



Western Dredging Association



2019 DREDGING
SUMMIT & EXPO

JUNE 4-7, 2019

CHICAGO, IL, USA

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ABOUT WEDA

WEDA



The **Western Dredging Association (WEDA)** region covers:

- North America,
- Central America,
- and South America

ABOUT WODA

WEDA, CEDA, and EADA constitute the **World Organization of Dredging Associations (WODA)** with equal representation on the WODA Board of Directors.



Western Dredging Association serving the Americas

Central Dredging Association serving Europe, Africa, and the Middle-East

Eastern Dredging Association serving the Asian and Pacific region

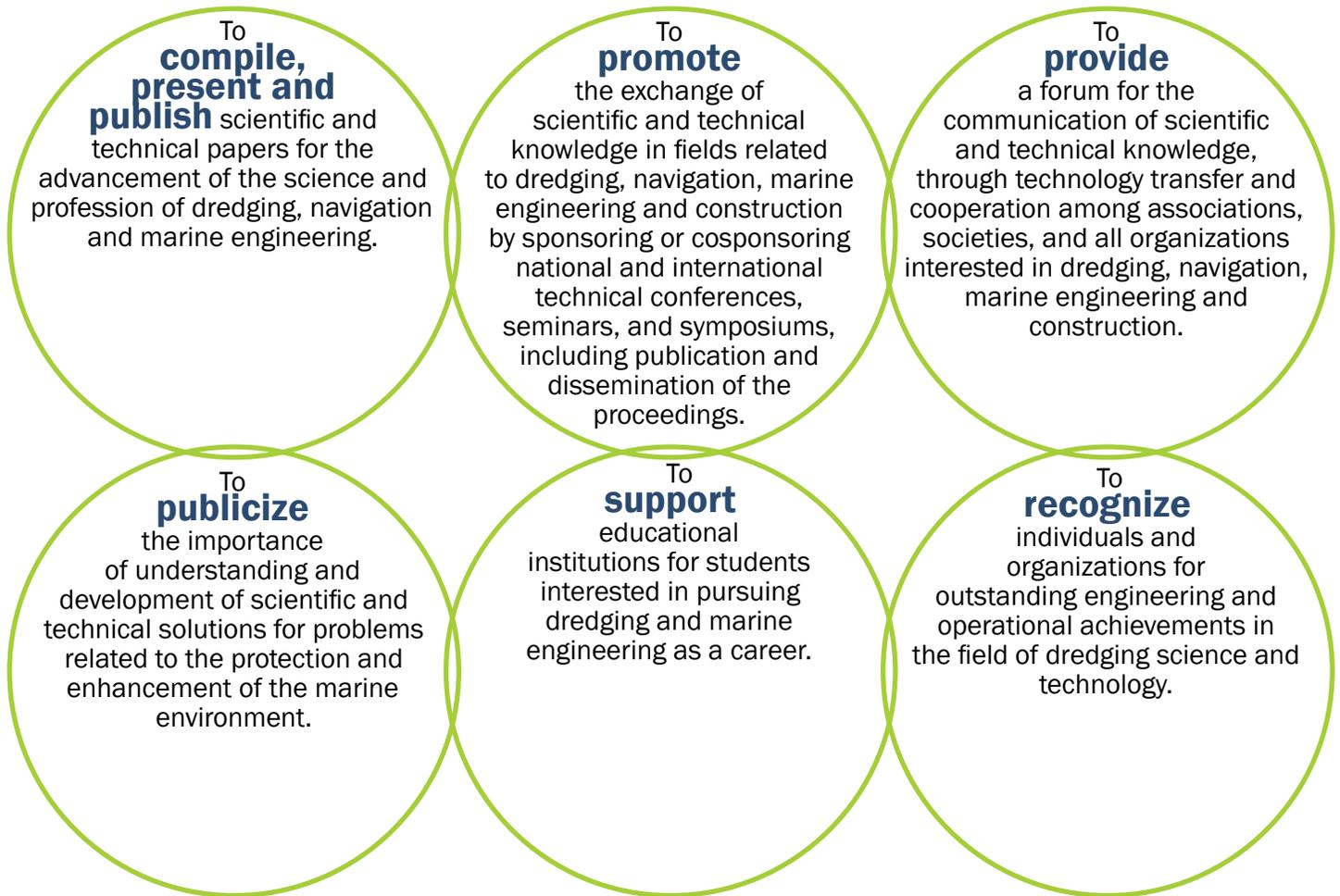
The **Central Dredging Association (CEDA)** covers:

- most of Europe
- Africa
- the Mid and Near East

The **Eastern Dredging Association (EADA)** covers:

- the Far East and Pacific region

WEDA GOALS AND OBJECTIVES



WEDA BOARD OF DIRECTORS

Marcel Hermans, *Chair & President*
Port of Portland

Alan E. Alcorn, P.E., *Vice President*
Moffatt & Nichol

Matthew Binsfeld, *Treasurer*
J.F. Brennan, Co., Inc.

Carol Shobrook, *Secretary*
JT Cleary

Todd Bridges, *Director*
USACE, ERDC

Chuck Broussard, *Director*
Weeks Marine

Jos Clement, *Director*
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Anchor QEA, LLC

Paul Fuglevand, P.E., *Director*
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USACE, ERDC

Julie Hile, *Director*
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Ashley Kerns, *Director*
Mike Hooks, Inc.

Janet Kirkton, *Director*
Caterpillar

Robert Ramsdell, *Director*
Great Lakes Dredge & Dock Co.

Nelson Sanchez, *Director*
USACE, Mobile District

Steve Shaw, *Director*
Sevenson Environmental Services

Dana Trierweiler, P.E., *Director*
Infrastructure Alternatives

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Craig Vogt, Inc.

Ram Mohan, Ph.D., P.E., *Ex-Officio Director**
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David Allen, *Ex-Officio Director**
Great Lakes Dredge & Dock Co.

Matt Arms, *Ex-Officio Director**
Port of Long Beach

Raul Figueroa, *Ex-Officio Director**
Panama Canal Authority

Zach Kimmel, *Ex-Officio Director**
USACE

Ricardo Hernandez Perez, *Ex-Officio Director**
Grupo MH Servicios Corporativos, SA de CV

Andrew Timmis, *Ex-Officio Director**
J.F. Brennan, Co., Inc.

Jan Van den Driessche, *Ex-Officio Director**
Jan De Nul

**Non-voting member*

CONFERENCE ORGANIZING COMMITTEE

Thomas P. Cappellino, *Executive Director*
Western Dredging Association

Robert Ramsdell, *Chair*
Great Lakes Dredge & Dock Co.

Donald Hayes, Ph.D., P.E., *Editor*
USACE, ERDC

Paul Fuglevand, P.E., *Member*
Dalton, Olmsted & Fuglevand, Inc.

Walter Dinicola, *Member*
Anchor QEA, LLC

Shelly Anghera, Ph.D., *Associate Member*
Moffatt & Nichol

Lori Brownell, *Associate Member*
Taylor Engineering

SPONSORS

★ PLATINUM



Great Lakes Dredge & Dock Co.

www.gldd.com

Great Lakes Dredge & Dock Company, LLC (GLDD) provides domestic and international capital, coastal protection, and restoration dredging services that help shape the environment by maintaining and deepening America's ports, protecting its shorelines, and creating barrier islands and land reclamations. With 129 years of experience, GLDD is North America's largest provider of marine dredging and the only U.S. company with substantial overseas operations. GLDD owns and operates a diverse dredging fleet comprised of numerous specialized maritime vessels, and operates marine yards in five locations nationwide.

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★ GOLD



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★ GOLD



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★ GOLD



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★ SILVER



www.arcsurveyors.com



www.cablearm.com



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www.caterpillar.com



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www.dscredge.com



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www.jtcleary.com



GIW® Minerals

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www.moffattnichol.com



www.portofportland.com



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salem-republic
rubber company

www.salem-republic.com



www.trimble.com/marine

SUSTAINING MEMBERS

PLATINUM SUSTAINING MEMBERS



CARYLON SEDIMENTS GROUP



wood.



GOLD SUSTAINING MEMBERS



SILVER SUSTAINING MEMBERS



STRATEGIC PARTNERS



MEDIA PARTNERS



GENERAL INFORMATION

► Registration

8th Street North, Lobby Level

The registration desk will open at 7:30am on Tuesday and will remain open during the following hours:

Tuesday, June 4th 7:30 AM – 6:30 PM

Wednesday, June 5th 7:30 AM – 6:00 PM

Thursday, June 6th 7:30 AM – 6:00 PM

Friday, June 7th 7:30 AM – 11:00 AM

► Admissions to Functions

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

► Meeting Attire

- **Business casual** attire is suggested for the morning and afternoon meetings.
- **Dressy casual** attire is suggested for the Welcome Reception and Gala Dinner.
- **Casual** attire is suggested for the Pre-Conference Boat Tour and Lunch.

Conference App

The full program can be viewed on the Western Dredging Association mobile application. Please install it on your smart phone from the App Store or Google Play.



Conference Website

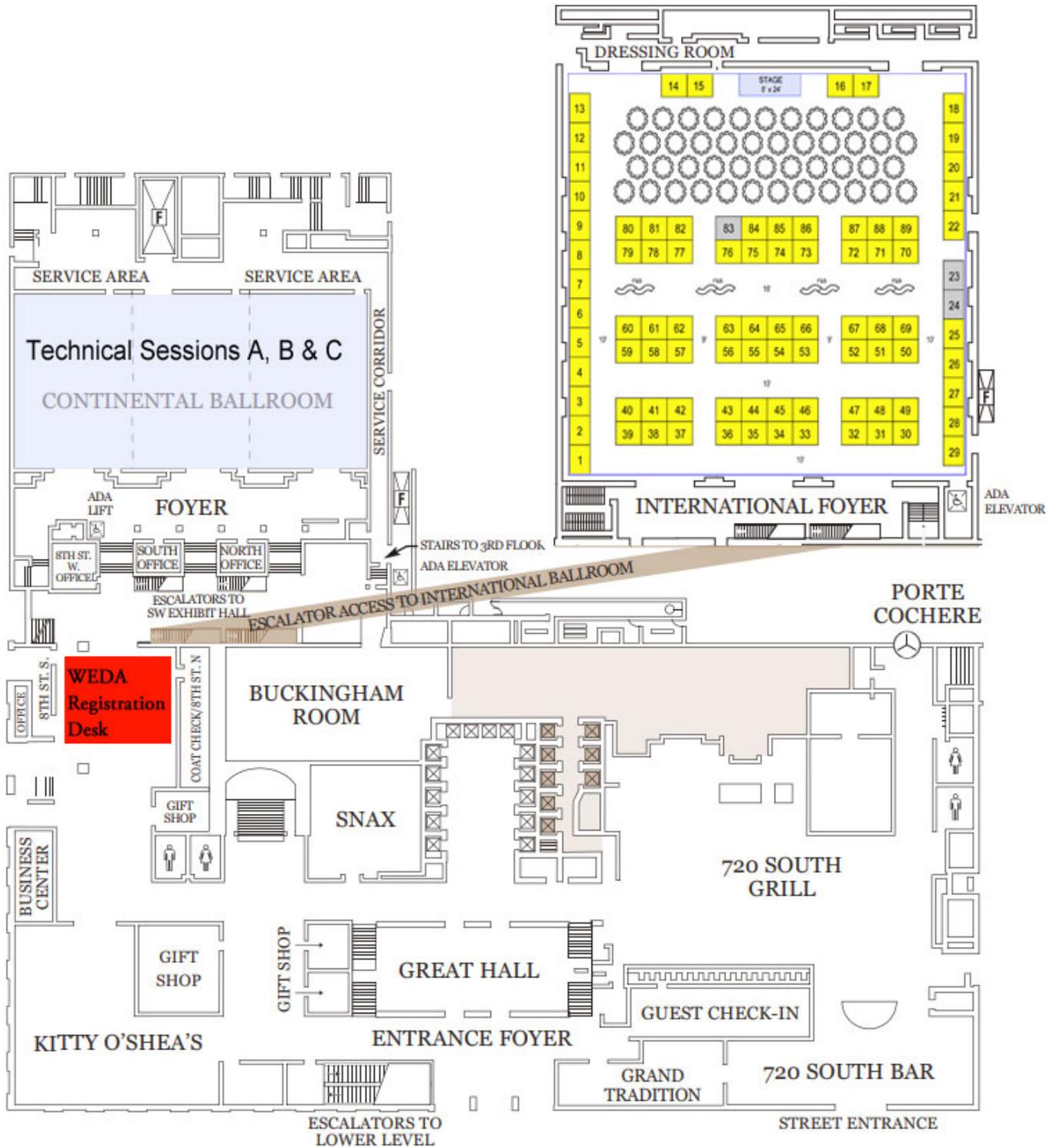
<https://dredging-expo.com/>

Hotel Website

<https://www3.hilton.com/en/hotels/illinois/hilton-chicago-CHICHHH/index.html>



HOTEL MAP



HOTEL INFORMATION

Hilton Chicago

720 S. Michigan Ave.
Chicago, IL 60605
+1 312-922-4400

Restaurants in the Hilton (Lobby Level)

- 720 South Bar & Grill: Burgers + Bourbon
- Herb N' Kitchen: Grab & Go, serving Starbucks
- Kitty O'Sheas: Bar & Grill + Whiskey

CONFERENCE ROOMS

All conference activities will take place on the Lobby Level, 2nd Floor, and 3rd Floor.

Lobby Level

Continental Ballroom A

- Short Course - WEDA's Dredging 101
- Short Course - Bathymetric Multibeam Mapping for Dredging
- Closing Session

Continental Ballrooms A, B, & C

- Plenaries
- Technical Sessions

Continental Ballroom Foyer

- Women of WEDA Breakfast

2nd Floor

International Ballroom

- Welcome Reception/Ice Breaker
- Expo Hall
- Breakfasts, Lunches, and Coffee Breaks
- Young WEDA Social Hour/Exhibitors Appreciation Hour
- GALA Reception and Dinner

3rd Floor

Marquette

- Beneficial Reuse Work Group Meeting
- Environmental Commission Meeting

GENERAL SCHEDULE

Tuesday, June 4th		Location
7:30 AM – 6:30 PM	Registration Desk Open	8th Street North, Lobby Level
8:00 AM – 12:00 PM	Short Course: WEDA's Dredging 101	Continental Ballroom A
8:00 AM – 2:00 PM	Beneficial Reuse Work Group Meeting	Marquette, 3rd Floor
12:00 PM – 5:30 PM	Exhibitor Move In	International Ballroom, 2nd Floor
12:15 PM – 3:30 PM	Pre-Conference Boat Tour & Lunch	Aboard Chicago's First Lady
1:00 PM – 5:00 PM	Short Course: Bathymetric Multibeam Mapping for Dredging	Continental Ballroom A
3:00 PM – 6:00 PM	Environmental Commission Meeting	Marquette, 3rd Floor
6:30 PM – 9:30 PM	Welcome Reception/Ice Breaker	International Ballroom, 2nd Floor

Wednesday, June 5th		Location
7:30 AM – 8:30 AM	Breakfast Buffet	International Ballroom, 2nd Floor
8:30 AM – 9:30 AM	Opening Plenary	Continental Ballrooms A, B, C
9:30 AM – 10:00 AM	AM Coffee & Refreshment Break	International Ballroom, 2nd Floor
10:00 AM – 11:50 AM	TAMU/ERDC Plenary Session	Continental Ballrooms A, B, C
11:50 AM – 1:40 PM	Plated Lunch and Awards	International Ballroom, 2nd Floor
1:50 PM – 3:20 PM	Technical Sessions 1A & 1B & 1C	Continental Ballrooms A, B, C
3:20 PM – 3:40 PM	PM Coffee & Refreshment Break	International Ballroom, 2nd Floor
3:40 PM – 5:00 PM	Technical Sessions 2A & 2B	Continental Ballrooms A & B
5:00 PM – 6:00 PM	Young WEDA / Exhibitors Appreciation Hour	International Ballroom, 2nd Floor
6:15 PM – 8:30 PM	Young WEDA Reception	Kitty O'Shea's, Hilton Lobby Level

Thursday, June 6th		Location
7:30 AM – 8:30 AM	Breakfast Buffet	International Ballroom, 2nd Floor
7:30 AM – 8:30 AM	Women of WEDA Breakfast	Continental Ballroom Foyer
8:30 AM – 9:30 AM	Safety Commission Plenary	Continental Ballrooms A, B, C
9:30 AM – 10:00 AM	AM Coffee & Refreshment Break	International Ballroom, 2nd Floor
10:00 AM – 11:40 AM	Technical Sessions 3A & 3B & 3C	Continental Ballrooms A, B, C
11:45 AM – 1:20 PM	Lunch Buffet	International Ballroom, 2nd Floor
1:30 PM – 3:10 PM	Technical Sessions 4A & 4B & 4C	Continental Ballrooms A, B, C
3:10 PM – 3:40 PM	Ice Cream Social	International Ballroom, 2nd Floor
3:40 PM – 5:00 PM	Technical Sessions 5A & 5B & 5C	Continental Ballrooms A, B, C
5:00 PM – 6:00 PM	Young WEDA / Exhibitors Appreciation Hour	International Ballroom, 2nd Floor
6:15 PM – 7:15 PM	Gala Reception	International Ballroom, 2nd Floor
7:30 PM – 9:30 PM	Gala Dinner	International Ballroom, 2nd Floor

Friday, June 7th		Location
7:30 AM – 8:30 AM	Breakfast Buffet	International Ballroom, 2nd Floor
8:30 AM – 9:30 AM	Great Lakes Plenary	Continental Ballrooms A, B, C
9:30 AM – 10:00 AM	AM Coffee & Refreshment Break	International Ballroom, 2nd Floor
10:00 AM – 11:40 AM	Technical Sessions 6A & 6B & 6C	Continental Ballrooms A, B, C
11:50 PM – 12:30 PM	Closing Session/WEDA Membership Meeting/Best Booth	Continental Ballroom A

SOCIAL EVENTS

SUN	MON	TUES June 4th	WED June 5th	THU June 6th	FRI June 7th	SAT
		Boat Tour & Lunch 12:15 PM Ice Breaker 6:30 PM	Young WEDA Reception 6:15 PM	Gala Reception and Dinner 6:15 PM		

TUESDAY, JUNE 4TH

► Pre-Conference Boat Tour and Lunch Aboard Chicago's First Lady

Chicago's First Lady will depart from Stetson and Lower-lower Wacker Dr.

More information and registration: <https://dredging-expo.com/pre-conference-tour/>

12:15 PM - 3:30 PM

DETAILS:

12:30 PM Buses depart Hilton Chicago

12:45 PM Board

1:00 PM - 3:00 PM Tour on the Chicago River and Lunch

3:00 PM Disembark

3:15 PM Buses leave First Lady Cruises Dock

3:30 PM Arrive at Chicago Hilton

Tour includes a lunch buffet and all refreshments.

► Welcome Reception/Ice Breaker

International Ballroom, 2nd Floor

6:30 PM - 9:30 PM

WEDNESDAY, JUNE 5TH

► Young WEDA Reception

Kitty O'Shea's, Hilton Lobby Level

6:15 PM - 8:30 PM

THURSDAY, JUNE 6TH

► Gala Reception and Dinner

International Ballroom, 2nd Floor

Reception

6:15 PM - 7:15 PM

Dinner

7:15 PM - 9:30 PM

YOUNG WEDA EVENTS

► Young WEDA

If you are a young professional involved in dredging related work, or a student thinking of making a career of it, Young WEDA is the place for you - We represent youthful WEDA members all over the western hemisphere and give them easy access to a unique network of young professionals in the field of dredging, representing research institutes, universities, industry, governmental authorities and consultants. Young WEDA provides members with plenty of opportunities to exchange ideas, gain new technical insights, and expand networks with valuable new contacts to enhance their careers. ■



► Our Mission

Young WEDA is dedicated to creating a platform for young members to express and present themselves whilst allowing for the opportunity to interact with older or more experienced fellow dredging enthusiasts and colleagues.

Young WEDA actively participates in the organization of conferences, seminars and national meetings but also organizes its own activities. Above all, Young WEDA helps to carry out the WEDA mission and objectives and is an ambassador for the dredging profession in general.

And finally Young WEDA members aim to have fun! ■

► Young WEDA at the Dredging Summit & Expo '19

During the 2019 Dredging Summit & Expo, Young WEDA members and newcomers will have numerous opportunities to network among the best dredging organizations throughout the world.

Wednesday and Thursday evening from 5:00 to 6:00 PM, students and young professionals in the industry will be mixing in the Young WEDA lounge inside the exhibit hall, sharing their dredging experiences, brainstorming the future of the global dredging industry, and above all having fun. Company representatives and seasoned experts are welcomed to join us. Refreshments and light snacks will be provided every day.

On Wednesday evening, June 5th, immediately following the Young WEDA social hour, we will be having our annual Young WEDA Reception at Kitty O'Shea's in the Hilton on the Lobby Level. Heavy appetizers and refreshments will be provided. ■

► Calendar



Young WEDA Social Hour

Wed. June 5th & Thurs. June 6th
5:00 PM - 6:00 PM
International Ballroom, 2nd Floor



Young WEDA Reception

Wed. June 5th
6:15 PM - 8:30 PM
Kitty O'Shea's, Hilton Lobby Level

WOMEN OF WEDA EVENTS

► Women of WEDA

Calling all females involved in dredging related work:
Women of WEDA is the place for you!

Women of WEDA represent female WEDA members all over the western hemisphere, allowing them access to a network of professionals in the field of dredging, research institutes, universities, industry, governmental authorities and consultants. Women of WEDA provides members opportunities to exchange ideas, gain business insights, and expand networks within the sector. ■



► Our Mission

Women of WEDA is dedicated to creating a platform for female members to network with other women in the sector, while also supporting and empowering newcomers to the field by exchanging ideas and offering guidance. Join us for our inaugural breakfast, and help shape the group's impact! ■

► Calendar



Women of WEDA Inaugural Breakfast

Thurs. June 6th

7:30 AM - 8:30 AM

Continental Ballroom Foyer, Lobby Level, outside of Continental Ballrooms A, B, & C

AWARD EVENTS

- **Environmental Excellent Awards:**
Wednesday June 5, 2019 in the International Ballroom following lunch.
- **Safety Excellence Awards:**
Wednesday June 5, 2019 in the International Ballroom following lunch.
- **Anchor QEA Young Author Award:**
Wednesday June 5, 2019 in the International Ballroom following lunch.
- **DSC Dredging “Why Dredging is Good” Award:**
Wednesday June 5, 2019 in the International Ballroom following lunch.
- **Moffatt & Nichol / WEDA Best Paper Award:**
Wednesday June 5, 2019 in the International Ballroom following lunch.
- **Dredger of the Year:**
Thursday June 6, 2019 in the International Ballroom at the GALA Dinner.
- **Lifetime Achievement Award:**
Thursday June 6, 2019 in the International Ballroom at the GALA Dinner.
- **Best Booth Awards:**
Friday June 7, 2019 in the Continental Ballroom during the closing session.

FIRST DAY MEETINGS & EVENTS Tuesday, June 4th

► Exhibitor Move In

International Ballroom, 2nd Floor

12:00 PM - 5:30 PM

The Expo Hall is located inside the International Ballroom on the 2nd floor of the Hilton Chicago. Many of the functions we have planned throughout the week will take place inside the Expo Hall, including the Welcome Reception, breakfasts, lunches, breaks, morning plenaries, Young WEDA hour, and the Gala Dinner.

► Beneficial Reuse Work Group Meeting (Beneficial Reuse Work Group members only)

Marquette, 3rd Floor

8:00 AM - 2:00 PM

► Environmental Commission Meeting (Open to all WEDA members)

Marquette, 3rd Floor

3:00 PM - 6:00 PM

► Welcome Reception/Ice Breaker

International Ballroom, 2nd Floor

6:30 PM - 9:30 PM

FIRST DAY SHORT COURSES Tuesday, June 4th

The Western Dredging Association (WEDA) is proud to offer two continuing education short courses at the 2019 Dredging Summit & Expo. For your participation in either of the courses, you will receive a certificate for 4 professional development hours (PDHs). Registration available onsite.

► WEDA's Dredging 101

Continental Ballroom A, Lobby Level

8:00 AM - 12:00 PM

Instructor: Dr. Donald Hayes | Research Environmental Engineer | USACE ERDC

General Course Overview: The Dredging 101—"Basics of Dredging, Dredged Material Management, and Environmental Considerations" course has been developed and is provided exclusively by the Western Dredging Association (WEDA) for the purpose of helping anyone interested in learning about the basics of dredging and dredged material and environmental considerations in an easy, enjoyable, and efficient manner.

Dredging 101

Basics of Dredging, Dredged Material Management, and Environmental Considerations

4 PDHs

► Bathymetric Multibeam Mapping for Dredging

Continental Ballroom A, Lobby Level

1:00 PM - 5:00 PM

Instructor: Mike Mutschler | Sr. Hydrographer/Principal | Seahorse Geomatics, Inc.

General Course Overview: Seahorse Geomatics, Inc. will provide a short course on multibeam bathymetric mapping for dredging. The short course explains the challenges and solutions involved in sensor setup, calibrations, validation, operation, processing, and export for condition, pre-dredge, and post dredge surveys.

Bathymetric Multibeam Mapping for Dredging

Challenges and Solutions

4 PDHs

Learning Objectives for both short courses:

<https://dredging-expo.com/short-courses>

TECHNICAL SESSIONS

Wednesday June 5th - Friday, June 7th

Technical sessions are in the Continental Ballrooms on the Lobby Level.

Session A

Continental Ballroom A

Session B

Continental Ballroom B

Session C

Continental Ballroom C

Wednesday, June 5th

TAMU/ERDC PLENARY - Continental Ballrooms A, B, & C

1A - USACE Beneficial Use Success Stories	1B - Contracting/Risk	1C - Sediment Management
2A - TAMU/ERDC - State Beneficial Reuse Success Stories	2B - Environmental Issues	(No 2C)

Thursday, June 6th

3A - Beneficial Reuse	3B - Environmental Dredging	3C - Innovative Equipment and Techniques
4A - Beneficial Reuse Panel - Great Lakes	4B - Improving Dredge Safety	4C - Dredging Research and Education
5A - Beneficial Reuse II	5B - Sea Level Rise / Shoreline Protection	5C - Dredging Research and Education II

Friday, June 7th

GREAT LAKES PLENARY - Continental Ballrooms A, B, & C

6A - Planning & Management	6B - Environmental Dredging II	6C - Sediment Management II
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Wednesday, June 5th: Opening Plenary and Morning Plenary Session

8:30am-9:30am

10:00am-11:50am

PLENARY OPENING PLENARY

TAMU/ERDC PLENARY

Continental Ballroom A, B, & C

 Continental Ballroom A, B, & C



► Welcome Remarks

Marcel Hermans,
WEDA President &
Chair

- **Welcoming WEDA to Our Hometown: Our History on the Great Lakes and Beyond**
Presented by Lasse Petterson,
CEO of Great Lakes Dredge &
Dock Company

Working Together on Finding Ways to Partner for the Beneficial Use of Dredged Material Across the Great Lakes

CO-CHAIRS: RAM MOHAN, PH.D., TEXAS A&M/ANCHOR QEA; JEFF KING, PH.D., USACE ERDC

10:00am-10:20am | National Perspective | T. Friona (USACE ERDC)

10:20am-10:40am | Regional Perspective | LTC D. Hayden (USACE Chicago District)

10:40am-11:00am | Environmental Perspective | J. Killian (Office of Great Lakes Waters)

11:00am-11:20am | Great Lakes Restoration Initiative Perspective | S. Cieniawski (USEPA GLNPO)

11:20am-11:50am | Facilitated Panel Discussion

Wednesday, June 5th: First Afternoon Sessions (1A/1B/1C)**1:50pm-3:20pm****Session 1A | USACE Beneficial Use Success Stories****Continental Ballroom A****CO-CHAIRS:** JEFF KING, PH.D., USACE ERDC; RAM MOHAN, PH.D., TEXAS A&M/ANCHOR QEA**1A-1 | 1:50pm-2:20pm | State of Ohio | R. Kozlowski (USACE Buffalo District)****1A-2 | 2:20pm-2:50pm | Regional Sediment Management/ Waukegan Harbor | K. McClain (USACE Chicago District)****1A-3 | 2:50pm-3:20pm | Cat Island | Marie Strum (USACE Detroit District)****Session 1B | Contracting/Risk****Continental Ballroom B****CHAIR:** SAM MORRISON, MOFFATT & NICHOL**1B-1 | 1:50pm-2:10pm | Successful Construction Management | E. Dievendorf, S. Dunn, W. Thomas, and M. Gravelding (ARCADIS)****1B-2 | 2:10pm-2:30pm | Dredging Information System (DIS) Update | A. Schafer (IWR)****1B-3 | 2:30pm-2:50pm | Miami Harbor Deep Dredge Project: A Reappraisal Reveals Same Results | W. Precht, B. Gintert, R. Fura, M. Robbart, K. Rogers, R. Dial (Dial Cordy and Associates)****1B-4 | 2:50pm-3:10pm | Dredge Contracts Claims: Experience from the Trenches | J. Katz (Sacco & Fillas)****Session 1C | Sediment Management****Continental Ballroom C****CHAIR:** JANET KIRKTON, CATERPILLAR**1C-1 | 1:50pm-2:10pm | Sustainable Sediment Solutions: Stabilization of Contaminated Sediment | V. Magar, M. Nielsen, T. Olean, M. Mengelt, J. Forsman (Ramboll)****1C-2 | 2:10pm-2:30pm | Innovative Modifications to Existing Confined Disposal Facility for Cost-Effective Disposal of Contaminated Sediment | K. Searcy Bell, J. Hutchens, Y. Sadasivam, V. Magar (Ramboll)****1C-3 | 2:30pm-2:50pm | A 10-Year Outlook on Dredge Demands of US Ports & Harbors of the Great Lakes | C. Harley, K. Jaglal, R. Weber, J. Williams (OBG, Part of Ramboll)****1C-4 | 2:50pm-3:10pm | Making Cases for Adaptive Sediment Management | S. Burkholder (University of Pennsylvania), B. Davis (Cornell University), T. Ruswick (Cornell University), M. Henderson (Anchor QEA), N. Holliday (Anchor QEA), W. Dinicola (Anchor QEA)**

Wednesday, June 5th: Second Afternoon Sessions (2A/2B)

3:40pm-5:00pm

Session 2A | TAMU/ERDC State Beneficial Use Success Stories Continental Ballroom A**CO-CHAIRS:** JEFF KING, PH.D., USACE ERDC; RAM MOHAN, PH.D., TEXAS A&M/ANCHOR QEA**2A-1 | 3:40pm-4:05pm | Duluth Superior Harbor/AOC work and beyond | D. Breneman (MPCA)****2A-2 | 4:05pm-4:30pm | Illinois Beach State Park | D. Tecic (Illinois Department of Natural Resources)****2A-3 | 4:30pm-5:00pm | Unity Island (First 204 constructed on the GL) | T. Friona (USACE ERDC)****Session 2B | Environmental Issues** Continental Ballroom B**CHAIR:** KAT PRICKETT, PORT OF LOS ANGELES**2B-1 | 3:40pm-4:00pm | Submerged Aquatic Vegetation Mitigation for the Bonner Bridge Replacement Project | P. Todd (Atlantic Reefmaker), Tyler Stanton (NC Department of Transportation), Mark Fonseca (CSA Ocean Services)****2B-2 | 4:00pm-4:20pm | The Presence of Microplastics in Bottom Sediments from US Waterways | J. Wilkens, A. McQueen, B. Suedel, J. LeMonte (USACE ERDC)****2B-3 | 4:20pm-4:40pm | Development of a Risk-based Framework for Assessing and Managing Dredge-induced Underwater Sounds | A. McQueen (USACE ERDC), B. Suedel (USACE ERDC), F. Thomsen (DHI), C. de Jong (TNO)****2B-4 | 4:40pm-5:00pm | Treatment Expanding Dredged Material Management Alternatives | P. Schroeder, B. McComas (USACE ERDC)**

Thursday, June 6th: Safety Commission Plenary

8:30am-9:30am

PLENARY SAFETY COMMISSION Continental Ballroom A, B, C**Project Highlights, including the Engagement of Transportation Partners in Award Winners' Safety Cultures****► Panel Moderator**

Julie Hile, President, Hile Group and WEDA Safety Commission Chair

Thursday, June 6th: Morning Sessions (3A/3B/3C)

10:00am-11:40am

Session 3A | Beneficial Reuse

Continental Ballroom A

CHAIR: SHELLY ANGHERA, MOFFATT & NICHOL**3A-1 | 10:00am-10:20am | A New PIANC Standard for the Beneficial Use of Dredged Material |** V. Magar (Ramboll), D. Hayes (USACE ERDC), B. Boyd (USACE ERDC), B. Suedel (USACE ERDC)**3A-2 | 10:20am-10:40am | Regional Sediment Management Solutions in Southern California: How did we get here and why? (Part 1) |** S. Cappellino (Anchor QEA), S. Anghera (Moffatt & Nichol)**3A-3 | 10:40am-11:00am | Regional Sediment Management Solutions in Southern California: A 20-year Summary of Beneficial Reuse and Some Thoughts Moving Forward (Part 2) |** S. Anghera (Moffatt & Nichol), S. Cappellino (Anchor QEA)**3A-4 | 11:00am-11:20am | Design and Permitting for Lake Apopka Sediment Dredging and Material Placement Projects, St. Johns River Water Management District, Lake & Orange County, Florida |** J. Wagner (Wood Environment and Infrastructure Solutions), R. Naleway (St. Johns River Water Management District), M. Coveney (Wood Environment and Infrastructure Solutions), and L. Lumbar (Wood Environment and Infrastructure Solutions)**3A-5 | 11:20am-11:40am | Ensuring Sustainable Marine Transportation by Beneficially Using Dredged Material to Support Marsh Ecosystems in Coastal New Jersey |** S. Douglas (NJ Department of Transportation), M. Marano (WSP USA), S. Flanigan (Gahagan and Bryant Associates), D. Fanz (NJ Department of Environmental Protection), S. Mars (US Fish and Wildlife Service)**Session 3B | Contracting/Risk**

Continental Ballroom B

CHAIR: LORI BROWNELL, TAYLOR ENGINEERING**3B-1 | 10:00am-10:20am | Cleanup of Contaminated Sediment – “How Much Will It Cost?” and “Who Should Pay?” |** J. Dittman, P. Spadaro (TIG Environmental)**3B-2 | 10:20am-10:40am | Ashland/NSP Lakefront MGP Site Upland and Sediment Remedial Action |** D. Roznowski (Foth Infrastructure & Environment), S. Garbaciak Jr. (Foth Infrastructure & Environment), M. Raimonde (Foth Infrastructure & Environment), B. Symons (Foth Infrastructure & Environment), K. Aukerman (Foth Infrastructure & Environment), A. Buell (Envirocon), T. Lee (Brennan)**3B-3 | 10:40am-11:00am | Bank Remediation and Restoration for a Time Critical Removal Action with Water Control Structure Removal |** J. Caryl, A. Emery-DeVisser, J. Hansen, C. Drape (Wood Environment and Infrastructure)**3B-4 | 11:00am-11:20am | Challenges Associated with Dredging Small Waterways in Urban Settings |** J. Hutchens, J. Tarvin, V. Magar (Ramboll)**3B-5 | 11:20am-11:40am | Monitoring Effectiveness of Pilot-Scale Sediment Caps in a Dynamic Sand Riverbed |** T. Delano (Wood Environment and Infrastructure), R. Johnson (Wood Environment and Infrastructure), R. Cleary (Columbia Gas of Massachusetts), P. LaGoy (Columbia Gas of Massachusetts), and K. Powell (Anchor QEA)**Session 3C | Sediment Management**

Continental Ballroom C

CHAIR: RICH WEBER, OBG, PART OF RAMBOLL**3C-1 | 10:00am-10:20am | Innovative Technology Saves 100-Year-Old Panama Canal Locks |** T. Stephens, N. Ruiz (TenCate Geosynthetics)**3C-2 | 10:20am-10:40am | Improving Waterway Network Maintenance Using Dredge Portfolio Optimization Methods |** D. Loney, K. Cotterman, D. Brown, and K. Mitchell (USACE ERDC)**3C-3 | 10:40am-11:00am | CFD Simulation and Scale Model Testing of a New Dredge Pump Design |** R. Visintainer, J. Furlan, G. McCall, P. Springer (KSB)**3C-4 | 11:00am-11:20am | A Useful Technology to Solve or Mitigate Artificial Reservoir Sedimentation |** A. Ranaldi, L. Masotti, F. Galante (DRAGFLOW)**3C-5 | 11:20am-11:40am | Applicability of Dredge Types in Reservoir Maintenance Dredging |** M. Winkelman, R. Sens, O. Marcus (Damen Dredging Equipment)

Thursday, June 6th: First Afternoon Sessions (4A/4B/4C)**1:30pm-3:10pm****Session 4A | Beneficial Reuse Panel - Great Lakes****Continental Ballroom A****CO-CHAIRS:** WALTER DINICOLA, ANCHOR QEA AND DAVID EMERMAN, OHIO EPA**4A-1 | 1:30pm-1:50pm | Current Great Lakes Dredged Material |** D. Emerman (Ohio Lake Erie Commission) and LTC J. Toth (USACE Buffalo District)**4A-2 | 1:50pm-2:10pm | Cleveland Harbor Advancements in Beneficial Reuse and Sediment Management: Case Study |** N. LaPointe (Cleveland-Cuyahoga County Port Authority)**4A-3 | 2:10pm-2:30pm | Case Study – Cleveland Harbor |** J. Ziss (Kurtz Bros)**4A-4 | 2:30pm-2:50pm | Integrating Wetland and Marsh Creation of Dredged Material |** S. Mackey (Ohio Department of Natural Resources) and Sean Burkholder (University of Pennsylvania)**4A-5 | 2:50pm-3:10pm | Facilitated Discussion on Path Forward |** David Emerman and Walter Dinicola (Anchor QEA)**Session 4B | Improving Dredge Safety****Continental Ballroom B****CHAIR:** JULIE HILE, HILE GROUP**4B-1 | 1:30pm-1:50pm | Harnessing Leading Indicator Data for Sustainable Safety Excellence |** M. Davis (The Hile Group)**4B-2 | 1:50pm-2:10pm | Who, Me? I Had No Idea! Multiple Cause Incident Analysis as A Driver of Systems Safety Engagement |** J. Hile (The Hile Group), D. Johanson (Great Lakes Dredge and Dock)**4B-3 | 2:10pm-2:30pm | Using Hindcast Weather Data to Predict the Available Time for Safe Dredging Operations |** M. MacNicol III (Maine Marine Composites), R. Akers (Maine Marine Composites), F. Belesimo (Cashman Dredging and Marine Contracting)**4B-4 | 2:30pm-2:50pm | Aiding Navigation through Centralizing Information Dissemination |** Lisa F. Lefkowitz (Battelle Memorial Institute)**4B-5 | 2:50pm-3:10pm | Combating Modern Day Distractions with Adaptive Safety Cultures |** M. Davis (The Hile Group)**Session 4C | Dredging Research and Education****Continental Ballroom C****CHAIR:** ROBERT RAMSDELL, GREAT LAKES DREDGE AND DOCK CO.**4C-1 | 1:30pm-1:50pm | Production Estimation of Water Jets and Cutting Blades in Drag Heads |** S. Miedema (Delft University)**4C-2 | 1:50pm-2:10pm | Thin-Layer Placement Sediment Deposition Model |** D. Hayes (USACE ERDC)**4C-3 | 2:10pm-2:30pm | Environmental Dredging & Restoration Former Zephyr Oil Refinery |** P. Faessler (Sevenson Environmental Services) and H. Williams (USEPA Great Lakes National Program Office)**4C-4 | 2:30pm-2:50pm | Cutter Head Spillage when Dredging Sand or Gravel (CHSDSG) |** S. Miedema (Delft University)**4C-5 | 2:50pm-3:10pm | Risk Characterization from Sediment Released During Dredging Operations |** J. Gailani, T. Lackey, B. Suedel, D. King, D. Nelson, S. Kim, J. McManus, R. Richmond, D. Bryant (USACE ERDC)

Thursday, June 6th: Second Afternoon Sessions (5A/5B/5C)**3:40pm-5:00pm****Session 5A | Beneficial Reuse II****Continental Ballroom A****CHAIR:** DANA TRIERWEILER, INFRASTRUCTURE ALTERNATIVES INC.

5A-1 | 3:40pm-4:00pm | Indiana Harbor and Canal CDF Center Dike Expansion Pilot Test | A. Wright (Infrastructure Alternatives), C. Grundemann (GEI Consultants), J. Merl (USACE Chicago District), and J. Griffeth (USACE Chicago District)

5A-2 | 4:00pm-4:20pm | Sediment Reuse for Wetland Creation and Open Space Restoration in an Underserved Community of San Francisco: Case Study of Yosemite Slough, San Francisco Bay | J. Chambers, E. Nixon, A. Rieke, S. McLaughlin (Northgate Environmental Management)

5A-3 | 4:20pm-4:40pm | Dredging and Beneficial Use of Sediments from the Delaware and Raritan Canal, New Jersey | T. Merritts (Anchor QEA), R. Mohan (Anchor QEA), W. Dinicola (Anchor QEA), F. Yumiguano (Anchor QEA), D. Wagner (Anchor QEA), T. Staniec (OBG), L. Kachalsky (OBG), W. Simons (J.F. Brennan Company), C. Evenson (J.F. Brennan Company), V. Buhr (J.F. Brennan Company), M. Brooks (New Jersey Water Supply Authority), S. Rahman (New Jersey Water Supply Authority)

5A-4 | 4:40pm-5:00pm | A Synergistic Approach to Restoring the Caminada Headland | A. Taylor (Louisiana CPRA), S. Dartez (Coastal Engineering Consultants)

Session 5B | Sea Level Rise / Shoreline Protection**Continental Ballroom B****CHAIR:** ALAN ALCORN, MOFFATT & NICHOL

5B-1 | 3:40pm-4:00pm | Shoreline Protection of Historic and Coastal Resources at Brunswick Town/ Fort Anderson | P. Todd (Atlantic Reefmaker), D. Eulie (University of North Carolina Wilmington)

5B-2 | 4:00pm-4:20pm | Community-Based Beneficial Use for Sea Level Rise: A Co-Benefits Strategy for Dredged Material Management | I. Hametz (Mahan Rykiel Associates), B. Davis (Cornell University)

5B-3 | 4:20pm-4:40pm | Select Shoreline Considerations During Sediment Dredging | K. Jaglal, H. Weitzner, D. Farber, T. Staniec (O'Brien & Gere)

5B-4 | 4:40pm-5:00pm | Sustainable, Combined Remedies and Restoration of the Onondaga Lake Shoreline | B. Kubiak, A. Eallonardo, C. Calkins, J. McAuliffe (Honeywell), S. Miller

Session 5C | Dredging Research and Education II**Continental Ballroom C****CHAIR:** DONALD HAYES, USACE ERDC

5C-1 | 3:40pm-4:00pm | A Comprehensive Training Approach to Marine, Aerial and Land Surveying at Northwestern Michigan College | H. Van Sumeren

5C-2 | 4:00pm-4:20pm | A Study on the Clay Adhesion Factor | X. Chen (Delft University), J. van den Broecke (Delft University), G. Liu (CCCC National Engineering Research Center of Dredging Technology and Equipment), G. Hong (CCCC National Engineering Research Center of Dredging Technology and Equipment), S. Miedema (Delft University)

5C-3 | 4:20pm-4:40pm | Numerical Modelling of Slurry Transport for Coarse Particles | X. Chen (Delft University), T. Xiong (Wuhan University), X. Zhang (Wuhan University), Sape A. Miedema (Delft University)

5C-4 | 4:40pm-5:00pm | Principles of Production Engineering Models | R. Ramsdell (Great Lakes Dredge and Dock), S. Miedema (Delft University), R. Helmons (Delft University), J. Remme (Great Lakes Dredge and Dock)

Friday, June 7th: Great Lakes Plenary

8:30am-9:30am

PLENARY: THE GREAT LAKES

Continental Ballroom A, B, & C

Remediation and Restoration of Our National Treasure

8:30am-8:45am | **Winning the Battle: Restoring the Health of the Great Lakes Areas of Concern** | Amy Pelka, EPA

8:45am-9:00am | **Sediment Remediation at Great Lakes Areas of Concern: EPA and its Partners** | Scott Cieniawski, EPA

9:00am-9:15am | **Zephyr Refinery Sediment Remediation Project** | Heather Williams, EPA

9:15am-9:30am | **We Have to Win This Battle: Keeping Asian Carp Out of the Great Lakes** | Jeff Zuercher, USACE

Friday, June 7th: Morning Sessions (6A/6B/6C)

10:00am-11:40am

Session 6A | Dredge Quantity, Surveying, and Mapping

Continental Ballroom A

CHAIR: AARON WRIGHT, INFRASTRUCTURE ALTERNATIVES INC.

6A-1 | 10:00am-10:20am | Development of an Automated Hopper Dredge Mechanical Ullage Sensor Measurement System as a Contract Payment Basis | T. Welp (USACE ERDC), K. Garmire (USACE Portland District), T. Davidson (USACE Portland District), D. Crader (UWT Level Controls), W. Gwin (USACE Mobile District), A. Braun (USACE Portland District)

6A-2 | 10:20am-10:40am | Real Time Production Efficiency Based on Combination of Non-Nuclear Density and Magnetic Flow Instrumentation | H. Wei (Industrial Tomography Systems), C. Qiu (Industrial Tomography Systems), K. Primrose (Industrial Tomography Systems), A. Boer (Damen Dredging Equipment), D. Maingay (Damen Dredging Equipment), F. Bosman (Krohne Altometer)

6A-3 | 10:40am-11:00am | Geospatial Modeling and Suitability Analysis for Beneficial Use: An Integrated Approach | I. Hametz (Mahan Rykiel Associates), B. Davis (Cornell University)

6A-4 | 11:00am-11:20am | Marine Geophysical and Geological Investigation for Improvement Dredging of Boston Harbor: Subsurface Mapping with Complete Coverage of Reflection Seismic Surveys and Few Targeted Borings | W. Ward, W. Murphy III, D. Rosales Roche, J. Trotta, M. Art, A. Boyd, L. Stewart, C. Murphy, W. Murphy IV, I. Nesbitt, D. Herron, L. Friedlander (e4sciences)

6A-5 | 11:20am-11:40am | Estimation of Dredgeability from High-Resolution Marine Reflection Seismic | D. Rosales Roche, W. Ward, W. Murphy III, M. Art, J. Trotta, A. Boyd, L. Stewart, C. Murphy, W. Murphy IV, I. Nesbitt, D. Herron, L. Friedlander (e4sciences)

Session 6B | Environmental Dredging II

Continental Ballroom B

CHAIR: KENDRICK JAGLAL, OBG, PART OF RAMBOLL

6B-1 | 10:00am-10:20am | Estimating Turbidity and Suspended Sediment Concentrations Using an Unmanned Surface Vehicle | J. Wilkens (USACE ERDC)

6B-2 | 10:20am-10:40am | Reducing Environmental Exposures from Dredging Contaminated Sediment | R. Webb, P. Fuglevand, T. Dreher (Dalton, Olmstead, & Fuglevand)

6B-3 | 10:40am-11:00am | Challenges and Considerations for Selection of Underpier Remediation Approaches | T. Wang, M. Woltman, M. Whelan, D. Berlin (Anchor QEA)

6B-4 | 11:00am-11:20am | Innovative Treatment of Wood Waste Impacted Sediments Using Reactive Amendments and DGT Passive Porewater Sulfide Testing Techniques | D. Berlin, D. Vlassopoulos, M. Kanematsu, J. Dunay, E. Malczyk, and T. Wang (Anchor QEA)

6B-5 | 11:20am-11:40am | Sequencing Bucket Dredging Operations to Manage Residual Sediments | D. Hayes (USACE ERDC)

Session 6C | Sediment Management II

Continental Ballroom C

CHAIR: KARIN OLSEN, ANCHOR QEA

6C-1 | 10:00am-10:20am | Baltimore Harbor Confined Aquatic Disposal (CAD) Pilot Project | K. Olsen (Anchor QEA), H. Miller (Maryland Department of Transportation), M. Reemts(Anchor QEA), M. Morris (Maryland Environmental Service)

6C-2 | 10:20am-10:40am | Optimizing the Storage Capacity of a Confined Disposal Facility in Savannah Harbor, Georgia – Seven Years of Intensive Management of Dredged Sediments | K. Badu-Tweneboah (Geosyntec), K. Cargill (KW Cargill), Ramil G. Mijares (Geosyntec)

6C-3 | 10:40am-11:00am | Emergency Dredging of a Terminal Tanker Dock Due to Impacts from the Recent Back-to-Back Hurricanes in the Northeast Florida Area | K. Badu-Tweneboah (Geosyntec), S. Ahmed (Geosyntec), Ramil G. Mijares (Geosyntec), L. Toke (NuStar Energy)

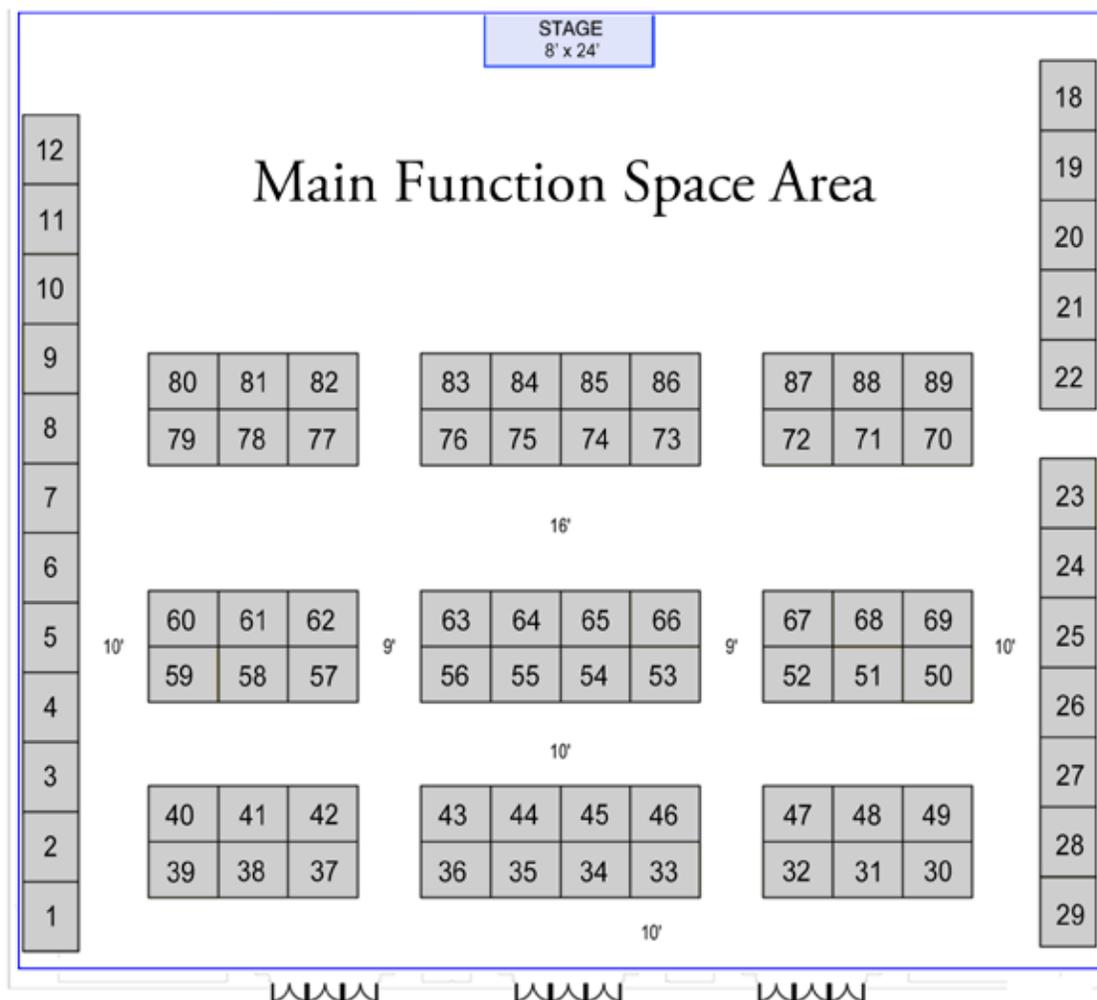
6C-4 | 11:00am-11:20am | City of Renton Cedar River Flood Control Maintenance Project – Dredging Planning, Design and Permitting | S. Phillips (Mott McDonald)

6C-5 | 11:20am-11:40am | New Sediment Storage Areas for Jacksonville Port Authority, Duval County, Florida | J. Wagner (Wood Environment and Infrastructure Solutions)

CLOSING SESSION | 11:50am-12:30pm | WEDA Membership Mtg./Best Booth Continental Ballroom A

Waves of Change: Oceans of Opportunity

EXHIBITOR MAP



- | | | | |
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| 2 - WEDA | 28 - Trelleborg Marine & Infrastructure | 49 - Sediment Solutions LLC | 70 - Carylton Sediments Group |
| 3 - WEDA | 29 - Supreme Manufacturing Inc | 50 - DAMEN | 71 - DelTank Filtration |
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| 5 - EarthBalance Corporation | 31 - USACE / ERDC | 52 - McDermitt Light & Signal | 73 - DSC Dredges, LLC |
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| 11 - Critical Minds | 37 - EIVA | 58 - Phoenix Lighting | 79 - Survey Equipment Services |
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| 24 - Custom Dredge Works | 46 - CiDRA | 67 - EA Engineering | 88 - Boskalis |
| 25 - Greyline Instruments | 47 - DoC Mapping | 68 - DRAGFLOW | 89 - WEDA |

EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

▶ ABASCO LLC | www.abasco.com

SEDIMENT CONTROL, OIL SPILL & WASTEWATER PRODUCTS: ABASCO, LLC manufactures a full line of turbidity/silt barriers to include TYPE I, II & III TURBIDITY CURTAINS with numerous special options and designs available for special applications. ABASCO offers turbidity curtains for environmental dredging, deep water, large rivers and other demanding applications. OIL SPILL PRODUCTS include boom, barriers, skimmers, temporary storage tanks and other ancillary items used for response and cleanup efforts. WASTEWATER PRODUCTS include baffles used for separation, detention and containment requirements. ■



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▶ Anvil Attachments | www.anvilattachments.com

Anvil Attachments is an award winning manufacturer of bulk material handling attachments. We offer the most diverse product line in the industry, including hydraulic and cable clamshell buckets and hydraulic and cable grapples. Anvil utilizes state of the art FEA design on all of our clamshell buckets and grapples which allows us to design grabs with the precise weight to strength ratio for the material handled. Anvil practices LEAN manufacturing on all of our products which reduces cost and improves quality. ■



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▶ Arc Surveying & Mapping, Inc. | www.arcsurveyors.com

Arc Surveying & Mapping, Inc. is proud to be an associate member of WEDA and are advocates of dredging's positive contribution to a clean environment and a strong economy. For over thirty years the company has assisted the dredging community in achieving their goals by providing the most Accurate, Reliable and Cost-effective hydrographic and geophysical surveying services available. ■



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▶ Bosch Rexroth | www.boschrexroth.com

At Bosch Rexroth we combine our drive and control technology and unique expertise to give you the right solution. Whether it's for Mobile Applications, Machinery Applications and Engineering, Factory Automation, or Renewable Energies, companies worldwide trust us to provide innovative components, complete system solutions and expert services, drawing on our portfolio of precise, proven, energy-efficient hydraulics, electric drives and controls and linear motion and assembly technologies. ■



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▶ Boskalis Environmental | www.boskalis.com/environmental

Boskalis Environmental is a global leader in large-scale desanding and dewatering of contaminated dredged sediments. In the Netherlands/Europe they operate as Boskalis Environmental B.V.; in USA/North America as Stuyvesant Environmental Contracting LLC (Lower Passaic River Phase I Removal Action - 2012) and Stuyvesant Projects Realization Inc. (Lower Fox River OU2-5 remediation - ongoing). Collectively these companies have more than 30 years of experience processing 15 million tons of sediments/soils while beneficially reusing 10 million tons. ■



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CONTACT: Mr. Ron Dielhof
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▶ C-2 Innovations, Inc. | www.c-2innovations.com

C-2i Inc has developed a tether-less, amphibious self-deploying bottom-crawler for precision mapping, surveying, monitoring and sampling in the surf zone and shallow water environments. The system is all-weather, all-season, extending the operating season with faster real-time data. ■



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EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

▶ Cable Arm | www.cablearm.com

Environmental dredging is the safe and precise removal of contaminated sediment. To survive in today's highly competitive market, dredgers need an efficient and cost effective solution. Our navigational clamshells are built with special features to help meet a dredger's needs. Our bulk material handling buckets incorporate special features for moving nearly any granular material. ■



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▶ CDEnviro Ltd | www.cdenviro.com

CDEnviro specializes in the manufacturing of recycling equipment to treat a variety of complex waste products, including dredged materials, hydro excavated waste and contaminated soils. Our systems efficiently process and dewater the waste materials while removing heavy metals and hydrocarbon constituents from the waste water. Our solutions reduce the need to solidify the wet materials ensuring disposal costs are reduced, while producing an output product suitable for reuse or resale for revenue generation. ■



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▶ Certified Labs | www.certifiedlabs.com

Certified is one of the largest independent manufacturers of advanced performance Maritime lubricants in the world with plants, warehouses and sales offices located throughout the globe. We are committed to developing our Asset Reliability Partnerships by increasing your uptime and reducing your operational costs. Call us and put our 20+ years of Marine lubrication experience to work for you! ■



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▶ CiDRA | www.cidra.com

CiDRA is a leading supplier of process optimization solutions, including CYCLONetrac™ grind management systems and the family of SONARtrac® flow and entrained air measurement systems. The SONARtrac systems are industry recognized for their reliability and accuracy for both multiphase and single phase slurries and fluids. Using patented, passive sonar signal processing technology, SONARtrac systems provide the unique measurement combination of real-time volumetric flow and entrained air measurements for improved mass balance, control and optimization of the process. CiDRA innovative products and services are utilized by over 400 customer locations in over 45 countries. ■



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▶ Clam Vision | www.cablearm.com

Cable Arm Positioning offers hardware, software, and services for marine construction applications. Our southeast Michigan based company supports North America with on site technicians and free phone/remote desktop support. Our dredging software ClamVision supports clamshell/grab, hydraulic dredges, excavators, drill barges, and custom solutions. We offer services such as interim survey, seabed imaging, turbidity monitoring, and full time on site technicians. USACE certified DQM Compliance systems available. Mechanical, hydraulic, and custom solutions. ■



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▶ Composit LLC | www.composit.net

Composit LLC is the leading manufacturer of slurry hoses for dredging and mining. Composit LLC was founded in 1992 and has been operating ever since. The key fields of Composit LLC operations lie with research, development, and manufacturing of wear-resistant rubber hoses. The company history began with manufacturing of tracks for snowmobiles and other, and the production range has substantially expanded over time. As of today, our hoses are successfully used in dredging, mining and processing industries. Composit is the No. 1 in Russia and CIS countries - 550 qualified employees - 5000 happy clients - 27 years in business - 500 000 m of hoses ■



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EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

► Critical Minds | www.criticalminds.com

In 2012 Critical Minds was founded and has offices in Holland, South Africa and now also in Houston! Critical Minds has a team of highly educated and passionate experts skilled in project control and management. Our goal is to help companies by finding the "critical path" from A to B, reducing lead times, cutting costs, making projects more predictable and delivering them on time and under budget. Our specialty areas are shipbuilding, oil & gas, marine construction (dredging), construction, and yacht building. ■



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Kamerik, Netherlands
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► Cross Bolt Buoys

The cross bolt buoy is a specialized anchor can designed to simply; "bolt-up" all your anchor wires safe, quick and easy. You can now order your anchor wires "ready-2-use" with picking eyes on both ends and factory legal tags. Are you tired of "worn-out" buoy pipes that need costly replacing? The cross bolt buoys "window" design (central welded pipe) will "never" need replacing, saving you a lot of money and time ahead! ■



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► CSA Ocean Sciences Inc. | www.csaocean.com

CSA is a marine environmental consulting firm headquartered in Stuart, Florida, with specialty in multidisciplinary projects concerning potential environmental impacts to marine ecosystems. CSA offers desktop and field survey services to support clients worldwide and a 45-year track record of reliable technical performance, unbiased analyses, and scientific integrity. ■



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CONTACT: Debbie Kilbane
dkilbane@conshelf.com

► Custom Dredge Works, Inc. | www.customdredgeworks.com

Custom Dredge Works is a premier equipment manufacturer specializing in custom dredge designs from 8" to 20". Custom Dredge Works' design engineers work very closely with clients to create the best customized dredge design for maximizing Return on Investment. ■



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1105 NW Lower Silver Lake Road
P.O. Box 8207
Topeka, KS, 66608, USA
+1 785 232 1582

CONTACT: Cash McCloy
cash@customdredgeworks.com

► Damen Shipyards Group | www.damen.com

Damen Dredging Equipment is a specialized supplier of dredgers, dredging equipment and dredging instrumentation & automation. All tools and vessels are built to specific customer requirements using a wide range of standardized, often modular equipment. This ensures consistent quality, short delivery times and a low TCO. ■



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Avelingen West 20
4202 MS Gorinchem,
Gorinchem, Netherlands
31 (0)183 63 99 11

CONTACT: Shanna van Berchum
shanna.van.berchum@damen.com

► DEL Tank & Filtration Systems | www.deltank.com

DEL Corporation specializes in the design, manufacturing, sales, and rental of customized tank systems and equipment for all types of dredging, dewatering, solids control, solids separation, and material handling projects across the globe. Our 23 acre manufacturing facility in Scott, Louisiana offers full service design and manufacturing for its customers unique equipment requirements. Founded in 1979, DEL is celebrating 40 years in business. ■



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+1 337 237 8400

CONTACT: Dan Baker
dan@deltank.com

EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

▶ Dial Cordy | www.dialcordy.com

Dial Cordy and Associates Inc. (DC&A) is a small business specializing in environmental consulting services involving natural sciences and regulatory functions. The firm's forte is in preparing environmental impact assessments, developing construction monitoring plans, assisting with permit acquisition and compliance, providing environmental construction oversight, and implementing restoration and long-term monitoring of impacted coastal resources. DC&A's goal is to provide the maritime industry technically sound, economically viable, and environmentally sustainable project approaches and solutions. ■



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1011 Ives Dairy Road, Suite 210,
Miami, FL, 33179, USA
+1 786 802 3814

CONTACT: William F. Precht
bprecht@dialcordy.com

▶ DoC Mapping | www.docmapping.com

DoC Mapping's innovative approach to buried pipeline and cable mapping is revolutionizing the way that depth of cover surveys are conducted and the manner in which the data is reported. With years of experience, the DoC Mapping team has developed a process that allows these surveys to be completed faster, safer and more accurately than the more traditional methods (i.e. diver jet-probing, sub-bottom profiling and magnetometer readings). Our reduced time on-site results in a lower cost to the operator. ■



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1301 Edwards Ave.,
Elmwood, LA, 70123, USA
+1 504 352 7551

CONTACT: Milton Morris
Milton.morris@docmapping.com

▶ DRAGFLOW S.r.l. | www.dragflow.it

Dragflow is a world player in solid pumping solutions with over 25 years of experience in manufacturing heavy duty pumps and complete dredging equipments. Dragflow is focused on the continuous development of its design and manufacturing activities for dredging, mining and industrial sectors. With its distribution network around the world Dragflow is able to give consultancy, service and assistance worldwide. Dragflow team constantly works to find new technological solutions for improving performances of its products and optimizing sustainable operations. ■



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Via Paesa 46048
Roverbella (MN),
Via Paesa, Italy
39 3450661605

CONTACT: Alfredo Ranaldi
alfredo.ranaldi@dragflow.it

▶ DSC Dredge, LLC | www.dscredge.com

DSC Dredge LLC is an innovative, global leader in the dredge manufacturing industry, engineering superior customized dredging solutions. DSC analyzes specific application/customer needs and tailors the dredge design to fit those exact needs. DSC designs and manufactures custom, reliable, high quality dredges with outstanding service after the sale. DSC's 12-month new equipment warranty is the best in the business. 24/7 technical support, including weekends and holidays ■



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156 Airport Rd.,
Reserve, LA, 70084, USA
+1 985 479 1355

CONTACT: Charlie Johnson
CHJohnson@dscredge.com

▶ EA Engineering, Science, and Technology, Inc., PBC | www.eaest.com

EA is a recognized leader in providing dredged material management services to a wide range of clients throughout the United States. For decades, we have provided scientific data and environmental documentation to support project-specific and long-range planning initiatives. EA's expertise goes beyond sampling and analysis and includes interpretation, evaluation, and applicability of the data as related to placement options and beneficial uses. Our specialty services include DMMPs; ecotoxicological testing; Marine Protection, Research and Sanctuaries Act (MPRSA) Section 103 evaluations for ocean placement; ecological risk assessment; and permitting. ■



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Hunt Valley, MD, 21031, USA
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CONTACT: Peggy Derrick
pderrick@eaest.com

▶ EarthBalance Corporation | www.earthbalance.com

EarthBalance® has been permitting, restoring, protecting, and managing ecosystems throughout the United States and the Caribbean for over 30 years. Our experience with large-scale and complex restoration projects makes us a leader within the ecosystem restoration industry. Our team includes experts in constructing, restoring, and managing upland and wetland habitats. We apply environmental science and industry-leading technologies to develop ecological solutions that balance nature with the needs of people. ■



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North Port, FL, 34289, USA
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swade@earthbalance.com

EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

▶ EIVA | www.eiva.com

For more than 40 years, EIVA has provided equipment and software to the maritime construction and survey industry to a wide range of segments, covering virtually any subsea task, including dredging. We know and understand the challenges that our customers face, and we work closely together with them to choose and implement the solution that will offer the most value to their operations, with all that implies - including software training and 24/7 support. ■



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Niels Bohrs Vej 17,
8660 Skanderborg,
Denmark
45 8628 2011

CONTACT: eiva@eiva.com

▶ Elastec, Inc | www.elastec.com

It all flows downstream. From storm water runoff's first flush to flushing solids into sewer systems, trash, debris, oil, sediment, drugs pollute waterways daily. Elastec manufactures equipment to keep our waterways clean: Trailer-mounted vacuums for sewer, septic and lift station maintenance; drum skimmers for fat, oil and grease removal; floating booms for containment, deflection and protection; turbidity curtains to control sediment; portable onsite incinerators for non-hazardous waste disposal and work boats for skimming floatables. ■



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Carmi, IL, 62821, USA
+1 618 382 2525

CONTACT: Shon Mosier
elastec@elastec.com

▶ Ellicott Dredges, LLC | www.dredge.com

Ellicott® Dredges, one of the oldest and most successful dredging equipment companies in the world, has been supplying dredging equipment to governments, municipalities, contractors, sand and gravel operators, port authorities, and marina operators for over 125 years. Manufacturer of high-performance dredging equipment. ■



60 & 61

1611 Bush Street,
Baltimore, MD, 21230, USA
+1 443 514 4012

CONTACT: Paul Quinn
pquinn@dredge.com

▶ Feel Good, Inc. | www.feelgoodinc.org

Feel Good, Inc. provides portable TENS (transcutaneous electrical nerve stimulation) units offering wide variety of benefits, including alleviating back, nerve and diabetic pain and migraines. Our units can also improve circulation, sleep patterns and have been shown to decrease the use of pain relievers that can cause negative side effects. ■



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4700 Millenia Blvd. #175-91551,
Orlando, FL, 32839, USA
+1 407 986 3351

CONTACT: Rechelle Llorito
support@feelgoodinc.org

▶ Geo-Synthetics Systems LLC | www.geo-synthetics.com

Geo-Synthetics Systems LLC is a manufacturer of Geotrux™ geotextile tubes which are used in a wide variety of dewatering, coastal, and structural applications. In addition, Geo-Synthetics LLC is one of the country's largest independent installers of geomembrane liners for applications such as landfills, sludge lagoons, and mine tailing ponds. ■



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Waukesha, WI, 53188, USA
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CONTACT: Randy Pit
rpit@gsibp.com

▶ Great Lakes Dredge & Dock Co. | www.gldd.com

Great Lakes Dredge & Dock Company, LLC (GLDD) provides domestic and international capital, coastal protection, and restoration dredging services that help shape the environment by maintaining and deepening America's ports, protecting its shorelines, and creating barrier islands and land reclamations. With 129 years of experience, GLDD is North America's largest provider of marine dredging and the only U.S. company with substantial overseas operations. GLDD owns and operates a diverse dredging fleet comprised of numerous specialized maritime vessels, and operates marine yards in five locations nationwide. ■



20 & 21

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WHHanson@gldd.com

EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

► Greyline Instruments | www.greyline.com

Greyline Instruments Inc. is the worldwide leader in clamp-on ultrasonic flow measurement via the Doppler method. By utilizing this technology, Dredge operators can accurately and reliably measure flow through their intake and discharge pipes by clamping the meter on within a few minutes. Greyline offers products which are accurate, easy to use, at a good value, and with excellent customer support both before and after sale. The Doppler technology lends itself well to the dredging market by being non-invasive - making it easy to install with little to no maintenance, and it won't wear and tear like other technologies that come in contact with the slurry. ■



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Largo, FL, 33773, USA
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CONTACT: George Poole
gpoole@greyline.com

► Hagler Systems | www.haglersystems.com

Hagler Systems is an EPC that specializes in process design and custom OEM solutions in the dredging and mining industry. With over 100 years of combined experience in the dredging market we are able to provide customized equipment packages tailored to fit a variety of applications. Utilizing our best in-class processes, systems, and experience, we are able to provide full-scale, turn-key solutions designed around each unique problem. ■



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Augusta, GA, 30901, USA
+1 803 278 2728

CONTACT: Lee Henry
Lee@haglersystems.com

► HUESKER, INC. | www.HUESKER.com

For over 155 years, the HUESKER Group has been one of the world's leading manufacturers of technical geosynthetic, agriculture and industrial textiles. Our products and services provide solutions for the business areas Earthworks and Foundations, Roads and Pavements, Environmental Engineering, Hydraulic Engineering as well as applications in Industry and Agriculture. ■



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Charlotte, NC, 28273, USA
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CONTACT:
marketing@hueskerinc.com

► Hydrographic Society of America | www.thsoa.org/

The Hydrographic Society of America Inc., also known as THSOA, is a non-profit professional membership organization, whose main focus is to provide support to its members in the Americas. THSOA is a 501(c)(3) non-profit organization committed to promoting education in offshore survey, positioning and mapping, including hydrography and related earth sciences. THSOA was incorporated in the State of Maryland, United States as a non-profit organization in 1984 and was granted 501(c)(3) status as a non-profit organization by the United States Internal Revenue Service in 1984. THSOA celebrated its' 35-year presence in the United States on April 1, 2018. With chapters in Houston, Southeast, Northeast, Mid-West, West Coast, National Capital Region and Latin America, our membership now stands at over 600 members. ■



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CONTACT: Mike Nitska
mike.nitska@hydroterratec.com

► HYPACK - A Xylem Brand | www.hypack.com

HYPACK, a Xylem brand and now part of YSI has been serving the marine and hydrographic community since 1984. With over 25 years of experience and over 10,000 users worldwide, HYPACK has become a leading developer of hydrographic and dredging software in the industry. It provides the Surveyor with all the tools needed to design their survey, collect data, process it, reduce it, and generate final products. ■



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Middletown, CT, 06457, USA
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christine.roca@xylem.com

► IDEAL ELECTRIC & Gulf Electroquip | www.theidealelectric.com

Gulf Electroquip provides new, remanufactured and repaired AC/DC Traction Motors, AC Top Drive Motors, AC Generators, Traction Motor Spark Arrestors, Motor Blowers, Bug Blowers & a wide range of safety products. All supported by load testing services and one of the most complete parts inventories in the country. IDEAL ELECTRIC, formerly Hyundai Ideal Electric Co., specializes in the design, manufacture, service and repair of specialty electric motors, generators, switchgear and controls up to 50 MVA. Over 115 years, the company has become a globally recognized supplier of custom synchronous, induction and permanent magnet machinery for all applications. ■



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Mansfield, OH, 44902, USA
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CONTACT: Nicholas Phillips
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EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

► IHC America | www.ihc-america.com

IHC America Inc. is a US based subsidiary of Royal IHC, created to service the North America market. IHC America was founded in 1977, originally under the name DTC Dredges. IHC America Inc. is responsible for the supply of our full line of dredge and mining products and services which includes innovative vessels, advanced equipment and life-cycle support. By developing partnerships with local based construction companies and suppliers, IHC America has successfully built a track record of serving the dredge and mining industries with advanced, reliable and cost efficient vessels and equipment, ranging from studies, training, engineering, renovations, spare replacement parts up to turn key deliveries of dredge and mining units. ■



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Houston, TX, 77042, USA
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CONTACT: Jon Nieman
j.nieman@ihc-america.com

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► Infrastructure Alternatives, Inc. (IAI) | www.iaewater.com

IAI provides Clean Water Solutions for dredging operations. We support dredging projects by designing, installing and operating dredged material processing, dewatering and water treatment systems. These systems are sized to handle high production dredge flows and produce clean water for regulations-compliant discharge. Our employee-owned, small business finds innovative solutions and works through challenges, to deliver complex projects, on time and on budget. We specialize in contaminated sediments, from maintaining waste stream segregation, to conditioning, dewatering, stabilization and water treatment. ■



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Rockford, MI, 49341, USA
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CONTACT: Michelle Rioux
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► J.F. Brennan Company, Inc. | www.jfbrennan.com

J.F. Brennan Company, Inc. (Brennan) is a marine contracting firm that specializes in environmental dredging and habitat restoration throughout the inland waters of the United States. Our focus on safety and innovation has enabled us to emerge as an industry leader in mechanical, hydraulic and amphibious dredging, as well as diver-assisted micro-dredging. ■



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La Crosse, WI, 54603, USA
+1 608 519 5349

CONTACT: Andrew Timmis
atimmis@JFBRENNAN.COM

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► Kohler Power Systems | www.kohlerpower.com/marine/sectionfront.htm?sectionNumber=13461

A global force in power solutions since 1920, Kohler is committed to leading-edge products and comprehensive aftermarket support. Headquartered in Kohler, Wis., the company offers a full range of power solutions - including generators, automatic transfer switches, paralleling switchgear, monitoring controls and more. Kohler marine generators are produced in the United States and distributed globally. The company's USA, EMEA, Singapore, India, China, Australia and Brazil offices all have dedicated marine personnel supporting a network of regional distributors. ■



444 Highland Drive,
Kohler, WI, 53044, USA
+1 920 457 4441

CONTACT: John McKinnon
john.mckinnon@kohler.com

42

► Kruse Integration | www.kruseintegration.com

Kruse Integration has been focusing on the design, development and implementation of industrial automation systems for over 21 years. We provide full turn-key project services, managing the entire project life cycle, including scope development, justification, design, development, implementation, startup, training and support. ■



8344 Belair Road,
Baltimore, MD, 21236, USA
+1 410 952 4189

CONTACT: Jay Wise
jwise@kruseintegration.com

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► LAGERSMIT | www.lagersmit.com

How we deliver Peace of Mind with the best sealing solutions for pumps, ships and tidal turbines? Take the next step in performance and reliability. Lagersmit has been in the maritime industry since 1856. This heritage means we have gained the right knowledge, resources and capacity to develop special seals for the dredging industry. And that will continue in the future. ■



Nieuwland Parc 306
2952 DD Alblasserdam,
Netherlands
31 (0)88 0216 241
CONTACT: Ashley Kunz-van der Vlies
ashley.kunz@lagersmit.com

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EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

▶ LAND Remediation, Inc. | www.land-remediation.com/

LAND Remediation, Inc. (LRI) is a full-service environmental remediation contractor focused on our client's needs and project specific requirements. LRI specializes in providing soil and sediment remediation, material processing, in-situ stabilization/solidification, on-site soil treatment, off-site transportation and disposal of contaminated water and soil, on-site water treatment of construction wastewaters and contaminated groundwater, sheet piling and excavation support system installation, installation of containment and barrier systems, and site restoration. ■



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Waterford, NY, 12188, USA
+1 518 766 4105

CONTACT: Keith Decker
kad@land-remediation.com

▶ LIEBHERR | www.liebherr.com

LIEBHERR, a market-leading crawler crane manufacturer - with service stations worldwide incl. Houston (TX) and various other cities in North America, is since many years very active in the DREDGING business. Our proven Heavy Duty products (HS Series) may be equipped with CLAMSHELL BUCKETS and all sort of other GRABS for Dredging Applications. With buckets sizes of 1,0 m3 to 22,0 m3 and related capacities (SWL) of up to 75t we are able to perform underwater-operations down to 200m. Our machines are built for continuous operations with a design life of at least 2 Million load cycles. A Dredging Management Systems can be interfaced with the LIEBHERR duty crane and we are also able to connect the crane to barges or ships via a welded pedestal adapter. ■



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7075 Bennington Street,
Houston, TX, 77028, USA
+1 713 636 4058

CONTACT: Cornelia Luhrs
Cornelia.Luhrs@liebherr.com

▶ Mackworth Enviro | www.mackworth-enviro.com

Effective, Cost-Balanced Containment of Sediment and Contaminants - MACKWORTH-ENVIRO designs, delivers, installs, maintains and removes custom, engineered filter barriers according to customer needs. From silt curtains, suspended from surface flotation to hang above the bottom, through bottom-anchored and sealed filter barriers for even the most challenging applications and environments, MACKWORTH-ENVIRO containment barrier systems have consistently met performance requirements. Recent applications have also replaced the alternative requirement for sheet pile containment. Call us. ■



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Scarborough, MA, 04074, USA
+1 207 883 1777

CONTACT: Andrew J. McCusker
amccusker@mackworth-enviro.com

▶ McDermott Light & Signal | www.mcdermottlight.com

DREDGE LIGHTS: Long-lasting, high-visibility dredge line marker lights to meet applicable sections of 33CFR 88.15. FLOOD LIGHTS: Our industrial LED Floodlights give you light that is high powered, long-lasting, and vibration resistant. Change to McDermott LED lights; changing, bulbs, ballast, and connectors will be in your past. ■



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1639 Stephen Street,
Ridgewood, NY, 11385, USA
+1 718 456 3606

CONTACT: Russell Sirois
russ@mcdermottlight.com

▶ Mercator Inc. | www.mercatorgps.com

Mercator, Inc., servicing the U.S. Marine/Construction Industry since 1992. Mercator is an Authorized Trimble Dealer and a Trimble Certified Repair Center. We have an extensive Rental inventory of well-maintained calibrated equipment. Mercator offers "second-to-none" in-house technical support and up-to-date training. Mercator is your ALL-IN-ONE SOLUTION for all your GPS needs. ■



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Katy, TX, 77449, USA
+1 281 829 1111

CONTACT: Mike Arredondo
jma@mercatorgps.com

▶ Metso Minerals | www.metso.com/

Metso is a world-leading industrial company offering equipment and services for the sustainable processing and flow of natural resources in the mining, aggregates, recycling and process industries. To meet the demand of the global dredging market, Metso designs and manufactures dredge and slurry pumps for handling abrasive slurries. The Metso Thomas, Marathon, and Orion series of horizontal slurry pumps, and the Sala series of vertical pumps offer wide range of options to the dredging industry. ■



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Columbia, SC, 29229, USA
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CONTACT: Albert "Bubba" Savage
bubba.savage@metso.com

EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

▶ MTG (Metalogenia S.A.) | www.mtgsystems.com

MTG is an international company specializing in the design and manufacture of wear solutions for earth-moving, mining, construction and dredging machinery. Present in more than 60 countries worldwide, it operates through more than 400 dealers. For the dredging sector, MTG's offering ranges from its own G.E.T. systems to the design and development of its cutterheads, and has a specialized team of direct sales and engineers already working with leading worldwide dredgers. With more than 60 years of history, MTG has its headquarters and warehouse in Barcelona, and is present in the US since 1998, with a sales office and a warehouse in Houston. ■



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08005 Barcelona, Spain
+34 93 741 70 00

CONTACT: Tamara Kraft
Tamara.Kraft@mtg.es

▶ Neptune Flotation | www.pipefloat.com

Neptune Flotation is a leading supplier of industrial flotation products including pipe floats, cable floats, floating walkways and work platforms, regulatory buoys, and suspension floats. Applications include dredging, mining, irrigation and aggregate industries. Neptune pipe floats use Clamp Tite technology that prevents them from slipping along the pipeline, and have built in stacking and ergonomic features. Pipe floats include galvanized hardware (stainless is optional) and come ready to assemble. Sizes available range from 6 inches (152mm) to 48 inches (762mm). ■



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101 W 103rd Street,
Indianapolis, IN, 46032, USA
+1 317 588 3700

CONTACT: Blake Elder
belder@pipefloat.com

▶ NORBIT | www.norbit.com

NORBIT Subsea designs and manufactures wideband curved-array multibeam sonars for bathymetric applications, forward-looking applications, as well as advanced subsea solutions such as leakage detection, real-time dredge progress monitoring, pipeline inspection, asset integrity mapping and hydrographic surveying. NORBIT's multi-sensing concept combines multiple integrated sensors into one hardware platform with a single LAN connection to survey laptop. Supported sensors include any combination of bathymetric multibeam echo-sounder, forward looking sonar and LiDAR. Full on-site or regional training courses are offered to bring efficiency and highest data quality to every project. ■



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7041 Trondheim, Norway
+1 805 708 3877

CONTACT: Peter Eriksen
pke@norbit.com

▶ PANOLIN America Inc. | www.panolinamerica.com

PANOLIN America, the US based subsidiary of PANOLIN International, is a lubricant manufacturer specializing in VGP compliant Environmentally Acceptable Lubricants (EALs). PANOLIN EALs are based on the highest performing fully saturated synthetic esters. With over 35 years of experience providing the highest performing, longest lasting, regulation compliant EALs, PANOLIN has set the bar for EALs today. ■



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Ventura, CA, 93003, USA
+1 805 676 1193 Ext. 103

CONTACT: Brandon Richards
brandon.richards@panolinamerica.com

▶ Phoenix Lighting | www.phoenixlighting.com

Phoenix's expertise in marine applications dates back to the 1970s. For five decades, we have listened to customers and learned the unique requirements of this demanding environment. Phoenix leads the industry by designing and building lights that endure constant vibration, large temperature variances and corrosive conditions - exactly what you need for dredging. ■



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Milwaukee, WI, 53224, USA
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CONTACT: Caitlin Duncel
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▶ PMR Hydraulics North America | www.pmrhydraulics.com

PMR Hydraulics North America Inc. is an international provider of overall solutions for Hydraulic systems, which satisfy the most stringent quality and safety requirements. From maintenance, repairs, new projects and piping systems, to a rental fleet of hydraulic equipment. Combined into a unique one-stop-shop concept. In addition, we offer a wide range of Hydraulic components including Hydraulic Cylinders, Directional Control valves, Filters, Pumps, Motors and Winches. In a Nutshell: We Design, Fabricate, Install and Maintain any Hydraulic system. ■



18 & 19

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Mobile, AL, 36605, USA
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CONTACT: Bas Smaal
bs@pmrhydraulics.com

EXHIBITORS A to Z

The dredging exhibition showcases leading companies from around the world, who will be demonstrating their latest products and services.

► PVE Equipment USA | www.pveusa.com

Bell Dredging Pumps is specialized in designing and manufacturing dredge pumps, as well as amphibious excavator undercarriages, power packs, and tailor-made solutions dredging industry. PVE Equipment USA is the sales, rental and service center in America for all dredging enquiries. Our main focus is on environmental, barge unloading, maintenance dredging and mining. ■



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CONTACT: Herald Wattenberg
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► QPS | www.qps-us.com

QPS are experts in maritime geomatics software and services and has offices in the Netherlands, Canada, USA, and the UK. ■



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CONTACT: Evan Martzial
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► REMU USA Inc | www.remu.fi

REMU is a Finnish manufacturing company of Big Float amphibious excavators. It is widely used for dredging, clearing waterways and lakes, flood control and wetland restoration works. Big Float engineered for both static buoyance and optimal stability on water. It can be operated on solid land, shorelines, in marshlands, shallow water areas and anywhere in between. Remu patented variable-width pontoon undercarriage system allows ease of transportation of an assembled excavator. Big Float - When Quality Counts. ■



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CONTACT: Eric Dupee
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► Ryzhka International LLC | www.ryzhka.com

Ryzhka International LLC is a provider of lubricants and fuel oil in both bulk and package quantities to government, commercial and maritime industries. Due to our alignment with key partners, we can provide products from most major petroleum refineries as well as products from smaller refineries or even OEM products. Our buying power allows us to be very competitive with pricing throughout our product lines. We can deliver product domestically as well as internationally. As a Service Disabled Veteran Owned Small Business and HubZone certified company, we are uniquely positioned to help companies meet their contractual requirements for large government contracts and welcome all inquiries. ■



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Pompano Beach, FL, 33060, USA
+1 619 417 5799

CONTACT: Michael Dunbar
mdunbar@ryzhka.com

► Salem Republic Rubber Company | www.salem-republic.com

47 year old second generation family business manufacturing the full spectrum of dredging hoses; suction hoses, stern discharge hoses, flanged dredge sleeves, slip-on dredge sleeves, hooped/gimbel ring hoses, floating discharge hose, pump connectors, cylindrical fenders. Hose design and hose failure analysis services available. All products sold are made in America. ■



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jdunchuck@salem-republic.com

► Seafloor Systems, Inc. | www.seaflorsystems.com

Serving the hydrographic, dredging, and academic communities, Seafloor Systems provides a full spectrum of hydrographic survey equipment, software, training and support. We maintain the largest Multibeam Echosounder Rental Pool in the U.S., including the new Teledyne RESON SeaBat T50-P and T20-P systems. Seafloor Systems sells complete turnkey Multibeam System Solutions, and manufactures the portable HydroLite-TM echosounders ideal for narrow rivers, streams, lakes, ponds, sheltered waters and protected harbors. We designed and manufacture the HyDrone-RCV/ASV remote/autonomous controlled platform and the EchoBoat-ASV (autonomous surface vehicle) - a multi-payload platform featuring portability, improved thrust, and large payload capacity suitable for professional-grade single beam and multibeam echosounders. ■



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▶ Sediment Solutions, LLC | www.sedimite.com

Sediment Solutions LLC is the provider of expertise and material for in-situ sediment remediation using activated carbon. Our product, SediMite™, delivers a high dose of activated carbon to contaminated sediments and active caps. We provide this technology under exclusive license from holders of two US patents for the use and pelletized delivery of activated carbon to sediments. We also provide consulting services for clients requiring experienced guidance using this emerging technology for their projects. ■



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▶ Subsea Technologies, Inc. | www.subseatechnologies.com

Subsea Technologies provides sales, rentals, and service of positioning systems (underwater and GPS/GNSS), ROV instrumentation and tooling, side scan sonar and sub-bottom profiler systems, and rugged field computing solutions. Subsea Technologies represents industry-leading manufacturers like Applied Acoustics, Hemisphere GNSS, AML Oceanographic, DeepSea Power & Light, Handheld, Klein Marine Systems, Tritech International, Fathom Systems, and Chesapeake Technology. ■



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▶ Survey Equipment Services | www.ses-services.com

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► Texas Boom Company | www.TexasBoom.com

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► The Carylton Sediments Group | www.carylonsedimentsgroup.com

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▶ U.S. Army Engineer Research and Development Center (ERDC) | www.erdcd.usace.army.mil/

ERDC's Civil Works research, development and technology business area contributes to the strength of the Nation by providing innovative and environmentally sustainable solutions to the Nation's water resources challenges. Our Nation's water resources are under increasing pressure from competing uses. Our state-of-the-art technologies help provide safe and resilient communities and infrastructure and help American goods compete in the global marketplace. ERDC science and technology help the Corps manage existing navigation and water resources infrastructure sustainably—in the face of expected climate change and land use change, invasion by exotic species, demographic shifts, and aging structures—to meet the needs of future generations. ■



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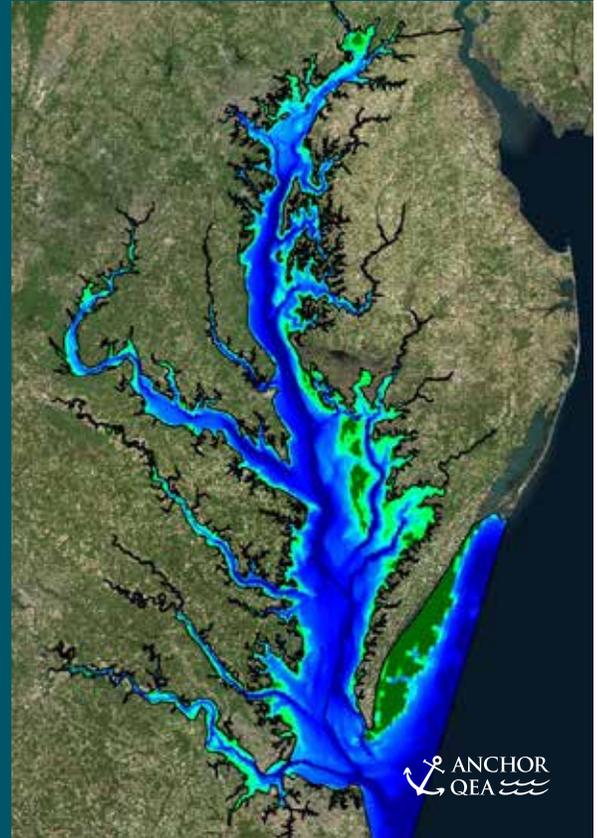
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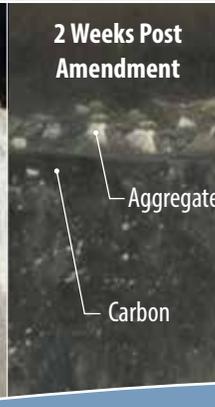
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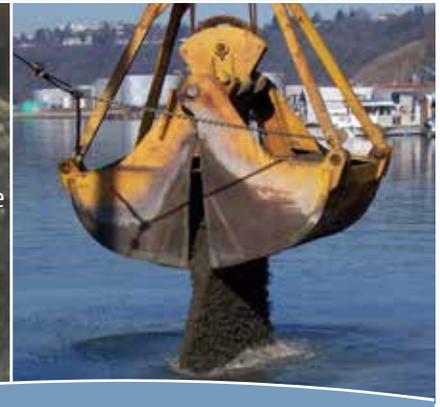
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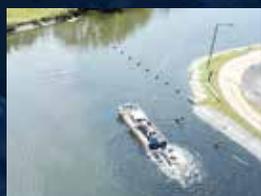
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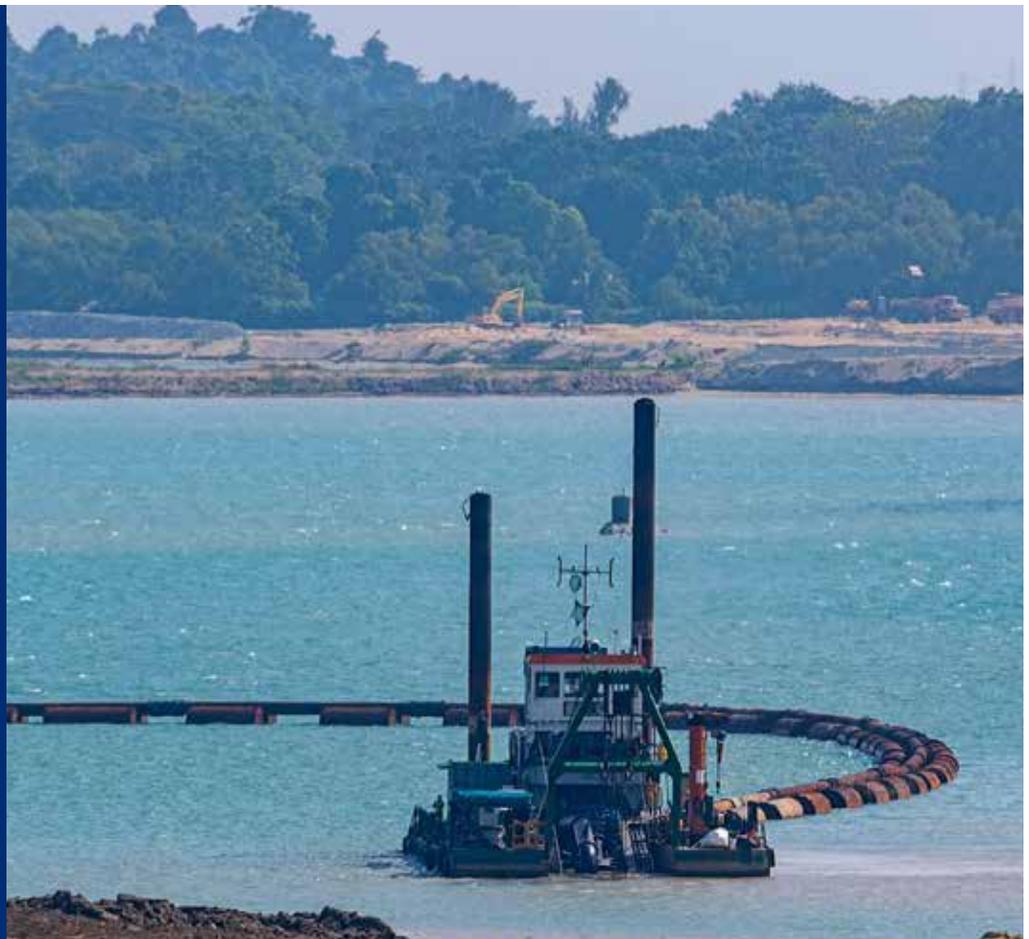
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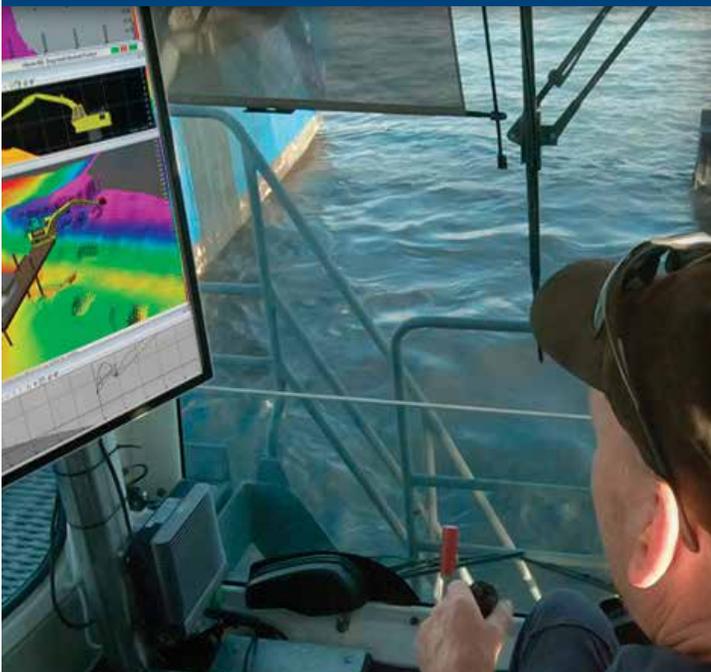
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