

RAVEN HILL  
DISCOVERY CENTER  
PRESENTS

WATER | WAYS



AUGUST 11 - SEPTEMBER 23  
2018

**SCHEDULE &  
INFORMATION**

Schedule of Events throughout the Community  
Exhibit information | Conservation Information | & more!

[WWW.MIRAVENHILL.ORG/WATERWAYS](http://WWW.MIRAVENHILL.ORG/WATERWAYS)

SPONSORED BY:



Smithsonian



**WATTS**<sup>®</sup>



Water/Ways is part of Museum on Main Street, a collaboration between the Smithsonian Institution and the Michigan Humanities Council and was adapted from an exhibition organized by the American Museum of Natural History, New York.

WHERE SCIENCE, HISTORY AND ART CONNECT

4737 Fuller Rd | East Jordan, MI 49727

231.536.3369 | info@miravenhill.org

## Local Sponsors

Alden & Vada Dow Foundations ~ Petoskey Harbor Springs Area Community Foundation ~ Great Lakes Energy People Fund ~ Charlevoix County Community Foundation ~ Chaney Donation ~ Baiardi Foundation ~ Petoskey Rotary Club Charity ~ Michigan Humanities Council ~ Cheri Leach ~ O'Brien Associates ~ Boyne City Kiwanis ~ Mike Stowe ~ Boyne Propane ~ Boyne Valley Lions ~ Charlevoix Lions ~ WCMU radio ~ Vam Dam Custom Boats ~ Brown Motors ~ Ward and Eis Rothschilds ~ EJ Tru Value ~ Walloon Lake Association ~ Friends of the Boyne River ~ 3R Triathlon, Rachel Warnos ~ Tip of the Mitt Watershed Council ~ Bartlett's Furniture ~ Jim & Sue Mabee ~ Martha Athanas ~ FamilyFare ~ Green Horizons Metal Roofing ~ North Country Cycle Sport ~ Stiggs Brewery ~ Pine Hill Nursey ~ Lowe's Home Improvement

*We continue to solicit donations in support of Water/Ways. A complete list of donors will be posted during the Smithsonian exhibit.*

## Partners, Presenters

Anne-Marie Oomen • Brian Kozminski • Charlevoix Conservation District • Charlevoix County History Preservation Society • Caroline Keson • Chris Anderson • Conservation Resource Alliance • Dave Dempsey • David Kaplan • Deer Creek Junk • Deleta Smith • Dennos Museum • Eli Baker • Eric Hemenway • Ethan Winchester • Freshwater Future • Friends of the Boyne River • Friends of the Jordan River Watershed • George Lasater • Glen and Cidny McCune • Grand Valley State University • Grass River Natural Area • Janet Vail • Jasmine Lace • Jordan River Arts Council • Julie Haan • June Storm • Kelly Boyle • Kim Nowak • Kim Balke • Laura Bodine • Linda Nemec Foster • Little Traverse Bay Bands of Odawa Indians • Little Traverse Conservancy • Mackinac Bridge Authority • Max Sasso • Nan Spense • Paddle Antrim • Patrick McCleary • Patrick Stonehouse • Steve Brede • Tip of the Mitt Watershed Council • Walloon Lake Association • Your local libraries •

Photo credits: Ann Zukowski, David Curtis and Gary Osterbeck.

Thanks also to all the Raven Hill Discovery Center Board, Staff and Volunteers, including a very special thank you to the Water/Ways Committee, Chet & Nancy Gulczynski, Ed & Diane Strzelinski, and Holly Sasso, who have worked tirelessly to make Raven Hill look its absolute best for this special occasion.

# Welcome to Water|Ways!

“What do chances become? New friendships, exciting opportunities, and daring discoveries. Chances are invitations to grand adventures, tickets to unforgettable experiences and doors to whole new worlds. Chances help you see who you are, what you want, and where you want to go. You never know when a chance, once taken, might be the one to change everything.”

-Kobi Yamada

Twenty-seven years ago, Raven Hill was an idea and what do you do with an idea? You care for it and nurture it and develop it and then you share it with the world. Tim and I spent hours thinking about ways we could connect science, history and the arts. We envisioned a world full of informal learning opportunities right here in northern Michigan. We jumped in with both feet to create Raven Hill Discovery Center, a place to learn, grow, create and play.

Water/Ways offers us a chance to highlight the importance of northern Michigan's water as a natural resource to be treasured for its historical and cultural importance. It is also an opportunity for Raven Hill to grow and change and make a difference in our world.

Early last year, the Center teamed up with local ecology organizations to brainstorm water-related activities and subsequently submit an application to host the national Smithsonian Water/Ways exhibit. In August of 2017, the Michigan Humanities Council named Raven Hill as one of six Michigan sites to host this Museum on Main Street exhibit from August 11 to September 23, 2018. We hope you will visit the exhibit and use this guide to explore water-related programs at Raven Hill and throughout the community.

Visit the website [www.MiRavenHill.org](http://www.MiRavenHill.org) or call 231.536.3369 for more detailed information.

 **Cheri**  
Executive Director

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**NOT USING SINGLE-USE WATER  
BOTTLES SAVES OUR WATER AND OUR  
ENVIRONMENT. RAVEN HILL STRONGLY  
ENCOURAGES YOU TO**

**BRING YOUR OWN  
WATER BOTTLE  
TO ALL EVENTS**

**OR PURCHASE A REUSABLE WATER  
BOTTLE FROM RAVEN HILL!**

Raven Hill joins the Michigan Humanities Council and the Smithsonian in welcoming you to Water|Ways. We hope you enjoy your visit and that the exhibit and related displays and events encourage you to think, talk and become active proponents for protecting our water resources.

# WATER | WAYS



## MAIN EXHIBIT

**RAVEN HILL GREAT ROOM**

**AUGUST 11 TO SEPTEMBER 23, 2018**

**10AM TO 4PM DAILY**

**FREE ADMISSION**

### **Passport Sticker Number: 1**

*This is a required sticker for all passport submissions. Passport information can be found on pages 35 - 36.*

The exhibit includes five Smithsonian Water|Ways exhibit panels, interactive stations, and resources to provide points for thought, conversation and reflections about water. The Smithsonian Museum on Main Street (MoMS) is a one-of-a-kind cultural project that has been sharing the Smithsonian's resources with rural America since 1994. It is a partnership between the Smithsonian and state humanities councils and it serves small-town museums and cultural institutions, as well as the residents of rural America. One-fifth of all Americans live in rural areas and one-half of all U.S. museums are located in small towns. The MoMS exhibitions are designed to be a spring board for local exhibitions and complementary humanities programming. These exhibitions help to start dialogs, build excitement, facilitate connections, and open doors to a host community's history, culture, people, and sense of local pride. The Smithsonian, Michigan Humanities Council and Raven Hill Discovery Center have each contributed their own expertise and can-do spirit to make this Museum on Main Street Water/Ways exhibition a must-see destination for northern Lower Michigan.

# Why

**Water|Ways emphasizes:  
“No water, no life;  
no blue, no green.”**

## **Water is life.**

We are made of water and so is our world. Water is among the most plentiful substances on Earth's surface.

## **Water shapes us.**

It forms our world and our lives. Water shapes human culture—our ways of life. Water also shapes our geographic world. Rivers, rain, ice and oceans shape the land through erosion and constant pressure.

## **Water connects- and divides- us.**

Water crosses all cultural, physical, and political boundaries at times. It allows us to travel, migrate and trade with others. It is also a natural border and makes logical geo-political boundaries.

## **Water is a tool.**

Water is not only a basic human need, but water is a tool for industry. Water allows us to travel, trade, but we use water for food sources- such as fishing. Water works for us in dams for energy or irrigation of crops.

# Water ?

**We must take action to renew, refresh and reuse water! We must take action to share access to water resources around the world.**

## **Water is intriguing and fun.**

It appeals to all our senses. Water can calm, sustain, or harm us. Water is the source of many recreational activities, art, and more.

## **Water is a finite resource.**

Water is a shared resource, crossing all boundaries. But there is no “new” water. It is constantly recycled. We must take steps to ensure its quality. We will fight to keep our waters clean.

## **Water is not guaranteed.**

Access to clean, usable water is not guaranteed. Many communities struggle with access to clean drinking water- even within Michigan.



# *Water Connections at the Museum*

**RAVEN HILL DISCOVERY CENTER  
AUGUST 11 TO SEPTEMBER 23, 2018**

**10AM TO 4PM DAILY**

**\$10 REGULAR CENTER ADMISSION**

*Covers the main museum, animal room and the  
outdoor exhibits.*

**Passport Sticker Number: 2**

*In addition to the Water|Ways Exhibit in the Great Room, Raven Hill will feature special exhibits throughout the Main Museum, grounds, and additional facilities connecting the Science, History, and Art of Water. These on-going exhibits include:*

- *Shadowbox displays*
- *Model ships & water technology models*
- *Ongoing Power Point Presentation of Early Water Technology—Lake Charlevoix in late 1800s and early 1900s by Patrick McCleary and the Charlevoix County History Preservation Society.*
- *A Call for Citizen Scientists Display by National Science Foundation*
- *School of Fish Art “swimming” behind Schoolhouse—Multi media outdoor display of fish created by both new & emerging, as well as professional artists.*
- *Pond, rain gardens, wetlands boardwalk and Deer Creek to explore outdoors.*

**For more information or updates on  
any events occurring on-site, please  
contact Raven Hill Discovery Center**

**231.536.3369**

**info@miravenhill.org**

**www.MiRavenHill.org/WaterWays**



# Rotating Guest Exhibits

**ON DISPLAY AT THE  
ALTERNATIVE ENERGY HOUSE**

**ACCESS TO THESE SPECIAL EXHIBITS IS  
INCLUDED IN GENERAL MUSEUM ADMISSION**

**August 11 to 17: Charlevoix Spinners & Weavers Guild Exhibit** | Passport Number: 36 | Members will share their interpretations of all aspects of water through their spinning and weaving.

**August 18 to 24: Painted Paddles Show** | Passport Number: 37 | Painted Paddles of all manor and design will be on display, including the final works of the Painted Paddle workshop scheduled on Monday, August 13, 2018| See page 18 for more information on this workshop.

**August 25 to 31: Boyd Kuieck Paintings Exhibit** | Passport Number: 38 | Boyd Kuieck was well known in the Kewadin area for his beautiful painting of water subjects. His wife, Hannie, will share his works with visitors.

**September 1 to 7: Wave Invitational Show** | Passport Number: 39 | Paintings produced during the Wave Painting workshop and those of instructor, June Storm, will be on display. | See page 19 for more information on this workshop.

**September 8 to 14: Multi-media Arts Exhibit** | Passport Number: 40 | all manor of water-related art will be on display for a week.

**September 15 to 23: Youth Photography Show** | Passport Number: 41 | Students works displayed following the 'Intro to Nature Photography' Workshop offered by the Little Traverse Conservancy as part of their summer Adventure Naturalist series.

# Grand Opening Celebration

**Passport Sticker Number: 3**

*Join us in celebrating water. As a reminder to all in attendance of how precious and necessary water is to all of us, we will begin the Grand Opening of this Smithsonian Museum on Main Street Water/Ways exhibit with a Water Ceremony. Deleta Smith from the Little Traverse Bay Bands of Odawa Indians will bless the water. The Waganakising Odawa Anishinabek have been in their homelands in this area for centuries. Please take this opportunity to participate in one of their sacred ceremonies to honor Nibiish/ The Water, which is our life-giving force. Bring friends, enjoy the water ceremony, food, music, speakers and get a chance to see this national exhibit. The Jongleurs Recorders and Robin Berry Williams will provide background music at various times and Dave Dempsey, author and scholar for the Michigan Humanities Council will speak on The Wonder of Michigan's Waters.*

**RAVEN HILL PICNIC AREA &  
MAIN MUSEUM**

**SATURDAY, AUGUST 11, 2018**

**4PM - 6PM**

**DONATIONS APPRECIATED**



# Grand Finale & Live Fish Auction

**Passport Sticker Number: 9**

*The Grand Finale will include a Garden Party and a “Live” Fish Auction. Scott McKenzie, auctioneer, will sell off the fish sculptures from the “School of Fish” for the highest bidders to take home and install as porch or garden art.*

**RAVEN HILL SCHOOL HOUSE**

**SATURDAY, SEPT 22, 2018**

**4PM**

*DONATIONS APPRECIATED*

*+ Bid on a Fish to Take Home for your  
home, garden or porch.*



**WATER | WAYS**



## Closing Ceremony

**Passport Sticker Number: 10**

*Water enthusiast Jill Ryan from Freshwater Future will speak to and encourage stewardship of our precious water resources “into the future”.*

**RAVEN HILL PICNIC AREA &  
MAIN MUSEUM**

**SUNDAY, SEPT 23, 2018**

**4PM**

*DONATIONS APPRECIATED*

\*NOTE: The “Water/Ways Passport” drawing will be held during the closing ceremony. You do not have to be present to win. See inside back cover for more information on how to submit your passport.

# Open Air Concert

FEATURING THE  
GREAT LAKES

**CHAMBER ORCHESTRA**

WITH POETRY READING

FROM MICHAEL DELP:

**THE COAST OF NOWHERE**

Passport Sticker Number: 5

# Labor Day Excursion

Passport Sticker Number: 6

**BOYNE CITY TO EAST JORDAN  
VIA THE IRONTON FERRY**

**SATURDAY, SEPTEMBER 1, 2018**

**ON YOUR OWN TIME AND PACE!**

*To receive an official Certificate of Completion,  
register your plans with Raven Hill by August 29,  
2018. Contact Cheri Leach at 231.536.3369 or  
email [info@miravenhill.org](mailto:info@miravenhill.org).*

**RAVEN HILL ALTERNATIVE ENERGY  
HOUSE PORCH & AMPHITHEATER  
SATURDAY, AUGUST 25, 2018**

**4PM**

*DONATIONS APPRECIATED*

*Great Lakes Chamber Orchestra will play Handel's Water Music and other water-related music in honor of the Water/Ways exhibit. Poet, Michael Delp, will read some of his poetry before & after the concert.*



*Join us in recreating the 1898 International Lyceum Association's Labor Day Excursion: Boyne City to East Jordan. This year, on Saturday, September 1, 2018, the community is invited to follow the same trip by land or "sea". Plan your own trip from Boyne City to Ironton and back down the South Arm of Lake Charlevoix to East Jordan (about 21 miles) by boat, car, bicycle or foot. Participants are invited to view the Water/Ways exhibit after their trip, share pictures of their 2018 Labor Day Excursion and pick up their Certificate of Completion at Raven Hill. There will be music by Kirby Snively & light refreshments served.*

# Alternative Boat Show & COMMUNITY MURAL PAINTING

Passport Sticker Number: 4

*The community is invited to display unique and unusual boats, like pedalboats, ampicars, kayaks, canoes, etc. Kids are invited to make cardboard boats for display along with the real thing. At the same time, everyone is invited to participate in painting a water mural to be permanently displayed at Raven Hill's new Open Space. Artist Kelly Boyle will design the mural and lead the community mural project.*

## AT THE NEW RAVEN HILL OPEN SPACE!

*The junction of Pearsall Road, Fuller Road & C-48*

**SATURDAY, AUGUST 18, 2018**

**12PM - 4PM**

*DONATIONS APPRECIATED*





# THE ART OF WATER FESTIVAL

**Passport Sticker Number: 8**

*This art festival will bring together the talents of professional & emerging artists to share their work with the community. Water-related artwork will be for sale by artists. Some hands-on art classes will be available for all ages and artists are invited to participate in a paint out and wet paint art show & sale. Artists may choose to paint the day before or the of the Art of Water Festival.*

**RAVEN HILL PICNIC AREA**  
**SATURDAY, SEPTEMBER 15, 2018**

**12PM - 4PM**

*DONATIONS APPRECIATED*

# Water Festival

RAVEN HILL PICNIC AREA  
SATURDAY, SEPTEMBER 8, 2018

12PM - 4PM

Passport Sticker Number: 7



*The Water Festival will feature area water organizations sharing their mission; a demonstration of the National Oceanic and Atmospheric Administration's weather model; a chance for visitors to try fly casting; all encouraging attendees to learn more about northern Michigan's wonderful water resources.*

*DONATIONS APPRECIATED*

## CALL FOR CITIZEN SCIENTISTS



Visit the display  
by National  
Science  
Foundation at  
Raven Hill for  
more information  
and learn how to  
get involved!





Four National Science Foundation-sponsored investigators are collaborating to build a super computer model using citizen data gathered on Michigan's Boyne River. The model's goal is to forecast high or low water events, freshwater species habitat and even fishing and boating conditions up to 7 days in advance. If successful, this modeling technique can be used throughout the world to aid in sustainable management of water resources. Visit this display and learn how easy it is for you to feed river data into a super computer.

# Evening Speaker Series

**ALL SPEAKER  
PROGRAMS START  
AT 6PM**

## **RAVEN HILL MAIN MUSEUM DONATIONS APPRECIATED**

**Tuesday, August 14 | *Titanic* | Passport Number: 11 |  
David Kaplan | *Learn more about the fateful voyage of the RMS  
Titanic.***

**Wednesday, August 15 | *Mackinac Bridge: Then and  
Now* | Passport Number: 21 | Kim Nowack, Mackinac  
Bridge Authority | *Learn more about the history of this  
Northern Michigan icon.***

**Tuesday, August 21 | *Michigan's Water Resources* |  
Passport Number: 13 | Dr. Janet Vail; Grand Valley State  
University Annis Water Resources Institute  
*Join Dr. Janet Vail for an interactive session on Michigan's Water  
Resources. Topics such as invasive species, groundwater, and  
surface water will be explored.***

**Tuesday, August 28 | *Science and Culture of Water* |  
Passport Number: 14 | Eric Hemingway; Little Traverse  
Bay Bands of Odawa Indians | *Eric will speak about the  
culture of water as it pertains to Little Traverse Bay and all of  
Northern Michigan.***

**Wednesday, August 29 | *Bridges* | Passport Number: 15 |  
Kim Balke; Conservation Resource Alliance (CRA)  
*The CRA is celebrating 50 years of on-the-ground wildlife and  
river restoration work and will provide an overview of their work  
and projects completed to date in the Jordan River watershed as  
well as future priorities within the watershed.***

**Tuesday, September 4 | *SCUBA* | Passport Number: 16 |  
Deputy Sheriff George Lasater  
*Learn more about SCUBA (Self Contained Underwater Breathing  
Apparatus) diving in our great lakes and the Caribbean, including  
training and equipment. George will share his interest and how he  
uses SCUBA in his work and as a hobby. He will be speaking on  
submerged objects he has located, over the years, and other aspects  
of exploring our waterways. Guests will hear stories about some of  
his dives and see some of the artifacts that George has collected.***

**Wednesday, September 5 | *Rain Gardens* | Passport Number: 17 | Eli Baker & Macy Doster; Tip of the Mitt Watershed Council**

*Learn how to create a rain garden that protects our lakes and streams from pollutants carried by storm water, while enhancing the beauty and wildlife habitat of yards and neighborhoods. Raven Hill rain gardens will be featured.*

**Thursday, September 6 | *Backyard Conservation* | Passport Number: 18 | Chris Anderson; Charlevoix Conservation District**

*Pick up information on how water plays an important role in your own backyard.*

**Tuesday, September 11 | *Going in Circles - Canoeing the Great Lakes* | Passport Number: 19 | Steve Brede**

*Three years ago Steve Brede completed a goal to paddle his canoe around the entire shoreline of all five Great Lakes. In 2009 he quit his job and embarked on a series of summer paddles of each of the Great Lakes, beginning with Lake Huron. He followed Huron with circuits of Lake Michigan in 2010, Lake Erie in 2012, and Lake Ontario in 2013. He paddled the south shore of Lake Superior in 2014, and finished with the north shore in 2015. The voyages taught him about self-reliance and the generosity of strangers, and instilled in him a reverence for the lakes and a concern for their future. His presentation will feature slides culled from the thousands of photos he took on his voyage.*

**Tuesday, September 18 | *Fly Fishing the Tip of the Mitt* | Passport Number: 20 | Capt. Ethan Winchester, Boyne Outfitters**

*Join us for an exploratory discussion into fly fishing Michigan's Tip of the Mitt. Learn some of the tips and tricks that will help you navigate these intimate waters. Novice and advanced anglers (and all those in between) are welcome.*

**Thursday, September 20 | *POD Program* | Passport Number: 12 | Eli Baker & Macy Doster; Tip of the Mitt Watershed Council**

*Learn about the POD (Prescription and Over-the-Counter Drug Drop-Off) Program. For years, many people have flushed their unused medicines down the toilet or sink, which can negatively impact the environment and human health. Learn about what happens to flushed medications and how to safely dispose of unused medication.*



# CLASSES &

## Arashi (Rainstorm) Garden Flag

**Passport Number: 28**

*Use the Japanese method of applying design to fiber and create a beautiful garden flag to decorate your garden or yard.*

**Tuesday, August 14 ~ 10am to 12pm**

**Cost: \$45**

## Dyeing & Weaving

**Passport Number: 29**

*Join local fiber artist Jasmine Lace Petrie to create woven bodies of water. This is a two-part class with indigo dyeing on the 15th and weaving on the 23.*

**August 15 & August 23 ~ 4pm to 6pm**

**Cost: \$40. Maximum class size: 12.**

**Pre-registration preferred**

*Join us for a weaving workshop. Participants from the previous workshop will use yarn already dyed in indigo, but previous participation is not required to attend this session. Participants will weave small tapestries on frame looms using fibers and yarns dyed in shades of water while exploring various weaving and finishing techniques.*

**Thursday, September 13 ~ 4pm to 6pm**

**Cost: \$20. Maximum class size: 12.**

**Pre-registration preferred.**

## Water Inspired Poetry

**Passport Number: 33**

*Join Holly Sasso and learn some simple techniques for writing poetry with water as the inspiration for your poem while enjoying the shores of the Raven Hill Pond.*

**Thursday, August 23 ~ 3pm to 4pm**

**Cost: Donation appreciated**

## ART CLASSES

*After creating a piece in these workshops, participants are exhibits in the Energy House before taking their work*

### Painted Paddles

*Passport Number: 27 | Local artists, Glen and Cindy McCune, will share their love of art with participants who will design and paint a wooden paddle for display.*

**Raven Hill Print Maker Space**

**Monday, August 13 ~ 10am to 12pm**

**Cost: \$25**

# WORKSHOPS

Join us at one of our multiple special workshops to make your own fish! Let it swim in Raven Hill's School of Fish exhibit & then take it home to decorate your porch or garden.

## Fused Glass Fish

**Passport Number: 25**

Julie Haan leads a workshop to create fish out of glass for sun-catchers, ornaments or pendants.

**Raven Hill Print Shop**

**Saturday, August 11 ~ 1pm to 3pm**

**Cost: \$20**

## Copper Fish with Max Sasso

**Passport Number: 30**

Use odds and ends of metal to create a fish. Let Max do the welding for you or try your hand at welding your own teeth, eyes, fins, etc.

**Raven Hill Maker Space**

**August 16, 23 and 30 ~ 6pm to 8pm**

**Cost: Donation appreciated**

## Junk Fish Workshop

**Passport Number: 49**

Channel your inner artist and join us, on location at Deer Creek Junk, to create a fish out of junk.

An assortment of interesting wood, metal and natural element pieces and parts will be provided for you to choose from. Examples, guidance and collaboration will guarantee a fun time and a school of one-of-a kind fish.

**Deer Creek Junk, East Jordan**

**Thursday, August 23 ~ 4pm to 6pm**

**Cost: \$50**

To register or for more information contact Karen Brennan at 231.675.2606 or [karen@deercreekjunk.com](mailto:karen@deercreekjunk.com)

MAKE-A-FISH CLASSES

## WITH EXHIBIT

invited to exhibit their work during special one-week home. See page 7 for exhibit details.

### Wave Painting

**Passport Number: 32**

June Storm, from Boyne Arts Collective, will facilitate this unique workshop.

**Raven Hill Maker Space**

**Thursday, August 23 ~ 4pm to 6pm**

**Cost: Donation appreciated**

## Night Sky Viewing

Passport Number: 26

*Join local astronomer, Patrick Stonehouse to discover the River of Stars and enjoy the meteor showers.*

Raven Hill Moonbase

Sunday, August 12 ~ 10pm

Donations Appreciated

## Fly Tying and Fly Casting with True North Trout

Passport Number: 34

*Learn to tie your own flies and then learn casting basics in Deer Creek*

Raven Hill Maker Space & Deer Creek

Saturday, August 25 ~ 10am to 2pm

Cost: \$20, pre-registration appreciated

## Waders On

Passport Number: 35

*Wear waders and use real-world equipment to test the water quality in Deer Creek with the Little Traverse Bay Bands of Odawa Indians.*

Raven Hill Open Space

on the shore of Deer Creek

Tuesday, August 28 ~ 4:30pm to 5:30pm

Donation appreciated



LABOR DAY EXCURSION.  
BOYNE CITY TO EAST JORDAN, SEPTEMBER 5TH, 1898.

## Great Lakes Literacy for K - 12 Teachers

Passport Number: 31

*How well do your students know the Great Lakes? Using the Great Lakes panels from Water/Ways exhibit from the Smithsonian Institute, we will explore basic concepts about the Great Lakes as well as the Great Lakes Literacy principles. Teaching resources will be provided.*

Raven Hill

Tuesday, August 21 ~1pm to 3pm

Cost: Free

FOR  
EDUCATORS



## TABATA YOGA & MEDITATION

Passport Sticker Number: 54

**PENINSULA BEACH, BOYNE CITY  
LAKE CHARLEVOIX SHORES  
SATURDAY, AUGUST 18, 2018**

**9 AM - TABATA, SARA KESSLER**

**10 AM - YOGA, LAURA BODINE**

**11 AM - MEDITATION, NAN SPENCE.**

Donations appreciated. Attend one or all three classes!

# Book Talks at Raven Hill

Water is a vital part of Northern Michigan's story. Come hear these authors speak about their water-themed books, and join your local library for other water-related reading events. The book talks at Raven Hill are free events. Donations are welcome.

**RAVEN HILL MAIN MUSEUM  
6PM**

**AUGUST 22 | DAVE DEMPSEY  
THE WATERS OF MICHIGAN**

**Passport Sticker Number: 22**

Author Dave Dempsey will speak about and show photos from his book, *The Waters of Michigan* written with David Lubbers. Be sure to add some of Dempsey's other work to your summer reading list such as *Great Lakes for Sale: From Whitecaps to Bottle Caps* and *Last Summer on Lake Huron*.

**SEPTEMBER 19 | ANN-MARIE  
OOMEN & LINDA NEMEC FOSTER  
THE LAKE MICHIGAN MERMAID**

**Passport Sticker Number: 23**

Anne-Marie Oomen and Linda Nemeć Foster's will discuss their new collection of poems, *The Lake Michigan Mermaid*. They will share their story, the adventure of their ten-year secret, and the discovery of the mermaid.

## Check out your Local Library!

**Passport Sticker Number: 60**

During the Water|Ways Exhibit, visit your local library and check out their display of books, movies and activities dealing with water or find your own book about water and enjoy reading time. Don't forget to pick up your passport sticker while you are there!

Take a "Selfie" with your passport at a library or a while enjoying a water-themed book. Email it to us at [info@miravenhill.org](mailto:info@miravenhill.org) and we'll add it to our bulletin board!



# Summer Reading Lists

## Adults

- ☞ **Pandora's Locks: The Opening of the Great Lakes St. Lawrence Seaway** by Jeff Alexander
- ☞ **The Great Lakes Water Wars** by Peter Anin
- ☞ **The Death and Life of the Great Lakes** by Dan Egan
- ☞ **Freshwater: Women Writing on the Great Lakes** by Alison Swan
- ☞ **The Women's Great Lakes Reader** by Victoria Brehm
- ☞ **The Living Great Lakes: Searching for The Heart of the Inland Seas** by Jerry Dennis
- ☞ **The Coast of Nowhere: Meditations on Rivers, Lakes and Streams** by Michael Delp
- ☞ **Spring-Fed Waters: The Story of A Lake In Northern Michigan** by A. Theodore Halsted
- ☞ **The Perfect Storm: A True Story of Men Against the Sea** by Sebastian Junger
- ☞ **The Finest Hours:** by Michael J. Tougias and Casey Sherman

## Young Adults & Children

- ☞ **M is for Mitten:** by Annie Appleford
- ☞ **Good Night Lake:** by Adam Gamble
- ☞ **Finding the Titanic:** by Robert D. Ballard
- ☞ **Shipwrecks, Monsters and Mysteries of the Great Lakes:** by Ed Butts
- ☞ **Hello Fish:** by Sylvia Earle
- ☞ **Seabirds:** by Holling C. Holling
- ☞ **The Day the Great Lakes Drained Away:** by Charles Ferguson Barker
- ☞ **Mystery of the Great Lakes: Michigan, Superior, Huron, Ontario, Erie:** by Carole Marsh
- ☞ **Tallulah: Mermaid of the Great Lakes** by Denise Brennan-Nelson

# *Pedal, Pig & Pint*

A LAKE CHARLEVOIX BIKE TOUR



*Sunday, August 5*

*8am to 1pm*

*Pig Roast & A Pint following the ride!*

PASSPORT NUMBER: 47

REGISTER ONSITE AT 8AM OR ONLINE AT  
[WWW.BIKEREG.COM](http://WWW.BIKEREG.COM)

**RIDE BEGINS AT 9AM**

START AND FINISH AT BOYNE CITY VETERAN'S PARK  
22 & 42 MILE OPTIONS

\$45 REGISTRATION FEE INCLUDES SHIRT, PIG ROAST  
AT STIGGS BREWERY, & DONATION TO RAVEN HILL

Bring your family and friends for some exercise and fun, while supporting Raven Hill Discovery Center. The Water/Ways Pedal, Pig & Pint is a bike touring opportunity to enjoy beautiful lake scenery, with a portion of the route along Lake Michigan and Lake Charlevoix. **After the ride, join us for a Pig Roast and a Pint at Stiggs Brewery!**

All levels of riders are welcome! Ride 42 miles around the lake or 22 miles to the Ironton Ferry and back.

Bikers leave the Boyne City Veteran's Park Pavilion beginning at 9:00 a.m. Stiggs Pig Roast will take place from noon until 1:30.

For more information call Holly Sasso at 517.231.3341

# PADDLE ANTRIM FESTIVAL

**Passport Sticker Number: 59**

Celebrate the amazing waterways and communities of Northern Michigan. The Festival, always the second weekend after Labor Day, includes a two-day paddle event through the Chain of Lakes of Antrim County. This choose your own adventure paddle provides the opportunity for you to paddle one or both days and decide how far to travel. There are exits strategically placed along the route so you may go anywhere from 7 miles to all 42 miles. Local events begin Thursday evening with food, music, and great times and continue through Saturday when we end with a bang at the Final Bash hosted by our top sponsor, Short's Brewing Company. We welcome friends, family, and the entire community to join us for the local events.

## SEPTEMBER 13 - 15, 2018

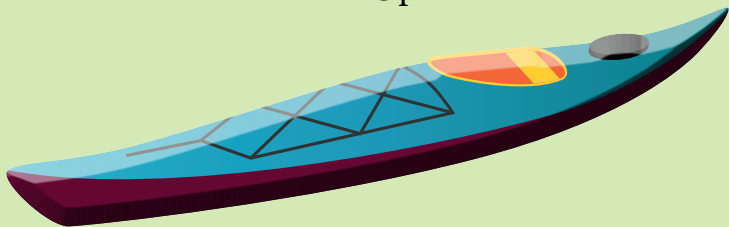
**ELLSWORTH/CHAIN OF LAKES**

\$0-5 FOR COMMUNITY EVENTS

\$55-UP TO PADDLE

## WWW.PADDLEANTRIM.COM

Contact Deana Jerdee for more information at  
231.492.0171 or [info@paddleantrim.com](mailto:info@paddleantrim.com)



*R3 Adventure Triathlon  
(Run, Ride, River)*

**Passport Number: 43**

If you participated in this fantastic event you  
can show proof of participation at Raven Hill  
to pick up your sticker!



*Community  
Events &  
Exhibits*

# Splash

**Passport Number: 48**

*Art exhibit at the Jordan River Arts Center, celebrating Northern Michigan's rivers, lakes, and aquatic inhabitants. Visit their website for more information at [www.JordanRiverArts.com](http://www.JordanRiverArts.com)*

**JORDAN RIVER ARTS  
COUNCIL, EAST JORDAN  
AUGUST 12 - 31, 2018  
OPEN DAILY 1PM - 4PM  
DONATIONS APPRECIATED**



# National Geographic's Monster Fish Exhibition

**Passport Number: 42**

*Stunning life-size sculptures, video installations, and evocative illustrations introduce visitors to more than 20 species of giant fish. Contact Denny's Museum for more information at 231.995.1055 or visit their website at [www.dennosmuseum.org](http://www.dennosmuseum.org)*

**DENNO'S MUSEUM CENTER,  
TRAVERSE CITY**

**JUNE 17 - OCTOBER 7, 2018**

**OPEN DAILY**

**M-S 10A-5P, TH 10A-8P, SU 1-5P**

**\$10 ADULTS/ \$5 MEMBERS, CHILDREN  
(AGES 3-12) AND NMC STUDENTS**

## *Waganakising Bay Day Festival on the Bay*

**Passport Number: 53**

**PETOSKEY MICHIGAN  
SATURDAY, AUGUST 18**

**12PM TO 4PM  
FREE ADMISSION**

# GRASS RIVER

THE FOLLOWING EVENTS OCCUR AT THE  
GRASS RIVER NATURAL AREA  
BELLAIRE, MICHIGAN.

## **Kayak Grass River!**

*Get up close and personal with a naturalist-led  
guided tour of the Grass River*

**Monday, Aug. 13 and Wed, Aug. 15  
9-11:30 am**

**\$25 in own equipment, \$45 with rental equipment  
Passport Number: 50**

## **Wetland Wildflower Walk**

*Learn about wildflowers that like to get their "feet" wet!*

**August 14, 21, 28 & September 11  
10 am**

**Free, donations appreciated  
Passport Number: 51**

## **A River Runs Through It Art Program**

*Learn how to use watercolor and crayon resist to bring life  
and layers to the river.*

**Thursday, August 16  
1pm**

**\$8/person; all materials supplied  
Passport Number: 52**

## **Yoga Outdoors**

*Enjoy the water to create the mood for yoga.*

**Wednesday, August 22, 2018 & Thursday, September 13  
10am**

**\$5/person  
Passport Number: 55**

## **Walloon Lake Association Events**

If you attend these previous events, show proof  
of attendance at Raven Hill to pick up your  
stickers!

# NATURAL AREA

For more information on any of these events, please contact Sheila Fox at 231.533.8314 or [info@grassriver.org](mailto:info@grassriver.org).

## **Riverwalk Group Mural**

*Create a group art mural based on what we see on a guided river walk*

**Thursday, August 23**

**1 pm**

**\$8/person; all materials supplied**

**Passport Number: 56**

## **Reflections Art Program**

*Learn techniques to create reflections on the water using watercolors*

**Thursday, August 30**

**1pm**

**\$8/person; all materials supplied**

**Passport Number: 57**

## **Animals Along the River Art Program**

*Learn to create ink sketches with added color of animals that we observe along Grass River*

**Saturday, September 8**

**1-3 pm**

**\$8/person; all materials supplied**

**Passport Number: 58**

## **Clean Boats/Clean Waters**

*Talk with the Walloon Lake Association*

**Passport Number: 45**

**July 7, 2018**

## **Celebrate Walloon**

*Walloon Lake Association Annual Celebration*

**Passport Number: 46**

**July 28, 2018**

# CLASS & CAMPS

## **NATURE LOVERS' CAMP**

~ WONDERS OF WATER ~

**Passport Sticker Number: 24**

*Sponsored in part by Friends of the Jordan River, campers will explore the pond, swamp, and creek at Raven Hill, along with more wonders of water, science and fun. Register early and bring your water gear.*

**RAVEN HILL DISCOVERY CENTER**

**JULY 23 - 27, 2018**

**10AM - 2:30PM**

**\$90 PER CAMPER**

Register with Raven Hill by calling 231.536.3369  
or email [info@miravenhill.org](mailto:info@miravenhill.org)

## **GET KIDS INVOLVED!**

Teach good water conservation habits from a young age! Here are 5 ways kids can help save water every day:

- Turn off the water while brushing your teeth and save up to 4 gallons a minute!
- Use reusable water bottles.
- Take shorter showers.
- Turn off faucets tightly to prevent drips.
- Reuse your towels.



# JUST FOR KIDS

## CAMP CREATE

**Passport Sticker Number: 44**

*Make your very own paper from our watery slurry, float paint on top of water to create a cool marbling effect, design wooden boats to drift down the Boyne river, and become part of Raven Hill's "School of Fish". Enjoy creating fish for display in Raven Hill's School of Fish. Then put it up for live auction or take it home to enjoy forever.*

**CREATE: COMMUNITY ART STUDIO  
HILL DISCOVERY CENTER  
JULY 30 - AUGUST 2  
10AM - 2PM**

**\$135 PER CAMPER**

Register with Create by calling 231.459.4066  
or email [info@letscreatetogether.org](mailto:info@letscreatetogether.org)

## IN WATER CONSERVATION



## Index of Passport numbers for all events.

1. Smithsonian Water/Ways exhibit
2. Water Connections in Main Museum & Grounds
3. Grand Opening with Water Ceremony
4. Alternative Boat Show & Community Mural Painting
5. Open Air Concert & Poetry Reading
6. Labor Day Excursion
7. Water Festival
8. Art of Water Festival & Paint Out
9. Grand Finale, Garden Party and Live Auction
10. Water/Ways Closing—The Water Way Forward
11. “The Titanic”
12. “POD Program “
13. “Michigan’s Water Resources”
14. “Science & Culture of Water”
15. “Bridges”
16. “Scuba diving”
17. “Rain Gardens”
18. "Backyard Conservation"
19. “Going in Circles, Canoeing the Lakes”
20. “Fly Fishing the Tip of the Mitt”
21. “Mackinac Bridge: Then & Now“
22. Book Talk: Waters of Michigan
23. Book Talk: The Lake Michigan Mermaid
24. Nature Lovers Discovery Camp – Wonders of Water
25. Fused Glass Fish with Julie Haan
26. Night Sky Viewing of Meteor Showers & River of Stars
27. Paddle painting workshop with Glen & Cindy McCune
28. Arashi (rain storm) Garden Flags with Raven Hill staff
29. Weaving with Jasmine Lace
30. Weld a Fish with Max Sasso
31. Great Lakes Literacy for K - 12 Teachers
32. Wave paint workshop with June Storm
33. “Write a Water Inspired Poem” with Holly Sasso
34. “Fly tying and Casting”
35. “Waders On” with Little Traverse Bay Bands
36. Charlevoix Spinners & Weavers Guild exhibit
37. Painted Paddles show
38. Boyd Kuieck Paintings exhibit
39. Wave Invitational show
40. Multi-media Arts exhibit
41. Youth Photography show
42. Monster Fish exhibit at Denno's Museum
43. R3 Adventure Triathlon (Run, Ride, River)
44. Camp Create with Sarah Manchester in Boyne City
45. Clean Boats/Clean Waters at Walloon Lake
46. Celebrate Walloon at Walloon Lake
47. Water/Ways Pedal, Pig and Pint Bike Event
48. “Splash” Art Exhibit at Jordan River Arts Center
49. “Junk Fish” workshop
50. Kayaking the Grass River at Grass River Natural Area
51. Wetlands Wildflower Walk at Grass River Natural Area
52. A River Runs Through It at Grass River Natural Area
53. Waganakising Bay Day Festival on the Bay in Petoskey
54. PHiYo—Yoga & Meditation,
55. Yoga Outdoors at Grass River Natural Area
56. Riverwalk Group Mural at Grass River Natural Area
57. Reflections at Grass River Natural
58. Animals Along the River Art Program
59. Paddle Antrim Festival in Ellsworth
60. Libraries

## Submit this contact form with your passport submission:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Which drawing are you entering? Circle ONE:

**Adult**

**Child**

Number of Stickers Received: \_\_\_\_\_

*This number must be greater than 8. Did you remember to get sticker number one? That sticker is mandatory for submission.*

Did you submit (via email, Facebook, text, etc.) any photos from (such as selfies or group shots) from any events?

**Yes**

**No**

If yes, how should we acknowledge you in photo credits? (for example: name, nickname, business, etc.)

\_\_\_\_\_

## Water|Ways Passport Program Instructions

Visit events | Get stickers | Submit for drawing  
Win water-related prizes!

- Passports can be picked up at Raven Hill, from your local chamber or library OR can be downloaded from [www.MiRavenHill.org/waterways](http://www.MiRavenHill.org/waterways)
- Collect stickers for each Water|Ways Event you attend.
- Get a sticker when you visit the Smithsonian Water|Ways Exhibit at Raven Hill. (This exhibit is the only required sticker.)
- You must attend a minimum of 8 events, exhibits or activities. (Water|Ways Exhibit + 7 additional events)
- Each family member can complete their own Passport.
- One sticker per activity, event, or exhibit please.
- You may complete your Passport in any order you wish.
- There will be two drawings- one for children prizes and one for adult prizes.
- Drawing will happen at the closing ceremony on September 23, 2018. You do not need to be present to win.
- Prizes can be picked up on or after September 23, 2018
- Prizes include family rafting trip, water park pass, a ride in an Amphi-car, sea salt caramels, and more.

### Multiple ways to submit:

In person at Raven Hill

Take a photo of your completed card

& email [info@miravenhill.org](mailto:info@miravenhill.org) or

by text to 231.675.6025

Please complete contact information on reverse side of card.

1	2	3
4	5	6
7	8	9
10	11	12
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19	20	21
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34	35	36
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52	53	54
55	56	57
58	59	60

Name: \_\_\_\_\_