

# events

## In-situ Contaminated Sediment Capping Workshop

*MGP Site Management Target*

### Objectives

This will be a national workshop to review the science, technology and applications of capping at contaminated sediment sites, examine lessons learned, and discuss future directions.

Sediment issues have caught the attention of the regulators at both State and Federal levels in the recent past. Significant expenditures are anticipated nationally and internationally to address sediment issues in the future. It is therefore important that the solutions to sediment issues be based on sound science and effective technology so that environmentally acceptable and cost effective solutions are implemented at these impaired sites.

Capping is one of the major options to remediate contaminated sediment, along with dredging and natural recovery. This workshop will include overviews from regulators, agencies and industry and address important issues in several areas, such as:

- Physical, chemical and biological characterization/assessment issues during site characterization
- Design theory and issues, design and construction methods, implementation tools, and evaluation of processes and other considerations during design, maintenance and performance of capping systems
- Case studies and cost implications
- New developments and R&D opportunities such as adsorptive/reactive caps, biological enhancements etc.
- Monitoring, protocols, data interpretation, and long-term assessment

The workshop is expected to last two and a half days and will feature invited dignitaries and keynote speakers. It will be held in the city of Cincinnati, Ohio.

**May 12-14, 2003  
Cincinnati, OH**



**US Army Corps  
of Engineers®**

DECEMBER 2002

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CONFERENCE REGISTRATION

**In-situ Contaminated Sediment Capping Workshop  
May 12-14, 2003, Cincinnati, OH**

Name \_\_\_\_\_

Title/Department \_\_\_\_\_

Organization \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone (     ) \_\_\_\_\_ Fax (     ) \_\_\_\_\_

E-mail Address \_\_\_\_\_

Registration Fee is as follows:

- \$225 All participants
- \$175 Government agencies, universities, and EPRI Program 50 (MGP) funders

Registration fee will entitle you to the continental breakfast, lunches, coffee breaks and all the conference hand out materials.

**Method of Payment**

I will send a check, payable to EPRI, attention: Donna Petersen, Distribution Center, 1355 Willow Way, Suite 278, Concord, CA 94520

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Donna Petersen, EPRI Processing, 1355 Willow Way, Suite 278, Concord, CA 94520-5728, phone (925) 609-9568, fax (925) 609-1310, or email to meeting@epri.com

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## Registration

The registration desk will be open at 10:00 a.m. on Monday, May 12<sup>th</sup>. The workshop will start at 12 Noon and conclude on Wednesday, May 14<sup>th</sup> at 3:30 p.m.

## Accommodations

Kingsgate Marriott Conference Hotel

at the University of Cincinnati

151 Goodman Drive

Cincinnati, OH, 45219

Phone: (513) 487-3800

Fax: (513) 487-3810

<http://www.marriott.com/EPP/default.asp?MarshaCode=CVGKG>

Reservations (from U.S. and Canada): 1-888-720-1299.

We have reserved rooms at the rate of \$99. A \$69 government rate is available for government employees who show valid government picture I.D. The cut-off date for reservations is April 18, 2003.

## Preliminary Agenda and Questions to be Addressed

### 1. Overviews

Some of the questions to be addressed by this Workshop are:

- Viability and suitability of capping
- Isolation of contaminated sediments vs release through the cap
- Design and performance issues
- Monitoring and maintenance during and after construction
- Habitat considerations
- New developments etc.

### 2. Site Characterization and Assessment

- General approach and suitability of capping
- Physical, chemical and biological characterization/assessment issues
- Environmental/technical considerations that may make capping impractical
- Predictive methods to assess site suitability and their limitations

### 3. Cap design and Implementation

- Objectives (armoring, stabilization, separation, flux reduction etc.)
- Design issues, theory, design/construction methods
- Tools, processes and considerations in evaluating designs (modeling, bioturbation, disruptive events, scouring, habitat alteration, flood rise analysis)
- Special issues (NAPL, groundwater inflow, gas generation, background and sequestration/bioavailability etc.)
- Placement methods, performance specs/standards, tools and geotechnical considerations, predictive methods and their reliability

### 4. Monitoring, Maintenance and Long-term Assessment

- Performance measurement, methods and elements of effective monitoring programs
- Construction monitoring and control, parameters, water quality and resuspension
- Long-term monitoring purpose and parameters, and tools
- Sampling design, monitoring techniques (physical, chemical, and biological), protocols and methods
- Data Interpretation and impacts

### 5. Case Histories

- Specific sites (Grasse, Duluth/Puget Sound, Soda Ash etc.)
- Monitoring and long-term assessment (Tacoma, Laconia etc.)
- Databases (EPA, Industry)
- Costs

### 6. New Developments/R&D Opportunities

- Adsorptive Reactive Caps (carbon, reactive iron etc.)
- Anacostia River Study
- Emerging Site Characterization, monitoring and other tools
- Biological Enhancements
- Other Innovative Designs
- Measurement of success

### 7. Concluding Discussions

## Co-sponsors

Army Corps of Engineers (ACOE)

Environmental Protection Agency (EPA)

National Oceanic & Atmospheric Admin (NOAA)

NAVFAC Engineering Command

## Supporters

Hazard Substances Research Center-SW (HSRC-SW)

New York State Dept. of Env. Conservation (NYSDEC)

Sediment Management Work Group (SMWG)

**[Click Here For Electronic Registration](#)**