

# Michigan Sea Grant

Great Lakes Education, Research and Outreach

Steve Stewart & Elizabeth LaPorte  
Education Program Co-leaders



MICHIGAN STATE  
UNIVERSITY

## Program Support



MICHIGAN STATE  
UNIVERSITY  
EXTENSION

NATURAL RESOURCES  
AND ENVIRONMENT  
UNIVERSITY OF MICHIGAN

- Supported by the National Oceanic and Atmospheric Administration
- Collaboration of MSU & UM
- One of 30 in NSG network

## About Michigan Sea Grant

- Education: formal and informal
- Research: MI universities
- Outreach: 6 educators work with agencies & communities



## Strategic Focus: Coastal

- Communities & Economies
- Education: Science Literacy
- Fisheries
- Habitat
- Invasive Species



## Education & Outreach

- MSG - experiential approach
  - Online (lessons and activities)
  - In person (water & classroom)
- Strong partnerships
  - 4-H, Metroparks, conservation org.
  - DNR & DEQ
  - MBIA & other industry, business
- Regional and National collaboration
  - Federally-supported programs

## Fisheries Learning on the Web

*"I've been using some of the Project FLOW lessons on food chains, food webs and exotic species this fall with my 7th graders. These lessons make teaching this material easy, fun, and engaging.*

*Students teach each other throughout the lessons..."—Mackinaw City teacher*

The screenshot shows the Project FLOW website. At the top, there is a banner with the Sea Grant Michigan logo on the left, a fish illustration in the center, and the text "Project FLOW FISHERIES LEARNING ON THE WEB" on the right. Below the banner is a navigation menu with the following items: Home | About FLOW | Standards & Benchmarks. The main content area is divided into four columns under the heading "UNIT: FOOD WEB WATER FISH". The first column is titled "Fisheries Learning on the Web or Project FLOW" and contains a description of the lessons. The second column is titled "FOOD WEB Chain, Chain, Chain" and features a circular diagram of a food web. The third column is titled "WATER Let It Flow" and shows a photograph of a lake with reeds. The fourth column is titled "FISH Today's Catch" and shows a photograph of a person holding a large fish. At the bottom of the page, there is a footer with the following text: "Home | About FLOW | Standards & Benchmarks | Food Web | Water | Fish Michigan Sea Grant | Bookstore | Education | Research Project FLOW Fisheries Learning on the Web was developed by Michigan Sea Grant College Program with support from the Great Lakes Fishery Trust. © Michigan Sea Grant and the Regents of the University of Michigan. GLIN A Great Lakes Information Network Partner".



# Great Lakes Center for Ocean Sciences Education Excellence



## COSEE Great Lakes Focus:

- Building connections between education and research communities.
- Teacher PD
- Lake Huron workshop in 2007
- Scholarships for MI teachers
- Student opportunities

## Hands-on Aquatic Science



### Great Lakes Education Program

56,417 participants 1991-2005

*"It goes beyond meeting the standards. It is about giving us a reason to care about the environment. It shows us things we might only hear about."*

## Instilling Stewardship, Inspiring Adult Learning

### Informal Education

- Summer Discovery Cruises
- 4-H Great Lakes Camp
- Lake Superior Camp
- NOAA Science Bowl
- AIS outreach (DEQ-OGL: CBCW, publications, online)



## Opportunities for Collaboration

- Natural resources curriculum materials (publications and online resources)
- Teacher PD
- COSEE Great Lakes
- Identifying collaborative funding efforts
- Math & Science Centers