

Professional Conference

Day 1 - Effective Management and Remediation of Contaminated Sediments in Rivers and Ports (Full day Symposium)

Day 2 - Focus on Rivers Projects (Half day Workshop)

Rita Altura Lecture Hall – GWRI Building, Technion City

Sunday-Monday, 7-8 June 2009

Schedule - Morning Session Day 1

Opening Remarks		
8:00 – 8:30	<i>Registration and get together</i>	Grand Auditorium
8:30 – 8:35	<i>“Welcome & Introduction”</i>	Prof. Rafi Semiat
8:35 – 9:05	<i>“Importance of Clean Rivers, Ports & Harbors in Israel”</i>	Dr. Yeshayahou Bar-Or, Chief Scientist of the MoEP
9:05 – 9:35	<i>“Key Findings from U.S. Research Council Studies and U.S. Army Corps of Engineers Work Addressing Contaminated Sediments”</i>	Dr. Todd S. Bridges U.S. Army Corps of Engineers
9:35 – 10:05	<i>“Overview of the Engineering and Environmental Risk Challenges Posed by Contaminated Sediments”</i>	Richard Wenning, Mark Travers & Brent Jones ENVIRON
10:05 – 10:30	Discussion Session	Moderated by Raphi Mandelbaum, Founder & Senior Scientist, LDD
BREAK (30 minutes)		
Characterization of Contaminated Sediment and Restoration Planning		
11:00 – 11:20	<i>“Use of Conceptual Models for Sediment Assessment and Management”</i>	Richard Wenning ENVIRON
11:20 – 11:40	<i>“Optimizing Sediment Investigation, Assessment and Remediation: Using a Streamlined Approach”</i>	Mark Travers ENVIRON
11:40 – 12:00	<i>“Deriving a Sensible Cleanup & Sediment Management Strategy”</i>	Dr. Todd S. Bridges U.S. Army Corps of Engineers
12:00 – 12:20	Discussion Session	Moderated by Prof. Uri Marinov, first General Manager of MoEP
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Schedule - Afternoon Session

Remediation of Contaminated Sediment		
13:30 – 13:50	<i>“In-Situ Remediation and Environmental Molecular Diagnostics – Optimizing Site Remediation”</i>	Dr. Stephen Koenigsberg ENVIRON
13:50 – 14:10	<i>“State of the Engineering Practice for Sediment Remediation”</i>	Brent Jones ENVIRON
14:10 – 14:30	<i>“Using Decision-Making Tools to Make Sensible Sediment Management Decisions”</i>	Dr. Todd S. Bridges U.S. Army Corps of Engineers
14:30 – 14:50	<i>“Conducting Environmental Work at an Active Port Facility – Staying Out of the Way”</i>	ENVIRON & U.S. Army Corps of Engineers
14:50 – 15:10	Discussion Session	Moderated by Dr. Yehuda Heimlich
BREAK (20 minutes)		
Restoration & Monitoring		
15:30 – 15:50	<i>“Implementing an Effective MNR Strategy”</i>	Richard Wenning ENVIRON
15:50 – 16:10	<i>“Tools and Tips for Successful River Restoration Projects”</i>	Architect Amos Brandeis, Architecture, Urban & Regional Planning Ltd.
16:10 – 16:30	<i>“Monitoring and Adaptive Management During Implementation”</i>	Brent Jones & Mark Travers, ENVIRON Dr. Todd S. Bridges U.S. Army Corps of Engineers
16:30 – 17:00	Panel Discussion	Key Stakeholders + ENVIRON + U.S. Army Corps of Engineers
ADJOURN		

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Half-Day Schedule (June 08 2009)

Opening Remarks		
8:00 – 8:30	<i>“Review of Day 1 Discussions and Day 2 Arrangements”</i>	Raphi Mandelbaum LDD
Sediment Management for the Kishon River and the Port of Haifa Session 1		
8:30 – 9:30	<i>Group Discussion A River & Port Characterization and Assessment</i>	ENVIRON, LDD & U.S. Army Corps of Engineers
8:30 – 9:30	<i>Group Discussion B Remediation, Restoration & Post-Construction Management</i>	ENVIRON, LDD & U.S. Army Corps of Engineers & Architecture, Urban & Regional Planning Ltd.
BREAK (15 minutes)		
Sediment Management for the Kishon River and the Port of Haifa Session 2, (an opportunity to participate in both discussion groups)		
9:45 – 10:45	<i>Group Discussion A River & Port Characterization and Assessment</i>	ENVIRON, LDD & U.S. Army Corps of Engineers
9:45 – 10:45	<i>Group Discussion B Remediation, Restoration & Post-Construction Management</i>	ENVIRON, U.S. Army Corps of Engineers & Architecture, Urban & Regional Planning Ltd.
BREAK (15 minutes)		
General Session		
11:00 – 11:30	Panel Discussion	Key Stakeholders + ENVIRON + U.S. Army Corps of Engineers
ADJOURN		

LIST OF POSSIBLE THEMES

1. Sediment Management Overview

- Designing a Sediment Remedy
- Use of Conceptual Models for Sediment Assessment and Management
- Overview of Remediation Options (MNR, Capping, & Dredging)
- Overview of Ex Situ and In Situ Treatment Methods
- Remediation and Restoration Objectives: How Do We Measure Success?
- Address currently suggested solutions (Marine confinement, Incineration in cement kilns, Landfill in the Ephe Landfill)

2. Characterization of Contaminated Sediment Sites

- Physical and Chemical Stability of Sediments: Using Multiple Lines of Evidence
- Understanding Sediment Stability and Contaminant Mobility
- Biological / Ecological Baseline Investigation
- Deriving Sensible Risk-Based Cleanup Targets

3. Remedy Engineering Design

- Risk of Remedy Analysis
- Using Comparative Risk & Engineering Evaluation
- Project Design Criteria / Performance Standards
- Projecting Environmental Risks and Addressing Technical & Cost Uncertainties

4. Environmental Dredging

- Environmental Dredging Project Evaluation
- Operating Methods and Strategies
- Environmental Dredging Equipment and Processes
- Transportation, Offloading, and Rehandling
- Integration of Dredging and Disposal
- Equipment Capabilities and Selection Factors
- Dredged Material Evaluation and Testing Overview
- Management and Control Measures
- Monitoring
- Contracts, Inspection and Oversight Considerations
- Case Studies

5. Assessing and Managing Risks During Dredging

- Risk Management and Dredging
- Dredging Resuspension Issues and Risks
- Managing Risks Thru Engineering and Operational Controls
- Monitoring and Adaptive Management During Implementation
- Case Studies

LIST OF POSSIBLE THEMES (cont-)

6. Upland Placement: Assessment and Management

- Project Design Criteria / Performance Standards for Upland Placement
- Risk Assessment of Land Disposal Operations
- Beneficial Uses of Dredged Material
- Case Studies

7. Aquatic Placement: Assessment and Management

- Project Design Criteria / Performance Standards for Aquatic Placement
- Capping Methods
- Thin-Layer and Thick Caps: Physical and Chemical Processes Affecting Cap Design and Performance
- Risk Assessment of CADs
- Open Water Site Management and Placement Controls
- Case Studies

8. In-situ Treatment & Management of Contaminated Sediments

- In-situ solidification of sediments
- In-situ stabilization
- In-situ cap and treatment technologies
- Case studies

9. Other Ex-Situ Management Options

- Ex-situ and in-situ biotreatment of contaminated sediments
- Landfarming of polycyclic aromatic hydrocarbons and mineral oil contaminated sediments
- Phytoremediation of dredged material and wetlands
- Case studies

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