



TEXAS A&M
UNIVERSITY

Dredging Summit & Expo 2014

Expanding the Dredging World

A wide-angle photograph of the Toronto skyline across a body of water. The CN Tower is the central focus, standing tall against a clear blue sky. Other skyscrapers and buildings are visible in the background. The water in the foreground is calm, reflecting the sky and buildings. A small boat is visible on the water.

Conference Program

June 15 – 18, 2014

Fairmont Royal York Hotel, Toronto, Ontario, Canada

WESTERN DREDGING ASSOCIATION (WEDA)

The **Western Dredging Association (WEDA)** region covers North, Central, and South America; the **Central Dredging Association (CEDA)** covers most of Europe, Africa, the Mid and Near East; the **Eastern Dredging Association (EADA)** covers the Far East and Pacific region. These three organizations constitute the **World Organization of Dredging Associations (WODA)** with equal representation on the Board of Directors of WODA. The goals and objectives are common for each of the three organizations; however, operations to attain these are carried out independently.

WEDA Goals and Objectives

- To promote the exchange of knowledge in fields related to dredging, navigation, marine engineering, and construction by sponsoring or co-sponsoring national and international technical conferences, seminars, exhibitions, seminars, and symposiums, including publication and dissemination of the proceedings.
- To provide a forum for improvement of communications, technology transfer, and cooperation among associations, societies and all organizations interested in dredging, navigation, marine engineering, and construction.
- To emphasize the importance of understanding and development of solutions for problems related to the protection and enhancement of the marine environment.
- To encourage educational institutions to initiate programs and courses to prepare students for employment in the dredging, navigation, and marine engineering fields.
- To support educational institutions for students interested in pursuing dredging and marine engineering as a career.
- To promote membership in and furtherance of the Western Dredging Association through the establishment and support of chapters.
- To recognize individuals and organizations for outstanding engineering and operational achievements.

WEDA BOARD OF DIRECTORS

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Anchor QEA, LLC

Marcel Hermans, *Vice President*

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USACE New Orleans District

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Natural Resource Technology

*Non-voting Board Member

CONFERENCE ORGANIZING COMMITTEE

Lawrence Patella, *Executive Director*

Western Dredging Association

Robert Ramsdell, *Chair, Technical Paper Committee*

Great Lakes Dredge & Dock Company

Robert Randall, *Member, Technical Paper Committee (Editor, Conference Proceedings)*

Texas A&M University (TAMU)

Julie Rosati, *Member, Technical Paper Committee*

USACE, Coastal and Hydraulics Laboratory

Robert Wetta, *Member, Technical Paper Committee*

DSC Dredge, LLC

GENERAL INFORMATION

Registration/Information Desk *Concert Hall Foyer*

Sunday, June 15, 2014	8:00 am – 5:00 pm
Monday, June 16, 2014	6:30 am – 5:00 pm
Tuesday, June 17, 2014	6:30 am – 5:00 pm
Wednesday, June 18, 2014	6:30 am – 12:00 pm

Admission to Functions

Badges are to be worn by all registered delegates, exhibitors, guests, and spouses for entrance into *all* meetings, technical sessions, exhibit hall, and social functions. *Those not wearing a badge will be refused entrance.*

Meeting Attire

Casual clothing is appropriate for all daytime technical sessions and luncheons. Appropriate attire for the Icebreaker is dressy casual; for the Board Dinner, jacket and tie for men and cocktail attire for women is appropriate.

Messages

You may check messages on the message board located near the Registration Desk in the Concert Hall Foyer. Any changes to the program will also be posted there.

Door Prizes

Four (4) door prizes will be awarded randomly throughout each day. To be eligible for the daily door prizes, you will have to fill out door prize tickets located at each exhibitor booth. There is no limit to how many times you may visit a booth and fill out a daily door prize ticket. To be eligible for the grand door prizes of “hotel accommodations at WEDA 35/TAMU 46 or the \$500 in Cash,” you will have to place your badge in a special collection box just prior to the Closing Ceremony. **You must be present to win.**

Ticketed Events

Your **badge** is your ticket to all events.

Best Paper Awards

Cash prizes will be presented during the closing ceremonies.

Ceremony	Cash Prize
DSC Dredge, LLC Best Paper Award on the topic “Why Dredging is Good?”	\$1000 USD
DCA/WEDA Best Paper Award	\$1000 USD
Anchor QEA Young Author Best Paper Award	\$500 USD

GENERAL INFORMATION

Tours/Spouse/Social Program

Day	Time	Activity
Sunday, June 15, 2014	8:30 am to 5:30 pm	Tour to Niagara Falls (additional fee)
Sunday, June 15, 2014	1:00 pm to 5:00 pm	WEDA Continuing Education Short Course: Responsible Design of Dredging Projects
Sunday, June 15, 2014	7:00 pm to 10:00 pm	Hosted Reception/Ice Breaker in Exhibit Hall
Monday, June 16, 2014	9:00 am to 3:00 pm	Special Spouses/Partner Tour
Tuesday, June 17, 2014	9:00 am to 3:00 pm	Special Spouses/Partner Tour
Tuesday, June 17, 2014	3:00 pm to 3:30 pm	Ice Cream Social in Exhibit Hall
Tuesday, June 17, 2014	7:00 pm to 10:00 pm	Conference Dinner
Wednesday, June 18, 2014	1:00 pm to 5:00 pm	Post Conference Tour to Randle Reef

Exhibitor Set Up and Tear Down

Exhibitors may commence setting up their booths at 12:00 noon on Sunday, June 15 in the Concert Hall. Tear down will be allowed after the 10:00 am Refreshment Break on Wednesday, June 18.

Sustaining Members

American Chemical Technology, Inc.	J.F. Brennan Company
Anchor QEA, LLC	Moffatt Nichols
Arcadis-US, Inc.	Natural Resource Technology
ARC Surveying and Mapping	Neptune Flotation
Bean Companies	Parsons Brinckerhoff
Coast & Harbor Engineering	Port of Portland
Dalton, Olmsted & Fuglevand, Inc.	Portable Barge Services, Inc.
Dredge Technology Corporation	SAM, Inc.
DSC Dredge, LLC	Snyder Industries
Great Lakes Dredge & Dock Co.	Southern Dredging Company
Hartman Associates, LLC	The Intelligence Group

Sponsors

Anchor QEA, LLC	GIW Industries
BOC Water Hydraulics, Inc.	Great Lakes Dredge & Dock Co.
Dalton, Olmsted & Fuglevand	IHC Holland BV
DSC Dredge, LLC	Manson Construction
Ellicott Dredges, LLC	Natural Resource Technology

WEDA SUMMIT & EXPO 2014

Schedule

Sunday, June 15

8:00 am – 5:00 pm Exhibitor Setup *Concert Hall*

8:30 am – 5:30 pm Niagara Falls Tour

9:00 am – 5:00 pm Registration *Concert Hall Foyer*

1:00 pm – 5:00 pm **WEDA Continuing Education Short Course: Responsible Design of Dredging Projects** *British Columbia Room*

7:00 pm – 9:00 pm Hosted Reception (Icebreaker) *Concert Hall*

Sunday

WEDA CONTINUING EDUCATION SHORT COURSE

Sunday, June 15: 1:00 pm – 5:00 pm

Short Course: Responsible Design of Dredging Projects, *British Columbia Room*

1:00 pm	–	1:10 pm	Welcome Robert Randall (Texas A&M University)
1:10 pm	–	2:00 pm	Geotechnical Sampling Needs for Dredging Projects Greg Sraders (Great Lakes Dredge & Dock Company)
2:00 pm	–	2:50 pm	Excavation & Transport of Dredged Material to Placement Area Robert Randall (Texas A&M University)
2:50 pm	–	3:10 pm	Refreshment Break
3:10 pm	–	4:00 pm	Placement Area Selection and Modeling Donald Hayes (University of Nevada, Las Vegas) Robert Randall (Texas A&M University)
4:00 pm	–	4:50 pm	Meeting Effluent Quality Standards Donald Hayes (University of Nevada, Las Vegas)
4:50 pm	–	5:00 pm	Quiz
5:00 pm			Presentation of Certificates & Adjournment

Sunday

WEDA SUMMIT & EXPO 2014

Schedule

Monday, June 16

6:00 am – 5:00 pm	Registration <i>Concert Hall Foyer</i>
6:00 am – 5:00 pm	Exhibits <i>Concert Hall</i>
6:30 am – 7:30 am	Hosted Breakfast <i>Concert Hall</i>
7:30 am – 9:00 am	Spouses Breakfast <i>York Room</i>
9:00 am – 3:00 pm	Special Spouses/Partner Tour
8:00 am – 9:15 am	WEDA Summit & Expo 2104 Opening Ceremonies <i>Ballroom</i>
9:15 am – 9:30 am	Coffee Break <i>Concert Hall</i>
9:30 am – 12:00 pm	Technical Sessions 1a: Modeling and Analysis <i>Ballroom</i> 1b: Trailing Suction and Deep Depth Dredges <i>Salon B</i>
12:00 pm – 1:00 pm	Lunch <i>Concert Hall</i>
11:45 am – 1:30 pm	Board of Directors Lunch/Meeting <i>York Room</i>
1:15 pm – 3:45 pm	Technical Sessions 2a: Lubricants and Fuels <i>Ballroom</i> 2b: Remediation of Contaminated Sediments – I <i>Salon B</i>
3:45 pm – 4:00 pm	Coffee Break <i>Concert Hall</i>
4:00 pm – 5:30 pm	Technical Sessions 3a: History and Practice of Dredging - I <i>Ballroom</i> 3b: Dredging Case Studies I <i>Salon B</i>
2:30 pm – 5:00 pm	WEDA Environmental Commission Meeting <i>British Columbia Room</i>
2:30 pm – 5:00 pm	Board of Industry Advisors Meeting <i>Québec Room</i>
7:00 pm – 9:00 pm	Board of Directors Dinner <i>Library Room</i>

Monday

OPENING SESSION

Opening Ceremonies

Monday, June 16: 8:00 am – 9:15 am, *Ballroom*

8:00 am	–	8:20 am	Opening Remarks Ram Mohan (WEDA Chairman & President, Anchor QEA, LLC)
8:20 am	–	8:40 am	Local Keynote – Dredging in Canada Roger Santiago (Head, Sediment Remediation, Environment Canada)
8:40 am	–	9:00 am	Local Keynote – Dredging at the Toronto Port K. A. Lundy, P.Eng. (Director of Infrastructure, Planning & Environment with the Toronto Port Authority)
9:00 am	–	9:30 am	Coffee Break, Concert Hall

Monday

TEXAS A&M DREDGING SEMINAR

Monday, June 16: 9:30 am – 12:00 pm

Technical Session 1a: Modeling and Analysis, Ballroom

Chair: Robert Randall (Texas A&M University)

9:30 am	–	10:00 am	Experimental Measurement of a Model Pipeline Dredge Entrance Loss Coefficient Joseph Girani and Robert Randall (Texas A&M University)
10:00 am	–	10:30 am	An Analysis of the Hydrostatic Approach of Wilson for the Friction of a Sliding Bed Sape Miedema (Delft University) Robert Ramsdell (Great Lakes Dredge & Dock Company)
10:30 am	–	11:00 am	Modelling of Seabed Scour in Support of a Marine Pipeline Installation Neil MacDonald and Michael Davies (Coldwater Consulting Ltd.) Conrad Guyatt and Jim Pyrah (DeepOcean1 UK Ltd.)
11:00 am	–	11:30 am	3D Modelling of Combined Dredge and Disposal Plumes Dispersion, Ponta da Madeira, Brazil M. Morais (Vale, Brazil) Mohammad Dibajnia , Qimiao Lu and Charles Fournier (Baird & Associates)
11:30 am	–	12:00 pm	<i>Withdrawn</i>

Technical Session 1b: Trailing Suction and Deep Depth Dredges, Salon B

Chair: Donald Hayes (University of Nevada Las Vegas)

9:30 am	–	10:00 am	High Depth Dredging Solutions Massimo Contri (Dragflow SRL) Maurice Freivokh (Dragflow North America)
10:00 am	–	10:30 am	Applications of Artificial Intelligence on the Dredge Controls of a Hopper Dredger Riny Mourik and Jacco Osnabrugge (IHC Systems)
10:30 am	–	11:00 am	Hopper Dredge Design and Fuel Consumption, A Tool Development Oscar ten Heggeler and Leonard den Boer (IHC Merwede BV) Leo van Ingen (Dredge Technology Corporation)
11:00 am	–	11:30 am	Modern Design of Trailing Suction Hopper Dredges - How Research Leads to Opportunities Erik van der Blom and Andre Kik (IHC Holland BV Dredgers) Leo van Ingen (Dredge Technology Corporation)
11:30 am	–	12:00 pm	Troubleshooting Dredge Sensors and Electronic Components Jay Wise (Kruse Integration, Inc.)

Monday

TEXAS A&M DREDGING SEMINAR

Monday, June 16: 1:15 pm – 3:45 pm

Technical Session 2a: Lubricants and Fuels, *Ballroom*

Chair: Coraggio Maglio (USACE Engineering Research and Development Center)

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|---------|---|---------|---|
| 1:15 pm | – | 1:45 pm | <i>Readily Biodegradable Solutions Meet Environmental and Performance Challenges for Dredging Operators</i>
Matt Houston (RSC Bio Solutions) |
| 1:45 pm | – | 2:15 pm | <i>Water-soluble PAG's – The Environmentally Acceptable Lubricant of the Future.</i>
Kevin Kovanda and Mark Latunski (American Chemical Technologies, Inc.) |
| 2:15 pm | – | 2:45 pm | <i>Defining Environmentally Acceptable Lubricants: Addressing the Confusion of EAL Names and Base Oil Technology</i>
Jared Mikacich (PANOLIN America) |
| 2:45 pm | – | 3:15 pm | <i>Fuel Saving Solutions</i>
Basel Yousef and Manish Jangir (Dredge Yard) |
| 3:15 pm | – | 3:45 pm | <i>The Depreciation and Economic Life of Dredging Equipment</i>
Luis Prieto-Portar and Pablo Prieto-Muñoz (Piedroba Consulting Group) |

Technical Session 2b: Remediation of Contaminated Sediments – I, *Salon B*

Chair: Roger Santiago (Environment Canada)

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|---------|---|---------|--|
| 1:15 pm | – | 1:45 pm | <i>The Randle Reef Sediment Remediation Project - The Dredging and On-site Containment of PAH Contaminated Sediment</i>
Roger Santiago, Rupert Joyner, Matt Graham and Erin Hartman (Environment Canada) |
| 1:45 pm | – | 2:15 pm | <i>Derivation of Water Quality Objectives During Dredging Operations, Randle Reef Sediment Remediation Project, Hamilton Harbour, Lake Ontario</i>
Matt Graham, Erin Hartman, Kay Kim, Roger Santiago, and Rupert Joyner (Environment Canada) |
| 2:15 pm | – | 2:45 pm | <i>The Use of Thin Layer Capping to Manage Mercury and PCB Contaminated Sediments in Jellicoe Cove, Peninsula Harbour, Ontario, Canada</i>
Erin Hartman, Kay Kim, Roger Santiago, Matt Graham, and Rupert Joyner (Environment Canada) |
| 2:45 pm | – | 3:15 pm | <i>The Ongoing Development of an Environmental Dredging Project in the St. Clair River, Based Upon a Risk-Based Evaluation Process, Sarnia, Ontario, Canada</i>
Scott Hayter and Miranda Henning (Environ Corp)
Rupert Joyner and Roger Santiago (Environment Canada) |
| 3:15 pm | – | 3:45 pm | <i>Assessment and Management of Mercury and Pulp-Waste Contaminated Sediments in Thunder Bay North Harbour, Ontario, Canada</i>
Mark Bassingthwaite (Cole Engineering)
Kay Kim, Roger Santiago (Environment Canada) |

Monday

TEXAS A&M DREDGING SEMINAR

Monday, June 16: 4:00 pm – 5:30 pm

Technical Session 3a: History and Practice of Dredging – I, Ballroom

Chair: Robert Randall (Texas A&M University)

4:00 pm – 4:30 pm **U.S Army Corps of Engineers Navigation Mission: Dredging of Channels and Waterways**

Mark Pointon and Tom Verna (U.S. Army Corps of Engineers, Institute for Water Resources)

4:30 pm – 5:00 pm **100 Years of Dustpan Dredging on the Mississippi River**

Vinton Bossert (U.S. Army Corps of Engineers, Institute for Water Resources)

5:00 pm – 5:30 pm

Technical Session 3b: Dredging Case Studies I, Salon B

Chair: Marcel Hermans (Port of Portland)

4:00 pm – 4:30 pm **Differing Site Conditions on Dredging Projects: A Legal Framework for Understanding and Evaluating Claims**

Colin Van Dyke and Lisa Glahn (Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.)

4:30 pm – 5:00 pm **Review of Lessons Learned and Best Management Practices for Dredging Inland Lakes**

Walter Dinicola, Travis Merritts, Christopher Hayward and Ram Mohan (Anchor QEA)
Charles Grey (The Columbia Association)

5:00 pm – 5:30 pm **Dredging Sacred Waters - Ernest Hemingway's Silver Creek Fishing Hole**

Eric Anderson (Golden Enviro LLC)

Monday

WEDA SUMMIT & EXPO 2014

Schedule

Tuesday, June 17, 2014

6:30 am	–	5:00 pm	Registration <i>Concert Hall Foyer</i>
6:00 am	–	5:00 pm	Exhibits <i>Concert Hall</i>
6:30 am	–	7:30 am	Hosted Breakfast <i>Concert Hall</i>
7:30 am	–	8:30 am	Spouses Breakfast <i>York Room</i>
8:00 am	–	3:00 pm	Special Spouses/Partner Tour
8:00 am	–	10:00 am	Technical Sessions 4a: Environmental Remediation I <i>Ballroom</i> 4b: Dredging Case Studies II <i>Salon B</i>
10:00 am	–	10:15 am	Coffee Break <i>Concert Hall</i>
10:15 am	–	11:45 am	Technical Panel – WEDA Safety Commission <i>Algonquin Room</i>
10:15 am	–	11:45 am	Technical Session 5a: Dredging and Disposal I – Beneficial Reuse <i>Salon B</i>
12:00 pm	–	1:30 pm	Hosted Lunch <i>Ontario Room</i> <i>Dredging of Historic Low-Level Radioactive Sediment from the Port Hope Harbour</i> Mark Kolberg (Baird & Associates) Glenn Case (Atomic Energy of Canada Limited) Andrea Ferguson Jones (MMM Group Limited) <i>Annual Membership Meeting: President's Report</i>
1:30 pm	–	3:00 pm	Technical Panel – WEDA Environmental Commission <i>Ballroom</i>
3:00 pm	–	3:30 pm	Ice Cream Social <i>Concert Hall</i>
3:30 pm	–	5:30 pm	Technical Session 7a: Dredging and Disposal II – Capping <i>Ballroom</i> 7b: Dredge Material Management I <i>Salon B</i>
7:00 pm	–	10:00 pm	Conference Dinner/Awards <i>Imperial Room</i> – <i>Most Eye Appealing Booth Award</i> – <i>Most Educational Booth Award</i> – <i>Safety Award</i> – <i>WEDA Environmental Excellence Awards</i> – <i>Dredger of the Year Award</i> – <i>Life Time Achievement Award</i>

Tuesday

WEDA TECHNICAL SESSIONS

Tuesday, June 17: 8:00 am – 10:00 am

Technical Session 4a: Environmental Remediation I, Ballroom

Chair: Erin Hartman (Environment Canada)

8:00 am	–	8:30 am	Deepening the Delaware – Persistence Pays Off Anthony J. DePasquale and Edward C. Voigt (US Army Corps of Engineers Philadelphia District)
8:30 am	–	9:00 am	Esquimalt Harbour Remediation Project, Importance of Integrated Remedial Investigation, Vancouver Island, British Columbia Tom Wang , Derek Ormerod (Anchor QEA, LLC.) Andrew Smith (Public Works and Government Services Canada) Michael Bodman (Department of National Defence)
9:00 am	–	9:30 am	Implementing A Sediment Remediation Mega-Project At The Largest Deep-Sea Shipbuilding and Repair Facility on Canada's Pacific Coast - Challenges of Operational Coordination Matt Woltman (Anchor QEA, LLC.) Kristen Ritchot, Rae-Ann Sharp and Dave Osguthorpe (Public Works and Government Services Canada) Tom Wang (Anchor QEA, LLC.)
9:30 am	–	10:00 am	Esquimalt Graving Dock Waterlot Remediation: Design, Contracting and Construction Challenges Dan Berlin, Tom Wang and Matt Woltman (Anchor QEA, LLC.) Andrew Mylly and Rae-Ann Sharp (Public Works and Government Services Canada)
10:00 am	–	10:15 am	Coffee Break Concert Hall

Technical Session 4b: Dredging Case Studies II, Salon B

Chair: Robert Wetta (DSC Dredge, LLC)

8:00 am	–	8:30 am	Coastal Engineering Aspects of Arctic Dredging Realized for the Oil Industry: TOF Sealift Operation at Chayvo Beach Sakhalin, Russia Aaron Horine and Vladimir Shepsis (Coast & Harbor Engineering, Inc.)
8:30 am	–	9:00 am	A Brief History of The Canadian Oil Sands Robert Wetta (DSC Dredge, LLC) Jos Clement (CEDA Environmental Fluid Solutions LP)
9:00 am	–	9:30 am	Management of Submarine Slides at Vale's Iron Ore Export Facility, Ponta da Madeira, Brazil Mohammad Dibajnia, Robert Nairn, and Charles Fournier (Baird & Associates) Danielly Delpupo and Mathews Morais (Vale, Brazil)
9:30 am	–	10:00 am	Imagining Dredging Kurt Sjoblom and Christopher Sadowski (Drexel University)
10:00 am	–	10:15 am	Coffee Break Concert Hall

Tuesday

WEDA TECHNICAL SESSIONS

Tuesday, June 17: 10:15 am – 11:45 am

WEDA Safety Commission Panel – Expanding Safety Awareness and Action in the Dredging World, *Algonquin Room*

Moderator: Tom Verna, Chair WEDA Safety Commission

10:15 am – 11:00 am **Panelists**

Safety Journeys I – The Safety Journey in Dredging Operations

Chris Roberts (Great Lakes Dredge & Dock)

Safety Journeys II – The Safety Journey in Dredging Engineering

Paul Fuglevand (Dalton, Olmsted & Fuglevand, Inc.)

Alan Alcorn (Moffatt & Nichol)

Safety Journeys III – The Safety Journey in Dredging Equipment Supply

Jos Clement (CEDA Group)

Safety Journeys IV – The Safety Journey in the Dredging Community

Michael Gerhardt (Dredging Contractors of America)

11:00 am – 11:45 am ***Facilitated Discussion***

Julie Hile (Hile Group)

12:00 pm – 1:30 pm ***Hosted Lunch*** *Ontario Room*

Technical Session 5a: Dredging and Disposal I – Beneficial Reuse, *Salon B*

Chair: John F. Adams (Taylor Engineering)

10:15 am – 10:45 am ***Harvesting Dredged Material from USACE Confined Disposal Facilities as Part of Regional Sediment Management Strategy***

Georganna Collins (Ecology and Environment, Inc.)

10:45 am – 11:15 am ***Beneficial Reuse of Dredged Material as Construction Grade fill Material***

Michael Roscoe and William Bradfield (Schnabel Engineering Consultants, Inc.)

11:15 am – 11:45 am ***Beneficial Use of Dredge Material for Climate Change Adaptation in Southwest Brooklyn***

Robert Daoust, Edgar Westerhof and Meredith Hayes (ARCADIS U.S., Inc.)

12:00 pm – 1:30 pm ***Hosted Lunch*** *Ontario Room*

Tuesday

WEDA TECHNICAL SESSIONS

Tuesday, June 17: 1:30 pm – 3:00 pm

WEDA Environmental Commission Panel - Setting a Course: Future Directions of the Disposal at Sea Assessment Framework for Dredged Material in Canada, Ballroom

Moderator: Craig Vogt, Chair WEDA Environmental Commission

1:30 pm – 3:00 pm Panelists

How Canada Assesses Dredged Material: An Introduction to the Canadian Disposal at Sea Regulatory Framework

Vicki DaSilva-Casimiro (Environment Canada)

Growing, Adapting and Improving: Recommendations to Advance the Disposal at Sea Regulatory Framework and Assessment Processes

Roanna Leung (Environment Canada)

Anatomy of a Decision I: Potential Regulatory Outcomes from Changes to Chemistry Protocols in the Canadian Disposal at Sea Program

Deborah Austin (Environment Canada)

Anatomy of a Decision II: Potential Regulatory Outcomes from Changes to Biological Parameters in the Canadian Disposal at Sea Program

Suzanne Agius, Marine Policy (Environment Canada)

Anchor's Aweigh: The Future of the Disposal at Sea Regulatory Framework in Canada

Kevin Power (Environment Canada)

Questions and Panel discussion.

3:00 pm – 3:30 pm *Ice Cream Social Concert Hall*

Tuesday

WEDA TECHNICAL SESSIONS

Tuesday, June 17: 3:30 pm – 5:30 pm

Technical Session 7a: Dredging and Disposal II, Ballroom A

Chair: Richard Weber (Natural Resource Technology, Inc.)

3:30 pm – 4:00 pm **Dredging and Sub-Aqueous Sand Cap Installation Within a Confined Canal of Fine Grained Sediments**

Matthew Dalon and John Chapman (Ocean and Coastal Consultants, Inc.)

Trevor Staniec and Steven Pernick (O'Brien & Gere)

4:00 pm – 4:30 pm **Environmental Dredging and Capping for the East Branch of the Grand Calumet River**

Kenneth Mika, Christopher Musson and Richard Weber (Natural Resource Technology, Inc.)

Tyler Lee (J.F. Brennan Company, Inc.)

4:30 pm – 5:00 pm **Natural Recovery of Oily Sediments Abutting a Dredged and Capped Sediment Deposit**

Gene McLinn (Burns & McDonnell Engineering Co.)

5:00 pm – 5:30 pm **Dredged Material Management Area - Weir Design, State of the Art**

Coraggio Maglio (USACE Engineering Research and Development Center)

Technical Session 7b: Dredge Material Management I, Salon B

Chair: Andrea Ferguson Jones (MMM Group Limited)

3:30 pm – 4:00 pm **Environment Canada's Guidelines for Selecting Sites for Disposal at Sea**

Suzanne Agius and Deborah Austin (Environment Canada)

Craig Vogt (Craig Vogt, Inc.)

4:00 pm – 4:30 pm **Dredged Material Management Plan Atlantic Intracoastal Waterway, Norfolk, VA to Jacksonville, FL**

John F. Adams (Taylor Engineering)

4:30 pm – 5:00 pm **Jacksonville Port Authority Dredging Challenges - Successful Management of Dredged Material Management Area Capacity Issues, Jacksonville, FL**

Robert Wagner and John Adams (Taylor Engineering)

Joe Miller (Jacksonville Port Authority)

5:00 pm – 5:30 pm **Port of Kalama, New Approach to Maintenance Dredging and Placement of Dredged Material**

Vladimir Shepsis and John Dawson (Coast & Harbor Engineering, Inc.)

Tuesday

WEDA SUMMIT & EXPO 2014

Schedule

Wednesday, June 18, 2014

6:00 am – 10:30 am Registration *Concert Hall Foyer*

6:00 am – 10:30 am Exhibits *Concert Hall*

6:30 am – 7:30 am Hosted Breakfast *Concert Hall*

8:00 am – 10:00 am Spouses Breakfast *York Room*

8:00 am – 10:00 am **Technical Sessions**

8a: Dredge Monitoring *Ballroom*

8b: Environmental Remediation II *Salon B*

10:00 am – 10:30 am **Coffee Break** *Concert Hall*

10:30 am – 12:00 pm **Technical Sessions**

9a: Dredge Material Management II - Geotubes *Ballroom*

9b: Environmental Remediation III *Salon B*

12:00 pm – 12:45 pm **Closing Session** *Ballroom*

1:00 pm – 6:00 pm **Post Conference Technical Tour to Randle Reef**

Wednesday

WEDA TECHNICAL SESSIONS

Wednesday, June 18: 8:00 am – 10:00 am

Technical Session 8a: Dredge Monitoring, Ballroom

Chair: Catherine Chu (Port of Seattle)

8:00 am	–	8:30 am	<i>Fish Community and Dredge Entrainment Monitoring in the Federal Navigation Channels in California's Sacramento and San Joaquin River Delta and Port of Stockton</i> Jordan Gold (Mari-Gold Environmental Consulting, Inc.) Steven Novotny, Leuth Novotny (Novo Aquatic Sciences, Inc.) Jeffrey Wingfield (Port of Stockton)
8:30 am	–	9:00 am	<i>Development and Implementation of a Real-Time Water Quality Monitoring Program for Dredging and Capping Construction Activities on Onondaga Lake</i> Sam Haffey, Kim Powell, Joe Detor, Matt Smith, James Ryan, Christopher Pelrah and Ram Mohan (Anchor QEA, LLC) William Hague, and Larry Somer (Honeywell International Inc.)
9:00 am	–	9:30 am	<i>Effective Approaches for Public Communication of Air Quality Results from Two Environmental Dredging Projects</i> Scott Manchester and Matt Traister (O'Brien & Gere Engineers Inc.)
9:30 am	–	10:00 am	<i>Adjusted Dredging Approach and Sediment Core Re-Sampling to Improve Project Performance at Hudson River</i> Mark Surette (Ecology and Environment, Inc.) David King and Gary Klawinski (U.S. EPA Region 2)
10:00 am	–	10:15 am	<i>Coffee Break</i> Concert Hall

Technical Session 8b: Environmental Remediation II, Salon B

Chair: Stephen Garbaciak Jr (Anchor QEA, LLC)

8:00 am	–	8:30 am	<i>Using Multiple Dredging Methods for Habitat Restoration on the Upper Mississippi River</i> Mark Binsfeld (J.F. Brennan Company)
8:30 am	–	9:00 am	<i>Working within Regulations to Dredge Without a Section 404 Permit and Fill Confined Disposal Facilities</i> Allen Dupont and Matthew Nechvatal (CH2M HILL)
9:00 am	–	9:30 am	<i>Future Land Use and Sustainable Remediation at the Sydney Tar Ponds: A Case Study and Lessons Learned on Adaptive Remedial Design</i> Bruce Noble and David Wilson (AECOM) Donnie Burke (Sydney Tar Ponds Agency) Dan MacDonald (CBCL Limited)
9:30 am	–	10:00 am	<i>Soil Washing Treatment of Dredged Sediments at the Port of Pescara</i> Stany Pensaert and S. D'Haene (DEME Environmental Contractors) Tom Cnudde (TerraSea Environmental Contractors)
10:00 am	–	10:15 am	<i>Coffee Break</i> Concert Hall

Wednesday

WEDA TECHNICAL SESSIONS

Wednesday, June 18: 10:15 am – 11:45 am

Technical Session 9a: Dredge Material Management II - Geotubes, *Ballroom*

Chair: Julie Hile (Hile Group)

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| 10:15 am | – | 10:45 am | <i>Treatability Study: Removal of Heavy Metals Using Geotube Technology</i>
Kevin Bossy (Bishop Water Technologies and Tencate Geotube)
Keith Galloway (Geo-Dredging and Dewatering Solutions, Inc.) |
| 10:45 am | – | 11:15 am | <i>Containment and Dewatering of Dredged Materials Using Geotextile Tubes</i>
Kevin Morgan, Andrew Mahfood and Mike Jackson (Georgia Southern University)
Lowell Sieck, Julie Kucera and William Smallwood (Flint Industries, Inc.) |
| 11:15 am | – | 11:45 am | <i>Beach Nourishment of a Coastal Town Using Geotextile Tubes</i>
Angel Diaz (Geomembranas y Geosinteticos)
Christopher Timpson (TenCate Geosynthetics) |

Technical Session 9b: Environmental Remediation III, *Salon B*

Chair: Jos Clement (CEDA Environmental Fluid Solutions LP)

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| 10:15 am | – | 10:45 am | <i>Demonstration of an Activated Carbon Sediment Amendment at the Puget Sound Naval Shipyard & Intermediate Maintenance Facility, Bremerton, WA</i>
Victor Magar (ENVIRON International Corporation) |
| 10:45 am | – | 11:15 am | <i>Recovering Sheboygan Harbor: A Unique Teaming Effort to Restore Navigation Depth and Remove Contaminated Sediments</i>
Darrell Nicholas (Ryba-Terra Joint Venture)
Heather Williams (USEPA)
Gina Bayer and Huck Raddemann (CH2M HILL) |
| 11:15 am | – | 11:45 am | |

Wednesday

CLOSING SESSION

Wednesday, June 18: 12:00 pm – 12:45 pm, Ballroom

12:00 pm – 12:10 pm **Closing Remarks**
Ram Mohan (WEDA President/ Anchor QEA, LLC)

12:10 pm – 12:30 pm **Best Paper Awards**
Robert Ramsdell (Great Lakes Dredge & Dock)

DSC Dredge, LLC Best Paper Award
Paper best representing the topic “Why is Dredging Good”
Robert Wetta (DSC Dredge, LLC)

DCA/WEDA Best Paper Award
Michael Gerhardt (Dredging Contractors of America)

Anchor QEA Young Author Best Paper Award
Tom Wang (Anchor QEA, LLC)

12:30 pm – 12:45 pm **Door Prizes**
Larry Patella (WEDA)

PRIOR WEDA CONFERENCES

Western Hemisphere Conferences

1980 Vancouver, British Columbia	1997 Charleston, South Carolina
1981 Nashville, Tennessee	1998 Las Vegas, Nevada
1982 New Orleans, Louisiana	1999 Louisville, Kentucky
1983 Jacksonville, Florida	2000 Providence, Rhode Island
1984 St. Louis, Missouri	2001 Houston, Texas
1985 Portland, Oregon	2002 Broomfield, Colorado
1986 Baltimore, Maryland	2003 Oakbrook, Illinois
1987 Toronto, Canada	2004 Lake Buena Vista, Florida
1988 New Orleans, Louisiana	2005 New Orleans, Louisiana
1989 Tacoma, Washington	2006 San Diego, California
1990 Virginia Beach, VA	2007 Lake Buena Vista, Florida
1991 New Orleans, Louisiana	2008 St. Louis, Missouri
1992 Mobile, Alabama	2009 Tempe, Arizona
1993 Atlantic City, New Jersey	2010 San Juan, Puerto Rico
1994 San Diego, California	2011 Nashville, Tennessee
1995 Minneapolis, Minnesota	2012 San Antonio, Texas
1996 New Orleans, Louisiana	2013 Honolulu, Hawaii

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100	Neptune Floatation Terri Carruth Sales Manager 101W 103 rd Street, INH 3360 Indianapolis, IN 46290 USA	Tel: 317 588 3600 Fax: 317 588 3700 Email: tcarruth@pipefloat.com
101	ARC Surveying & Mapping John Sawyer Vice President 4202 San Juan Avenue Jacksonville, FL 32210 USA	Tel: 904 384 8377 Fax: 904 384 8388 Email: jfsaw@aol.com
103	IHS Global Limited Lisa Maher Publications Editor 163 Brighton Road Coulsdon Surrey CR5 2YH United Kingdom	Tel: 203 253 2203 Fax: Email: Lisa.Maher@IHS.com
104	Del Tank & Filtration Systems Dan Baker Sales Manager 436 Highway 93 North Scott, LA 70583 USA	Tel: 337 237 8400 Fax: 337 266 7800 Email: dan@deltank.com
106	Dredging Supply Company Robert B. Wetta President & CEO 156 Airport Way Reserve, LA 70084 USA	Tel: 985 479 1355 Fax: 985 479 1388 Email: rbwetta@dscdredge.com
107	HYPACK Inc. Christine Roca Sales Coordinator 56 Bradly Street Middletown, CT 06457 USA	Tel: 860 351 1500 Fax: Email: christine@hypack.com
200	Sevenson Environmental Services James Damon Business Development 2749 Lockport Road Niagara Falls, NY 14305 USA	Tel: 716 284 0431 Fax: 716 284 1976 Email: JMDamon@sevenson.com

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202	Snyder Industries Joe Bush Market Manager-Floatation Dredging 24550 Glenbrook Blvd Euclid, OH 44117 USA	Tel: 317 328 8000 Fax: 317 328 8080 Email: jbush@snydernet.com
203 & 205	Ryba Marine Construction Co. Kristi Bristley-Hoerner 629 North Main Street Cheboygan, MI 49721 USA	Tel: 231 637 4333 Fax: 231627 4890 Email: kbristley@rybamarine.com
206	Thern, Inc. Nick Lakin Marketing Manager 5712 Industrial Park Road Winona, MN 55987 USA	Tel: 507 474 0270 Fax: 507 450 1772 Email: Nlakin@thern.com
207	Higgs Hydrographic Tek Michael Higgs CEO 10415 La Mirage Court Tampa, FL 33615 USA	Tel: 813 892 4230 Fax: 866 832 4343 Email: Hydrographic.tek@gmail.com
301	Tencate Geo Tube Ed Trainer Sales 3680 Mount Olive Road Commerce, GA 30529 USA	Tel: 770 540 5217 Fax: 706 693 1896 Email: e.trainer@tencate.com
302	Carylon Sediments Group Peter Fleetwood 516 Roundtree Road Charleston, NC 28217 USA	Tel: 704 529 000 Fax: 704 529 1648 Email: pfleetwood@bio-nomic.com

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304	Ecology and Environment, Inc. Kaitlin E. McCormick Scientist 368 Pleasant View Drive Lancaster, NY 14086 USA	Tel: 410 771 4950 Fax: 410 771 4204 Email: kmccormick@ene.com
305	EA Engineering, Science & Technology Peggy Derrick Senior Project Manager 225 Schilling Circle, suite 400 Hunt Valley, MD 21031 USA	Tel: 410 584 7000 Fax: 410 771 4204 Email: pderrick@eaest.com
306	Ryzhka International, LLC Michael Dunbar, CFM President 2751 NE 56 th Court Fort Lauderdale, FL 33308 USA	Tel: 619 417 5799 Fax: Email: mdunbar@ryzhka.com
307	Ellicott Dredges, LLC Paul P. Quinn Vice President 1425 Wicomico Street Baltimore, MD 21230 USA	Tel: 410 545 0240 Fax: 410 545 0293 Email: P.Quinn@dredge.com
400	Spirax Sarco, Inc. John B. Thompson Regional Manager –Flow 2150 Miller Drive Longmont, CO 80501 USA	Tel: 303 6827060 Fax: 303 682 7069 Email: jthompson@spiraz.com
401&500	Damen Dredging Equipment, BV David Tenwolde President Edisonstraat 32 Nijkerk 386 NE The Netherland	Tel: (33) 247 4040 Fax: (33) 247 4065 Email: mh@damendredging.com

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403	Jay Cashman, Inc. Andrew A. Timmis VP of Business Development 549 South Street Quincy, MA 02169 USA	Tel: 518 810 2530 Fax: 518 664 9609 Email: atimmis@jaycashman.com
405	Salem-Republic Rubber Co. James Dunchuck VP Sales & Marketing 475 West California Avenue Sebring, OH 33672 USA	Tel: 330 938 9801 Fax: 330 938 9809 Fax: jdunchuck@salem-republic.com
406	American Chemical Technologies Kevin Kovanda President 485 E. Van Ripper Road Fowlerville, MI 48836 USA	Tel: 800938 0101 Fax: 517223 1703 Email: jriddle@americanchemtech.com
407	Huesker Inc. Forrest Cronia General Manager P.O. Box 411529 Charlotte, NC 28241 USA	Tel: 704 588 5500 Fax: 704 588 5988 Email: marketing@hueskerinc.com
502 &504	AMPHIBEX Norman Grant President/CEO 3360 des Entreprises Terre Bonne Quebec Canada J6X 4J8	Tel: 460 477 5132 Fax: 460 477 5131 Email: ngrant@amphibex.com
503	Dragflow North America Maurice Freivokh President 69 deep Dene Road West Vancouver, BC V7S 1A1 Canada	Tel: 604 921 7112 Fax 604 921 7245 Email: Maurice@dragflow.us

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506	Envirolin Canada Luc Tanquay National Sales and Marketing 520 Rue Adanac Quebec, Quebec G1G 7B7 Canada	Tel: 418 623 1216 Fax: 418 660 8889 Email: Kathleen.Kelly@envirolin.com
507	The Hague Academic Press Marsha Cohen Editor 75 Lohs Place Harrington Park, NJ 07640 USA	Tel: 201 7509091 Fax: 201 750 9092 Email: hagueacademic@pipeline.com
600	Dredge Technology Inc. Leo van Ingen Vice President P.O. Box 1520 Wayne, NJ 07474 USA	Tel: 973 696 1559 Fax: 973 696 dtcdredge.com Email: ivaingen@dtcdredge.com
604	Holland Marine Technologies B.V. J.W. de Wit Managing Director Pompomolenlaan 13 Woerden 344yGK The Netherlands	Tel: 034 841 6075 Fax: 034 841 0019 Email: info@hollandmt.com
606	Ocean Group Steve Cote Director Business Development 85 Abraham-Martin Quebec G1K 8N1 Canada	Tel: 418 6941414 Fax: 414 263 3190 Email: steve/cote@oceangroup.com
610	AML Oceanographic Kevin Wilson Sales Manager-Americas 2071 Malaview Avenue Sidney, British Columbia V8L 5X6 Canada	Tel: 250 656 0771 Fax: 250 655 3655 Email: Kevin.Wilson@amloceanographic.com

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616	Western Dredging Association Larry Patella Executive Director 2714 NE 42 nd Circle Vancouver, WA 98663 USA	Tel: 360 750 0209 Fax: 360 750 1445 Email: weda@comcast.net
618	SRS Crisafulli Tristan Hoff Sales Applications P.O. Box 1051 Glendive, MT 59330 USA	Tel: 800 442 7867 Fax: 406 365 8088 Email: tristanh@crisafulli.com
620	R2 Sonic Mike Brissette Sales Engineer 2239 Meadowvale Drive Victoria, BC V9B 6J2 Canada	Tel: 512 891 0000 Fax: 512 891 0022 Email: mikeb@r2sonic.com