

PROSPECTUS FOR EDUCATORS

# THUNDER BAY ODYSSEY



*Science teachers and Sea Cadets share voyages of discovery in marine science and maritime history on the Great Lakes.*

**The Noble Odyssey Foundation\* proposes a 5-year program to upgrade proficiency in marine and aquatic sciences for secondary school science teachers.**

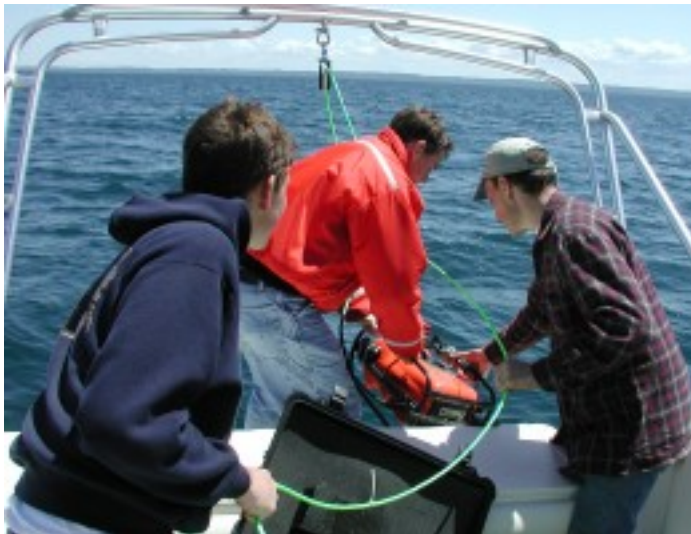
**Called *Thunder Bay Odyssey*, the program features 1-week courses based at NOAA's Thunder Bay National Marine Sanctuary and Underwater Preserve at Alpena, MI, on the western shore of Lake Huron.**



[thunderbay.noaa.gov/](http://thunderbay.noaa.gov/)

\*NOF is a Michigan 501(c)3 organization

***Thunder Bay Odyssey* provides a unique “hands-on” educational experience in marine and maritime sciences.**



**Science teachers from schools throughout the U. S. learn about the technologies and methods used by scientists to study the Great Lakes environment.**

**Much of the course is conducted aboard training and research vessels on Thunder Bay, Lake Huron.**

**Two marine science educators lead each *Odyssey* course.**

**One is a regional specialist in Great Lakes topics. The other is experienced in the application of technologies to marine science.**

**Through team exercises at sea and ashore, science teachers learn how these tools are used to address scientific questions in marine biology, geology, oceanography, and archaeology.**



**Assisting with the course is a trained crew of Sea Cadets (ages 12-18) recruited from numerous cadet units throughout the country.**

**The cadets' mission is to support the course exercises. They help to operate the boats and perform research dives.**

**In the process they also learn about marine science from the field exercises.**



[www.seacadets.org](http://www.seacadets.org)

**The teacher-cadet interaction is an important part of this learning experience.**

**While they learn, teachers can also observe how the cadets-students react to the course information. Cadets learn, too, as they help to support the team exercises.**



**Both benefit from the shared problem-solving experience.**



***Thunder Bay Odyssey* builds on the highly successful program of the Sea Cadet Corps' Great Lakes Division in Mt. Clemens, MI. ([www.prideofmichigan.org](http://www.prideofmichigan.org))**



**For the past 32 years, Captain Luke Clyburn and volunteer professionals have conducted Sea Cadet training, research missions, and ceremonial port visits throughout the Great Lakes.**

The cadets receive formal training as research divers, and often assist local scientists with underwater research projects. These have resulted in a series of documentary films and teacher guides.



The cadets help to operate the 80 ft. vessel, *Pride of Michigan*, the second of two former Navy ships donated to this program.





**Besides nautical and research skills, the Sea Cadets learn fundamental values of teamwork, leadership and personal responsibility.**



**Hundreds of cadet graduates from the Great Lakes Division have moved on to successful careers in the U. S. Navy, the Merchant Marines, and many other professions.**

***Thunder Bay Odyssey* is available to science teachers, Sea Cadets, and science educators nationwide.**

**The NOF recruits and manages the Sea Cadets, and provides all field support. Sea Grant recruits the instructors and science teachers, and handles all academic matters.**

**The Thunder Bay NMS provides a base of operations, teaching facilities ashore, and technologies for conveying educational products to school systems.**



The NOF professional staff includes two licensed Great Lakes captains, a dive trainer, engineer, and other skilled technicians. All adult crew are experienced divers and deck hands.

The NOF is an organizational member of the American Academy of Underwater Sciences (AAUS).

[www.nobleodyssey.org](http://www.nobleodyssey.org)



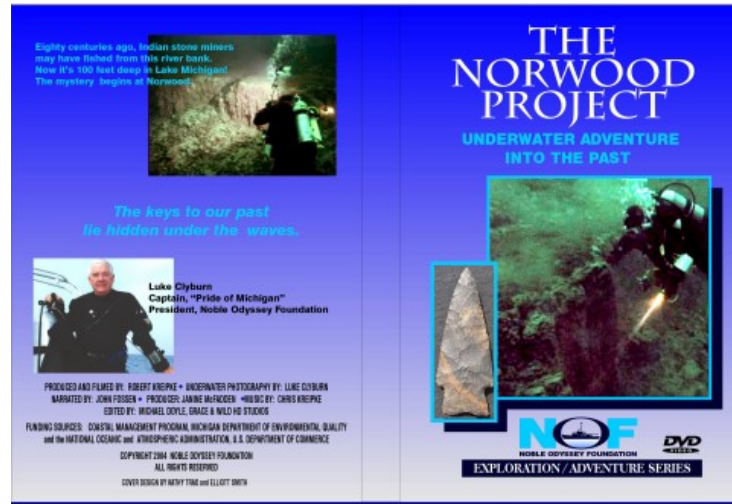
**The present 80 ft. support vessel, *Pride of Michigan*, provides housing only for Sea Cadets and NOF staff. Teachers and instructors overnight ashore.**



**Eventually, a newer 108 ft. (ex-Navy) vessel will provide co-ed quarters for 24 teachers and cadets, and 6 staff, for up to five days at sea. Ample teaching space will be available inside and on deck.**

The *Odyssey* program also contributes to scientific and historical research projects conducted in the National Marine Sanctuary and elsewhere.

The NOF will continue to produce documentary films and other educational products based on its training and research projects.



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