Bremerton Naval Complex to Puget Sound, Washington.** *K. Conn, R. Brown, and J. Gryzenia.* Kathy Conn (U.S. Geological Survey/United States)	D8. Restoration, Revitalization, Redevelopment, and Sustainability **Habitat Restoration within Two Seattle Superfund Sites.** *D. Berlin, M. Havey, J.E. Fitts, J. Florer, K. Hurley, and B. Spangler.* Dan Berlin (Anchor QEA, Inc./United States)	E6. Engineering with Nature **Improved Aquatic System Outcomes from Carp Management.** *K. Gustavson, L. Venne, J. Skaggs, C.E. Draper, and M. Basler.* Karl Gustavson (U.S. Environmental Protection Agency/United States)
8:25	**Key Considerations for Utilizing Bioassays to Assess Toxicity in Freshwater Environments.** *K. Hitchko, J. Massingale, M. Rempel-Hester, and M. Knowlen.* Kara Hitchko (Floyd|Snider/United States)		**Interpreting Direct Seepage Measurements Using a Multiple Lines of Evidence Approach.** *S.T. Best and C.E. Draper.* Samuel Best (WSP USA/United States)	**Creative NRD Settlement Transforms Land and Lives on the Banks of the Passaic River.** *J. Bleiler and J. Reid-Green.* John Bleiler (AECOM/United States)	**Mastic Beach Restoration: Using Nature-Based Solutions to Improve Resiliency and Restore a Tidal Marsh on Long Island, New York.** *S. Copp Franz, D. Lis, V.S. Magar, and A. Duckworth.* Sara Copp Franz (Ramboll/United States)
8:50	**Assessing Potential Risk to Downstream Ecological Receptors from Sediments behind a High-Risk Failure Dam on the Kalamazoo River.** *C. Menor Salazar, A. Accardi-Dey, M. Bowersox, D.M. Capone, and P. Ruesch.* Carlos Menor Salazar (Tetra Tech, Inc./United States)		**The Hunt for PFAS: Modeling the Shenanigans of Groundwater/Surface Water Interactions.** *S. Dunn, S.T. Potter, J. Wahlberg, P. Khambhammettu, and M.P. Kladias.* Shannon Dunn (Arcadis/United States)	**Retrospective Analysis of Natural Resource Damage Assessment Settlements.** *A. Gibbs and M. Johns.* Annie Gibbs (Windward Environmental LLC/United States)	**Dredging Sediments to Create Islands for a Great Lakes Delta Restoration in an Industrial Harbor and Former EPA Area of Concern Using Engineering with Nature Principles.** *B.R. Davis, R. Mohan, and P.J. Kennedy.* Brian Davis (University of Virginia/United States)
9:15	**Improving an Imperfect Method: Enhancing the Precision and Accuracy of EPA Method 8082 for PCBs.** *Y. Wang, J. Atmadja, S. Gbondo-Tugbawa, E.A. Garvey, M. Cheplowitz, and G. Klawinski.* Ying Wang (WSP USA Solutions Inc./United States)		**Groundwater/Surface Water Interactions Drive Redox-Dependent Mobility near Coal Combustion Product Sites.** *A.K. Aufdenkampe, B. Hensel, J. Thomas, and T. Towey.* Anthony Aufdenkampe (LimnoTech/United States)	**Remediation and Restoration of an Indigenous Shoreline.** *A.L. Corp, D. Ormerod, K. Ritchot, M. Bodman, and R. Thomas.* Amy Corp (Anchor QEA/United States)	**Beneficial Use of Sediments: Tools, Pilot Sites and Measuring Techniques Developed and Used within Seven European Union Projects.** *A. Wijdeveld, B. Lemiere, A. Coftier, V. Laperche, P. Bataillard, E. Masson, R. Lord, K. Torrance, J. Harrington, B. Batel, M. Wensveen, A. Hamilton, and T. Debuigne.* Arjan Wijdeveld (Deltares/Netherlands)
9:40	**Assessment of Risks to Benthic Invertebrate Communities from Exposure to Metals Associated with Slag in the Upper Columbia River, Washington.** *D.M. Pelletier, J. Holder, and K. Lundmark.* Jennifer Holder (ERM/United States)	SESSION BREAK	SESSION BREAK	SESSION BREAK	SESSION BREAK
10:05	SESSION BREAK	B8. **Reconciliation and Remediation: Indigenous Engagement and Cleanups in Canada.** *A.L. Corp, E. Crawford, F. Wong, and M. Larsen.* Eric Crawford (Transport Canada/Canada)	C10. **Customization and Adaptation of Detailed Remedial Design for a Complex Urban Sediment Remediation in Kingston Inner Harbour, Ontario, Canada.** *G.S. Lawrence, J. Daley, T. Yochim Hope, and V. Minelga.* Gary Lawrence (WSP/Canada)	D8. **Toronto's Port Lands: Leveraging Flood Protection to Transform an Urban Brownfield into a Waterfront Landmark.** *L. Ness, D. Thorson, and B. Cousino.* Luke Ness (Michael Van Valkenburgh Associates, Inc./United States)	Panel Discussion **PANEL DISCUSSION**

All technical sessions are located in the Grand Ballroom, Tampa Marriott Water Street (2nd Floor).

Thursday Platform Sessions—10:30 a.m.–1:00 p.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
10:30	A9. Nanomaterials, Microplastics and Other Emerging Contaminants **Land-Sea Connection of Microplastic Fiber Pollution in Frenchman Bay, Maine.** *G.A. Johnson and O. Apul.* Grace Johnson (Haley & Aldrich/ United States)	B8. Environmental Justice Considerations in Sediment Projects **Transforming Landscapes and Communities at Spirit Lake: Integrating Local Planning, Outreach, and Recreation into Remediation.** *M. Loomis, C. Winter, K. Denis, M. Ciarlo, C. Pacelli, and J. Boltz.* Mark Loomis (U.S. Environmental Protection Agency Great Lakes National Program Office/United States)	C10. Canadian Great Lakes Sediment Management **Overcoming Remedy Design Constraints for the Remediation of Young's Creek (Ontario, Canada).** *K.S. Bell, T. Staniec, and V.S. Magar.* Trevor Staniec (Ramboll/United States)	D8. Restoration, Revitalization, Redevelopment, and Sustainability **Balancing Cleanup, Restoration, and Recreation Needs in Design and Construction of the Spirit Lake Remedy.** *M. Ciarlo, J. Beaver, J. Boltz, M. Loomis, D. Bauman, and M.R. Rupnow.* Michael Ciarlo (EA Engineering, Science, and Technology, Inc. PBC,/United States)	Panel Discussion **PANEL DISCUSSION** **The Role of Tribes as Sovereign Nations** **Moderator** Laura Shira (Yakama Nation) **Panelists** Davis Washines (Yakama Nation) Janet Knox (Mott MacDonald) Lidia Nguyen (Sundance Consultants, LLC) Gail Fricano (Industrial Economics, Inc.)
10:55	**Challenges in Sampling and Evaluation Methodologies for Microplastics in Stormwater Sediments.** *A. Sanchez Garcia, B. Rao, C.I. Gomez-Avila, H. Zhou, D.D. Reible, and T. Hussain.* Andres Sanchez Garcia (Texas Tech University/United States)	**Restoring the Milwaukee Estuary: Prioritizing Environmental Justice and Community Engagement.** *C. Taddy and A. Michalski.* Christina Taddy (Milwaukee Metropolitan Sewerage District/United States)	**Navigating New Waters in Toronto's Port Lands: Design and Regulatory Pathways for Environmental Barriers in New River Construction** *D. Thorson, S. Desrocher, and L. Solano.* Danielle Thorson (Geosyntec Consultants Inc./Canada)	**Providing Waterfront Access and Ecological Enhancements at Historically Impacted Sites.** *T.S. Wagner, J. Stangland, and T. Rogers.* Timothy Wagner (SmithGroup/United States)	
11:20	**6-PPD Quinone (6-PPDQ) in Sediment: Measurement, Occurrence and Partitioning.** *B. Chandramouli and M. Woudneh.* Bharat Chandramouli (SGS North America Inc./Canada)	**Environmental Justice and the Restoration of the Anacostia River.** *G. Mikeska, D. Chestnut, and A. Patil.* Gretchen Mikeska (District Department of Energy & Environment/ United States)	**Randle Reef Sediment Remediation Project, Hamilton, Ontario, Canada.** *M. Seaman and R. Santiago.* Mark Seaman (Milestone Environmental Contracting/Canada)	**Evaluating Green Remediation Strategies to Reduce Air Emissions for the Lower Duwamish Waterway Upper Reach Design.** *S.J. Rodriguez, J. Laplante, T. Wang, J. Stern, D. Williston, P. Rude, A. Crowley, D. Schuchardt, J. Flaherty, and K. Nogeire.* Sylian Rodriguez (Anchor QEA/United States)	
11:45	**Can We Apply a Site-Specific Ecological Risk Assessment Framework for Microplastics in Sediment?** *R.E. Zajac-Fay, J. Conder, Z. Pandelides, T. Liu, and A. Yeh.* Rachel Zajac-Fay (Geosyntec Consultants/United States)	SESSION BREAK	SESSION BREAK	SESSION BREAK	SESSION BREAK
12:10	SESSION BREAK				
12:35		B9. **Demystifying the Science of Performance Reference Compounds for Determining Freely Dissolved Equilibrium Concentration of Hydrophobic Organic Chemicals in Porewater.** *B.G. Pautler, J. Roberts, J. Thompson, G. Pagnozzi, A. Fitzpatrick, J. Conder, P. McIsaac, K. Woodcock, A. Patterson, and R. Mitzel.* Brent Pautler (SiREM/Canada)			E7. **Supporting Shoreline Structures to Facilitate Dredging: Milwaukee River Operable Unit 2/Third Ward MGP Sediments.** *J.M. Trast, C.K. Tan, D. Diehm, and P. Kenny.* John Trast (GEI Consultants, Inc./ United States)

All technical sessions are located in the Grand Ballroom, Tampa Marriott Water Street (2nd Floor).

Thursday Platform Sessions—1:00–2:40 p.m.

	A SESSIONS Salon A/B	B SESSIONS Salon C/D	C SESSIONS Salon E	D SESSIONS Salon F	E SESSIONS Salon G-J
1:00	**Riders on the Stormwater: Characterizing Polychlorinated Biphenyls (PCBs) Discharged from Oscar 1 Pier Outfall, Pearl Harbor, Hawaii.** *G. Chang, F. Spada, K. Brodock, C. Hutchings, and K. Markillie.* Grace Chang (Integral Consulting Inc./United States)	**Equilibrium Passive Sampling Demonstration for Short-Term Surface Water Measurements of PCBs.** *U. Ghosh, O. Ghosh, L. Cheung, and N. Lombard.* Upal Ghosh (University of Maryland Baltimore County/United States)			**Sediment Pinning: A Multidisciplinary Approach to Stabilizing Submerged Capped Slopes.** *T. Cridge, J.L. Ripley, M. Zablocki, T. Holden, L. W.-Vernagallo, and B. McConathy.* Todd Cridge (Haley & Aldrich/United States)
1:25	**Multiple Contaminant and Source Recontamination Analysis and Modeling of a Remediation Site.** *A.S. Parkhurst, J. Parker, and S. Fenical.* Ashley Parkhurst (Mott MacDonald/ United States)	**Application of Passive Samplers to Support Risk Assessment and Long-Term Monitoring.** *W. Gardiner, K. Kerns, G.R. Lotufo, D.W. Moore, D.D. Reible, C.J. McCarthy, M. Islam, and H. Rectenweld.* William Gardiner (US Army Corps of Engineers/United States)			**Structure Assessment and Monitoring Program Implementation for Environmental Dredging at Lower Rouge River Old Channel, Detroit, Michigan.** *J. Beaver and M. Hudson.* Jamie Beaver (EA Engineering, Science and Technology, Inc., PBC/United States)
1:50	**Evaluation of Performance of Stormwater Control Measures to Limit Sediment Recontamination of PFAS, PAHs, and PCBs.** *C.I. Gomez-Avila, D.D. Reible, B. Rao, T. Hussain, H. Zhou, R. Pitt, M. Demyers, M. Colvin, and N.T. Hayman.* Cesar Gomez-Avila (Texas Tech University/United States)	**Time Scale of Integration in Equilibrium Passive Sampling.** *U. Ghosh, O. Ghosh, S. Yan, and M. Bokare.* Upal Ghosh (University of Maryland Baltimore County/United States)	SESSION BREAK	SESSION BREAK	**TBD**
2:15	**Use of MercLok™ P-640 to Reduce Mercury Concentrations in Effluent from Wastewater Treatment Systems.** *C. Fontenot.* Caleb Fontenot (Albemarle/United States)	**Development of a Consistent Model for Prediction of Equilibration in Polymeric Passive Samplers.** *A. Alborzi, M. Hajian, U. Garza, T. Hussain, M. Islam, and D.D. Reible.* Ashkan Alborzi (CDM Smith/United States)			**Sedimentation Impacts on Dam Rehabilitation and Retrofit Strategies.** *C. Hansen, A. Chu, J. Lee, J. Gallego Calderon, and M. Musa.* Carly Hansen (Oak Ridge National Laboratory/United States)

A10. Source ID, Loading Assessment, and Control

B9. Advances in Passive Sampling Methods and Case Studies

E7. Geotechnical Engineering and Structural Consideration

2:55-4:00 p.m.—CLOSING PANEL DISCUSSION (Salon E/F)

4:00-4:45 p.m. —CLOSING RECEPTION (Grand Ballroom Foyer)

All technical sessions are located in the Grand Ballroom, Tampa Marriott Water Street (2nd Floor).

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Our company mission is to transform our environment and communities, with integrity and vibe. **anchorqea.com**

AquaBlok Ltd. supplies a full range of materials that provide engineers with options to implement lower cost and more protective contaminated sediment remediation solutions. Treatment/amendment materials are supplied under the AquaGate name and our low-permeability thin capping materials in all forms are called AquaBlok. Solutions for PFAS contamination in soil, groundwater and surface water are also offered. Key benefits of AquaGate and AquaBlok products include; extensive quality control and assurance of material supplied, the use of high-performance powder materials (higher adsorption than granular materials), uniform mixing and documented placement with sand or other materials and finally, the confidence that comes with a history of successful project applications. **aquablok.com**

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EA's sediment investigation and remediation experience includes a range of regulatory frameworks and drivers, including CERCLA, RCRA, NEPA, dredged material management guidance, habitat restoration, and natural resources compliance. Our sediment management professionals, who average more than 15 years of experience, are skilled at executing work in freshwater, estuarine, and marine systems.

Our scientists and engineers have provided remedies for more than 1 million cubic yards of contaminated sediment for multiple EPA regions, state environmental agencies, and private entities. Our project teams have demonstrated experience addressing the unique challenges associated with characterization and remediation of contaminated sediment sites in lakes, streams, rivers, estuaries, and wetland environments.

Over the past 15 years, EA has completed more than $100 million in contaminated sediment investigation, design, and construction oversight under CERCLA, RCRA, and the Great Lakes Legacy Act. **eaest.com**

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NOTES

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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.

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MONDAY, January 27	TUESDAY, January 28	WEDNESDAY, January 29	THURSDAY, January 30
7:00-8:00 a.m. —Morning Course Check-In 12:00-1:00 p.m. —Afternoon Course Check-In 2:00-8:30 p.m. —Conference Registration Open	7:00 a.m.-7:00 p.m.—Registration, Exhibits, Poster Group 1 Display 7:00-8:00 a.m.—Breakfast 9:30-10:00 a.m.—AM Beverage Break 11:30 a.m.-1:00 p.m.—Lunch 3:00-3:30 p.m.—PM Beverage Break	7:00 a.m.-7:00 p.m.—Registration, Exhibits, Poster Group 2 Display 7:00-8:00 a.m.—Breakfast 9:30-10:00 a.m.—AM Beverage Break 11:30 a.m.-1:00 p.m.—Lunch 3:00-3:30 p.m.—PM Beverage Break	7:00 a.m.-4:00 p.m.—Registration 7:00 a.m.-1:00 p.m.—Exhibits, Poster Group 2 Display 7:00-8:00 a.m. —Breakfast 9:30-10:00 a.m.—AM Beverage Break 11:30 a.m.-1:00 p.m.—Lunch 4:00-4:45—Closing Reception
8:00 a.m.-5:00 p.m.	**8:00 a.m.-5:35 p.m. Platform Sessions**	**8:00 a.m.-5:35 p.m. Platform Sessions**	**8:00 a.m.-2:40 p.m. Platform Sessions**
Short Courses **Indicates a "**laptop-required**" course.* **8:00 a.m.-5:00 p.m. (half-day)** • ASTM Sediment Guidance Training **8:00 a.m.-12:00 noon (half-day)** • Dredging 201: Introduction to Sediment Remediation • Environmental Forensics: Origin, History, Fate and Characterization of Contaminants • ITRC Sediment Capping Chemical Isolation Design, Construction, and Monitoring **1:00-5:00 p.m. (half-day)** • Evaluating Sediment Transport: Best Practices, Tools, Techniques, and Application to Site Management • PFAS and Sediment: Background, Sampling, and Transport • *Training on Using the CapSIM Model for In Situ Remediation Design **Student & Young Professional Events** See page 11 for room assignments. **1:00-2:40 p.m.** • Career Development, Direction, and Growth Panel Discussion **3:00-5:00 p.m.** • Career KickStarter	A1. Characterization and Remediation of PFAS-Contaminated Sediments A2. PFAS Analytical Testing A3. Contaminant Forensics	A4. Field Sampling Methods and A5. Innovative Characterization and Assessment Approaches A6. Innovative Characterization and Assessment Tools A7. Long-Term Monitoring Strategies	A8. Chemical/Toxicological/Biological Measurements and Monitoring A9. Nanomaterials, Microplastics and Other Emerging Contaminants A10. Source ID, Loading Assessment, and Control
	B1. Contaminant Bioavailability and Bioaccumulation B2. Contaminant Fate and Transport in Sediments B3. Food Web Studies and Risk Assessment B4. PFAS Bioavailability, Bioaccumulation, and Risk Assessment	B5. Ebullition B6. Advanced Data Analysis and Decision Tools B7. Hydrodynamics and Sediment Transport	**PANEL:** Understanding Environmental Justice and Fostering Community Engagement in the Context of Contaminated Site Management B8. Environmental Justice Considerations in Sediment Projects B9. Advances in Passive Sampling Methods and Case Studies
	C1. Adaptive Management Approaches C2. Climate Change Resiliency and Adaptation C3. Communication and Facilitation with Interested Parties C4. Remedial Cleanup Objectives and Approaches for Optimized Remedial Development	C5. Determining Background C6. Great Lakes Legacy Act Successes and Challenges C7. Characterization and Monitoring of NAPL and MGP Sites C8. Site Management Decisions and Remedy Cost Allocation	C9. Groundwater/Sediment/Surface Water Interactions C10. Canadian Great Lakes Sediment Management
	D1. Cap Modeling D2. Dredging Design and Dredged Material Handling and Disposal D3. Remedial Design Considerations **PANEL:** Visioning, Collaborating, and Implementing Remediation and Restoration to Prioritize Environmental and Societal Benefits	D4. Beneficial Use of Contaminated Sediments D5. Monitored Natural Recovery and Sediment Bioremediation D6. In Situ Treatment Amendments D7. Cap Design, Construction, and Operation	D8. Restoration, Revitalization, Redevelopment, and Sustainability
	PANEL: Choosing In Situ Stabilization and Solidification to Replace Dredge and Cap at the Lasco Sediments Site in the Portland Harbor Superfund Site E1. Lessons Learned in Remedy Implementation E2. Dredging Case Studies E3. In Situ Stabilization	**PANEL:** Assessing PFAS in Sediments: The Importance of Sediment-Water Dynamics in Chemical Fate and Transport, Risk Assessments, and Developing Regulations E4. Field-Scale Application of In Situ Treatment Technologies E5. Monitoring and Evaluating Remedy Effectiveness **PANEL:** Lessons for Remediating Large Complex Sediment Sites without Federal or State Agency Involvement	E6. Engineering with Nature **PANEL:** The Role of Tribes as Sovereign Nations E7. Geotechnical Engineering and Structural Considerations
5:30-7:00 p.m. Plenary Session **7:00-8:30 p.m. Welcome Reception, Exhibits, Poster Group 1 Display**	**5:45-7:00 p.m. Poster Group 1 Presentations and Reception**	**5:45-7:00 p.m. Poster Group 2 Presentations and Reception**	**2:55 p.m. Closing Panel Discussion** **4:45 p.m. Conference Adjourns**