



20th Annual Chesapeake Bay Bowl

February 4, 2017
University of Delaware Hugh R. Sharp Campus
Lewes, DE



Welcome to the 20th Annual Chesapeake Bay Bowl at the University of Delaware Hugh R. Sharp Campus!

The Chesapeake Bay Bowl (CBB) is one of 25 regional competitions of the National Ocean Sciences Bowl (NOSB).

High school students from Maryland, Delaware, southeastern Pennsylvania, northern Virginia, and the District of Columbia are eligible to participate in the CBB. Teams of four or five participants answer questions based on the marine sciences in a quick answer timed format along with more complex team challenge questions (TCQs).

Winners from today's competition will go on to compete in the national competition, which will be held in Corvallis, Oregon, from April 20-23. The theme of this year's finals competition is Blue Energy -Powering the Planet with our Ocean.

Good luck to all the teams in today's competition!

**Spectators are welcome in the competition rooms,
but *may not*:**

- Enter or leave a room during a match;
- Take pictures, notes, or audio recordings during competitions;
- Use mobile/texting devices, tablets, computers, etc. in competition rooms;
- Communicate with contestants during matches, after breaks;
- Talk, shout answers, make displays of approval or disapproval or gestures that may be construed as signaling;
- Talk in the halls outside competition rooms during matches.

Please respect the integrity of the competition and the considerable effort made by ALL teams and officials in preparing for this event.

Chesapeake Bay Bowl Schedule of Events

Saturday, February 4

- 7-7:30 a.m. Officials check-in and breakfast
Harbor Room Lobby
- 7:35-8:00 a.m. Officials meeting and group photo
Schooner Room
- 7:45-8:15 a.m. Team registration, lodging check-out (if applicable),
and breakfast
Harbor Room Lobby
- 8:30 a.m. Competition day welcome and meeting
**Mandatory for all competitors and coaches*
Announcements, rules review
Pilot Room
- 9 a.m. Round robin competition begins
See match schedule and posted room assignments
- 11:15 a.m. Lunch
Officials & volunteers – *Schooner Room*
Teams & supporters* – *Pilot Room*
**Note: parents and friends wishing to purchase a
lunch ticket may do so at Bay Bowl Central*
- Noon Single-elimination rounds begin
*Match schedule and room assignments will be posted
at Bay Bowl Central*
- 2 p.m. Trophy rounds begin
Harbor Room
- 3:15 p.m. Awards ceremony directly follows the last competition
round

Immediately following the end of the awards ceremony - official photos to be taken of the winning teams.

TEAM INFORMATION

Liberty High School (A)

Eldersburg, MD

Coach: Beth Schap

Team: Jake Filomena

Abbi Koenigsmark

Kaya Holmes

Ryan Burrows

Josh Kelly

Montgomery Blair High School (B)

Silver Spring, MD

Coach: Angelique Bosse

Team: David Wu

Noah Weinstein

Elliot Kienzle

Laura Cui

Anish Senapati

State College Area High School (B)

State College, PA

Coach: Susan Braun

Team: Adelle Chen

Emily Wang

Erica Mi

Max Katsouros

Wayne Zhao

Liberty High School (B)

Eldersburg, MD

Coach: Deb Mathias

Team: Kyle Sheet

Julia Wroblewski

August Barquin

Littany Loughran

Alicia Rivers

Newark Charter School (A)

Newark, DE

Coach: Tami Lunsford

Team: Hannah Cooper

Charmy Patel

Emily Dorrell

Max Roberts

Lindsay Feldmann

Thomas Jefferson High School for Science & Technology (A)

Washington, DC

Coach: Lisa Wu

Team: Jennifer Baily

Katherine Barbana

James Ma

Madeline Old

Richard Pan

Lower Dauphin High School

Hummelstown, PA

Coach: Ron Yerger

Asst. Coach: Sherri Coonelly

Team: Owen Coonelly

James Rodgers

Emily Scholfield

Michelle Yohe

Kelly Barr

Newark Charter School (B)

Newark, DE

Coach: Holly Ariff

Team: Addie Morgado

Ashley Logue

Nawel Hamroun

David Neyman

Nick Parks

Thomas Jefferson High School for Science & Technology (B)

Washington, DC

Coach: Shawn Stickler

Team: Stephan Seo

Mark Kurapatti

Mark Putnam

Aarushi Tripathy

Timothy Lou

Montgomery Blair High School (A)

Silver Spring, MD

Coach: Tran Pham

Team: Lara Shonkwiler

Emma Jin

Alex Miao

James Vinson

Juliana Lu-Yang

State College Area High School (A)

State College, PA

Coach: Sheila Abruzzo

Team: Connor Cai

Kristine Lai

Erica Kuo

Evelyn Kuo

Jasmine Cao

Yorktown High School

Washington, DC

Coach: Curt Dorman

Team: Scott Kilmer

Samuel Rabin

Ben Stoffel

Joshua Rosenblatt

Harrison Schaff

VOLUNTEERS

2017 CBB Coordinator

Christopher Petrone, Delaware Sea Grant Marine Advisory Service/Univ. of Delaware

Univ. of Delaware

Luci Angeline
Molly Ashur
Dr. Jennifer Biddle
Corie Charpentier
Dawn Davin
Stephanie Dohner
Irv Eberhart
Joe Gradone
Ray Graff
Chris Grasso
John Hanson
Gretchen Johnson
Lane Johnston
Carol Kitchen
Jon Kitchen
Janis Lopez
Dr. Deepak Nanjappa
Katy O'Connell
Dr. Matt Oliver
Karen Roberts
Yuechen Shi
Danny Trooper
Dr. Bill Ullman
Kristin Yoshimura
Rosa Leon Zayas

DE Sea Grant Marine Advisory Service / UD

Dr. Wendy Carey
Lisa Dorey
John Ewart
Jim Falk
Ed Lewandowski
Lisa Tossey

Beebe Healthcare

Jill Petrone

Bureau of Safety and Environmental Enforcement

Dr. Kelly Kryc

Chesapeake Bay Program

Rachel Dixon

Delaware Department of Natural Resources & Environmental Control

Dr. Christopher Main

DOI/Bureau of Ocean Energy Management

Dr. Mary Boatman

George Mason University

Saif Khan
Zubair Sahi

HP Environmental, Inc.

Dr. Bill Kilpatrick

Johns Hopkins University

Joseph Federico

Johns Hopkins University / Applied Physics Lab

Dr. Wayne Sternberger

Maryland Dept. of Natural Resources

Becky Thur

Mid-Atlantic Renewable Energy Coalition

Dr. Heather Thomson

National Park Service

Ursula Lemanski

National Sea Grant Office

Susan Holmes

Newark Charter School

Brenda Dorrell

NOAA

Topher Holmes

Penn State University

Janine Mistrick

Competition Rules Overview

The Chesapeake Bay Bowl follows the official rules of the National Ocean Sciences Bowl (www.nosb.org). The following overview should help spectators follow the competition, but not all rules are presented here.

Officials Roles

- **Moderator:** Asks the questions
- **Science Judge:** Answer acceptability
- **Timekeeper:** Keeps the match clock
- **Scorekeeper:** Tallies team scores
- **Rules Judge:** In charge of procedure
- **Team Challenge Judge:** Grades TCQs

Players

Each team consists of four or five students: one captain, three players, and one alternate (optional). At the end of each segment, the team's alternate player may rotate in.

Types of Questions

There are two “buzzer question” segments per match. In the buzzer segment there are:

- **Toss-up questions** - Must buzz in to answer. No consultation among players.
- **Bonus questions** - Given after a correct toss-up. Teams may consult on bonus questions, but only the team captain may give the answer.

Team Challenge Questions - Written, short essay questions presented between buzzer segments. There will be two TCQs at the segment. Consultation allowed.

Answers

Responses to multiple choice questions can be the letter (W, X, Y, Z) or the word answer, exactly as specified. Anything else is unacceptable. The first answer stated is the one that counts.

If a player buzzes in before the moderator has completely read the question:

The moderator recognizes the player and the player answers the question. If the answer is unacceptable, the team loses four points and the question is read to the opposing team. If the answer is acceptable, the team gets four points and the chance to answer a bonus question. If a player “blurts” an answer without being recognized, their team loses its turn.

Timing

- After toss-up question is read: five seconds to buzz in.
- From being recognized to answer: three seconds.
- After bonus question is read to answer: 20 seconds.
- For TCQ: two to five minutes.

Points

- Toss-up question: Four points
- Bonus question: Six points
- Interrupt, recognized, but answer not acceptable: Four points are deducted.
- Blurt, unrecognized: Zero points and team loses their chance to answer.
- TCQ: Zero to 20 points (partial credit possible)

Challenges to Rules or Scientific Answers

Players (not audience members, alternate players or coaches) may challenge a ruling on toss-up or bonus questions, but only before the moderator begins reading the next question. The time keeper stops the clock, officials may confer and the appropriate judge makes a ruling. Officials rulings are final. There are no challenges on TCQs.

**A complete set of rules is available
at Bay Bowl Central.**

Team Divisions

Atlantic Division

T1: Montgomery

Blair A

T2: Liberty A

T3: Yorktown

T4: Newark Charter B

Pacific Division

T5: Thomas

Jefferson A

T6: Lower Dauphin

T7: Liberty B

T8: State College B

Arctic Division

T9: State College A

T10: Newark Charter A

T11: Montgomery

Blair B

T12: Thomas Jefferson B

Round Robin Scoring

Win = 2 points

Tie = 1 point

Loss = 0 points

Competition Structure

After three Round Robin rounds (before lunch), scores will be tallied to determine the seeding for the Single-Elimination Rounds (after lunch). The top team from each division will be seeded #1-3, depending on their total Win/Loss points, and then Total Points Scored. The fourth seed will be a Wild Card team who has the fourth highest Win/Loss points, then Total Points Scored. The top four teams will be given a bye directly to the Quarterfinal Round. Seeds #5-12 will play-in to the Quarterfinal Rounds.

Round-by-round scores, seeding information, and tournament bracket will be posted at Bay Bowl Central in the Harbor Room lobby.

The awards ceremony will follow the final game and will be held in the Harbor Room. Teams MUST ATTEND the awards ceremony to receive prizes and awards.

Match Guide

Round Robin: Rounds 1, 2, & 3; Matches 1-18

Pigtail/Play-in: Round 4; Matches 19-22

Quarterfinals: Round 5; Matches 23-26

Semi-final: Round 6; Matches 27-28

Consolation (determines 3rd & 4th places): Round 7; Match 29

Championship (determines 1st & 2nd places): Round 8; Match 30

Match Time, Room, and Teams & Officials Assignments

Round Robin	Harbor 1	Pilot	Schooner	Lighthouse	Harbor 2	Windjammer	Teams Eliminated
9:00 AM Round 1 Matches 1-6	1 State Coll A Newark A	2 Yorktown Newark B	3 TJ A L. Dauphin	4 Liberty B State Coll B	5 Mont Blair A Liberty A	6 Mont Blair B TJ B	None
9:45 AM Round 2 Matches 7-12	7 Newark A TJ B	8 TJ A Liberty B	9 Mont Blair A Yorktown	10 Liberty A Newark B	11 L. Dauphin State Coll B	12 State Coll A Mont Blair B	None
10:30 AM Round 3 Matches 13-18	13 TJ A State Coll B	14 L. Dauphin Liberty B	15 State Coll A TJ B	16 Newark A Mont Blair B	17 Liberty A Yorktown	18 Mont Blair A Newark B	None
11:15 AM LUNCH	Teams: Lunch in Pilot Room						
Officials: Lunch in Schooner Room Seeding for Elimination Rounds: CBB Central							
Elimination Rounds	Harbor 1 (undivided)	Pilot	Schooner	Lighthouse	Harbor 2	Windjammer	Teams Eliminated
12:00 PM Round 4 Matches 19-22	19 #9 v #8	20 #12 v #5	21 #10 v #7	22 #11 v #6			L19, L20, L21, L22
12:35 PM Round 5 Matches 23-26	23 #1 v W19	24 #2 v W21	25 #3 v W22	26 #4 v W20			L23, L24, L25, L26
1:10 PM Round 6 Matches 27-28	27 W23 v W26	28 W24 v W25					All teams move to trophy rounds
1:45 PM	Break						
Trophy Rounds - begin at ~2:00 PM in the Harbor Room							
All competitors are asked to attend all rounds and the Awards Ceremony							
2:00 PM Round 7	Match 29 (Consolation): L27 v L28 Winner = 3rd Place & Loser = 4th Place						
2:35 PM Round 8	Match 30 (Championship): W27 v W28 Winner = 1st Place & Loser = 2nd Place						

TRACK YOUR TEAM

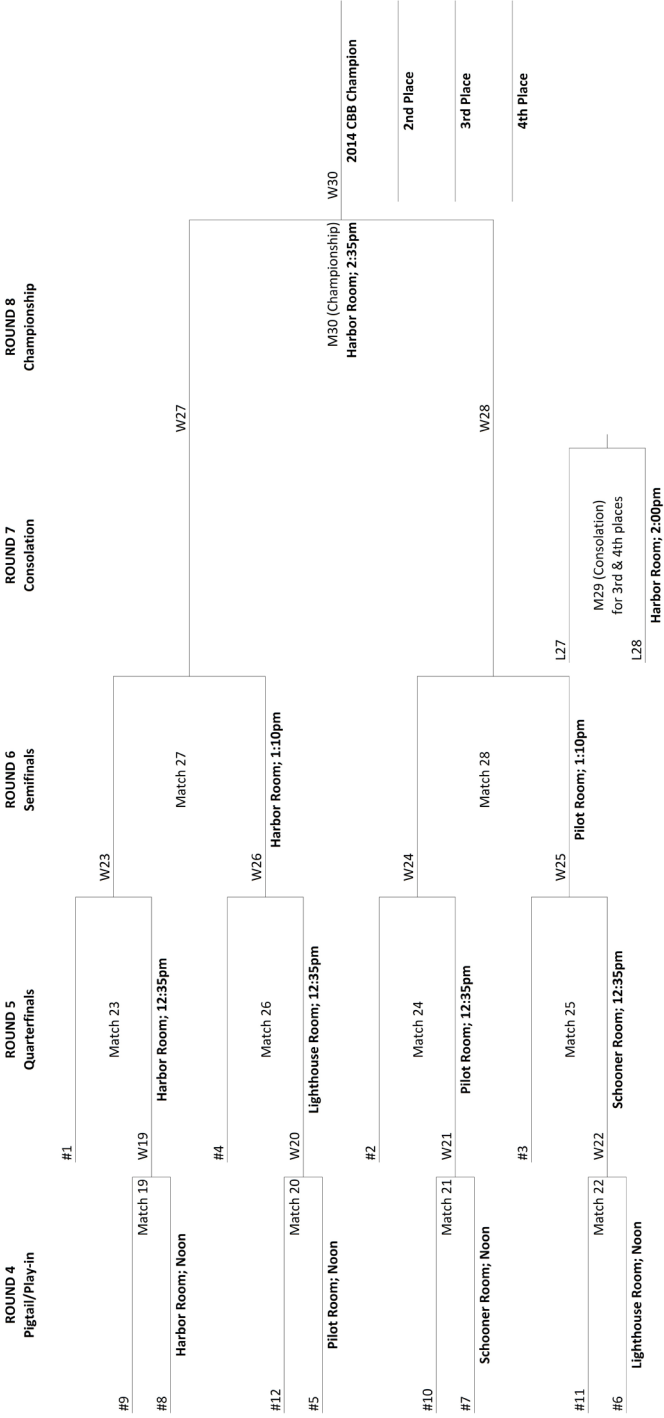
School	Round 1		Round 2		Round 3		Total Score	Total W/L/T Pts	Seed
	Score	W/L/T Points	Score	W/L/T Points	Score	W/L/T Points			
Liberty A									
Liberty B									
Lower Dauphin									
Montgomery Blair A									
Montgomery Blair B									
Newark Charter A									
Newark Charter B									
State College Area A									
State College Area B									
Thomas Jefferson A									
Thomas Jefferson B									
Yorktown									

W = 2 points

Tie = 1 point

Loss = 0 points

SINGLE ELIMINATION BRACKET



About the National Ocean Sciences Bowl & the Consortium for Ocean Leadership

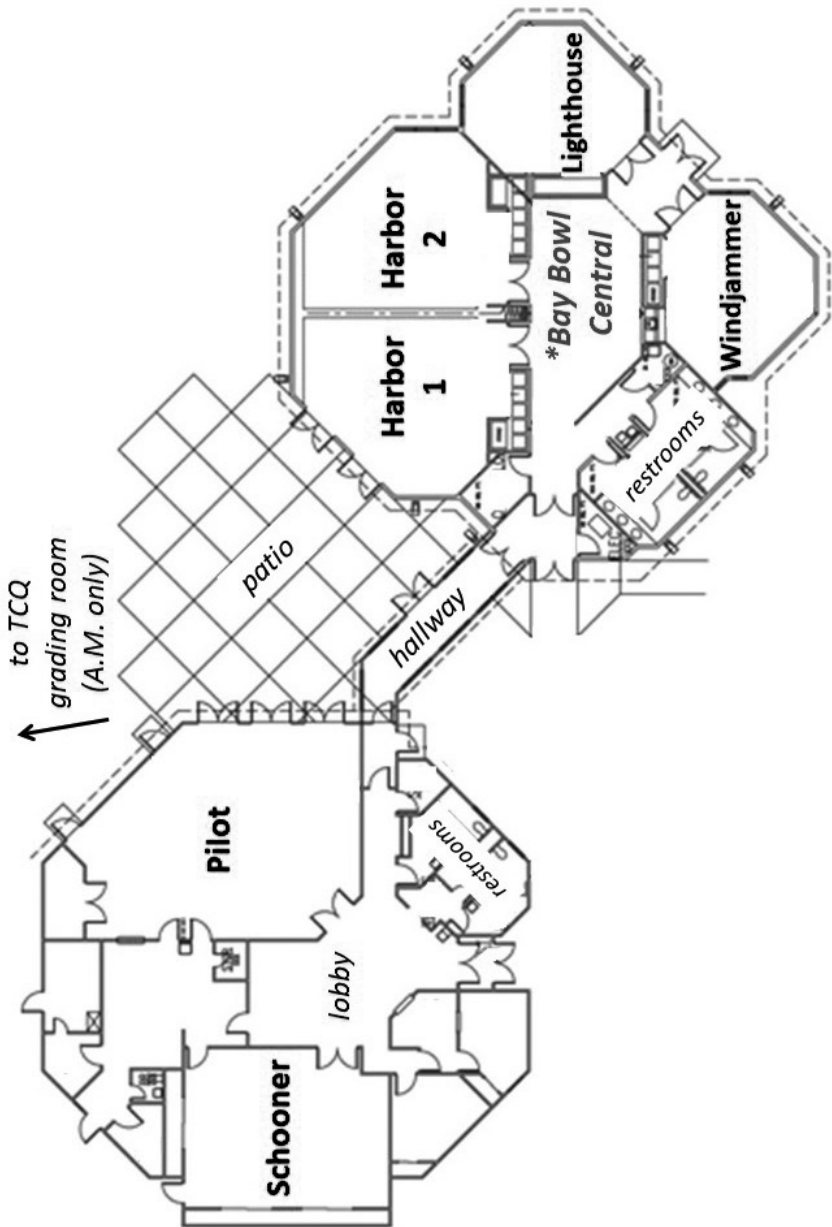


The first NOSB competition was launched in 1998 by the Consortium for Oceanographic Research and Education (CORE) to further its mission of supporting and expanding ocean sciences education during the International Year of the Ocean.

In 2007, CORE merged with the Joint Oceanographic Institutions to form a new organization, the Consortium for Ocean Leadership (COL). Representing over 100 of the nation's leading public and private oceanographic institutions, universities, industries and aquariums, COL's missions to advance research, education, and sound ocean policy. The Consortium office in the District of Columbia hosts the NOSB national headquarters and coordinates the annual national finals competition.

Designed to inspire and challenge high school students, the NOSB and the 25 regional competitions test competitors knowledge of the marine sciences. Each match pits two teams of four students in an academic quiz-bowl format. Competitors use a buzzer system to respond to rapid-fire multiple choice and short answer questions read by a moderator. Additionally, teams work collectively to produce written answers to complex analytical questions called Team Challenge Questions (TCQs).

VIRDEN CENTER MAP



UD College of Earth, Ocean, and Environment



College of Earth, Ocean,
& Environment

Since the college's founding in 1970, the administration, faculty and researchers at University of Delaware's College of Earth,

Ocean, and Environment (CEOE) have sought to create one of the preeminent institutions with earth, ocean, and environmental programs in the nation.

The 2006 union with the UD's Department of Geological Sciences and the 2009 union with the Department of Geography added the critical component of earth systems to the college's work and furthered its quest for excellence in the field.

Through these departments and the School of Marine Science and Policy, CEOE brings the latest advances in technology to bear on both teaching and conducting ocean, earth, and atmospheric research.

Delaware Sea Grant



Since the University of Delaware was designated the nation's ninth Sea Grant College in 1976, Delaware Sea Grant's goal has been to promote the wise use, conservation, and management of marine and coastal resources through high-quality research, education, and outreach activities

that benefit the public and the environment.

Currently, Delaware Sea Grant is conducting research in priority areas ranging from seafood safety to coastal hazards, preparing the next generation of environmental leaders through hands-on research and educational activities, and sharing trustworthy information on coastal topics with people from all walks of life.

Visit www.ceoe.udel.edu and www.deseagrant.org for more information about CEOE and Delaware Sea Grant's programs and facilities.

Hugh R. Sharp Campus

The Hugh R. Sharp Campus serves as the research and teaching base for faculty in marine biosciences and oceanography. The 62-acre campus comprises offices, classrooms, two primary laboratories, a meeting and conference facility, a fully equipped modern library and electronic meeting facilities.

The harbor is home to state-of-the-art research vessels, including the 146-foot flagship, the *R/V Hugh R. Sharp*. The Lewes campus is also home to a 2-megawatt wind turbine that powers the campus (with surplus) from September to May.



Connect with us to learn about
'Science Serving the Delaware Coast'!

Find us on social media:
DESeaGrant

Visit us online:
deseagrant.org



SPONSORS

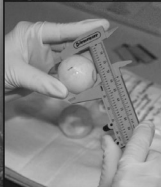


College of Earth, Ocean,
& Environment





NATIONAL OCEAN
SCIENCES BOWL®



Photos courtesy of NOAA

**Interested in pursuing a
career in the ocean sciences?**

Apply for a National Ocean Scholarship!

The **National Ocean Scholar Program** offers tuition assistance to rising college freshman planning to major in an ocean science field.

To be eligible, students must:

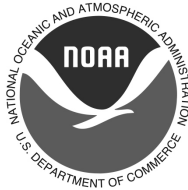
- Have participated in the National Ocean Sciences Bowl (NOSB®) or the NOSB Living on the Ocean Planet video contest during high school
- Be graduating from high school this year
- Be planning to pursue a post-high school degree in a marine or ocean science field this coming fall

**Application materials are available
online at www.nosb.org.**

For more information or questions please contact
Ocean Leadership at nosb@oceanleadership.org.



2016 - 2017 SPONSORS



SCHWAB CHARITABLE FUND
MADE POSSIBLE BY THE GENEROSITY OF
WENDY & ERIC SCHMIDT

DEERBROOK
CHARITABLE | TRUST



BOEM
BUREAU OF OCEAN ENERGY MANAGEMENT

EASTMAN



LOCKHEED MARTIN

**WELLS
FARGO**

NOSB is a program of the Consortium for Ocean Leadership

Presented by the University of Delaware
College of Earth, Ocean, and Environment and
the Delaware Sea Grant College Program



Sunday, Oct. 1, 2017

11 a.m. to 5 p.m.

**UD Hugh R. Sharp Campus
Lewes, Delaware**



Join us ...

for a free family-friendly celebration of the sea!

**Touch tanks • Children's activities • Research demonstrations
Crab cake cook-off • Live music • Ship tours • Much more!**

#DECoastDay

www.decoastday.org



1-0117-56-200