

CALL FOR ABSTRACTS

**Battelle**

*The Business of Innovation*

Seventh  
International  
Conference on



# Remediation of Contaminated Sediments

February 4-7, 2013

Hyatt Regency Hotel

Dallas, Texas



**DUE JUNE 30, 2012**

Presented by

**Battelle**

*The Business of Innovation*

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The **Seventh International Conference on Remediation of Contaminated Sediments** will be held February 4-7, 2013, at the Hyatt Regency Hotel in Dallas, Texas. This conference series focuses on the global challenges of contaminants in the sediments of streams, rivers, lakes, bays, harbors, and oceans, where they present a potential risk to human and ecological health, impair economic development, and impede revitalization efforts. To maintain the economic and ecological viability of these environments, it is necessary to manage complex series of actions that affect a wide range of environmental, economic, political, and social issues. Each conference in this series addresses the challenges of combining basic and applied research and new characterization and assessment methodologies with innovative approaches to engineering/controls, monitoring, and sustainable management, providing environmental solutions for a large and diverse group of stakeholders.

The Sixth Sediments Conference, held in New Orleans in February 2011, was attended by 1,100 scientists, engineers, regulators, remediation site owners, and other environmental professionals, representing universities, government agencies, consultants, and R&D and service firms from around the world. The technical program encompassed 430 platform and poster presentations.

The Conference is organized and presented by Battelle; sponsors are public- and private-sector organizations active in environmental assessment, remediation, and management. Program Chairs for 2013 are Andy Bullard and Eric Stern, both of Battelle.

## Program Committee

### Conference Chairs

Andrew K. Bullard (Battelle)

Eric A. Stern (Battelle)

### Technical Steering Committee

Eric Blischke (CDM Smith)

Deirdre T. Dahlen (Battelle)—*TSC Coordinator*

Espen Eek (Norwegian Geotechnical Institute)

Kevin H. Gardner (University of New Hampshire)

Marc S. Greenberg (U.S. EPA)

Cmdr. Eric King (U.S. Coast Guard)

Victoria J. Kirtay (U.S. Navy)

Igor Linkov (U.S. Army Corps of Engineers)

John Morris (Honeywell)

Steven C. Nadeau (Honigman Miller Schwartz and Cohn LLP)—*Coordinating Director, Sediment Management Work Group*

Gregory W. Peterson (LimnoTech)

## Conference Overview

Short courses will be offered on Monday, February 4. Exhibits will open late Monday afternoon, and a welcome reception will be served; the Plenary Session will convene on Monday evening. The Technical Program will be conducted Tuesday through Thursday, with platform talks and panel discussions during the day and poster receptions Tuesday and Wednesday evenings. A Student Paper Competition will be conducted, the first for the Sediments Conference.

We hope you will plan to submit an abstract to be considered for the program. **To be considered for placement in the program, abstracts should be submitted by June 30.** The program will be developed on the basis of the abstract review conducted by the Program Committee and the session chairs. The platform and poster sessions will address essentially all aspects of contaminated sediment remediation and management. See page 2 for the anticipated scope of the technical program and page 4 for information on preparing and submitting abstracts.

As the program develops, information will be added to [www.battelle.org/sedimentscon](http://www.battelle.org/sedimentscon). The Preliminary Program brochure will be available at the Web site in October. It will provide details on the session schedule, a list of the platform and poster presentations in each session, and course descriptions.

Trinity River and Dallas Skyline — Photo: Dallas Convention and Visitors Bureau



# Technical Program Scope

The Conference program will cover nearly all aspects of contaminated sediment characterization and assessment, management, and remediation and restoration. Examples of anticipated presentation topics are listed below. The list is numbered to provide an easy means of referencing these topics on your abstract submittal form; see the “Submittal” paragraph on page 4. ***This is not a list of sessions, nor is it a comprehensive list of topics. Abstracts are welcome on all relevant topics.***

## Sediment Processes and Modeling

- 1a Groundwater/porewater/surface water interactions
- 1b Bioavailability of contaminants
- 1c Contaminant partitioning in sediments
- 1d Contaminant fate and transport
- 1e Sediment transport: Fundamentals and applications
- 1f Geomorphology-guided sediment characterization and remediation
- 1g Geospatial delineation of remediation footprints
- 1h Decision analysis modeling and tools

## Characterization, Assessment, and Monitoring

- 2a Chemical/toxicological/biological measurements and characterization
- 2b Noncontaminant stressors
- 2c Emerging contaminants
- 2d Ecological and human-health risk assessment
- 2e Applications of innovative characterization and assessment
- 2f Field sampling and in situ measurements
- 2g Long-term monitoring strategies and effectiveness
- 2h Contaminant source ID and control
- 2i Contaminant forensics
- 2j Assessment of urban waterways
- 2k Impacts of oil and gas spills and MGPs
- 2l Impacts of hydraulic fracturing
- 2m Impacts of offshore wind farms



Urban Waterways — Photo: Eric Stern.

## Remediation Processes

- 3a Monitored natural recovery (MNR) and enhanced MNR
- 3b Capping
- 3c Environmental dredging
- 3d In situ treatment
- 3e Ex situ treatment
- 3f Hybrid approaches to remedy selection and implementation
- 3g Dredged material dewatering
- 3h Dredged material disposal and containment
- 3i Beneficial use of contaminated sediments
- 3j Remediation in estuarine and marine environments

## Remedy Performance and Challenges

- 4a Successfully combining remedies
- 4b Monitoring effects during remedy implementation
- 4c Using biological monitoring to assess remedy effectiveness
- 4d Resuspension and residuals
- 4e Habitat and wetlands mitigation and restoration
- 4f Shoreline remediation challenges
- 4g Challenges in ports and harbors management
- 4h Regional remediation programs (e.g., Great Lakes, Venice Lagoon, Passaic River, Gulf of Mexico)
- 4i Urban sediment management and redevelopment
- 4j Case studies: Evaluations of remedy effectiveness

## Management and Policy

- 5a Sediment quality guidelines
- 5b Sediment TMDLs
- 5c Defining background and establishing remediation goals
- 5d Risk-based management and cleanup decisions
- 5e Assessment and remediation of UXO and radiological sites
- 5f Site management decision strategies
- 5g Ecosystem and watershed assessment and management
- 5h Frameworks for integrating restoration strategies
- 5i Adaptive management
- 5j Life-cycle/multicriteria decision analysis
- 5k Cost-share alternatives to Superfund
- 5l Green and sustainable sediment management
- 5m Effective communication and facilitation with stakeholders
- 5n Socioeconomics and politics in contaminated sediments management

# Abstract Preparation and Submittal

Abstracts should be submitted by the **June 30 due date**. Because several hundred abstracts will be received for review, abstracts must be well-written, clearly and concisely outlining the material being proposed for presentation. Abstracts will be evaluated for technical merit and relevance during a multilevel review beginning in July. Program Committee members will perform the initial review and sorting, and the session chairs will make the final decisions on which abstracts will be placed in the platform and poster sections of their sessions. **Abstracts with a pronounced commercial slant will not be accepted.**

**Format/Content.** Abstracts must be in English, cannot exceed one standard-size page, and are to be submitted as Microsoft Word® files. Additional format requirements and an example abstract are available at [www.battelle.org/sedimentscon](http://www.battelle.org/sedimentscon), under “Abstract Specifications and Submittal.” The Web page lists subheadings to be used to convey the information reviewers will need to comprehend the scope of the work and the data likely to be available at the time of the presentation, determine its relevance, compare it with other proposed presentations, and, if it is accepted, assign it to an appropriate platform or poster session.

**Submittal.** To upload abstracts, use the “submittal form” link on the Web page. The form will require complete contact information for the corresponding/presenting author and all co-authors. To suggest the most pertinent subject area(s), refer to the example topics beginning on page 2 and enter up to three codes (e.g., 3c, 4a, 4d) or, if the abstract is being submitted at the request of a prospective session chair, state that person’s name. Please indicate whether a platform (oral) or a poster presentation is preferred. **Note: the corresponding/presenting author’s preference will be taken into account by the reviewers, but**



Old Red Courthouse and Reunion Tower  
Photo: Clay Coleman/Dallas CVB



M-Line Trolley—Photo: Clay Coleman/Dallas CVB

**placement cannot be guaranteed.** Final decisions on placement will be based on best overall design of the Conference program. Each abstract should be sent only once—please do not resubmit unless no acknowledgment of receipt has been received after one week.

**Notification of Acceptance/Placement.** Abstracts will be reviewed for technical merit and relevance to the Conference. By September 30, an e-mail will be sent to the corresponding/presenting author of each abstract, stating the placement decision. If the abstract was accepted, this e-mail will state the platform or poster session to which it was assigned and provide information on preparing the presentation and submitting an updated abstract before the Conference.

**No financial assistance is available to support registration or other costs of attending the Conference. All presenting authors and session chairs are expected to register and pay the applicable technical-program registration fees. This policy is necessary because registration fees are the major source of funding for the Conference and a significant percentage of registrants will make presentations or chair sessions.**

**Proceedings.** Technical papers will be invited for all platform and poster presentations and will be due about one month before the Conference. The September placement e-mail will provide information about the submittal process. Each presentation given at the Conference will be represented on the proceedings disc by a text file, either a paper or an abstract. Technical papers are preferred because they provide a much more complete record of the material presented. However, if no paper is submitted for a given presentation, the abstract will be used in its place. In addition, the PowerPoint files for platform presentations will be converted to PDF after the Conference and included in the proceedings.

## Short Course Proposals

Courses on topics within the scope of the Conference will be offered on Monday, February 4, before the technical program begins. **Course proposals will be accepted through July 31.** Proposals should provide the following information:

- ▶ Summary of course content—a concise (maximum 250 words) description of the technology or approach that is the subject of the course, situations in which it would be applicable, and the intended audience. The summary will be used to evaluate the course and, if the course is selected, will be used in the descriptions provided to prospective registrants.
- ▶ Length (4 or 8 hours)
- ▶ Biosketches for all instructors
- ▶ Draft agenda and a list of the course materials to be provided to participants
- ▶ Indicate whether or not students will need computers for classroom exercises.

Submit proposals to [sedimentscon@battelle.org](mailto:sedimentscon@battelle.org). Course proposals will be evaluated, and you will be notified by August 31. If your course is selected, you will receive information about scheduling and how course registration will be handled. Course descriptions will be included in the Preliminary Program brochure, which will be available at [www.battelle.org/sedimentscon](http://www.battelle.org/sedimentscon) in October.

## Student Participation

University students are encouraged to attend the Conference and will find their participation 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.

**Reduced Registration Rate.** The student rate provides full access to all technical sessions, exhibits, and meals. Full-time university students through Ph.D. candidates are eligible; documentation of current enrollment is required.

**Student Paper Competition.** Student papers may be submitted on any topic relevant to the overall technical scope of the Conference. An individual



may submit only one paper, and winners of student paper competitions at past Battelle conferences are not eligible. The primary author must (a) be a full-time student at the time the paper is submitted and (b) give the corresponding poster or platform presentation at the Conference. The primary author of each winning paper will receive a complimentary registration and a cash award, which will provide substantial assistance with travel and hotel costs.

**Student papers are due October 15.** Students who wish to present their work at the Conference whether or not they win the competition should submit abstracts by the June 30 abstract due date. They may then submit their competition papers by the October 15 student paper due date. Student papers should not exceed 10 pages (including figures, tables, and references). Detailed specifications and submittal information will be available at [www.battelle.org/sedimentscon](http://www.battelle.org/sedimentscon) by July 31. Papers may be declined if they do not arrive by October 15 or do not meet the format specifications. The Student Paper Committee will review papers for originality of the research, clarity of data presentation, and discussion of results. Competition participants will be informed of the results in November.

**To inquire about becoming a corporate sponsor for the student paper competition, please call 800-783-6338 (USA/Canada) or 614-488-2030, or send an e-mail to [info@confgroupinc.com](mailto:info@confgroupinc.com).**

## Call for Exhibits

Organizations that provide sediment assessment, remediation, and management services and products are invited to exhibit at the Conference. Exhibitors will have the opportunity to present information to a focused audience of several hun-

dred people who acquire and use environmental management products and services at industrial and government sites around the world. Breakfast, lunch, break, and reception service and seating and posters will be located within the exhibit area. The fee for an 8-ft x 10-ft booth and standard furnishings is \$2,995 if payment is made by September 17 and \$3,195 if paid later.

Conference sponsors will be contacted in June to select their booth spaces. The exhibit brochure will be posted at [www.battelle.org/sedimentscon](http://www.battelle.org/sedimentscon) on July 17. The brochure will contain the contract, the application form, and a floor plan showing available spaces. Space will be assigned on a first-come/first-served basis, according to receipt of completed application and payment.

## Registration

Go to [www.battelle.org/sedimentscon](http://www.battelle.org/sedimentscon) and register on line or print a form for registration by mail or fax. Exhibit booth staff will be registered by their exhibit managers. Short course registration information will be added to the Web site in October.

We encourage you to register early—program registrations will be limited to the number the facility can accommodate efficiently. The following program registration fees cover admission to all platform and poster sessions, exhibits, group lunches, receptions, and daily continental breakfasts and refreshment breaks. Registration materials will include the final program and a CD containing copies of the abstracts.

	<b>Paid by December 4</b>	<b>Paid after December 4</b>
Industry	US\$895	US\$975
Govt/University*	US\$795	US\$875
Student**	US\$425	US\$475

\* The university fee applies to **full-time faculty** and other teaching and research staff, including post-doctoral students.

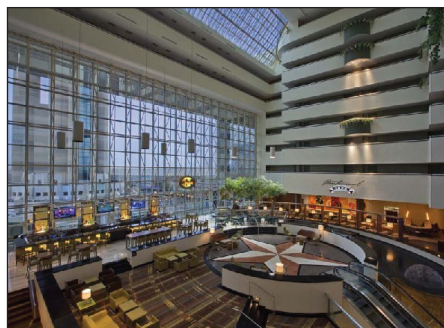
\*\* The student fee is reserved for **full-time students** through Ph.D. candidates whose fees will be paid by their universities or who will not be reimbursed for out-of-pocket payment. Documentation of current enrollment is required.

Payment is required to confirm registration.

**Purchase orders will be accepted, but the registration discounts will apply only if payment is received by the specified date.** Payment can be made by major credit card, check, or bank transfer. For cancellations received by December 31, the

registration fee will be refunded, less a \$50 service fee. **No refunds will be made after December 31**, but paid no-shows will receive all materials covered by their registration fees. Substitutions will be accepted at any time, preferably with advance notice.

## Conference Hotel



Hyatt Regency Atrium

The Conference will be held at Hyatt Regency Dallas (300 Reunion Blvd, Dallas, TX 75207). This distinctive luxury hotel is situated adjacent to many sight-seeing, shopping, and entertainment

venues of downtown Dallas. Hyatt Regency Dallas adjoins the 50-story Reunion Tower, whose lighted globe makes it a landmark on the Dallas skyline.

The atrium-style lobby features glass architecture and a waterfall, with numerous seating nooks throughout where guests may converse or make use of the wireless high-speed Internet access. Two restaurants, a coffee shop, and a lounge provide a full range of dining and refreshment options. For a special dining experience and a great view of the city lights, guests can take the glass elevators to celebrity chef Wolfgang Puck's fine-dining restaurant, *Five Sixty*, which revolves on the top level of Reunion Tower.

Hotel guests will have complimentary access to guest room high-speed Internet service and the 24-hour Hyatt Stay Fit Fitness Center. Concierge, business center, secretarial, and babysitting services are available. The Hyatt provides complimentary transportation (subject to availability) to the central business district Monday-Friday and also offers direct, easy access to the Dallas Area Rapid Transit (DART) Light Rail via a concourse to historic Union Station. Valet parking at the Hotel is available for \$22/day + tax; self-parking is available in a nearby lot. For more information and photos of the hotel's public areas and guestrooms, visit [www.dallasregency.hyatt.com](http://www.dallasregency.hyatt.com).

A block of rooms has been set aside at Hyatt Regency Dallas for Conference attendees. The

group rate is \$169 per night single/double plus applicable taxes and hotel fees. A percentage of the block will be available at the prevailing U.S. Government per diem rate at the time of the Conference. A link to on-line room reservations will be available at [www.battelle.org/sedimentscon](http://www.battelle.org/sedimentscon) by April 16, 2012. You may also call Hyatt Central Reservations (888-421-1442); to secure the group rate, state that you are attending the “Battelle Sediments Conference.” The rates are in effect for reservations made by January 4, 2013, unless rooms in the block sell out before that date. Subject to availability of rooms at the time reservations are made, the Conference rate can be used for check-in as early as Monday, January 28, and check-out as late as Monday, February 11.

Airport transportation between the Hyatt and Dallas-Fort Worth International (DFW) or Love Field (DAW) is available by taxi at approximately \$50 and \$20, respectively. Super Shuttle is available; see [www.supershuttle.com](http://www.supershuttle.com) for details. DART also provides rail and bus service; see [www.dart.org](http://www.dart.org) for details.

## Dallas

Hyatt Regency Dallas is adjacent to the West End historic and entertainment district. Within just four blocks of the Hotel are some of the most



View from Reunion Tower

visited spots in downtown Dallas. The historic and stately **Old Red Courthouse** was built in 1892 of red sandstone, in Romanesque style and with intricate tile work, grand arched hallways, and stained glass windows. It now houses the Dallas Visitor Information Center and exhibits tracing the history of the city. The **Sixth Floor Museum at Dealey Plaza** provides tours of the former Texas School Book Depository, linked to the assassination of John F. Kennedy. Videos, photographs, and artifacts provide information on the investigations and various theories as well as on the social culture of the 1960s. The largest open space in the central business district, **Pioneer Plaza** recreates a cattle drive with bronze statues of cowboys driving long-horn cattle through native landscaping and a flowing stream with waterfall.



Cattle Drive - Pioneer Plaza—Photo: Clay Coleman/Dallas CVB

The museums and performance halls of the **Dallas Arts District**, the historic buildings of the **Dallas Heritage Village**, and the **Neiman Marcus** flagship store border the West End to the east and south. **American Airlines Center** offers NBA Mavericks and NHL Stars games, as well as concerts and other entertainment events. For information on additional attractions in downtown Dallas and in the metropolitan Dallas-Fort Worth area, go to [www.visitdallas.com](http://www.visitdallas.com).

## Inquiries

### **Questions on abstract and student paper submittals and short course proposals:**

Gina Melaragno, phone: 614-424-7866;  
e-mail: [sedimentscon@battelle.org](mailto:sedimentscon@battelle.org).

### **Conference or Student Paper sponsorship, exhibits, and registration:**

The Conference Group (1580 Fishinger Road, Columbus, OH 43221), e-mail: [info@confgroupinc.com](mailto:info@confgroupinc.com); phone: 800-783-6338 (U.S. and Canada) or 614-488-2030; fax: 614-488-5747.

## Sustainable Meetings

Battelle works to reduce the environmental impact of the *International Conference on Remediation of Contaminated Sediments* and the other conferences we conduct. Brochures are printed with soy-based inks on post-consumer recycled paper, and we've reduced the quantity of paper consumed. CDs and DVDs have replaced printed abstract books and proceedings. Instead of printing and mailing thousands of copies of the 40-page Preliminary Program, the document will be posted as a PDF at [battelle.org/sedimentscon](http://battelle.org/sedimentscon). Brief brochures highlighting the various aspects of the program will be mailed, directing readers to the details on the Web site. We will work with the Hotel to review catering and other services at the Conference site to make them as sustainable as possible.

# Battelle

*The Business of Innovation*

**The Conference is organized and presented by Battelle.**

Battelle offers specialized environmental expertise to government and industrial/commercial clients within the U.S. and around the globe. Combining science-based approaches with innovative environmental management strategies, Battelle works with clients and project managers to develop technically sound and cost-effective solutions for the challenges inherent in integrated and sustainable management of complex contaminated sediment sites. Battelle is the world's largest independent research and development organization, providing innovative solutions to the world's most pressing needs through its four global businesses: Energy, Environment, and Material Sciences; National Security; Health and Life Sciences; and Laboratory Management. It advances scientific discovery and application, conducting \$6.5 billion in global R&D annually through contract research, laboratory management, and technology commercialization. Headquartered in Columbus, Ohio, the Battelle team is made up of 22,000 employees in more than 130 cities worldwide, including seven national laboratories that Battelle manages or co-manages for the U.S. Department of Energy and the U.S. Department of Homeland Security and one international nuclear laboratory in the United Kingdom. Battelle is one of the nation's leading charitable trusts, focusing on societal and economic impacts and actively supporting and promoting science and math education.

[www.battelle.org](http://www.battelle.org)



Photo: Shawn Majors

## Sponsors

**The following organizations have committed financial support to the Conference.**



MEETING DOD'S ENVIRONMENTAL CHALLENGES

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