

NWWWS GR18



Courtesy Experience Grand Rapids

NATIONAL WORKING WATERFRONTS AND WATERWAYS SYMPOSIUM

*Keeping Waterfronts Working for the Next Century:
Sustainability, Recovery, and Prosperity*



MAY 14-17, 2018 | GRAND RAPIDS, MICHIGAN

nationalworkingwaterfronts.com | [@nwwaterfronts](https://twitter.com/nwwaterfronts) | [#nwwws18](https://hashtage.com/nwwws18)

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NWWN EXECUTIVE COMMITTEE

Nicole Faghin

Washington Sea Grant
Chair

Niki Pace

Louisiana Sea Grant
Vice Chair

Mark Breederland

Michigan Sea Grant
Symposium Chair

Bob Swett

Florida Sea Grant, Boating &
Waterway Management
Outreach and Education

Jack Wiggin

UMB, Urban Harbors Inst.
Past Chair

Michael Liffman

National Sea Grant, retired
Strategic Planning

Henry Pontarelli

Lisa Wise Consulting, Inc.
Communications

Kristin Uiterwyk

UMB, Urban Harbors Inst.
Policy

WELCOME LETTER

Welcome to the fifth National Working Waterfronts and Waterways Symposium!

On behalf of the National Working Waterfront Network (NWWN), I want to welcome you to Grand Rapids for an exciting three days of presentations and networking opportunities focused on the important issues facing working waterfronts across the nation.

The NWWN is a 10-year-old organization of individuals representing municipal, state, and federal agencies; nonprofits, universities, and Sea Grant programs; water-dependent businesses and industry associations; as well as others who are interested and engaged in supporting and enhancing our nation's working waterfronts and waterways.

NWWN's mission is to increase the capacity of those who rely on, support, and enhance our nation's working waterfronts and waterways to ensure their continued viability. One way we accomplish this is by sponsoring a symposium every three years. Our first symposium, held in Norfolk, Virginia, in 2007, set us on a course for a national dialogue about working waterfronts. We identified policy needs, research ideas, leadership actions, and tools to maintain and increase working waterfronts. Three years later, we held the second working waterfront symposium in Portland, Maine, and generated the idea of the National Working Waterfront Network.

This year's fifth symposium in Grand Rapids, Michigan, reflects the importance of the working waterfront in the Great Lakes region. Moreover, in honor of the fifth National Working Waterfronts and Waterways Symposium, and to celebrate more than a decade of convening, we will collect NWWN's stories and take stock of our successes in protecting the nation's working waterfronts and waterways. Throughout the symposium, a team of oral historians will record your stories and mark them on a map. These stories will be shared with all of you during our final morning plenary on Thursday.

We gratefully acknowledge all the hard work of everyone who made this symposium possible, and specifically thank our symposium chair, Mark Breederland. We also wish to thank all of our sponsors who helped make this event possible.

Thank you for joining us in Grand Rapids. We hope you will stay engaged in the work of NWWN by joining our newsletter and consider participating in one of our committees.

You can learn more at our website www.wateraccessus.com.

Nicole Faghin

Chair, National Working Waterfront Network

GENERAL INFORMATION

SYMPOSIUM REGISTRATION

Staff will be available to assist participants with check-in and symposium information during the following times. Please be sure to pick up your name badge and symposium swag along with your materials. Your name badge will serve as your pass, so please wear it while attending symposium functions.

NOTE: Name badges can be returned to the registration desk after the symposium for recycling.

- Monday, May 14, 3:00 p.m. – 5:00 p.m.
- Tuesday, May 15, 8:00 a.m. – 5:00 p.m.
- Wednesday, May 16, 8:00 a.m. – 5:00 p.m.
- Thursday, May 17, 8:00 a.m. – 12:00 p.m.

HOTEL WIRELESS ACCESS

Complimentary guest Wi-Fi is available throughout hotel guest rooms, outlets, public spaces, and meeting spaces. However, guest Wi-Fi is password protected. Upon hotel check-in, you should have been given the password. If you did not receive that password or need assistance, please visit the conference registration desk.

SOCIAL MEDIA

- @nwwaterfronts
- #nwws18

PARKING

Amway Grand Plaza offers parking for \$24 per night for self-parking or \$29 per night for valet parking, both with 24-hour in-and-out access for registered guests. The City of Grand Rapids operates other parking facilities and meters. On-street parking is free after 6:00 p.m. and all day on Sunday.

LOST AND FOUND

Lost and found items can be turned in or retrieved from the conference registration desk from 8 a.m. to 5 p.m. See the hotel desk after hours.

FINANCIAL SERVICES

An ATM is located between the gift shop and florist just off the main lobby at the Amway Grand Plaza Hotel.



SMOKING POLICY

The Amway Grand Plaza Hotel is a non-smoking facility. In an effort to provide every guest with a comfortable, clean, fresh, and healthy accommodation, the hotel has a strictly enforced non-smoking policy. Smoking is not permitted within the hotel. Designated smoking areas can be found by the main entrances.

BY FOOT

Grand Rapids is a pedestrian-friendly town. In the event of less-than-stellar weather, check out the SkyWalk system: a mile of interconnected tunnels and enclosed walkways that connect hotels, office buildings, and entertainment venues.

BY TAXI

There are various taxi services available throughout the city. Here are two local options:

- Runabouts | runaboutsgr.com
- Metro Cab | metrocabgr.com | (616) 827-6500

BY CAR-SHARE

Services such as Uber and Lyft are readily available in Grand Rapids and include services to and from the airport. First-time users are invited to use the discounts listed below.

- Uber | Enter “c96fl” for up to \$10 on your first ride
- Lyft | Enter “KYLE658434” for a credit on your first ride

BY BUS

The Rapid transit service operates between 6:30 a.m. and 6:30 p.m. with some routes running as late as midnight. Fares are just \$1.75 per ride or \$3.50 for a daily unlimited pass. Routes, timetables, and more are available on the website, ridetherapid.org

The downtown core is serviced by DASH (Downtown Area Shuttle) which is completely free to ride and comes every 7-8 minutes. Some routes connect the district to nearby neighborhoods and the Silver Line loops around downtown.



LODGING

Amway Grand Plaza Hotel
187 Monroe Avenue NW
Grand Rapids, Michigan
amwaygrand.com
(616) 774-2000

RESTAURANTS AND POINTS OF INTEREST

RESTAURANTS WITHIN THE AMWAY GRAND PLAZA HOTEL

CYGNUS27

High atop the Amway Grand Plaza Hotel, Cygnus27 transports you to a rhythmic environment among the stars.

GP SPORTS

Catch the latest sports action along with top-notch burgers, pizzas, and specialty drinks at this colorful and casual restaurant.

THE KITCHEN BY WOLFGANG PUCK

Made-from-scratch comfort fare meets authentic global classics in the kitchen of the world's first celebrity chef, Wolfgang Puck.

THE KITCHEN COUNTER BY WOLFGANG PUCK

Quick and delicious, The Kitchen Counter serves freshly baked and made-to-order breakfast and lunch items with ingredients to nourish and delight.

LUMBER BARON BAR

Lumber Baron Bar lets you settle into the warmth and charm of a historic bar.

RENDEZVOUS

Relax in the morning with a delicious breakfast, or visit in the evening for craft cocktails, fine wine, and more.

RUTH'S CHRIS STEAK HOUSE

Right inside the Amway Grand Plaza, Ruth's Chris Steak House serves only the best steaks.

STARBUCKS

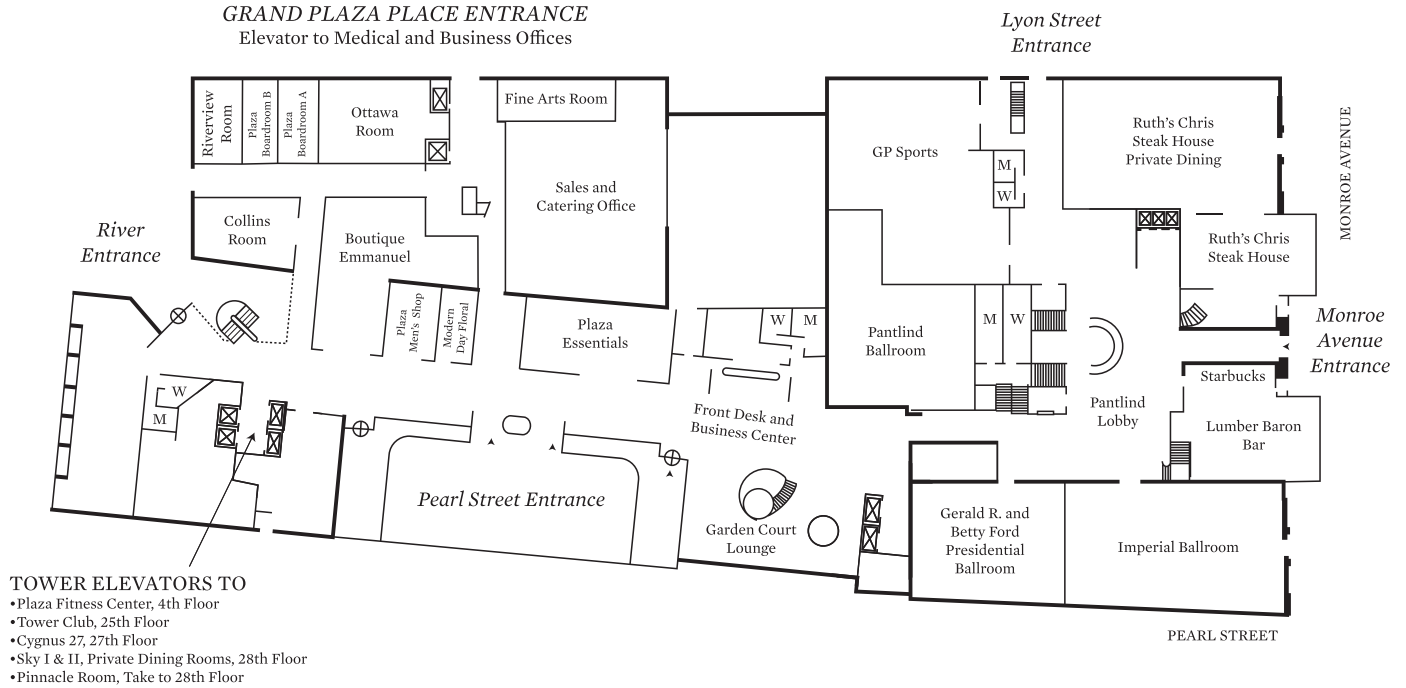
Starbucks offers specialty coffees, including Reserve blends, sandwiches, desserts, and more!

NEARBY RESTAURANTS

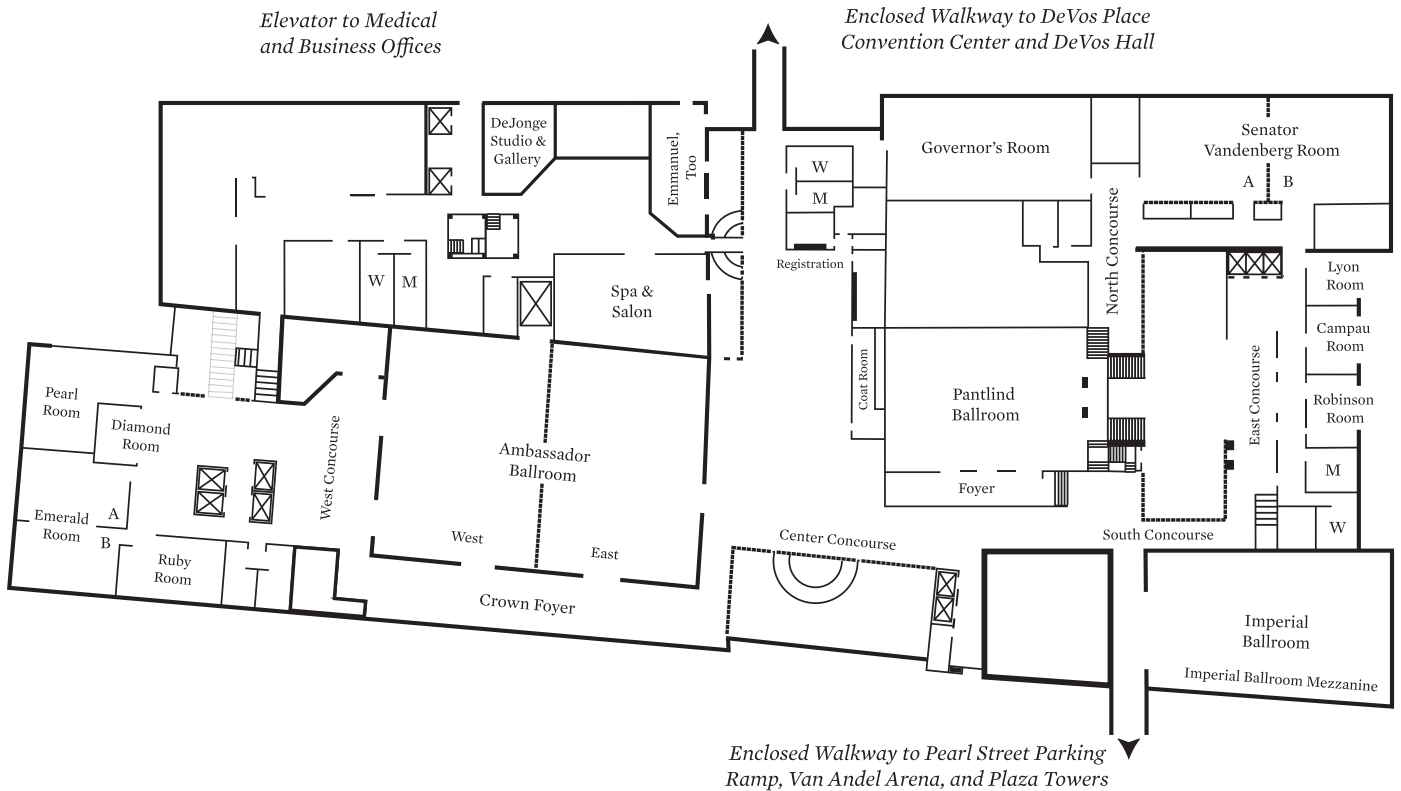
Utilize your namebadge at nearby restaurants and points of interests for discounts. A printed map from the visitors bureau provides, locations and discounts offered.

HOTEL DIAGRAM

LOBBY LEVEL – 1ST FLOOR



CONCOURSE LEVEL – 2ND FLOOR



SYMPOSIUM COMMITTEE MEMBERS

SYMPOSIUM PLANNING

Mark Breederland, Chair
Michigan Sea Grant

Katelyn Brolick
Michigan Sea Grant

Nicole Faghin
Washington Sea Grant

Elyse Larsen
Michigan Sea Grant

Rhett Register
Michigan Sea Grant

Ashley Schwieterman
Michigan State University
ANR Event Services

Natalie Springuel
Maine Sea Grant

Kenneth Walker
NOAA Office for Coastal
Management

Alexa Wutt
Michigan Sea Grant

FIELD TRIP COMMITTEE

Alexa Wutt, Chair
Michigan Sea Grant

Josh Albrecht
Saugatuck-Douglas Convention
and Visitors Bureau

Dave Alexander
Downtown Muskegon Now

Sandy Bryson
Michigan State University, Retired

Matt Chapman
Grand Rapids Whitewater

Marci Cisneros
Grand Haven Area Convention
and Visitors Bureau

Kathy Evans
West Michigan Shoreline Regional
Development Commission

David Knight
David Larkin Knight, LLC;
Great Lakes Commission, Retired

Patti Montgomery Reinert
Michigan Maritime Museum

Wendy Ogilvie
Grand Valley Metro Council

Chuck Pistis
Michigan Sea Grant, Retired

Brandon Schroeder
Michigan Sea Grant

Jay Steffen
City of Grand Rapids

ABSTRACTS COMMITTEE

Kenneth Walker, Chair
NOAA Office for Coastal
Management

Mary Bohling
Michigan Sea Grant

Mark Breederland
Michigan Sea Grant

Jamie Doyle
Oregon Sea Grant

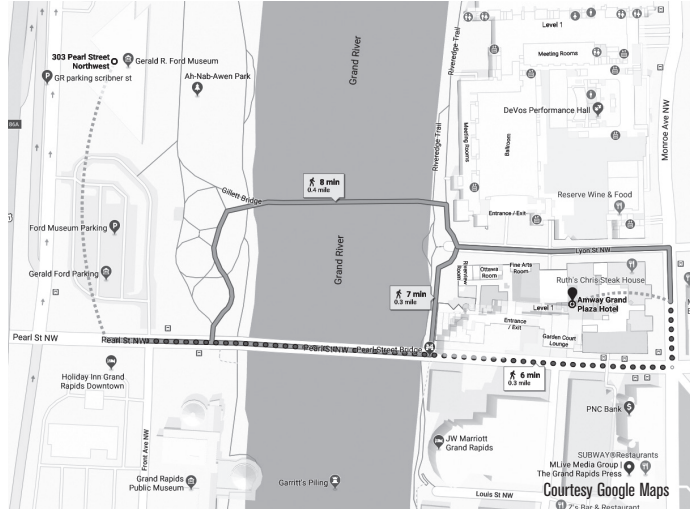
Nicole Faghin
Washington Sea Grant

Joe Lucente
Ohio Sea Grant

Stephanie Showalter Otts
National Sea Grant Law Center

Niki Pace
Louisiana Sea Grant

NETWORKING WELCOME RECEPTION



EXPLORING MICHIGAN'S HISTORY

MONDAY, MAY 14, FROM 6–9 P.M.

Located in the Gerald R. Ford Museum, 303 Pearl St. NW

Join us for an evening of history and hors d'oeuvres! We look forward to opening the 5th National Working Waterfronts and Waterways Symposium with expositions on the history of Michigan's maritime traditions and commercial fishing. Amanda Holmes, Executive Director of Fishtown Preservation, and Emily Stap, Collections Manager from Michigan's Maritime Museum, will be presenting an overview of the unique history of Michigan's fishing industry.

The welcome reception starts at 6:00 p.m. and will open with presentations. Hors d'oeuvres and refreshments will be available to enjoy throughout your time at the museum. After opening remarks, all museum exhibits will be available to explore and enjoy.

RECEPTION SCHEDULE

- **6:30 p.m.**
Mark Breederland - Extension Educator, Michigan Sea Grant, Symposium Chair
- **6:35 p.m.**
Amanda Holmes - Executive Director, Fishtown Preservation
- **6:45 p.m.**
Emily E. Stap - Collections Manager, Michigan Maritime Museum
- **7:00 p.m.**
Networking and Exploring Exhibits

COME TELL US YOUR STORY!

In honor of the 5th National Working Waterfronts and Waterways Symposium and to celebrate more than a decade of convening, it is time to collect the National Working Waterfront Network's stories and take stock of our successes in protecting the nation's working waterfronts and waterways. You have important stories to tell and we plan to capture them and share them with the network!

A team of oral historians, made up of seasoned network participants and college students, will be on hand at the symposium to record your stories and mark your working waterfronts on the map. Learn more on page 15.

HOW TO PARTICIPATE

Sign up for a 15-30 minute interview block and show up at the appointed time at the symposium. That's it! Contact Natalie Springuel, Maine Sea Grant (nspringuel@coa.edu or text/cell 207-266-6912) to sign up.

FIELD TRIPS

WEDNESDAY, MAY 16, 12 P.M.

Symposium participants are invited to join one of four field trips to West Michigan waterfront communities. All tours depart from Amway Grand Plaza Hotel. Boxed lunches provided for all tours at the Lyon St. entrance, first floor lobby.



GRAND RAPIDS

WALKING TOUR begins with lunch in Plaza Boardroom A.

Grand Rapids is Michigan's second-largest city and boasts an impressive downtown with an emphasis on its relationship to the Grand River. Explore the NWWWS host city through a walking tour that will highlight the city's efforts to restore beauty and public access to this striking riverfront. Enjoy a networking lunch at the Amway Grand Plaza Hotel prior to departure. The tour will run from noon to 5 p.m. and will be solely on foot with frequent stops. Plan to bring comfortable walking shoes and a water bottle.

ORGANIZERS AND TOUR LEADERS

- **Matt Chapman**, Grand Rapids Whitewater, matt@grandrapidswhitewater.org
- **Wendy Ogilvie**, Grand Valley Metro Council, wendy.ogilvie@gvmc.org
- **Jay Steffen**, City of Grand Rapids, jsteffen@grcity.us

MUSKEGON

BUS TOUR departs from Lyon St. entrance.

Muskegon is a working waterfront in its truest form, featuring a cross-lake car ferry to Milwaukee, Wisconsin; science labs and research vessels; commercial docking and fishing operations; recreational marinas; and ongoing redevelopment of former coal-fired power plant and paper mill brownfield sites. The tour will depart from Grand Rapids at noon (boxed lunches provided for the bus ride) and return at 7 p.m. The tour will be predominantly on charter buses with occasional stops. Participants should bring comfortable walking shoes and a water bottle.

ORGANIZERS AND TOUR LEADERS

- **Dave Alexander**, Downtown Muskegon Now, dalexander@downtownmuskegon.org
- **Kathy Evans**, West Michigan Shoreline Regional Development Commission, kevens@wmsrdc.org

SPEAKERS

- **Chuck Canestraight**, Sand Products Corporation
- **Dennis Donahue**, NOAA Great Lakes Environmental Research Laboratory
- **Mark Evans**, Muskegon Lake Watershed Partnership
- **Bob Lukens**, Muskegon County Convention & Visitors Bureau
- **Dennis Kirksey**, Muskegon Lake Watershed Partnership
- **Ron Matthews**, Verplank Trucking
- **Alan Steinman**, Grand Valley State University Annis Water Resources Institute
- **Kathleen Torresen**, Torresen Marine



GRAND HAVEN AND SAUGATUCK

BUS TOUR departs from Lyon St. entrance.

Two of west Michigan's most popular summer beach destinations, Grand Haven and Saugatuck offer many recreational boating and coastal tourism opportunities along bustling boardwalks. The tour will depart from Grand Rapids at noon (boxed lunches provided) and return at 7 p.m. This will be a combined bus tour with frequent stops and a 45-minute walking tour. Participants should bring comfortable walking shoes and a water bottle. Expect to encounter uneven sidewalks, staircases, and sandy beaches.

ORGANIZERS AND TOUR LEADERS

- **Chuck Pistis**, Michigan Sea Grant, Retired, stickleback1@yahoo.com
- **Josh Albrecht**, Saugatuck-Douglas Convention & Visitors Bureau, josh@saugatuck.com
- **Marci Cisneros**, Grand Haven Area Convention & Visitors Bureau, mcisneros@visitgrandhaven.com

SPEAKERS

- **Joy Gaasch**, Chamber of Commerce (Grand Haven, Spring Lake, Ferrysburg)
- **Kirk Harrier**, City of Saugatuck
- **Lisa Imus**, City of Douglas
- **John Sharar**, Retro Boat Rentals

SOUTH HAVEN

BUS TOUR departs from Lyon St. entrance.

A charming beach town located where the Black River meets Lake Michigan, South Haven offers historical adventures alongside a dense and expansive recreational and commercial waterfront. The tour will depart from Grand Rapids at noon (boxed lunches provided for the bus ride) and return at 7 p.m. The South Haven tour will be predominantly on foot with frequent stops, including a 1.3 mile-long harbor walk. Participants should bring comfortable walking shoes and a water bottle. Expect to encounter uneven sidewalks, staircases, and sandy beaches.

ORGANIZERS AND TOUR LEADERS

- **Sandy Bryson**, Michigan State University, Retired, sbryson@msu.edu
- **David Knight**, David Larkin Knight, LLC; Great Lakes Commission, Retired, dknight050@gmail.com
- **Patti Montgomery Reinert**, Michigan Maritime Museum, patti@mimaritime.org
- **Brandon Schroeder**, Michigan State University Extension, schroe45@anr.msu.edu

SPEAKERS

- **Chad Bard**, Red Bar Charters and The Sun Setter River and Lake Cruises
- **Jim Bard**, IT IL DO Charters
- **Brian Bosgraaf**, Michigan Maritime Museum
- **Rich Chapman**, South Haven Steelheaders
- **Brian Dissette**, City of South Haven
- **Dennis Eade**, Michigan Steelhead and Salmon Fisherman's Association
- **Gary Horton**, Michigan Maritime Museum
- **Scott Reinert**, South Haven Visitors Bureau
- **Tim Stegeman**, City of South Haven Harbor Commission
- **Dan Strong**, Mr. Bill Charters

SYMPOSIUM AGENDA

MONDAY	MAY 14, 2018
9:00 a.m. – 5:00 p.m.	Pre-Symposium Training: Estimating the Local Working Waterfront Economy, ENOW, Pearl Room (Online pre-registration required, limit 30 attendees)
3:00 p.m. – 5:00 p.m.	Registration open and sponsor set-up, Amway Grand Plaza West Concourse 2nd Floor
6:00 p.m. – 9:00 p.m.	<p align="center">WELCOME RECEPTION</p> Gerald R. Ford Museum (303 Pearl St. NW); departing (5-minute walk) Amway Grand Plaza valet lobby at 5:50 p.m.; hors d'oeuvres provided
TUESDAY	MAY 15, 2018
8:00 a.m. – 5:00 p.m.	Registration open and sponsor set-up, Amway Grand Plaza West Concourse 2nd Floor
8:00 a.m. – 9:00 a.m.	Morning refreshments, visit sponsor displays, Crown Foyer/West Concourse 2nd Floor
9:00 a.m. – 10:00 a.m.	Ambassador Ballroom
<i>Welcome Addresses</i>	<p align="center">OPENING PLENARY</p> <p>MODERATOR: Mark Breederland, Extension Educator, Michigan Sea Grant; Symposium Chair</p> <p align="center">Jim Diana, Director, Michigan Sea Grant Nicole Faghin, Coastal Management Specialist, Washington Sea Grant; Chair, Executive Committee, National Working Waterfront Network U.S. Representative Chellie Pingree, 1st District, Maine (Video) U.S. Senator Gary Peters, Michigan (Video)</p>
<i>Keynote</i>	<p align="center">THE FRESHWATER COAST: CONNECTING COMMUNITIES TO NATURE AND NURTURING VITALITY</p> <p align="center">Jon W. Allan, Director, Michigan Office of the Great Lakes</p>
10:00 a.m. – 10:30 a.m.	Refreshment break, visit sponsor displays, Crown Foyer/West Concourse 2nd Floor
10:30 a.m. – 12:00 p.m.	CONCURRENT SESSION A
Session A1	Emerald Room A
<i>Panel</i>	<p align="center">WATERFRONT INDUSTRIES: COMMUNICATING THE STORY</p> <p align="center">MODERATOR: Jamie Doyle, Oregon Sea Grant</p> <p>History Below Waves: Shipwrecks of Thunder Bay National Marine Sanctuary Russ Green, Thunder Bay National Marine Sanctuary</p> <p>Life on the Bayou: Promoting Alabama's Working Waterfront through Oral Histories Jody Thompson, Auburn University Marine Extension and Research Center/ Mississippi-Alabama Sea Grant Consortium</p> <p>Leipsic, DE... Built On Water! Branding a working waterfront community Ed Lewandowski, Delaware Sea Grant</p>
Session A2	Pearl Room
<i>Roundtable</i>	<p align="center">WORKING WATERFRONT ECONOMIES: FINDING INFORMATION TO ADDRESS LOCAL ISSUES</p> <p align="center">MODERATOR: Gabe Sataloff, NOAA Office for Coastal Management</p> <p align="center">Jeffery Adkins, NOAA Office of the Chief Economist Kristen Grant, Maine Sea Grant Camille Martineau, NOAA Office for Coastal Management</p>

Session A3	Emerald Room B
Panel	<p>WATERFRONT REVITALIZATION AND PORT EXPANSION: SUSTAINABILITY, RESILIENCE, AND GENTRIFICATION MODERATOR: Nicole Faghin, Washington Sea Grant</p> <p>Waterfront Reindustrialization: The Rebirth of Garfield Pier <i>Lynette Carney</i>, Barr Engineering Company <i>Deborah DeLuca</i>, Duluth Seaway Port Authority</p> <p>Community Process to Achieve Zoning for a 21st century Port: What happens when your port is expanding at the same time that your community is gentrifying? <i>Bill Needelman</i>, City of Portland, Maine</p> <p>Any Port in a Storm <i>Courtney Humphries</i>, University of Massachusetts Boston</p>
12:00 p.m. – 1:30 p.m.	Lunch (on your own)
1:30 p.m. – 3:00 p.m.	CONCURRENT SESSION B
Session B1	Pearl Room
Roundtable	<p>MAPPING OCEAN STORIES AT THE NATIONAL WORKING WATERFRONTS AND WATERWAYS SYMPOSIUM MODERATOR: Natalie Springuel, Maine Sea Grant</p> <p><i>Nick Battista</i>, Island Institute <i>Katie Clark</i>, Student at College of the Atlantic <i>Corina Gribble</i>, Student at College of the Atlantic <i>Steve Train</i>, Fisherman</p>
Session B2	Emerald Room A
Panel	<p>SUSTAINABLE AND RESILIENT MARINAS MODERATOR: Mark Breederland, Michigan Sea Grant</p> <p>Clean Marina Classroom Live encourages marinas to sail toward Clean Marina status <i>Erin De Vries</i>, Michigan Sea Grant</p> <p>Modeling an Ideal Clean Marina <i>Jenny Roar</i>, Ohio Department of Natural Resources</p> <p>Do Your PART: A Coastal Storms Preparation, Adaptation, and Response Tool for Great Lakes Marinas <i>Sarah Orlando</i>, Ohio Sea Grant/Ohio Clean Marinas Program</p> <p>Waterway Life and Times of the Michigan Clean Marina Program <i>Erin De Vries</i>, Michigan Sea Grant</p>
Session B3	Emerald Room B
Panel	<p>IMPACTS AND TRENDS IN DEVELOPMENT OF URBAN AND GREEN WATERFRONTS MODERATOR: Kristen Grant, Maine Sea Grant/UMaine Cooperative Extension</p> <p>The Harbor Planning Process: Examples from Massachusetts <i>Kristin Uiterwyk</i>, Urban Harbors Institute</p> <p>New Directions for Riverine Harbors and Inland Water Infrastructure <i>Margaret Boshek</i>, SmithGroupJJR</p> <p>The Myth of Dry Feet: What we can learn from how the Dutch engage in flood defense <i>Kristen Grant</i>, Maine Sea Grant/UMaine Cooperative Extension</p>

3:30 p.m. – 5:00 p.m.	CONCURRENT SESSION C
Session C1	Emerald Room A
Roundtable	THE HIDDEN FACES OF THE INDUSTRIES THAT MAKE UP THE WORKING WATERFRONT MODERATOR: <i>Jamie Doyle</i> , Oregon Sea Grant <i>Flaxen Conway</i> , Oregon Sea Grant
Session C2	Pearl Room
Roundtable	TOOLS AND TACTICS FOR SUSTAINABLE SMALL HARBORS MODERATOR: <i>Donald Carpenter</i> , Lawrence Technological University <i>Mark Breederland</i> , Michigan Sea Grant <i>Emily Finnell</i> , Office of the Great Lakes <i>David Knight</i> , David Larkin Knight, LLC/Great Lakes Commission (Retired)
Session C3	Emerald Room B
Roundtable	WORKING WATERFRONT REDEVELOPMENT: CREATING PUBLIC ACCESS, USES AND BENEFITS MODERATOR: <i>Margaret Boshek</i> , SmithGroupJJR <i>Dave Alexander</i> , Downtown Muskegon Now <i>Robert Doyle</i> , SmithGroupJJR <i>Karen Slaughter</i> , Detroit Riverfront Conservancy
6:00 p.m.	Dinner (on your own)
WEDNESDAY	MAY 16, 2018
8:00 a.m. – 5:00 p.m.	Registration open and sponsor set-up, Amway Grand Plaza West Concourse 2nd Floor
8:00 a.m. – 9:00 a.m.	Morning refreshments, visit sponsor displays, Crown Foyer/West Concourse 2nd Floor
9:00 a.m. – 10:30 a.m.	CONCURRENT SESSION D
Session D1	Emerald Room A
Workshop	USING VIDEO STORIES TO CHAMPION WATERFRONT HEROES (AND ADVOCATE FOR YOUR CAUSE) <i>David Ruck</i> , Great Lakes Outreach Media
Session D2	Pearl Room
Roundtable	ISLANDS, UNCERTAINTY, AND WORKING WATERFRONTS: RESPONDING TO ENVIRONMENTAL AND ECONOMIC UNCERTAINTY FACING ISLAND COMMUNITIES THROUGH SHARING CHALLENGES AND SOLUTIONS MODERATORS: <i>Nick Battista</i> , Island Institute <i>Sarah Orlando</i> , Ohio Sea Grant <i>Matt Preisser</i> , Michigan Office of the Great Lakes ISLAND COMMUNITY MEMBERS: <i>Kristy Beyer</i> , Drummond Island (Lake Huron), Michigan <i>Russ Brohl</i> , South Bass Island (Lake Erie), Ohio <i>Andy Dorr</i> , Vinalhaven Island, Maine <i>Duke Marshall</i> , Smith Island, Maryland <i>Kathleen McNamara</i> , Beaver Island (Lake Michigan), Michigan <i>Mark Nelson</i> , Smith Island, Maryland <i>Hattie Train</i> , Long Island, Maine <i>Steve Train</i> , Long Island, Maine

Session D3	Emerald Room B
Roundtable	<p>GREAT LAKES FISHERIES HERITAGE TRAIL: PRESERVING, PROMOTING FISHERIES HISTORY THROUGH COASTAL TOURISM AND GREAT LAKES LITERACY MODERATOR: <i>Brandon Schroeder</i>, Michigan Sea Grant <i>Sandy Bryson</i>, Michigan Maritime Museum <i>Edwina Murphy</i>, State of Michigan Library (Michigan Collections) <i>Natalie Springuel</i>, Maine Sea Grant</p>
10:30 a.m. – 12 p.m.	CONCURRENT SESSION E
Session E1	Emerald Room A
Panel	<p>TOOLS FOR WORKING WATERFRONT RESILIENCE MODERATOR: <i>Kenneth Walker</i>, NOAA Office for Coastal Management Waterfront Edge Guidelines <i>Roland Lewis</i>, Waterfront Alliance Ports Resilience Index <i>Jody Thompson</i>, Mississippi-Alabama Sea Grant Extension Resilience Planning for Water Dependent Uses <i>Matt Campo</i>, Rutgers, The State University of New Jersey</p>
Session E2	Emerald Room B
Roundtable	<p>WORKING WATERFRONTS ISSUES MODERATOR: <i>Dave Knight</i>, David Larkin Knight, LLC/Great Lakes Commission (Retired) <i>Gene Clark</i>, University of Wisconsin Sea Grant Institute <i>Erin Kuhn</i>, West Michigan Shoreline Regional Development Commission <i>Lt. Col. Dennis Sugrue</i>, U.S. Army Corps of Engineers</p>
Session E3	Pearl Room
Roundtable	<p>PRESERVING WATER QUALITY, RECREATIONAL ACCESS, AND WILDLIFE HABITAT FOR WORKING WATERFRONTS THROUGH PARTNERSHIPS MODERATOR: <i>Michelle Vander Haar</i>, U.S. Fish and Wildlife Service <i>Josh Leisen</i>, Huron Pines <i>Jennifer Muladore</i>, Huron Pines <i>Drew Rayner</i>, West Michigan Cooperative Invasive Species Management Area</p>
12:00 p.m. – 7:00 p.m.	<p>FIELD TRIPS All tour participants pick up boxed lunches at Lyon St. entrance, first floor lobby. Walking tour participants bring lunches to Plaza Ballroom A. Bus tour participants board buses at Lyon St. entrance.</p>
	<p>BUS TOURS: Muskegon South Haven Grand Haven-Saugatuck</p> <p>WALKING TOUR: Grand Rapids</p>
After field trips	Dinner (on your own)

THURSDAY	MAY 17, 2018
8:00 a.m. – 12:00 p.m.	Registration open and sponsor set-up, Amway Grand Plaza West Concourse 2nd Floor
8:00 a.m. – 9:00 a.m.	Morning refreshments, visit sponsor displays, Crown Foyer/West Concourse 2nd Floor
9:00 a.m. – 10:30 a.m.	CONCURRENT SESSION F
Session F1	Pearl Room
Roundtable	<p>BLUE ECONOMY MODERATOR: Mark Breederland, Michigan Sea Grant <i>Al Steinman</i>, Grand Valley State University <i>Kate Quigley</i>, NOAA Office for Coastal Management</p>
Session F2	Emerald Room A
Panel	<p>CURRENT ISSUES WITH WORKING WATERFRONTS: RESILIENCE, ACCESSIBILITY, MAPPING, AND LEGAL PROTECTIONS MODERATOR: Heather Triezenberg, Michigan Sea Grant/Michigan State University</p> <p>Supporting economic security and resilience in Wisconsin's coastal communities <i>Adam Bechle</i>, Wisconsin Coastal Management Program <i>Todd Breiby</i>, Wisconsin Coastal Management Program</p> <p>Getting On Board: Accessibility for Recreation and Tour Boats <i>Dave Lemberg</i>, Western Michigan University</p> <p>The Florida Sea Grant Boating and Waterway Planning Program: Characterizing and Mapping Recreational Boating <i>Nancy Montes</i>, University of Florida</p> <p>Legal Protections for Shellfish Grower Access to Waterfront Infrastructure <i>Read Porter</i>, Marine Affairs Institute/Rhode Island Sea Grant Legal Program</p>
11:00 a.m. – 12:00 p.m.	Ambassador Ballroom
	<p>CLOSING PLENARY COLLECTING STORIES AT THE SYMPOSIUM MODERATOR: Mark Breederland, Michigan Sea Grant <i>Natalie Springuel</i>, Marine Extension Associate, Maine Sea Grant</p>
12:00 p.m.	Symposium concludes

COLLECTING STORIES AT THE SYMPOSIUM

To celebrate the fifth National Working Waterfronts and Waterways Symposium, we hope to collect your candid stories about efforts to protect the nation's working waterfronts and waterways. Share your successes, inspirations, and lessons, and gain perspectives from others around the nation who are also committed to planning for the future of our working waterfronts.

A team of oral historians will be on hand at the symposium to record your stories and mark your working waterfronts on the map.

We'll ask you questions like:

- What is your working waterfront story?
- What makes your working waterfront important in your community?
- How has your involvement with the NWWN helped you in your work?

Our team will transform the audio recordings and map-based information into a multimedia presentation. We will present these stories at the final morning plenary and share them online.

HOW TO PARTICIPATE

Sign up for a 15-30 minute interview block and show up at the appointed time at the symposium. That's it!

TO SIGN UP, CONTACT:

Natalie Springuel
Maine Sea Grant
nspringuel@coa.edu
text/cell (207) 266-6912

THE TEAM

Natalie Springuel, the lead organizer of this project, is a marine extension associate at Maine Sea Grant and a research associate at College of the Atlantic. Springuel's extension programs address working waterfronts and coastal access, fisheries heritage, and sustainable tourism planning through research, outreach, and education. She coordinated the second National Working Waterfronts Symposium (2010) in Portland, Maine, and is a co-founder of the National Working Waterfront Network. She has been active in Maine's Working Waterfront coalition since its inception and is a lead author of several waterfront access resources.

Nick Battista, policy officer at the Island Institute, has helped to give fishermen and coastal communities a stronger voice in the ocean planning process and helped coordinate the Institute's Mapping Working Waters and Commercial Fisheries Characterization projects.

Katie Clark, a third-year student at College of the Atlantic, is interested in working to restore and improve the sustainability of marine invertebrate fisheries. She sees interviews as a key way to improve our understanding of resource use and human connections to the sea.

Corina Gribble, a student at College of the Atlantic, has worked on fishing vessels, lived on an outer island, and interviewed local fishing communities. She is interested in how the working waterfront is used in different communities and how policy and regulation directly impact those relationships.

BIOGRAPHIES

JON W. ALLAN (PLENARY)

Director, Michigan Office of the Great Lakes



Jon W. Allan became Director of the Michigan Office of the Great Lakes in 2012, contributing his considerable aquatic sciences experience to the office's mission to protect, restore, and sustain the Great Lakes watershed.

With nearly three decades of experience in environmental and energy policy, he has professionally applied his understanding of ecological management in a variety of academic, corporate, and public occupations.

Jon's research on wetlands, stream ecology, and water policy has been published in journals in Canada and the U.S. Organizations and individuals rely on his expertise to lead environmental planning and policy projects in Michigan and the Great Lakes region.

Prior to his service with the State of Michigan, Jon taught courses in biology, ecology, and environmental impact assessment at his alma mater, Michigan State University, and with other institutions. He also has held a variety of executive management positions in the private and not-for-profit sectors.

Jon advised during the Great Lakes Compact negotiations and co-chaired the State's Water Resources Advisory Council tasked with formulating the state's implementation of the Great Lakes Compact. He's contributed his expertise in a range of roles with the State of Michigan, including those with Michigan's Groundwater Conservation Advisory Council, the Michigan Climate Action Council, and the Environmental Advisory Council for Michigan DEQ.

Jon serves as Chair of the Great Lakes Commission and is a board member or an advisor to numerous other regional organizations. He also serves on the Executive Committee for the Conference of the Great Lakes and St. Lawrence Governors and Premiers.

Jon has a keen interest in making a difference in the Great Lakes watershed and in natural resource governance.

Outside of the office, Jon devotes time to his family and is an avid birder.

MARK BREEDERLAND

*Extension Educator, Michigan Sea Grant;
Symposium Chair*

Mark Breederland loves to work with Great Lakes coastal communities and has done so for more than 30 years. Since 1995, he has been a field-based educator with Michigan Sea Grant and Michigan State University Extension, first serving Detroit and the greater southeast Michigan area, and now living and working in northern Michigan's Grand Traverse Bay area. He is a member of the Executive Committee of the National Working Waterfront Network and has presented or participated in committees for the prior National Working Waterfront Conferences (2007, 2010, 2013, and 2015). He also likes to welcome visitors to the Great Lakes and have them experience the Freshwater Seas and coastlines.

JIM DIANA

Director, Michigan Sea Grant

Jim Diana joined Michigan Sea Grant in 2009 as its director. Diana leads the statewide program in its research, education, and outreach on critical Great Lakes issues. He recently retired as Professor of Fisheries and Aquaculture in the School for Environment and Sustainability at the University of Michigan, where he conducted research and taught for 39 years. He has received numerous professional honors and is the author of more than 70 scientific publications and reports, as well as a textbook, and has been an editor of 2 other books.

NICOLE FAGHIN

Coastal Management Specialist, Washington Sea Grant; Chair, Executive Committee, National Working Waterfront Network

Nicole Faghin is a coastal management specialist with Washington Sea Grant based at the University of Washington in Seattle. Nicole’s education, outreach, and research focuses on social, economic, and environmental shoreline planning efforts, including working waterfronts. She is on the executive committee of the National Working Waterfronts Network and edits the quarterly newsletter for the organization. She is also involved in developing programs to encourage soft shoreline alternatives to bulkheads and coastal climate adaptation issues facing the planning community in Washington State. Nicole holds a Masters in City Planning from Massachusetts Institute of Technology and a law degree from Northeastern University.

U.S. REPRESENTATIVE CHELLIE PINGREE

1st District, Maine

Chellie Pingree (D-ME) has been a U.S. representative from Maine’s 1st congressional district since 2009 and was a member of the Maine Senate from 1992 to 2000. She currently sits on the House Appropriations Committee, serving on the Subcommittee on Agriculture and the Subcommittee on Interior and the Environment. Pingree has long advocated for federal resources to help coastal communities preserve and expand shoreline access and infrastructure for water-dependent industries, such as fishing, boat building, and aquaculture. In 2017, she introduced HR 1176, the Keep America’s Waterfronts Working Act, with Republican Congressman Rob Wittman of Virginia. The bill sought to establish a working waterfront grants program and create a working waterfronts task force to identify needs and convene various federal agencies to collaborate on working waterfronts issues.

U.S. SENATOR GARY PETERS

Michigan

Elected in 2014, Senator Gary Peters represents the State of Michigan in the U.S. Senate. Besides serving on multiple committees — including the Senate Armed Services Committee; Senate Commerce, Science, and Transportation Committee; the Senate Homeland Security and Governmental Affairs Committee; and the Joint Economic Committee — he is a member of the Senate Great Lakes Task Force, a bipartisan working group made up of Senators representing the states bordering the Great Lakes.

Senator Peters works to help Michigan’s waterfront communities develop smart, forward-thinking strategies to revitalize their local economies and make the most of their water resources. He has been a leader on pushing for enhanced oversight of aging pipelines in the Great Lakes and continues to support robust funding for the Great Lakes Restoration Initiative. He also works to protect the Great Lakes from threats ranging from plastic microbeads and Asian carp to proposed permanent nuclear waste storage.



NATALIE SPRINGUEL (PLENARY)

Marine Extension Associate, Maine Sea Grant

Natalie Springuel is a marine extension associate at Maine Sea Grant and a research associate at College of the Atlantic. Springuel’s extension programs address working waterfronts and coastal access, fisheries heritage, and sustainable tourism planning through research, outreach, and education. She coordinated the second National Working Waterfronts Symposium (2010) in Portland, Maine, and is a co-founder of the National Working Waterfront Network. She has been active with Maine’s Working Waterfront coalition since its inception and is a lead author of several waterfront access resources.

Concurrent Session A

TUESDAY, MAY 15, 10:30 A.M. – 12:00 P.M.

Session A1

Waterfront Industries:
Communicating the Story

Panel

MODERATOR: *Jamie Doyle*, Oregon Sea Grant,
Myrtle Point, Oregon

HISTORY BELOW WAVES: SHIPWRECKS OF THUNDER BAY NATIONAL MARINE SANCTUARY

Russ Green, Thunder Bay National Marine Sanctuary,
Alpena, Michigan

Preserved by the cold freshwater on which they once served, more than 200 shipwrecks are believed to rest in Lake Huron's Thunder Bay National Marine Sanctuary. The sheer number of shipwrecks is impressive. However, it is their excellent state of preservation and what they represent — a century and a half of maritime commerce and travel on the Great Lakes — that make them truly special. The presenter will take you on a freshwater journey to a time when schooners and steamers ruled the Great Lakes. The audience will explore some of the nation's best preserved shipwrecks and how the sanctuary is working through research and education efforts to protect the Great Lakes and their rich history for future generations.

CONTACT: Russ Green, (989) 766-3359, russ.green@noaa.gov

LIFE ON THE BAYOU: PROMOTING ALABAMA'S WORKING WATERFRONT THROUGH ORAL HISTORIES

Jody Thompson, Auburn University Marine Extension/
Mississippi-Alabama Sea Grant Consortium,
Mobile, Alabama

Living along a working waterfront is not a situation unique to Alabama, but the character of the community there makes those places unique and special places to live and work. We all know that the waterfront is important to our economy. The working waterfront in Alabama accounts for \$160.4 million of the state's gross domestic product, with the seafood industry, concentrated in 2 counties, employing over 1,500 and making a \$311 million impact on the economy. But, like in many cases, there are pressures on the working waterfront and its businesses. To understand and share the importance of those places, it is important to record and share the stories of the people who make up the community.

Many videos and recordings have been made recording the history and stories of businesses and families of the Alabama working waterfront. Mississippi-Alabama Sea Grant has made several efforts over the years to record the important stories of the working waterfront, but there was a gap between what was gathered and efforts to share these stories with the public.

Mississippi-Alabama Sea Grant Consortium has undertaken an effort to catalog and compile Alabama working waterfront oral histories and videos and create a series of educational tools so that those living on the coast can learn more about the parts of our culture that make this place special. Tools produced include a blog, exhibition kiosk, and a publication in print and interactive e-book. These tell the stories gathered by this effort and create a bigger picture of our working waterfront.

CONTACT: Jody Thompson, (251) 438-5690, thomp13@auburn.edu

LEIPSIC, DE ... BUILT ON WATER! BRANDING A WORKING WATERFRONT COMMUNITY

Ed Lewandowski, Delaware Sea Grant,
Lewes, Delaware

Think of it like a personal makeover ... a better haircut, up-to-date outfit, and new shoes that transform how a person is perceived. It's the same with a community's brand. In summer 2017, Delaware Sea Grant contracted with Arnett, Muldrow & Associates, Ltd. to create a destination image and marketing message for Leipsic, DE, a traditional maritime community located on the Delaware Bayshore. The purpose of the effort was to create a consistent image package for Leipsic and its partners to use to continue to build local pride, recruit investment to the community, and market the town to visitors.

Delaware Sea Grant organized a branding resource visit for Leipsic, which included a roundtable meeting between the consultant and a variety of community "shareholders." The intensive roundtable process was designed to immerse the project team in the community and to provide a marketing and branding plan in a very short time frame. Subsequently, the project team developed design concepts, which were presented to the community during a meeting of the Leipsic town council approximately one month later.

The brand position statement closely reflected the town's values and the new brand image presented a visual connection for the working waterfront. The destination image was up-to-date, vibrant, and designed for today's audiences and was unanimously adopted by the town's leaders. The implementation of the new brand was met with terrific success as part of the community's inaugural Waterfront Oyster Festival held in October 2017.

CONTACT: Ed Lewandowski, (302) 645-4253, edlew@udel.edu

Session A2

Roundtable

WORKING WATERFRONT ECONOMIES: FINDING INFORMATION TO ADDRESS LOCAL ISSUES

MODERATOR: *Gabe Sataloff*, The Baldwin Group/
NOAA Office for Coastal Management, Charleston,
South Carolina

Jeff Adkins, NOAA Office of the Chief Economist,
Charleston, South Carolina

Kristen Grant, Maine Sea Grant, Wells, Maine

Camille Martineau, NOAA Office for Coastal
Management, Charlotte, North Carolina

Many communities are struggling to make an economic case for their working waterfronts. Some of the challenges facing these communities are the lack of data, funds, and staff to identify the information needed to demonstrate the economic importance of working waterfronts.

Join NOAA's Office for Coastal Management and Maine Sea Grant for a facilitated discussion of the economic challenges, needs, and opportunities facing your local working waterfront economy. The session has two objectives:

- Introduce guidance and methods NOAA and Maine Sea Grant have developed for measuring local working waterfront economies;
- Facilitate discussion of key industries and local issues to help attendees develop a compelling economic story on the importance of commercial fisheries, ports, marine construction, and other water-based industries to their local communities.

CONTACT: Gabe Sataloff, (843) 740-1182, gabe.sataloff@noaa.gov

Concurrent Session A

TUESDAY, MAY 15, 10:30 A.M. – 12:00 P.M.

Session A3

Waterfront Revitalization and Port Expansion: Sustainability, Resilience and Gentrification

Panel

MODERATOR: *Nicole Faghin*, Washington Sea Grant, Seattle, Washington

WATERFRONT REINDUSTRIALIZATION: THE REBIRTH OF GARFIELD PIER

Lynette Carney, Barr Engineering Company, Duluth, Minnesota

Deborah DeLuca, Duluth Seaway Port Authority, Duluth, Minnesota

Waterfront communities across the country owe their existence to the commerce, trade, and industrial developments that shaped their identities and drove their economic success. The Port of Duluth, Minnesota, located at the western tip of Lake Superior, is no exception. When the steel making industries in our region began their decline in the 1970s, related industries began closing leaving acres of brownfields properties, a decimated economic base, and significant population loss in their wake. Since that time, the city of Duluth has methodically rebuilt its economic base, focusing on the health care, education and tourism sectors. The city's economy is now more diversified, and our population has stabilized, but whole sections of town, including areas of the former working waterfront, have been bypassed by recent successes. The Duluth Seaway Port Authority recognizes the continued value of the existing working waterfront, and the future potential for reindustrialization of the waterfront as a key component to achieving the city and region's long-term goals for economic growth. Given its unique position as a regional (multi-modal) transportation hub, revitalization of our port infrastructure is key to that reindustrialization.

The Port Authority recently revamped a brownfield area into a modern port facility through the rehabilitation of the Garfield Pier (formerly Docks C & D). Through careful planning and coordinated execution, the Port Authority addressed legacy contamination and created updated infrastructure that will catalyze the reindustrialization needed to support local job growth and regional economic development along our working waterfront. This presentation will focus on a success story many years in the making and share lessons learned along the way.

CONTACT: Lynette Carney, (218) 529-7141, lcarney@barr.com

COMMUNITY PROCESS TO ACHIEVE ZONING FOR A 21ST CENTURY PORT: WHAT HAPPENS WHEN YOUR PORT IS GROWING AT THE SAME TIME THAT YOUR COMMUNITY IS GENTRIFYING?

Bill Needelman, City of Portland, Portland, Maine

Portland, Maine recently faced this question during a recent land use planning process on its Western Waterfront. Presented with an opportunity to develop a long-awaited cold storage facility, port administrators, urban planners, and the city's Economic Development Department faced an unhappy truth. Modern port opportunities did not fit the expectations of outdated zoning. Written decades before during a sustained lull in port activity, Portland's zoning restricted building heights to 45 feet or less. New opportunities in cold storage, bulk freight, and ship repair were ready to develop fulfilling years of policy hopes; but, all required buildings of 50, 60, 70 feet, and higher. City staff members, bolstered by rock solid land use policy foundation, were confident that a tightly constrained zoning fix was reasonable, achievable, and only mildly controversial. City staff was wrong.

While Portland's port may have been sleeping, the surrounding neighborhood boomed. AirBNB, condominium conversions, new construction, and simple housing cost escalation were combining to transform Portland's West End into one of the most expensive residential neighborhoods in the region – a neighborhood located directly across the street from the port.

New neighbors understood little of the port's history nor its policies. Old neighbors worried that newfound property values would suffer due to traffic and industrial expansion. All neighbors valued the river views afforded by a nearly vacant port.

Region-wide, development pressures had crystallized neighborhood opposition to newer, taller forms of development. Port development found itself clumped with residential towers elsewhere in the city and the neighbors wanted none of it.

Bill Needelman, long-time Portland planner and current Waterfront Coordinator, will describe the process, pitfalls, and successes of a year-long process to modernize port zoning. Using a chronological narrative, Bill will describe how neighborhood concerns, industrial realities, visualization tools, and the memory of place combined as ingredients to create Zoning for a 21st Century Port.

CONTACT: Bill Needelman, (207) 874-8722, wbn@portlandmaine.gov

ANY PORT IN A STORM

Courtney Humphries, University of Massachusetts, Boston, Massachusetts

When Europeans first settled in Boston in 1630, they relied on a sheltered harbor and navigable waters to gain a foothold in North America. For much of its history, Boston was a maritime city, with its port serving as an entry point for cargo from around the world, as well as an influx of immigrants. In the 20th century, the city's ports helped connect it to expanding global shipping networks as well as rail and interstate transportation on the ground.

Today, commerce moves via myriad modes, and other US ports have dwarfed Boston's in size. Is Boston still a "port city?" And if so, is the port now vulnerable to natural and socio-economic threats? This presentation outlines two significant impacts to the Port of Boston (and other ports around the world): 1) climate change induced sea level rise and amplified storm intensity; and 2) real estate development pressure.

CONTACT: John Duff, (617) 287-7445, john.duff@umb.edu

Concurrent Session B

TUESDAY, MAY 15, 1:30 P.M. – 3:00 P.M.

Session B1

Roundtable

MAPPING OCEAN STORIES AT THE NATIONAL WORKING WATERFRONTS AND WATERWAYS SYMPOSIUM

MODERATOR: *Natalie Springuel*, Maine Sea Grant, Bar Harbor, Maine

Nick Battista, Island Institute, Rockland, Maine

Katie Clark, Student at College of the Atlantic, Bar Harbor, Maine

Corina Gribble, Student at College of the Atlantic, Bar Harbor, Maine

Steve Train, Fisherman, Long Island, Maine

The relationship between coastal residents and the ocean has long shaped the architecture of life in working waterfront communities. This reality transcends most aspects of coastal society but is often misunderstood or underestimated, and has not been systematically documented. The result is that voices in these communities are often overlooked in decision-making processes that affect them directly. Our project, “Mapping Ocean Stories; Past, Present, Future,” combines oral history with geo-referenced mapping in order to build individual accounts and a collective picture of how fishermen and community members live, work, and access the water. Documenting and aggregating these stories transforms individual anecdotes into a body of knowledge that provides fine-grained insights into impacts of regulatory actions or environmental changes. Collecting and sharing stories can instill a strong sense of community that fosters resilience to change.

An important goal of the Mapping Ocean Stories project is to develop a national model for how to capture complex and authentic interactions between coastal communities, their working waterfronts, and specific places in the ocean. Our intent is that such a model would change how communities are able to represent themselves in decision-making processes.

Our team (Maine Sea Grant, College of the Atlantic, and the Island Institute) will share the body of work being generated by this project in Maine, and apply the project’s methodology to collect and aggregate working waterfront stories from around the nation, in real time, at the symposium.

CONTACT: Natalie Springuel, (207) 288-2944 ext 5834, nspringuel@coa.edu

Session B2

Sustainable and Resilient Marinas

Panel

MODERATOR: *Mark Breederland*, Michigan Sea Grant, Traverse City, Michigan

CLEAN MARINA CLASSROOM LIVE ENCOURAGES MARINAS TO SAIL TOWARD CLEAN MARINA STATUS

Erin De Vries, Michigan Sea Grant, Ann Arbor, Michigan

Mark Breederland, Michigan Sea Grant, Traverse City, Michigan

At seventeen years, the Michigan Clean Marina Program (MCMP) continues to promote environmentally sound marina and boating practices to reduce pollution, enhance fish and wildlife habitat, and protect Great Lakes water quality. In 2018, the MCMP took the educational component of the program on the road. The Clean Marina Classroom Live in-person workshops brought together pledged marinas and marinas ready for recertification and shared important classroom lessons tied to recommended best practices and the certification checklist. In conjunction with the workshops, a program survey, designed to illuminate the barriers and benefits of the Michigan Clean Marina Program, was distributed to workshop participants, non-participating marinas, and other pledged and certified marinas, as well as partner organizations and state agencies.

The Michigan Clean Marina Program will present current feedback from the 2018 survey along with a historical timeline of the program since its start in 2001 and the status

of the voluntary certificate program. We will also provide an update on recent activities and strategic planning efforts of the Great Lakes Clean Marina Network. The presentation will allow time for symposium participants to share ideas on how to grow and sustain education and support of marinas in their process of becoming a clean(er) marina.

CONTACT: Erin De Vries, (734) 647-0766, edevries@umich.edu

MODELING AN IDEAL CLEAN MARINA

Jenny Roar, Ohio Department of Natural Resources, Sandusky, Ohio

The Ohio Department of Natural Resources, through a Great Lakes Restoration Initiative Grant and the University of Michigan, has developed a model of an Ideal Clean Marina to aide marina managers as they incorporate best management practices (BMPs) at their marinas. This model with layered renderings identifies state and federal components and voluntary BMPs for marinas to use as a planning and educational tool for their site-specific parcels. The renderings include a base layer representing minimum Ohio Clean Marina requirements and two additional layers representing the Gold and Platinum tiers of voluntary practices marinas can consider as they review options for certification. The ideal clean marina incorporates marina management, resiliency and preparedness, habitat and species, boater education and employee training and community outreach.

CONTACT: Jennifer Roar, (419) 296-6528, jennifer.roar@dnr.state.oh.us

DO YOUR PART: A COASTAL STORMS PREPARATION, ADAPTATION, AND RESPONSE TOOL FOR GREAT LAKES MARINAS

Sarah Orlando, Ohio Sea Grant, Sandusky, Ohio

The damage inflicted by Superstorm Sandy in 2012 caused many marina managers in the Great Lakes to become concerned about the vulnerability of their marinas to coastal storms. Ohio Sea Grant pursued and obtained a National Oceanic and Atmospheric Administration Coastal Storms Grant in partnership with the Ohio

State University School of Environment and Natural Resources, along with Pennsylvania and Wisconsin Sea Grant. The grant project, Development of a Coastal Storm Preparation, Adaptation, and Response Tool for Great Lakes Marinas, aimed to understand the needs, drivers, and barriers to preparing for extreme weather hazards and to then develop tools that will help marina owners now and in the future. Focus groups with marina owners in Erie, Pennsylvania; Cleveland, Ohio; and Milwaukee, Wisconsin; were completed to engage the marina community and conduct a needs assessment with the user group. Drawing on this data, the project team developed a tool, the PART, to address concerns raised in focus groups and support climate adaptation and coastal resiliency decisions of marina owners/operators. Results of the focus groups will be shared as well as the tool and accompanying outreach materials.

CONTACT: Sarah Orlando, (419) 609-4120, orlando.42@osu.edu

LIFE AND TIMES OF THE MICHIGAN CLEAN MARINA PROGRAM

Erin De Vries, Michigan Sea Grant, Ann Arbor, Michigan

The Michigan Clean Marina Program started in 2001. The main objective has always been to educate recreational boaters on the importance of stewarding our Great Lakes waters. The program achieves this by empowering marinas to become clean marinas and guiding them to implement best practices that help to reduce pollution runoff into rivers and lakes.

The history of the Michigan Clean Marina Program and its influence in developing and co-leading the Great Lakes Clean Marina Network will be presented. This talk is for those states interested in learning about the ebbs and flows of a clean marina program and how to initiate this program or network.

CONTACT: Erin De Vries, (734) 647-0766, edevries@umich.edu

Concurrent Session B

TUESDAY, MAY 15, 1:30 P.M. – 3:00 P.M.

Session B3

Impacts and Trends of Development of Urban and Green Waterfronts

Panel

MODERATOR: *Kristen Grant*, Maine Sea Grant/UMaine Cooperative Extension, Wells, Maine

THE HARBOR PLANNING PROCESS: EXAMPLES FROM MASSACHUSETTS

Kristin Uiterwyk, Urban Harbors Institute (UHI) at the University of Massachusetts Boston, Boston, Massachusetts

Harbor planning is a tool whereby communities can engage stakeholders to identify needs and opportunities in their harbors, and develop goals, objectives, and recommendations to meet those needs and capitalize upon those opportunities. Common topics in harbor plans include emerging harbor uses such as shellfish aquaculture and on-water lodging (e.g., using houseboats and recreational boats as bed and breakfasts); recreational uses such as boating, fishing, and swimming; and commercial uses such as fishing and excursion vessels. This session will go over what harbor planning is and how and why communities develop harbor plans. Examples I intend to share will talk about how communities are planning for dredging, shellfish aquaculture, and recreational boating (including transients and liveboards) in their harbors, and how climate change is/is not playing out in harbor planning efforts.

CONTACT: Kristin Uiterwyk, (617) 287-5570, kristin.uiterwyk@umb.edu

NEW DIRECTIONS FOR RIVERINE HARBORS AND INLAND WATER INFRASTRUCTURE

Margaret Boshek, SmithGroupJJR, Madison, Wisconsin

Before the advent of rail lines and highways, rivers were the primary transportation corridors and the lifeblood of U.S. inland communities. The Mississippi River was and still remains an important artery of commerce. With the continued push to reduce global pollution, in particular greenhouse gases, it should be noted that waterborne transport is considered to be the greenest option. Waterway transport only produces a tenth of the greenhouse gases produced by roadway transport and yet carry much greater loads. By all accounts, water transport is a cheaper form of commercial transport.

Given that a reduction in transportation costs is necessary to be competitive in a global market, more countries will likely be moving toward inland waterway transport. However, river transport can be unpredictable. Strong currents, obstructions, extreme weather, and varying water levels pose great hazards to navigation and delays to shipments.

While the U.S. is among the largest users of inland waterways for transport, they are far behind Europe, which has one of the most advanced waterway systems in the world. Rivers much smaller than the Mississippi have been engineered to remove navigation variability through riverbank stabilization and sustainable channel sedimentation control. There are many lessons to be learned.

This presentation will look back on inland water transport and give a glimpse into its future as well as its impact on communities and individuals along the riverbanks. It will also take a look at the hazards of living along the river and how the protective actions we take may actually be increasing the risks. We are not alone in this conundrum and therefore this presentation will also touch upon how others are addressing this pressing issue.

CONTACT: Margaret Boshek, (608) 327-9952, margaret.boshek@smithgroupjjr.com

THE MYTH OF DRY FEET - WHAT WE CAN LEARN FROM HOW THE DUTCH ENGAGE IN FLOOD DEFENSE

Kristen Grant, Maine Sea Grant/UMaine Cooperative Extension, Wells, Maine

The Dutch have become so expert in the science and art of water management that even minor flooding is actually fairly uncommon. So uncommon actually, that most Dutch citizens are unaware of their level of flood risk. Following deadly floods in 1953, the Dutch government assumed full responsibility for flood protection and developed an extensive system of dykes and barriers called the Delta Works. This system has protected the Dutch people so effectively since that time, that The Myth of Dry Feet has prevailed for generations in the minds of most Dutch. But climate change projections suggest that this level of certainty the Dutch government has provided can no longer be guaranteed, and now the Dutch people need to share in the responsibility for flood protection. Efforts in the Netherlands to counteract The Myth and engage the Dutch people in planning to defend themselves from flooding is the focus of this presentation, including the exploration of stakeholder engagement themes, such as sharing of diverse types of knowledge, and taking the time to understand stakeholder perceptions. What have the Dutch learned? Which of their lessons can we apply here at home?

CONTACT: Kristen Grant, (207) 752-1638, kngrant@maine.edu

Concurrent Session C

TUESDAY, MAY 15, 3:30 P.M. – 5:00 P.M.

Session C1

Roundtable

THE HIDDEN FACES OF THE INDUSTRIES THAT MAKE UP THE WORKING WATERFRONT

MODERATOR: *Jamie Doyle*, Oregon Sea Grant, Myrtle Point, Oregon

Flaxen Conway, Oregon Sea Grant, Corvallis, Oregon

Many of the industries along working waterfronts (WW) are inaccessible to the public or hard to see, even though they can play critical social and economic roles in the local community. We believe that WW industries thrive when there is local understanding of, and support for, the work and the people doing this work. In this roundtable discussion session, we will engage participants in a dialogue about some emerging workforce issues for WW industries. We will set the stage for the session with questions we are asking and examples related to seafood processing in Oregon, but the majority of the time will be spent discussing three questions of interest to anyone concerned with keeping the “working” in working waterfronts: 1) What are the hidden identities of the WW workers and how do we make them visible to the larger community? 2) What role is diversity playing in the WW workforce; if workers are changing over time, what are some sources of support and recruitment to the industries? 3) What is the role of resilience; how is the WW workforce coping with forces of external change (such a climate change and global markets)? Bring your experience, ideas, and questions to share as this session explores the sometimes-hidden part of WW industries: the workers.

CONTACT: Jamie Doyle, (541) 297-4227, jamie.doyle@oregonstate.edu

Session C2

Roundtable

TOOLS AND TACTICS FOR SUSTAINABLE SMALL HARBORS

MODERATOR: *Donald Carpenter*, Lawrence Technological University, Kalamazoo, Michigan

Mark Breederland, Michigan Sea Grant, Traverse City, Michigan

Emily Finnell, Office of the Great Lakes, Lansing, Michigan

David Knight, David Larkin Knight, LLC; Great Lakes Commission, Retired, Grand Rapids, Michigan

Administered by state, county, and local units of government, there are over 80 small public harbors and marinas throughout the state of Michigan. These harbors are a critical component of the state’s blue economy with impacts from Great Lakes recreational boating in the billions of dollars. Unfortunately, Michigan’s harbor communities have weathered many storms in the last few decades, including fluctuating water levels, failing infrastructure, seismic shifts in the state’s economy, and decreased federal funding for maintenance. This left many harbor communities struggling to adjust to the “new normal”.

In response, the Sustainable Small Harbors (SSH) Strategy Project was designed to help small harbor communities develop strategies that would enable them to optimize the benefits of their waterfront facilities to become more economically, socially, and environmentally sustainable.

This session will describe the SSH Strategy Project and share lessons learned, tools created, and strategies small harbor communities used to implement their visions for a sustainable future. Finally, the panel will solicit the audience for specific examples of projects with similar goals and discuss how we can continue to create a consensus vision for long-term leadership in waterfront and water-dependent communities.

CONTACT: Donald Carpenter, (248) 763-4099, dcarpenter@drummondcarpenter.com

Session C3

Roundtable

WORKING WATERFRONT REDEVELOPMENT: CREATING PUBLIC ACCESS, USES, AND BENEFITS

MODERATOR: *Margaret Boshek*, SmithGroupJJR,
Ann Arbor, Michigan

Dave Alexander, Downtown Muskegon Now,
Muskegon, Michigan

Robert Doyle, SmithGroupJJR, Ann Arbor, Michigan

Karen Slaughter-DuPerry, Detroit RiverFront
Conservancy, Detroit, Michigan

Urban waterfront redevelopment is rapidly evolving, especially as it involves current or former working waterfronts. Sites that were once centered completely on shipping, industry, or commerce must now incorporate recreation, access, habitat, and new forms of resilient infrastructure to address changing economic priorities and community needs. Cities are rethinking the best use of their waterfront lands, while ports and other working waterfronts are increasingly creating public-oriented amenities to expand the way they do business.

This session will feature three presentations highlighting relevant working waterfront redevelopment case studies, followed by a moderated discussion and Q&A session.

CONTACT: Margaret Boshek, (608) 327-44442,
margaret.boshek@smithgroupjjr.com

Concurrent Session D

WEDNESDAY, MAY 16, 9:00 A.M. – 12:00 P.M.

Session D1

Workshop

USING VIDEO STORIES TO CHAMPION WATERFRONT HEROES (AND ADVOCATE FOR YOUR CAUSE)

David Ruck, Documentary Filmmaker,
Marquette, Michigan

This 90-minute workshop will challenge participants to consider techniques for developing short video stories to help build coalitions among user groups, educate the public and stakeholders on matters related to specific waterfront goals, increase social media footprint, showcase scientific and research efforts, or embolden a grant proposal! You don't have to be a video professional to benefit from this workshop. You WILL have a better understanding of how well-crafted video stories will help you reach audiences and grow support for your mission.

The workshop will explore NOAA's Earth Is Blue (EIB) campaign (sanctuaries.noaa.gov/earthisblue), a successful social media outreach campaign that brings attention to ocean and Great Lakes issues through photo and video stories. The workshop will strip away the production process of several EIB videos, break them down into the key takeaway points that were determined before filming, and work backwards from the desired impact to selecting the right central focus for a story.

Participants will explore ways to identify potential "heroes" through a checklist and examine ways in which representatives of various target communities and stakeholders can be championed as the subjects of short videos. Participants will discover ways to identify how a particular person or group — through their daily activities — can be showcased as a method of advocating for an idea, project, program, initiative, more funding, etc. Participants will leave the workshop with a draft concept of a video they or their organization could produce that supports their mission. Finally, the participants will explore examples of and brainstorm creative ways to launch a video that will generate the most social impact.

CONTACT: David Ruck, (231) 329-3107, david.ruck@gmail.com

Session D2

Roundtable

ISLANDS, UNCERTAINTY, AND WORKING WATERFRONTS: RESPONDING TO ENVIRONMENTAL AND ECONOMIC UNCERTAINTY FACING ISLAND COMMUNITIES THROUGH SHARING CHALLENGES AND SOLUTIONS

MODERATORS:

Nick Battista, Island Institute, Rockland, Maine
Sarah Orlando, Ohio Sea Grant, Sandusky, Ohio
Matt Preisser, Michigan Office of the Great Lakes,
Lansing, Michigan

ISLAND COMMUNITY MEMBERS:

Kristy Beyer, Drummond Island (Lake Huron), Michigan
Russ Brohl, South Bass Island (Lake Erie), Ohio
Andy Dorr, Vinalhaven Island, Maine
Duke Marshall, Smith Island, Maryland
Kathleen McNamara, Beaver Island (Lake Michigan),
Michigan
Mark Nelson, Smith Island, Maryland
Hattie Train, Long Island, Maine
Steve Train, Long Island, Maine

Whether it is dealing with an unseasonably cold winter that locks up harbors and prevents ferries from running, warming waters that change the lifecycle and economics of a commercially important species, or changing water levels, water defines island communities. Shrinking municipal and state budgets coupled with rising infrastructure costs mean it is critical for communities to learn about what works from each other. Island communities present a unique lens through which to consider how working waterfronts respond in the face of changes. The feedback loop is shorter and the role working waterfronts play in the community is often greater. Taken together, we believe there are significant opportunities to learn from these communities.

Building on recent exchange trips between island communities in the Great Lakes and island communities in Maine, this informal roundtable will explore these and other issues facing island or geographically isolated regions.

Islanders from both Maine and the Great Lakes will be attending the conference and will be invited to share their experiences, challenges, and perspectives. Island and mainland community partners from elsewhere who are also attending the conference will be encouraged to attend. Ultimately, we will generate lessons learned about how communities are responding to these changes and start to identify best practices for supporting communities through these changes.

CONTACT: Nick Battista, (207) 691-3554, nbattista@islandinstitute.org

Session D3

Roundtable

GREAT LAKES FISHERIES HERITAGE TRAIL: PRESERVING, PROMOTING FISHERIES HISTORY THROUGH COASTAL TOURISM AND GREAT LAKES LITERACY

MODERATOR: *Brandon Schroeder*, Michigan Sea Grant, Alpena, Michigan

Sandy Bryson, Michigan Maritime Museum, South Haven, Michigan

Edwina Murphy, State of Michigan Library (Michigan Collections), Lansing, Michigan

Natalie Springuel, Maine Sea Grant, Bar Harbor, Maine

Gail Vander Stoep, Michigan State University (Dept. of Community Sustainability), East Lansing, Michigan

Amanda Holmes, Fishtown Preservation Society, Leland, Michigan

Great Lakes fisheries — fish and people who fish — have significantly benefited coastal communities, the Great Lakes region, and the nation throughout history and still

today. Our dynamic Great Lakes fisheries and a new Great Lakes Fisheries Heritage Trail offer opportunities to explore the past, present and future of the lakes through the lens of fish and fishing. Connected as part of this trail, museum exhibits and educational opportunities, events, and experiences highlight our fisheries heritage, ecology, management, and the economic and social issues that have defined Michigan and Great Lakes coastal communities.

This Great Lakes Fisheries Heritage Trail represents a multi-state network and partnership among museum, maritime heritage, and fisheries agencies and organizations cooperating to elevate Great Lakes fisheries history and heritage (specifically that of commercial fishing) as part of a broader maritime heritage and coastal tourism landscape. Through these collective, coordinated efforts this network is working to preserve and interpret a rich Great Lakes fishery history, enhance local communities and heritage-based tourism opportunities, and foster educational opportunities focusing on Great Lakes literacy and stewardship. This session explores the origins and development of this regional GLFH network and partnership, connections made with strategic audiences and community development goals, and an ambitious website project designed to expand network relationships and capacity while fostering educational and community connections.

CONTACT: Brandon Schroeder, (989) 354-9885, schroe45@msu.edu

Concurrent Session E

WEDNESDAY, MAY 16, 9:00 A.M. – 12:00 P.M.

Session E1

TOOLS FOR WORKING WATERFRONT RESILIENCE

Panel

MODERATOR: *Kenneth Walker*, NOAA Office for Coastal Management, Silver Spring, Maryland

Working waterfront communities are challenged by nuisance flooding, storm surge, and sea level rise. Whether retrofitting existing infrastructure or accommodating new development, resilience to current and future hazards is an important consideration for additional waterfront investments. However, existing approaches to adaptation and resilience planning may not be suitable due to the challenges of maintaining access to waterfront infrastructure that is increasingly in harm's way. A number of resilience planning tools have been developed to specifically help working waterfront communities assess their vulnerability to hazards and enhance community and port resilience.

CONTACT: Kenneth Walker, (240) 533-0801, kenneth.walker@noaa.gov

WATERFRONT EDGE GUIDELINES

Roland Lewis, Waterfront Alliance, New York, New York

The Waterfront Alliance developed WEDG, a voluntary rating system and guidelines to address waterfront challenges at the project scale. WEDG focuses on the community goals of resilience, ecology and access. Through a locally-based project planning process, WEDG promotes communication and education among diverse stakeholders which results in exemplary waterfront design.

CONTACT: Roland Lewis, (212) 935-9831, rlewis@waterfrontalliance.org

PORTS RESILIENCE INDEX

Jody Thompson, Mississippi-Alabama Sea Grant Extension, Mobile, Alabama

Mississippi-Alabama Sea Grant, in collaboration with Gulf of Mexico Alliance, developed the Ports Resilience Index (PRI) to assist ports in identifying their vulnerabilities to weather, geologic, technological, and port-specific hazards. The PRI has been piloted with several Gulf of Mexico ports. This presentation will highlight the PRI tool and experiences using the PRI with Gulf ports.

CONTACT: Jody Thompson, (251) 438-5690, jody.thompson@auburn.edu

RESILIENCE PLANNING FOR WATER DEPENDENT USES

Matt Campo, Rutgers, The State University of New Jersey, New Brunswick, New Jersey

Rutgers University's Resilience Planning for Water-Dependent Uses project piloted a guide for Mid-Atlantic coastal communities on how to locate and assemble data from federal, state, and local sources to inform local land use planning to improve the resilience of water-dependent uses and their supporting infrastructure. This presentation will highlight both the paper-based and web-based versions of the "Guide to Resilience Planning for Water-Dependent Uses" using ESRI's ArcGIS online story map templates to allow interactive mapping and content delivery.

CONTACT: Matt Campo, (848) 932-2704, mcampo@ejb.rutgers.edu

Session E2

Roundtable

WORKING WATERFRONTS ISSUES

MODERATOR: David L. Knight, David Larkin Knight, LLC; Great Lakes Commission (retired); Grand Rapids, Michigan

Gene Clark, Wisconsin Sea Grant, Superior, Wisconsin

Erin Kuhn, West Michigan Shoreline Regional Development Commission, Muskegon, Michigan

Lt. Col. Dennis Sugrue, U.S. Army Corps of Engineers, Detroit, Michigan

Ms. Kuhn will be speaking on coordinated efforts to preserve and maximize the Port of Muskegon, Michigan's role as a working, deepwater commercial port.

Mr. Clark will present an overview of the unique Harbor Technical Advisory Committee serving the Great Lakes' busiest commercial harbor, the twin ports of Duluth, Minnesota and Superior, Wisconsin.

LTC Sugrue will address the Corps of Engineers' role in keeping Great Lakes working waterfronts working.

CONTACT: David Knight, (734) 709-6168, dknight050@gmail.com

Session E3

Roundtable

PRESERVING WATER QUALITY, RECREATIONAL ACCESS, AND WILDLIFE HABITAT FOR WORKING WATERFRONTS THROUGH PARTNERSHIPS

MODERATOR: Michelle Vander Haar, U.S. Fish and Wildlife Service, Saginaw, Michigan

Josh Leisen, Huron Pines, Gaylord, Michigan

Jennifer Muladore, Huron Pines, Gaylord, Michigan

Drew Rayner, West Michigan Cooperative Invasive Species Management Area, Grand Haven, Michigan

The Great Lakes are filled with beautiful and prosperous shoreline communities, but many of them are struggling to maintain nearshore recreational access, water quality, and wildlife habitat. Some of the actions affecting these activities are occurring upstream of the shoreline and are difficult to address. For that reason, it is important that our waterfront communities form innovative partnerships with organizations that can assist with restoration activities at a larger, landscape-level scale.

This discussion will present some of the issues that our Great Lakes communities face with regard to recreational access, water quality, and wildlife habitat. We will present possible solutions, partnerships, and funding opportunities, and provide examples that are currently working in Michigan. In addition, ample time will be allowed for discussion and questions. We would like to hear from attendees regarding their issues, suggestions for solutions, and potential opportunities for partnerships. We are hoping to broaden our understanding of issues facing working waterfronts so we can begin to creatively design future opportunities for improvement.

CONTACT: Michelle Vander Haar, (989) 777-5930 ext 102, Michelle_Vanderhaar@fws.gov

Concurrent Session F

THURSDAY, MAY 17, 9:00 A.M. - 11:00 A.M.

Session F1

Roundtable

BLUE ECONOMY

MODERATOR: *Mark Breederland*, Michigan Sea Grant, Traverse City, Michigan

Alan Steinman, Grand Valley State University, Muskegon, Michigan

Kate Quigley, NOAA Office for Coastal Management, Charleston, South Carolina

Federal and state agencies are exploring how waterfront businesses and technologies contribute to the “Blue Economy.” Join the discussion to discover how traditional industries such as shipping and commercial fishing can combine with emerging blue businesses, research and education centers, and placemaking efforts to contribute to Blue Economies in our coastal communities.

CONTACT: Alan D. Steinman, (616) 331-3749, steinmaa@gvsu.edu

Session F2

Current Issues for Working Waterfronts: Resilience, Accessibility, Mapping, and Legal Protections

Panel

MODERATOR: *Heather Triezenberg*, Michigan Sea Grant/ Michigan State University, East Lansing, Michigan

SUPPORTING ECONOMIC SECURITY AND RESILIENCE IN WISCONSIN'S COASTAL COMMUNITIES

Adam Bechle, Wisconsin Coastal Management Program, Madison, Wisconsin

Todd Breiby, Wisconsin Coastal Management Program, Madison, Wisconsin

The waterfront infrastructure, beaches, and bluffs of Wisconsin's Great Lakes coasts are vulnerable to hazards including erosion, coastal storms, and fluctuating water levels. These coastal hazards can impair the region's tourism and commerce economies and damage coastal assets. To support resilient coastal communities and economies, Wisconsin has helped build local capacity for planning, enhanced public access to the waterfront, and coordinated groups focused on beach, port, harbor, marina, and hazard issues. These stakeholder development efforts have led to a new three-year project funded by the National Oceanic and Atmospheric Administration (NOAA) Coastal Resilience Grants program that will help coastal communities in southeastern Wisconsin plan and prepare for coastal hazards. This presentation will describe the project, including proposed educational materials and work the project team will do with coastal communities to assess their vulnerabilities to coastal hazards, prioritize potential actions to build hazard resilience, and begin to implement some of the identified actions.

CONTACT: Adam Bechle, (608) 261-2875, adam.bechle@wisconsin.gov

GETTING ON BOARD: ACCESSIBILITY FOR RECREATION AND TOUR BOATS

Dave Lemberg, Western Michigan University, Portage, Michigan

The Americans with Disabilities Act (ADA) regulations for access to many marine transport modes end at the water's edge. Public docks and waterfronts are subject to design guidelines requiring accessible routes to staging areas. However, the actual boarding stairs, gangways, ladders, etc. for small to medium sized recreational boats, tour boats, and ferries are not subject to these guidelines. Barriers to standard design include fluctuating tides, lake and river levels, mooring conditions, freeboard heights, and boat design differences.

Given these variables, the ADA waives mandatory accessibility for smaller boats. In practice, this leads to a traumatic boarding experience for many users with limited mobility. Portable boarding stairs often have one or no handrails, and usually require a step over a gap between the stair and the boat deck. Physical assistance might be necessary from one or more crew members. Boarding and disembarking can therefore make an otherwise enjoyable experience traumatic. This presentation will review current methods for boarding small to medium sized water craft and introduce a more accessible alternative.

CONTACT: Dave Lemberg, (269) 352-8729, leMBERG@wmich.edu

THE FLORIDA SEA GRANT BOATING AND WATERWAY PLANNING PROGRAM: CHARACTERIZING AND MAPPING RECREATIONAL BOATING

Nancy Montes, University of Florida, Gainesville, Florida

Recreational boating is a very important and popular outdoor recreational activity in the United States. In 2016 there were over 11.8 million recreational vessels registered in the United States, with Florida, Minnesota, Michigan, California, and Wisconsin reporting the greatest number of registered vessels (32% of U.S. total, combined) (USCG, 2017). Overall, in 2016 there was approximately

one boat for every 27 residents and an estimated 142 million people in the US went boating – which represented 36% of U.S. households (NMMA, 2016).

Shoreline development, the increasing number of people engaging in boating, and the diversity of recreational boating activities that now take place in rivers, lakes, coastal bays, estuaries, and waterways have had positive economic impacts, but have also profoundly affected those environments. As demand for the use of waterways increases, so does the need for improved public access, maintenance of waterway infrastructure, public safety, and environmental protection.

The Florida Sea Grant Boating and Waterway Planning Program (BWPP) has produced scientific-based information to describe the actual use patterns and preferences of the offshore boating community in several coastal communities in Florida. This presentation provides an example of how the BWPP collected, analyzed, and reported spatial, temporal, and profile data of recreational boaters using the offshore waters of the Northeastern Florida and Southeastern Georgia region.

CONTACT: Nancy Montes, (352) 239-6234, nancymontes@ufl.edu

LEGAL PROTECTIONS FOR SHELLFISH GROWER ACCESS TO WATERFRONT INFRASTRUCTURE

Read Porter, Marine Affairs Institute/Rhode Island Sea Grant Legal Program, Bristol, Rhode Island

Rhode Island's shellfish aquaculture industry is growing rapidly, but existing and new growers may face challenges in accessing critical waterfront infrastructure. This project considers the legal basis for inhibitions or protections for grower use of waterfront facilities and options to ensure that lack of waterfront access does not unreasonably restrict grower operations. This presentation will focus on two case studies: access to boat launches and to nursery locations.

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ABOUT THE NATIONAL WORKING WATERFRONT NETWORK

The National Working Waterfront Network (NWWN) is a nationwide network of businesses, industry associations, nonprofits, local governments and communities, state and federal agencies, universities, Sea Grant programs, and individuals dedicated to supporting, preserving, and enhancing our nation's working waterfronts and waterways.

Participation in the NWWN is open to all individuals and organizations involved in working waterfront issues at the federal, state, and local level. Our mission is to increase the capacity of coastal communities and stakeholders to make informed decisions, balance diverse uses, ensure access, and plan for the future of their working waterfronts and waterways.



nationalworkingwaterfronts.com