

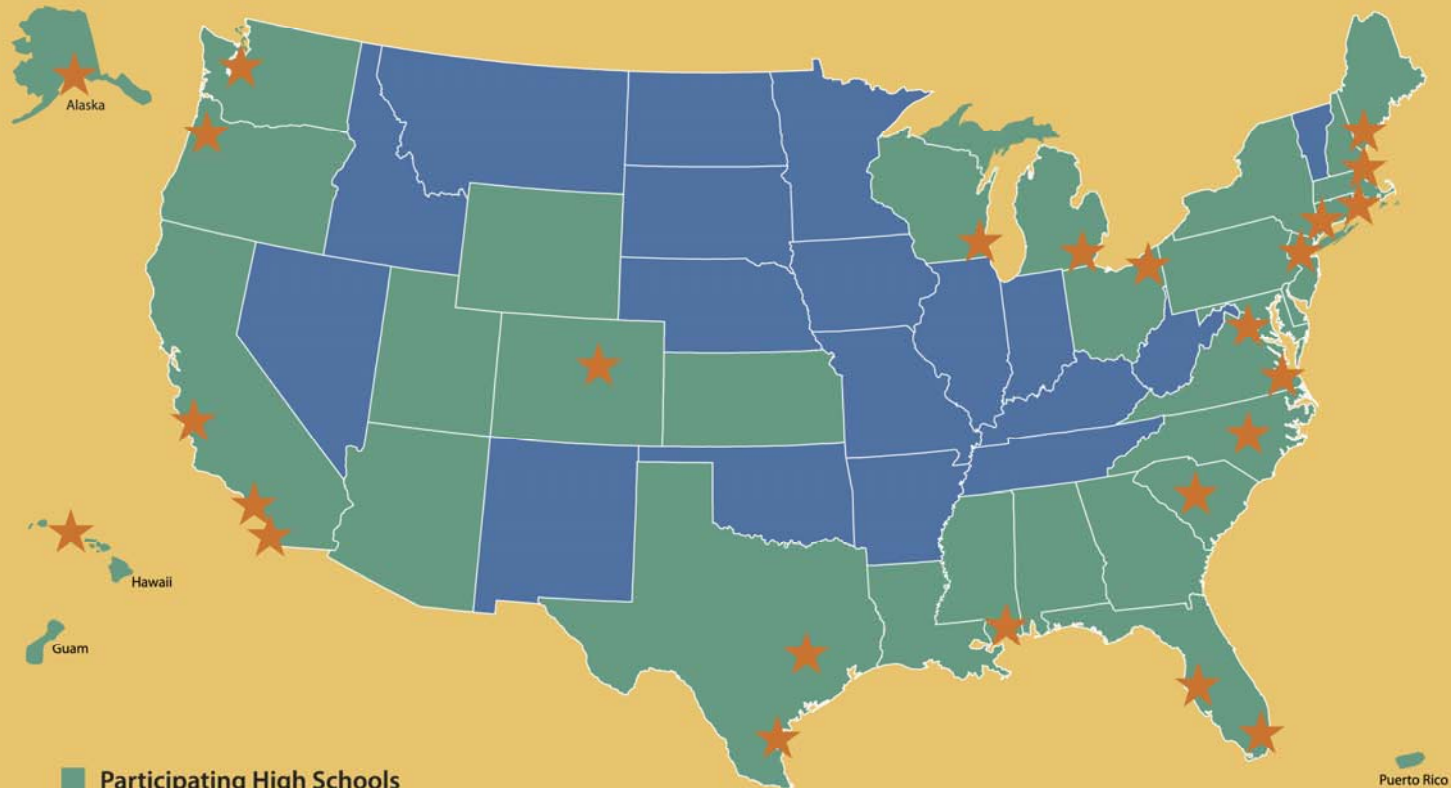
# The National Ocean Sciences Bowl: Teaching Math and Science through Teamwork and Competition





## National Ocean Sciences Bowl Goals and Objectives

- Teach math and science through learning in the ocean sciences
- Emphasize marine science in interdisciplinary teaching
- Broaden awareness of our oceans and the ocean sciences
- Provide access to marine education & scientific professionals
- Highlight oceanographic academic programs
- Share ocean-related career options



■ Participating High Schools  
★ Regional Competition Locations

- |                          |  |  |                                  |
|--------------------------|--|--|----------------------------------|
| AK – Seward              | FL – St. Petersburg                            | NC – Raleigh, Wilmington or Chapel Hill  | RI – Narragansett                |
| CA – La Jolla            | HI – Honolulu                                  | NJ – New Brunswick                       | SC – Columbia                    |
| CA – Los Angeles         | MA – Cambridge                                 | NY – Stony Brook                         | TX – College Station             |
| CA – Monterey            | ME/NH – Durham, NH, Biddeford, ME or Orono, ME | OH/PA – Youngstown, OH or Pittsburgh, PA | TX – Corpus Christi              |
| CO – Boulder             | MI – Ann Arbor                                 |  | VA – Norfolk or Gloucester Point |
| DC – Washington, DC      | MS – Biloxi                                    |  | WA – Seattle                     |
| FL – Ft. Pierce or Miami |  |  | WI – Milwaukee                   |





## Volunteer Commitments make NOSB Possible





Teams: 4 students, 1 alternate and 1 coach

Enrolled for the current school year in grades 9-12 at the time of competition and no more than 20 years of age.

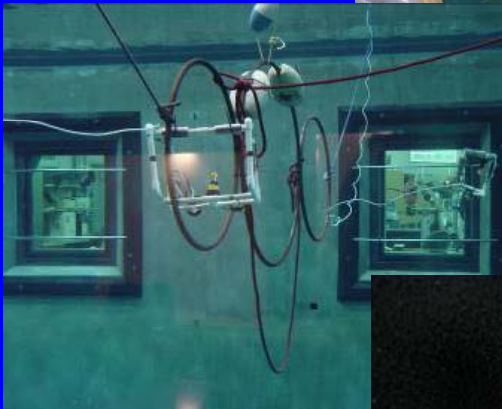
Jeopardy-style competition with student teams and judges

Questions: Toss-up, Bonus and Challenge Questions





# NOSB Subjects



- Biology
- Physical science
- Chemistry
- Geology
- Geography
- Technology
- Social Sciences

# Why is NOSB important for Maine kids?



- Importance of ocean sciences to Maine
- Limited number of youth following educational and career paths in STEM
- Designed to explore career options
- Help through scholarship support, internships, college prep and recommendations from leaders in the field



## As a result of participating in NOSB, students will:

- Develop and enhance factual recollection, teamwork, competition, imaginative thinking and problem solving skills
- Explore careers in ocean sciences with their coaches and professionals
- Engage in working to solve (or at least address) real world ocean science problems
- Be acknowledged and rewarded for their academic diligence and excellence





## How does NOSB mesh with math and science school curricula?

- Afterschool student activity
- Clear connections with math and science classwork
- Skills expected of students planning to attend college and graduate school
- Close ties with Maine Learning Results
- Challenge students who find math and science easy
- A way to engage students who don't think math and science are interesting
- Teach individual and team problem solving

# Nor'Easter Bowl 2009

February 7, 2009

University of Maine – Orono Campus

- Competition format
- Competition schedule
- Types of questions
- Food and beverages
- Gifts and handouts
- Science enrichment activities
- Final competition rounds
- Awards and next steps



## Coaching an NOSB Team



# What do I need to do as coach to lead a team?

- Create a team
- Develop a practice schedule and commitments
- Register your team w/ Nor'Easter Bowl Coordinator
- Help team members develop different expertise and learn to work together as a team
- Review and learn the rules thoroughly
- Practice with lockout boxes
- Ensure team morale is high and that everyone has fun no matter what

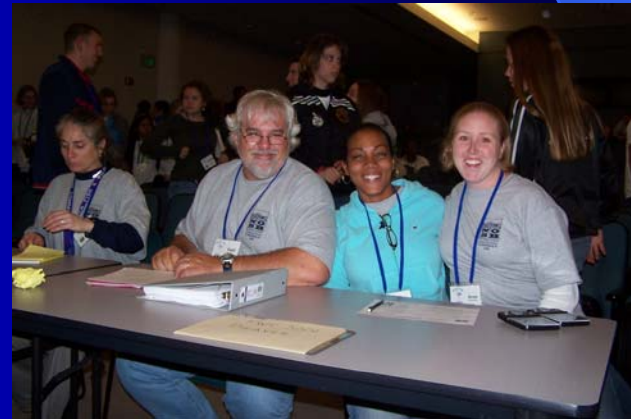


# What commitments do students have to make?

- Regular practices
- Personal study
- Regional competition (incl. travel)
- Find way to pay for travel to regional competition
- Ability to attend national conference if win

# Understanding NOSB Rules

- Set-up
- Answering questions
- Mastering the methods and the rules
- Judging teams
- Roles
- Master Rules Judge





# Practicing and Preparing





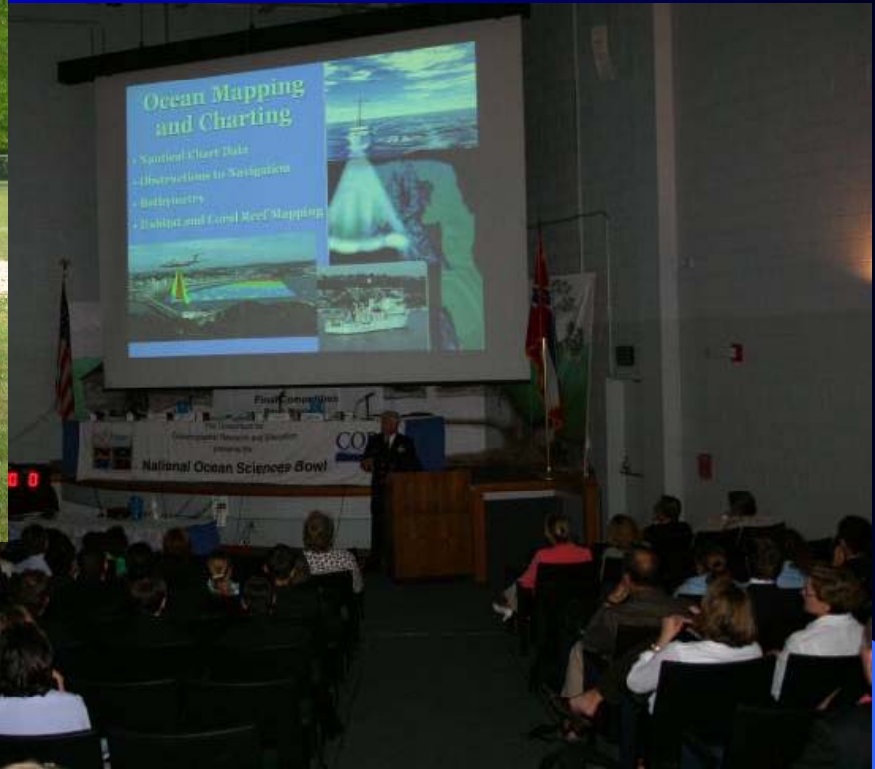
**The NOSB is also about  
creating teamwork,  
friendships and FUN!!!**





**Competing at Nationals – Taking it to the Top!**





**Opportunities for students to  
interact with and learn from  
leading ocean science professionals**



## Regional and National Field Trips





## NOSB Internships and Field Opportunities



# Academic Scholarships for Student Competitors

## Regional Scholarships:

- University of Maine
- University of New England
- University of New Hampshire
- Coastal Semester  
at Hood College

## NOSB Scholarships

- Qualify by being a member  
of a regional team





## Are there specific benefits for Coaches?

- Professional development opportunities through NOSB
- Educational materials and connections for all regional coaches
- Subscriptions to publications
- Take winning teams on field trips and the winning team to nationals

### In addition to, of course...

- The opportunity to mentor students who are enthused and excel

# Deadline to Register Your Team

November 14, 2008





# Contact Information



- Brenda Zollitsch, 2009 NOSB Regional Coordinator or  
Katie Clegg (Teams Coordinator)  
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- Nor'Easter Bowl 2009 Website:  
<http://www.seagrant.umaine.edu/education/nosb09>
- NOSB Website: <http://www.nosb.org>