

# INLAND SEAS EDUCATION ASSOCIATION ANNUAL REPORT 2012

PROTECTING THE GREAT LAKES THROUGH EDUCATION



# MESSAGE FROM THE PILOTHOUSE

Inland Seas Education Association (ISEA) is proud to present its 2012 Annual Report. In these pages you will find a summary of last season's educational activities, staff and board changes and a list of all those in the community who support ISEA's work on shore and afloat. This past year ISEA provided shipboard education programs for 4,175 students and adults. Several thousand additional people participated in ISEA activities dockside, in our Education Center or on our wetland and waterfront.

Since our humble beginning in March of 1989 (no office, no budget, no employees, lots of ideas, lots of friends), ISEA has grown into a nationally known freshwater education organization, with over 96,000 students to our credit. This success is largely due to the dedicated efforts of hundreds of volunteer instructors, office helpers, fundraisers, donors and staff.

At the end of our first year we had two staff positions (me and Robin Bahle), 16 donors (10 of whom are still supporting ISEA), 33 volunteer instructors, and 37 classes. Many of the schools sailing with us that first year continue to bring students to the Schoolship each year. Those sixth-graders are now in their mid-thirty's! Hopefully they still remember their day on the Schoolship. I know some of them do because they have told me so.

The coming season is full of promise as ISEA begins its 25<sup>th</sup> season of Schoolship Programs for the students of Michigan and beyond. We have 95 Schoolship classes booked for spring and a very full summer season. The schooners *Inland Seas* and *Manitou* will be ready on May 1st when the first class of Schoolship students arrives at our dock. So will the 240 volunteers who will teach these students and help ISEA in numerous other ways.

I am lucky enough to see Grand Traverse Bay every day on my way to work. I never take that view for granted, and I try each day to walk for a few minutes by the water's edge. There I listen, smell, and see the lake in its many colors, textures, and moods. I hope you are able to do the same, but if you can't on a daily basis, remember that ISEA is out there each day, helping to make the next generation of Great Lakes scientists and stewards. Thanks for being a part of this great work.

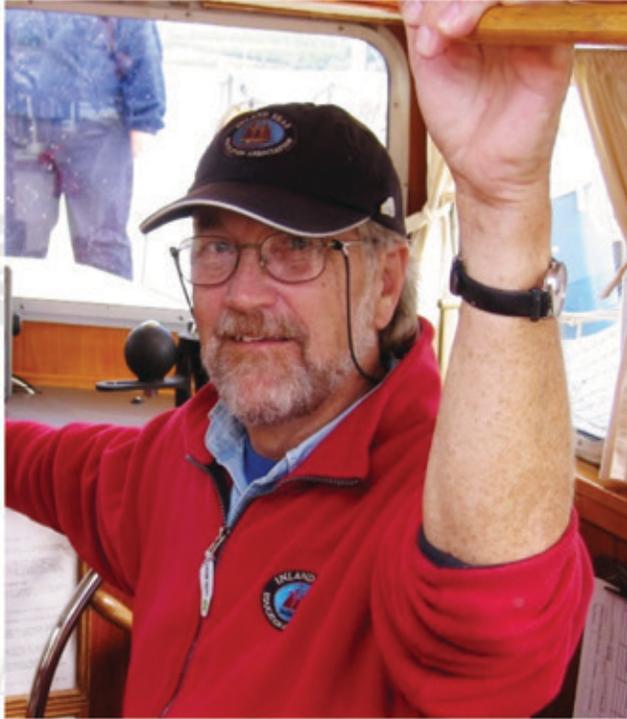
In case you have not heard by now, I am planning on retiring as Executive Director at the end of 2013. This does not mean that I am leaving ISEA completely. I plan to stay on as part-time Captain for a few more years, and I will be around to assist the new Executive Director as needed, while letting the new person take full charge of the organization after a couple of months of working together.

My retirement announcement letter is reprinted on the opposite page. Thanks to everyone who has made Inland Seas possible, and for being so supportive over the years.

Tom Kelly  
Executive Director



# SWAN SONG



It has been almost 25 years since the first Schoolship students stepped aboard Malabar on a May morning in 1989. Since that time there has been a lot of water under the keels of our various Schoolships vessels (*Malabar, Cygnet, Falcon, Manitou, Westward, Mishe Mokwa, Liberty, and Inland Seas*), many dedicated staff members, a thousand + volunteers, and many loyal financial supporters. This has been a wonderful period of my life, to see a dream come true and to have new dreams unfold as all of us worked together to bring the Schoolship experience to over 94,000 students, young and old.

As I approach my 65th birthday, it is time to turn over the helm of Inland Seas Education Association to a new leader.

Since 2008, I have been working toward this with the ISEA Board of Directors, and assistance from NorthSky Nonprofit Network. ISEA has developed an Executive Transition Plan, a pathway for the orderly change of leadership. In the coming months we will be searching for the next Executive Director and hopefully this person will be ready to join us by November, 2013. After a couple of months overlap, I will step aside and the new leader will take the helm beginning January, 2014.

ISEA will go on much as before. The board is committed to our mission and the way of doing our work. The new Executive Director will be carefully chosen by the board to carry on the best traditions of ISEA and to bring new ideas and new energy to the organization. I will help in any way I can to insure a sustainable future for ISEA. I plan continued involvement with ship operations in the future, working with Captain Ben Hale, to provide a safe and rewarding shipboard experience for our young learners.

I want to thank you for your loyal support over the years, and I ask for your support through this transition period and into the future. This will be a change for everyone involved with Inland Seas, including me and you. Please feel free to contact me if you would like to talk about the transition or anything else about ISEA. I trust you will continue to support ISEA's mission into the future, so thousands more students can experience the Great Lakes and become faithful stewards of this great resource.

Tom Kelly  
Executive Director

# PRESIDENT'S MESSAGE

2012 was a very successful year for ISEA. We had 110 Schoolship trips involving 4,256 students. Because of our many generous donors, we were able to offer scholarships to many schools which made it possible for them to be part of our program.

Now as we plan for 2013, our 25th year, we are very busy training new volunteers and scheduling for Schoolship sails. It looks like our sailing schedule will be very busy.

Tom Kelly, our founder and executive director, plans to retire at the end of 2013. Those of us who have had the pleasure of knowing and working with Tom for years know that he can not be replaced. However, our transition team is working hard to find the right person to fill his shoes. We have signed an agreement with Human Resource Partners, a local firm, to aid in that effort and we are working together to assure a smooth transition.

In my short time as president of ISEA I have seen first hand that this organization has the two components to make it successful. It has a great staff and wonderful volunteers. I would especially like to thank the ISEA Board for their time, energy and commitment on behalf of our organization.

**Larry Garber, President of the ISEA Board**

*Larry Garber passed away on July 26th, 2013.*

*Memorial gifts will be used to obtain a new suit of sails for our schooner, Inland Seas.*

*Larry was a great mentor, leader, and friend. He will be missed by all.*



Larry Garber

## WHO WE ARE

Tom Kelly, *Executive Director*

Ben Hale, *Captain*

Stephanie Crick, *Administrator*

Kathy Lievense, *Development Director*

Tim Davis, *Education Director*

Emily Shaw, *Education and Volunteer Coordinator*

Taryn Carew, *Education Specialist*

Kathy Kane, *Ship's Cook*

Jan Hale, Len Klein, Bob Hagerman, Gary Longton,

Larry Good, Wayne Snyder, *Ship's Crew*

Maggie Peterson

Amanda Wild

Taryn Goodney-Jones

Paige Pfannenstiel

Leah Miller

Morgan Furore

2012  
STAFF

2012  
INTERNS

# EDUCATION PROGRAMS ABOARD INLAND SEAS

## FAMILY SCIENCE SAILS



A unique 3-hour experience for the entire family, participants become “scientists and sailors” aboard ISEA’s schooner *Inland Seas*. Families learn about the Great Lakes’ ecosystem by trawling for fish, collecting plankton, sampling sediment from the lake bottom, and testing water quality. In addition, families become a part of the maritime tradition by raising the anchor, hoisting the sails, and steering the schooner.

## ASTRONOMY SAILS

Setting sail at sunset, and sailing under a darkening sky, participants of ISEA Astronomy Sails identify constellations and learn the legends behind their names with local astronomer, Dick Cookman. This is ISEA’s most popular adult program.



## MAKING THE GREAT LAKES GREAT SAILS

Similar in content to Family Science Sails, Making the Great Lakes Great Sails are free due to sponsorship by the Great Lakes Restoration Initiative, in partnership with the Grand Valley State University’s Annis Water Resources Institute, Michigan State University Extension, Michigan Sea Grant, and BaySail. In 2012, Making the Great Lakes Great Sails were held in 10 different ports on Lake Michigan.



# EDUCATION PROGRAMS ABOARD INLAND SEAS

## YOUNG WOMEN AND YOUNG MEN IN SCIENCE

Young Women and Young Men in Science are two-day overnight programs for high school students with strong interests in science. The students work in small groups designing and completing research projects to assess the health of the Great Lakes' ecosystem. The program culminates in a public presentation of their research.



## MARITIME HISTORY SAILS

The rich maritime history of Suttons Bay, Peshawbestown, and Omena is explored during ISEA's Maritime History Under Sail. Sailing the bay as in the days of old, participants experience the heritage of the mid-coast of Grand Traverse Bay, guided by the ship's crew and local historian, Laura Quackenbush.

## INVASIVE SPECIES FIELD COURSES

ISEA's Invasive Field Course and Advanced Invasive Species Field Course are designed to teach educators and environmental professionals about invasive species in the Great Lakes region, and prepare them to effectively teach their students, colleagues, and volunteers about this critical subject. These three and four day courses emphasize the concept of "prevention through education."



# 2012 SCHOOLSHIP SCHOOLS

AgriScience & Natural Resources  
 Association of Midwest Museums  
 Athens High School  
 Bay de Noc College Foundation (2)  
 Bay Pines Escanaba  
 Bear Lake Schools (3)  
 Bellaire Middle School  
 Bellaire MS/HS  
 Big Jackson Public School  
 Blair Elementary (4)



Central Grade School (4)  
 Central Lake High School (2)  
 Cherry Knoll Elementary School (2)  
 Clare Public Schools (4)  
 Clarkston Junior High School  
 Crestwood Middle School (3)  
 Eastern Elementary School (6)  
 Eastern Michigan University  
 Eisenhower Elementary (2)  
 Frankfort Elementary School (2)  
 Friends of Betsie Bay  
 Friends of Fayette Historic Townsite  
 Gaines Elementary School  
 Gaylord High School  
 Gaylord St. Mary's (2)  
 Glen Lake Schools  
 Grand Traverse Academy (3)  
 Grand Traverse Stewardship Initiative  
 Grayling Elementary School (3)  
 GRCS Environmental (6)  
 Greenspire School  
 Groves High School (2)  
 Hannahville Youth Services Department  
 Immaculate Conception (3)  
 Inland Lakes Schools (4)  
 Kalkaska Middle School (3)  
 Kennedy Elementary School (2)  
 Lake Leelanau St. Mary's (2)  
 Lake Orion High School  
 Lakeland Elementary (4)  
 Lakeshore High School (2)  
 Lansing STEM Academy (2)  
 Leelanau Montessori  
 Leland Public Schools (2)  
 Lewiston School (3)  
 Ludington Area Catholic Schools (3)  
 Mancelona Middle School (7)  
 Mason Elementary School  
 New Page - Escanaba Operations (6)  
 New Page - Escanaba Operations/Delta Force (2)  
 NMC Watershed Science Students (2)  
 Northport Lighthouse Festival

Northport Public Schools  
 Northwest Elementary (2)  
 Okemos High School  
 Old Mission Peninsula School (2)  
 Onkama Consolidated Schools (2)  
 Our Savior Lutheran School  
 Pathfinder School  
 Pellston Elementary School (4)  
 Pellston Middle School (2)  
 Platte River Elementary (9)  
 Post Oak School  
 Reuther Middle School (8)  
 Sacred Heart Academy (7)  
 Sault High  
 SEEDS  
 Silver Lake Elementary (6)  
 Smith Middle School (2)  
 Special Olympics Michigan, Benzie County  
 Sault St. Marie Convention and  
 Visitor's Bureau (3)  
 St. Francis Assissi (3)  
 St. Martha  
 St. Mary Hannah  
 Standish-Sterling Central High School  
 Suttons Bay High School (4)  
 Tappan Middle School (8)  
 TBAISD ACE II (3)  
 TCAPS Montessori  
 TEACH Home School  
 Traverse City Central High School (4)  
 Traverse City Central High School  
 SCI-MA-TECH  
 Traverse City Children's House  
 Traverse City Home Schoolers (2)  
 Traverse City West Middle School (3)  
 Traverse Heights Elementary School (2)  
 Tri County High School  
 Trinity Lutheran School (3)  
 Washington Woods Middle School (18)  
 Western Michigan University  
 Willow Hill Elementary (3)  
 Woodland School

# EDUCATION CENTER

## 2012 ACTIVITIES

### INLAND SEAS BOAT SHOP



### OPTIMIST PRAM BUILD AND SAIL CLASS

On nine Saturdays from February to April, a group of 10 children, ages 5-14 years, learned how to build an Optimist pram. After completion of their boats, students were given a free scholarship to Traverse Area Community Sailing to learn how to sail the pram they built. The program is run by six ISEA boat shop volunteers under the leadership of Chuck Dickerson.

### GRANDFATHER/ GRANDSON PROGRAM

ISEA also hosted a collaborative program, July and August of 2012. Meeting two to three days a week, grandfathers and grandsons worked together to build their own prams.

### FAMILY SCIENCE DAYS

Family Science Days are held in the ISEA Education Center and have different hands-on science activities. Each week, a theme evokes the young scientist in everyone. The program is geared for families with children 4-12 years old.

### 2012 SEMINAR SERIES

**January:** Restoration of Critical Fish Spawning Reef Through Invasive Predator Suppression and Habitat Restoration, Randy Claramunt

**May:** The Impacts of Algae on the Northeast United States, Dr. Timothy Davis

**June:** The 2011 Chicago to Mackinac Yacht Race Storm and a Review of National Weather Service Products, Justin Arnott

**July:** The Threat of Asian Carp to the Great Lakes-- a 2012 Update, Mark Breederland

**August:** Platte River State Fish Hatchery- Fish for the Future, Aaron Switzer

**September:** Leelanau Conservancy's Protected Natural Areas and Preserves: Field Notes from On and Off the Trail, Jenee Rowe

**October:** The Threat of Asian Carp to Our Great Lakes-- What the Research is Telling Us, Mark Breederland

**November:** Potential Ecological Benefits and Costs to Restoring Stream Connectivity, Dr. Ashley Moerke

**December:** Grand Traverse Bay in 2012: The Scholarship Year in Review, Captain Thomas Kelly

# INLAND SEAS EDUCATION ASSOCIATION 2012 ACTIVITIES

## CLASSIC BOAT SHOW

On July 21, 2012, Inland Seas Education Association (ISEA) hosted the Classic Boat Show on the Suttons Bay waterfront. This event, held in conjunction with the Leelanau Peninsula Wine, Food & Music Festival, had over 1,000 attendees.

The Classic Boat Show was held annually for 25 years until 2004. Inland Seas revived the show and plans to make it an annual event. This event brought together a diverse group of sailboats, motorboats, canoes, kayaks, rowboats and prams and gave the public a chance to meet the owners and see these boats up close. It was a day to celebrate great boats on the Great Lakes.

Activities included sailing trips aboard the Friendship Sloop *Liberty* and the classic motor yacht *Liberty*. The Maritime Heritage Alliance brought their voyageur canoes and gave paddling trips on the bay. ISEA's 77' Schooner *Inland Seas* and MHA's cutter *Champion* were open for dockside tours. ISEA students and staff demonstrated wooden pram and canoe building and there was a nautical flea market all day. This year's Classic Boat Show was dedicated to the memory of Mark Pleune, who helped organize the past 25 years of the event.



## NAVY MOTOR WHALEBOAT "LAKE STURGEON"

This motor whaleboat, donated by Gordon and Susan Brown in 2012, is the descendant of open whaling boats of the 18th and 19th centuries. Motor whaleboats are used by the U.S. Navy as general purpose tenders aboard warships. They are usually carried on davits on the ship's side. The motor whaleboat *Lake Sturgeon* is a Michigan DNR-inspected passenger vessel equipped with modern safety equipment. The vessel is staffed by a licensed captain and mate/educator.

One hour educational programs are available for individuals and groups. Visit [www.schoolship.org](http://www.schoolship.org) for details.

The *Lake Sturgeon* (Nmé in Ojibwe) is the largest fish in the Great Lakes and is the mascot of ISEA.



# 2012 DONOR RECOGNITION



## INLAND SEAS FAMILY

\$49.00

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# 2012 DONOR RECOGNITION

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Stephanie Ogren  
Robert O'Neal



# 2012 DONOR RECOGNITION

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# 2012 DONOR RECOGNITION

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The Seabury Foundation  
TUKTAWA Foundation



## PRESIDENT'S CIRCLE \$2,500.00-\$4,999.00

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# 2012 DONOR RECOGNITION

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*In Honor of Chuck and Janet Dickerson*  
Karen Holappa

*In Honor of Diane Gilbo*  
James Gilbo

*In Honor of Gary Drew*  
Mary Lou Mabee

*In Honor of Lois Jelneck*  
Rolf Deininger

*In Honor of Max and Elliot Evans*  
Mark and Annette Evans

### MEMORIALS

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Edwin and Constance Arnfield  
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George Wagoner

Bruce and Avace Wildie

*In Memory of Gordon Brown*

William Klein

*In Memory of Jackie Dundon*

William Klein

*In Memory of Kim Biocchi*

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*In Memory of Mark Plune*

Chris and Robin Bahle

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Thomas Kelly

*In Memory of Robert Evans*

Carrie Sharp

*In Memory of Robert Wainright*

Thomas Kelly

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Great Lakes Maritime Academy

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Irish Boat Shop

Charlie and Kathy Johnson

Kathleen Kane

Gary Longton

Petoskey Marina

Kristen Miller

Moomers Ice Cream

Ann Nichols

Northport Bay Boat Yard

William Olsen

Victor and Jean Peterson

George H. Pezza

GJ's Rentals

Thomas Rogers

Schmuckal Oil Company

Larry Thompson

Roger Vance

Joyce Wainright



# STATEMENT OF FINANCIAL POSITION

As of June 30, 2012

## ASSETS

Cash and Investments	\$157,272
Accounts Receivable	32,762
Inventory	5,522
Prepaid Expenses	16,835
Promises to Give	262,071
Property & Equipment, Net	1,426,280
<b>Total Assets</b>	<b>1,900,742</b>

## LIABILITIES AND NET ASSETS

Accounts Payable	\$21,615
Accrued Liabilities	31,190
Deferred Revenue	5,050
Long-term Debt	446,193
<b>Total Liabilities</b>	<b>504,048</b>
<i>Net Assets</i>	
Unrestricted	1,101,052
Temporarily Restricted	295,642
<b>Total Net Assets</b>	<b>1,396,694</b>
<b>Total Liabilities and Net Assets</b>	<b>1,900,742</b>

## STATEMENT OF ACTIVITIES YEAR ENDED JUNE 30 2012

### REVENUE AND OTHER SUPPORT

Program Fees	\$161,607
Contributions	176,259
Fundraising Events, Net	592
Inkind Donations	181,421
Grants and Contracts	108,396
Merchandise Sales, Net	2,297
Sale of Donated Items	9,839
Dock Rentals	7,200
Interest	10
Loss on Donated Securities	-
<b>Total Revenue and Support</b>	<b>647,621</b>

### EXPENSES

Program Services	\$528,500
General & Administrative	124,760
Fundraising	132,840
<b>Total Expenses</b>	<b>786,100</b>

### NET ASSETS

Changes in Net Assets	\$(138,479)
Net Assets, Beginning of Year	1,535,173
<b>Net Assets, End of Year</b>	<b>1,396,694</b>

From audited financial statements, Vanderwal, Spratto, and Richards, P.C.



# 2012 VOLUNTEERS

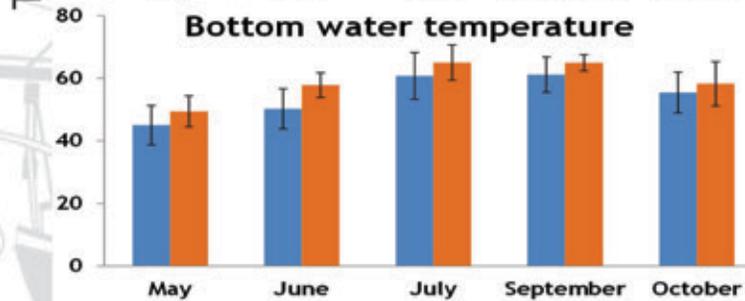
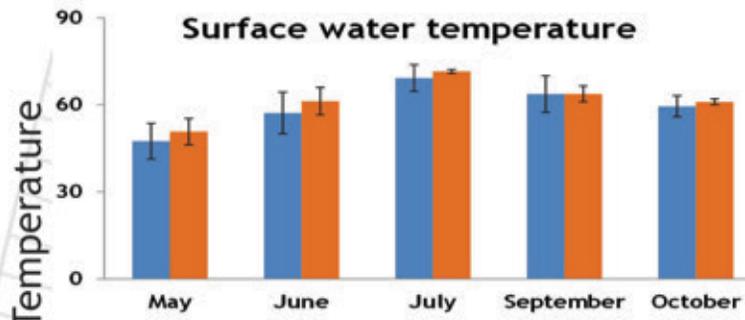
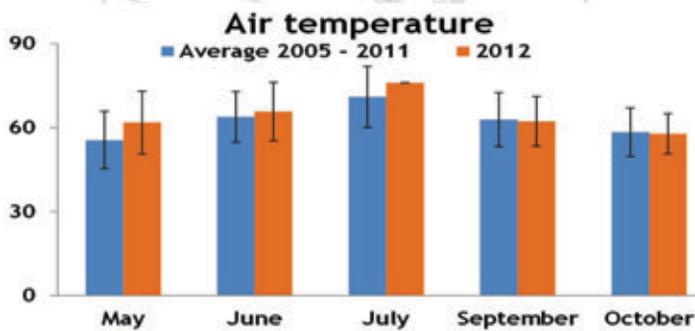
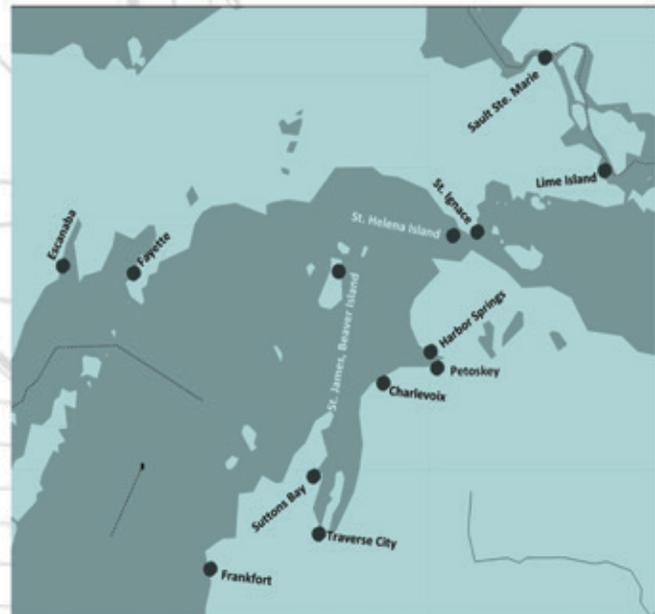
Emma Adams	Martha Eldredge	Demarie Jones	Nancy Powers
Logan Adams	Bill Emerson	Taryn Goodney-Jones	Cindy Ratowski
David Anderson	Susan Erdmann	Emma Kelly	Steve Rawlings
Anthony Applegate	Michael Fandel	Graham Kelly	Dan Reelitz
Vicky Arlt	Topher Fast	Pam Kirt	Jan Reelitz
Kim Armbruster	Jim Feiker	Connie Klein	Scott Reitz
Dennis Armbruster	Al Flory	Len Klein	Jacob Reuss
Judy Arnold	Gene Fontaine	Arlene Koons	James Richardson
Candy Ashley	Lee Forester	Abby Kopplon	Sandra Richardson
Cathie Ballard	Rebekah Fuller	Freddy Kopplon	Michael Richmond
Gerald Battle	Morgan Furore	Mary Krantz	Erica Schneider
Jerry Battle	Sandy Galla	Frank Lahde	Deb Scott
Tom Bauer	Larry Garber	Dave Landis	Spencer Seeley
Peter Bentley	Martha Garber	Jeanne Landis	Richard Shay
Don Bogue	Travis Gensler	Barry Lishawa	John Smith
Bruce Bowen	Jeni Goodnow	Linda Lishawa	Chris Somero
Paul Budde	Terri Gostala	Lili London	Sally Somsel
Alice Buell	Claudia Graham	Gary Longton	Alfred Stachel
Webb Buell	Jim Graham	Phillip Loud	Jane Suppes
Bob Bura	Don Gray	Pete Magoun	Stephanie Sutherland
Thomas Burton	Harry Greanya	John Mater	Logan Suttman
Tom Burton	Bob Hagerman	Bill Maul	Suttons Bay Honor Society
Jody Byland	Jan Hale	Paul McEwen	Wayne Swallow
Chris Campbell	Melissa Hale	Doug McInnis	John Tanner
Russell Carew	Bill Hansen	Ann McInnis	Liam Thelander
Glenn Carlson	Paula Hartmann	John Miller	Zack Thelander
John Casteel	Richard Harvey	Leanne Miller	Kathy Turner
Kenneth Cerny	Gail Hastings	Kristen Miller	Emily Tyner
Sandra Ciesielski	Conrad Heins	Rorke Miller	Fred Utting
Terry Ciesielski	Larry Heitman	Steve Morgan	Gloria Veltman
Marcia Clone	Lee Hepner	Scott Myers	Richard Walter
Patt Cole	Jakob Hester	John Nelson	Jon Walter
Kenneth Coleman	John Hoessler	Ann Nichols	Janet Ward
Ryann Collins	Craig Holmes	Harvey Norris	Diana Warner
Stuart Corpe	Emily Holmes	Barbara Nowinski	Kennard Weaver
Stu Corpe	Pat Holmes	Justin O'Brien	John Welsh
Gary Costley	Debie Horn	Patt Oriol	John Welson
Tony DeRose	Bill Horning	Pat Paveglio	Dale Whelan
Chuck Dickerson	Barbara Horning	Leo Paveglio	Amanda Wild
Janet Dickerson	Carol Inman	Mary Petterson	Michael Wildman
Barbara Dove	Jerry Inman	Becky Peyton	Larry Winegar
Donald Dunlop	Bette Jackson	Larry Peyton	Maury Witteveen
Sally Dunlop	Dave Jankowski	Chuck Plachetszki	Thom Yocum
Kim Eike	Robert Johnson	Sally Plachetzki	Jay Zelenok
	Keith Johnson	Donna Popke	
	Claudette Johnson	Bob Potvin	



# 2012 SCHOOLSHIP DATA

All data presented was collected by students and volunteer instructors as part of Inland Seas Education Association's Great Lakes Schoolship Programs. Samples were taken aboard schooner Inland Seas, in Suttons Bay, Michigan.

## WHERE WE SAILED



## TEMPERATURE ANALYSIS

~We compared the historical (2005-2011) monthly average air temperature, surface water, and bottom water temperatures (blue bars) to the 2012 monthly average temperature. (orange bars).

~The mean monthly temperatures for air, surface, and bottom waters from May through July were 4.3 +/- 1.8 degrees Fahrenheit higher in 2012 than the average from 2005-2011.

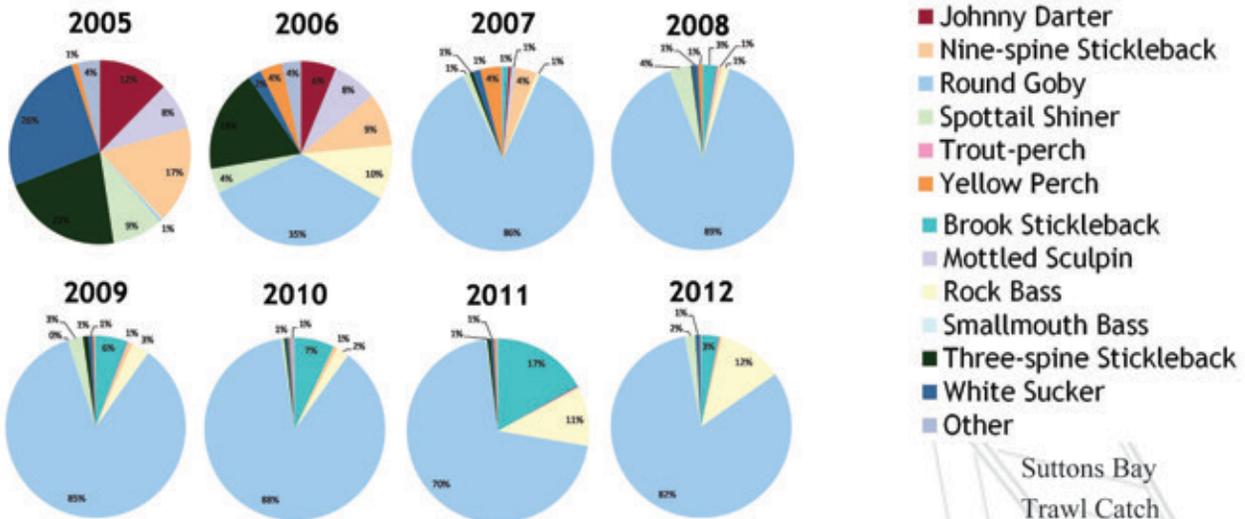
~Air and surface water temperatures for September and October 2012 were similar to previous years.

~Mean bottom water temperatures in 2012 were 3.2 +/- 0.7 degrees Fahrenheit higher in September and October than in previous years.

# 2012 SCHOOLSHIP DATA

## CHANGING FISH POPULATIONS

## INVASION OF THE ROUND GOBY

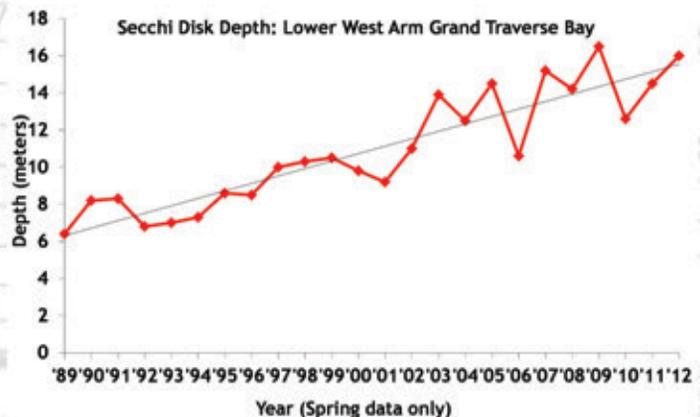


## WATER CLARITY

~By the mid-1990s, zebra mussels had spread to all five Great Lakes. Their filter-feeding contributed to increases in water clarity and decreases in the amphipod *Diporeia* spp. densities.

~Quagga mussels were found in Lake Ontario in 1989 and in Grand Traverse Bay by 2000. Quagga mussels are larger and outcompete zebra mussels. Today, they comprise over 99% the dreissenid mussel population in Lake Michigan, an estimated 900 trillion quagga mussels.

~The increase in water clarity allows for increased growth of the native green algae *Cladophora* spp. which, when it dies, can create anoxic (no dissolved oxygen) environment on the lake bottom. This provides an ideal microhabitat for the bacterium that produces the botulism toxin.



# 2013 PROGRAMS

## FAMILY SCIENCE SAILS

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June 19, 9:00 am  
June 20, 9:00 am & 2:00 pm  
June 21, 2:00 pm  
June 25, 9:00 am & 2:00 pm  
June 27, 2:00 pm, Traverse City  
July 1, 9:00 am & 2:00 pm  
July 2, 2:00 pm  
July 3, 9:00 am & 2:00 pm  
July 5, 9:00 am  
July 10, 2:00 pm, Escanaba  
July 18, 9:00 am & 2:00 pm  
July 19, 9:00 am  
August 9, 9:00 am & 2:00 pm  
August 10, 2:00 pm  
August 17, 2:00 pm  
August 21, 9:00 am & 2:00 pm, Frankfort  
August 22, 9:00 am, Frankfort  
August 26, 9:00 am & 2:00 pm  
August 27, 9:00 am & 2:00 pm  
August 28, 9:00 am & 2:00 pm  
August 29, 9:00 am & 2:00 pm  
August 30, 2:00 pm

## MARITIME HISTORY UNDER SAIL

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July 19, 7:00-9:00 pm

## TALL SHIP BIRDING CRUISE TO GULL ISLAND

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June 1, 10:00 – 2:00 pm

## ISEA CLASSIC BOAT SHOW

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July 20, 10:00 am -4:00 pm

## MAKING THE GREAT LAKES GREAT SAILS

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June 21, 9:00 am, Suttons Bay  
June 27, 9:00 am, Traverse City  
July 2, 9:00 am, Suttons Bay  
July 11, 9:00 am, Escanaba  
July 26, 9:00 am, Mackinaw  
August 12, 2:00 pm, Charlevoix  
August 13, 2:00 pm, Harbor Springs  
August 14, 2:00 pm, Petoskey  
August 20, 2:00 pm, Frankfort  
August 23, 9:00 pm, Leland

## YOUNG MEN IN SCIENCE

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August 15-16, Petoskey to Suttons Bay

## YOUNG WOMEN IN SCIENCE

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June 17-18 Suttons Bay

August 1-2 Suttons Bay

## INVASIVE SPECIES FIELD COURSE

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June 26 -28 Traverse City

August 5- 8 Suttons Bay (Advanced Course)

## ASTRONOMY UNDER SAIL

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July 5, 9:15-11:15 pm

August 2, 9:00-11:00pm

August 9, 9:00-11:00pm

September 5, 8:00-10:00pm

## FESTIVALS

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July 12, Bay de Noc Maritime Festival

# INLAND SEAS EDUCATION ASSOCIATION ANNUAL REPORT

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P.O. Box 218  
Suttons Bay, Michigan  
49682

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Email: [isea@schoolship.org](mailto:isea@schoolship.org)  
Facebook: Inland Seas  
Twitter: @inlandseas  
[www.schoolship.org](http://www.schoolship.org)

*Return service requested*

*The Inland Seas Education Association was founded in 1989 as a non-profit charitable organization. Its mission is to enhance public understanding and stewardship of the Great Lakes through hands-on shipboard and onshore educational programs for children and adults.*

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Erica Utter  
Callie Chappell  
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Morgan Furore  
Graham Kelly  
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