

Chesapeake Beach

Oyster Cultivation Society



CBOCS 5th Anniversary Annual Meeting

WELCOME

PLEASE SIGN

INTRODUCTIONS



CBOCS Missions

PRIMARY

Host Oyster Spat on Shell for 1 year

PARALLEL

Educate youth

Monitor water quality

Outreach to community

Enhance Chesapeake Beach Railway Trail



CBOCS Accomplishments

Formed 2011, 5th year in operation, 120 volunteers

Installed 30 BOCS Oyster Cages in Fishing Creek to raise oysters from spat to 1 year olds (plus another 30 MGO cages)

Placed 400,000 juvenile oysters on Old Rock Reef

Hosted 3200 Calvert County Students on Field Trips

Partnered with Maryland Growing Oysters program

CBOCS is endorsed and supported by Chesapeake Beach Mayor Wahl, Calvert County Commissioners, Calvert County School System, Delegate Fisher and Senator Miller and Chesapeake Beach Residents



2015 Activities and Accomplishments

Outreach Presentations

Oysterquarium Construction

Oysterquarium Operation

Mosquito Repellent Garden

Oyster Planting in Bay

Oyster Spat Counting

Oyster Planting in Creek

Reef Ball Deployment



2015 Activities and Accomplishments

Martin House

Bat Boxes

5th Grade Field Trips

Oyster Christmas Tree

Smart Board

Oyster Winterizing

Bay Wise Certification



Preview of 2016 Activities

Outreach Presentations
Pollinator Garden and Hotel Construction
Pollinator Garden Planting
Mosquito Repellent Garden Planting
Oyster De-winterizing
Oysterquarium Operation
Oyster Planting on reef
Oyster Planting in creek
Reef Ball Manufacturing
Reef Ball Deployment



Preview of 2016 Activities

5th Grade Field Trips

Oyster Christmas Tree

YOUR IDEAS



Outreach Presentations John Bacon

16 Presentations – 379 attendees

Captain Avery -2, Retired Government Employees – 2, Herrington Harbor Sailing Association, Bay Side History Museum – 2, MGO Gardeners, Fairfax Virginia School, Northeast Community Center, CHESPAX Annual Meeting, Fairview Library, Southern Anne Arundel High School, Citizens Advisory Committee of Chesapeake Bay Program, Bowie High School

Chesapeake Beach Town Council Meetings – 12

Chesapeake Beach Easter Festival – A lot of people

Chesapeake Beach Stars and Stripes Festival – A lot of people

Presenters – John, Terry, Amenda, Dennis, Theresa, Bob, Ron

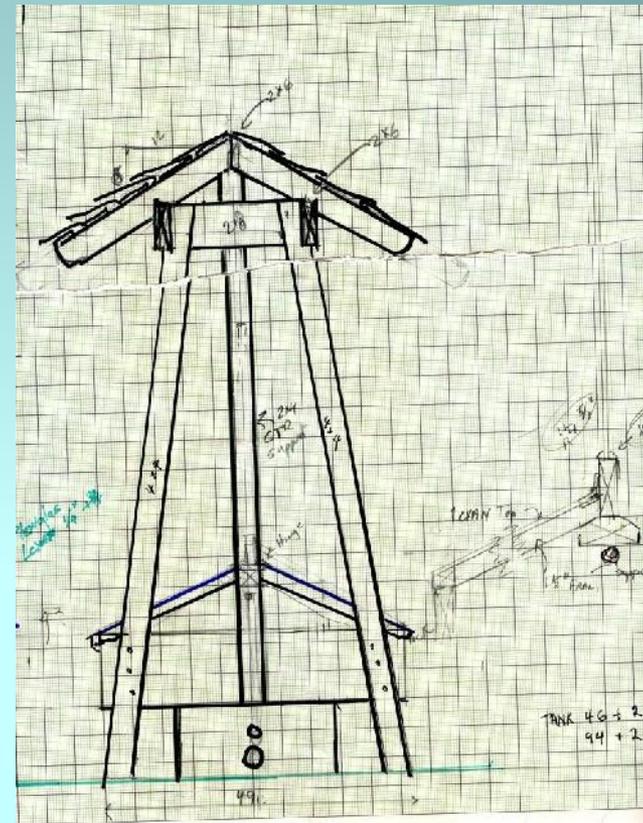


Oysterquarium Construction

Larry Ringgold

Original Design End View

Original Design Side View



Oysterquarium Construction

Larry Ringgold

In Construction

In Construction



Oysterquarium Construction

Larry Ringgold

Ready for Delivery



On Site



Oysterquarium Operation Amenda and Dennis Brown

Clean Oysters on Frames



Oysters on Frames Under Cover



Oysterquarium Operation Amenda and Dennis Brown

Oyster Clean up Crew

Oysters under Plastic



Oysterquarium Operation Amenda and Dennis Brown

Oysterquarium

Cleaning Oysters



Mosquito Repellent Garden

Nancy Feuerle

First Frame Unloading



Future Gardeners



Mosquito Repellent Garden

Nancy Feuerle

Second Layer on Box



Lining the Box



Mosquito Repellent Garden

Nancy Feuerle

Adding the Soil



Ready to Plant



Mosquito Repellent Garden

Nancy Feuerle

Volunteers Planting

Lorax Club from Northern High



Mosquito Repellent Garden

Nancy Feuerle

Finished Garden in May

Bench Donated by Bob
Carpenter



Mosquito Repellent Garden

Nancy Feuerle

Beginning to Grow in June

Merrigold Caught in the Act



Mosquito Repellent Garden

Nancy Feuerle

Merrigold's Dinner

Mid Midsummer in July



Mosquito Repellent Garden

Nancy Feuerle

Brochure Side 1



Our purpose is to show that anyone can grow some of these mosquito repellent plants next to their own front door or on a small balcony or patio. We urge you to try, thereby reducing the use of chemical deterrents.

HELP KEEP WATERWAYS AND OUR CHESAPEAKE BAY CLEAN.

Some other possible plants not shown are

- Basil
- Lemon Balm
- Lemon Verbena
- Marigolds
- Tansy
- Citronella Grass

Besides being pest deterrents, all plants shown here also attract many beneficial pollinators such as bees and butterflies.

All photos used in this brochure from Wikipedia.

Much information is available from many internet sources on the preparation and use of these plants for mosquito repellent products you can prepare in your kitchen.

REMEMBER TO USE CARE IN TRYING ANY PLANT REMEDY.

MOSQUITO REPELLANT PLANTS



Brochure Side 2

MOSQUITO REPELLANT PLANTS



Bee Balm



Chives and/or garlic



Lemon Thyme



Catmint



Floss Flower



Mint



Catnip



Lavender



Rosemary



Oyster Planting in Bay Jay Berry

August 23, 2015 Abner's Boat Yard
Cages Coming from Trail

30 CBOCS Cages Being Lifted



Oyster Planting in Bay Jay Berry

Fitting Cage into Unloading Frame



Unloading into Tubs



Oyster Planting in Bay Jay Berry

Tubs Waiting to go to Bay



Leaving the Dock



Oyster Planting in Bay Jay Berry

Emptying Tubs at Old Rock Reef



Scraping Cages



Oyster Spat Counting Melanie Crowder

Spat Counters at Work



Checking the Next Oyster



Oyster Spat Counting Melanie Crowder

Making Sure all Spat are Counted



Become a Spat Counter

Spat Counting is Essential to Quantify Survivability of Oysters Planted in Bay.

Happens June 11 at Abner's Boat yard and September 17 at Marina West.

On the Job Training Available



Oyster Planting in Creek Jay Berry

September 12, 2015 Marina West
Oyster Spat Bags from MGO

CBOCS and Public Works
Personnel Unloading Spat Bags



Oyster Planting in Creek Jay Berry

Spat Bags into Loading Ramp



Cages into Loading Ramp



Oyster Planting in Creek Jay Berry

Loading Spat into Cages



Cages Under Trail at 3rd Rest Stop



Reef Ball Deployment Bob Munro

April 1, 2015

A Truckload of Reef Balls

The Delivery Vehicle



Reef Ball Deployment Bob Munro

Transfer the Reef Balls



Load up the Cockpit

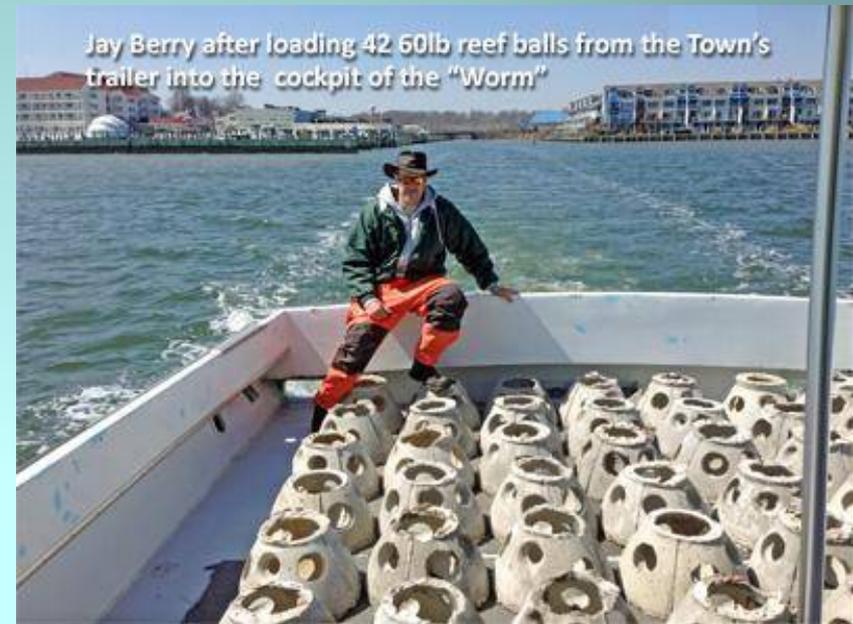


Reef Ball Deployment Bob Munro

Quite a Load (2520 lb)



Out to the Reef



Reef Ball Deployment Bob Munro

Marker at Old Rock Reef

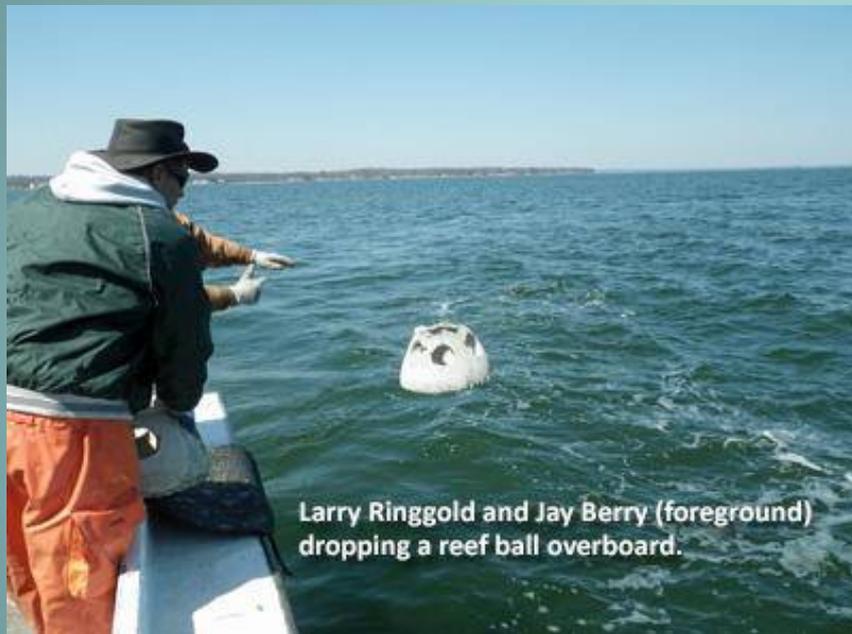


Circle of Deployment



Reef Ball Deployment Bob Munro

Look Out Below!



Larry Ringgold and Jay Berry (foreground) dropping a reef ball overboard.

Air Bubbles...



Note the air bubbles rising from recently deployed reef balls.



Purple Martin House David Darling

Martin House Mounted on Trail



Purple Martin Facts

Purple Martin Colony

Early April to Early August

Nest in Multi Family House

Eat Mosquitoes and Bugs

House Designed and Constructed by David Darling

Mounted by Chesapeake Beach Public Works Dept.



Bat Boxes John Bacon

2 Single chamber
Bat Boxes on trail



Bat Facts

Eat Mosquitoes and Bugs

Bats Fly at Night – Sleep in the Day

Bat Box Designed by Bat Conservation International

Bat Box Built by John Bacon

Bat Box Mounted by Chesapeake Beach Public Works Dept.



5th Grade Field Trips Ron Draper

Clean Oysterquarium



Set up Stations



5th Grade Field Trips Ron Draper

Orientation



Water Monitoring



5th Grade Field Trips Ron Draper

Using the Meters



Now See this Critter



5th Grade Field Trips Ron Draper

Salinity Measurement

Measure



5th Grade Field Trips Ron Draper

Inspect



What did you learn



Oyster Christmas Tree Mary Butz

1st year at Festival of Trees



3rd year at Town Hall



Smart Board John Bacon

Program to generate SMART BOARD Module
Titled "Treasures of a Tidal Marsh"

CSM online class for John, Amenda and Ron

Meeting with Calvert County School

Review of all similar modules available

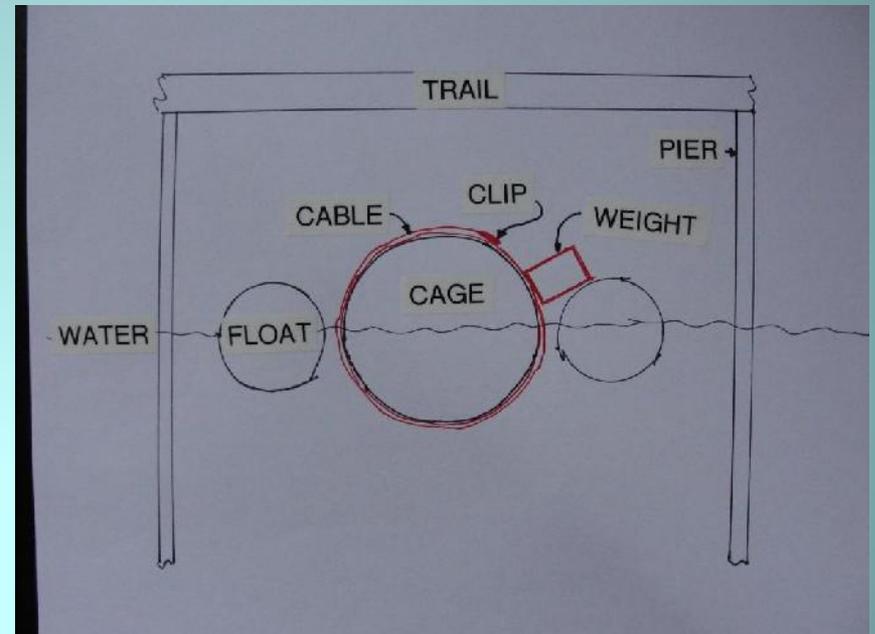
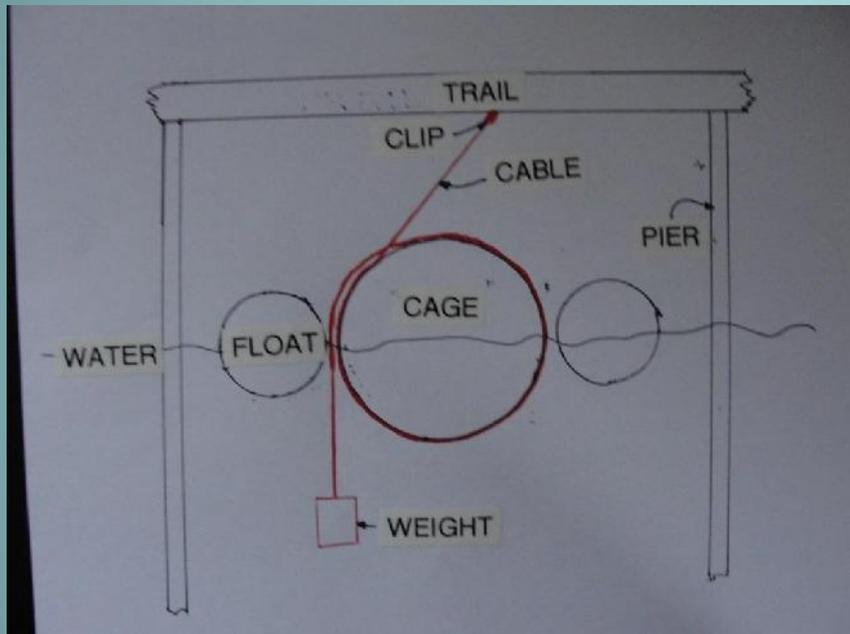
Decision to re-evaluate project as all information is
already available to teachers



Oyster Winterizing Jay Berry

December 8, 2015

3rd Rest Stop on Trail



Bay Wise Certification Melanie Crowder

Master Gardeners
Certifying

Small Sign



Bay Wise Certification Melanie Crowder

Large Sign Mounted on Trail
at the trail Head



Bay Wise Certification

Certification by Calvert
County Master Gardeners
Bay Wise Yard Stick
Get Your Property Certified
Contact Melanie Crowder



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Outreach Presentations

John Bacon

Number and most dates unknown

Probably 15+

First is Feb 17 – Master Gardeners

Need individuals who want to meet
with people and promote CBOCS



Pollinator Garden and Hotel Construction Larry Ringgold

Pollinator Hotel Kings
Landing

Pollinator Hotel



Pollinator Garden and Hotel Construction Larry Ringgold

Pollinator Hotel



Schedule and Participants

Design and Construction by
Larry Ringgold and others
Population by CBOCS
members, Master Gardeners,
and Middle school students
Send any ideas to Larry



Pollinator Garden Operation

Melanie Crowder

Pollinators



Pollinator Garden Location



Mosquito Repellent Garden

Nancy Feuerle

New Planting in Late April

Watering and Trimming Throughout
Summer

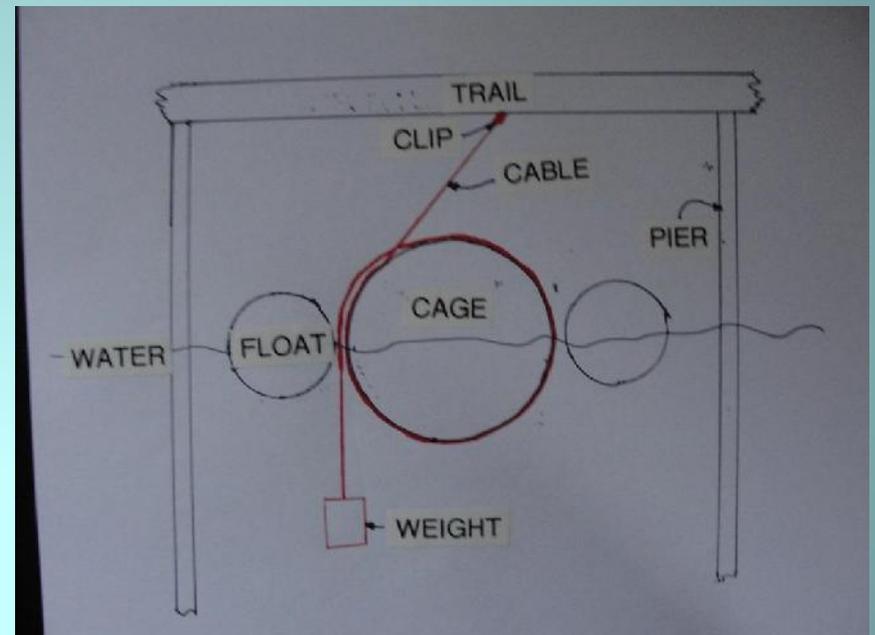
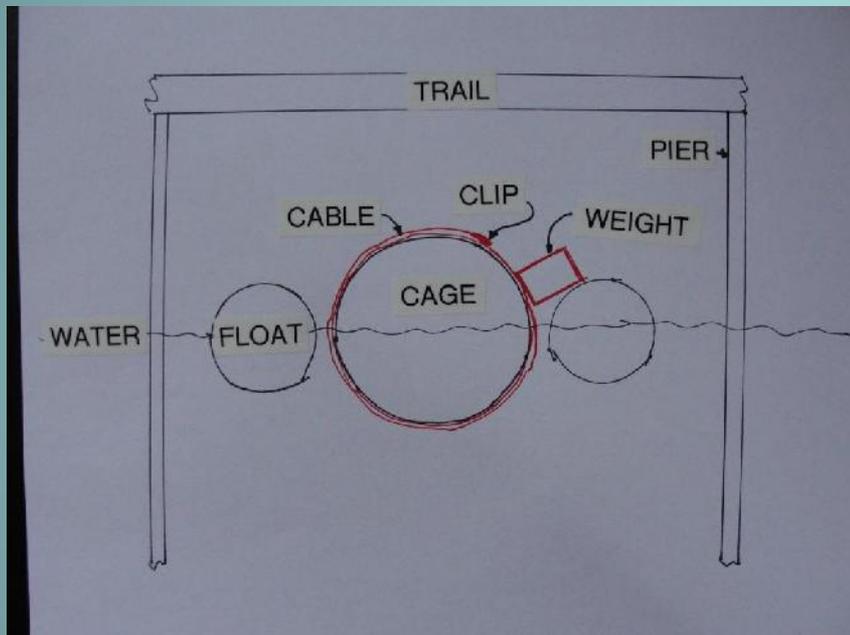
New Brochure

Enjoy the Garden and Bench



Oyster De-winterizing Jay Berry

Friday March 18, 2016 10 AM 3rd Rest Stop on Trail



Oyster Planting on Reef Jay Berry

Saturday June 11, 2016

10 AM – 1 PM

Abner's Boat Yard

Pizza



Oyster Planting in Creek Jay Berry

Friday September 16, 2016

Saturday September 17, 2016

10 AM – 1 PM

Marina West Boat Ramp

Pizza



Reef Survey Bob Munro

Mid-December 2015

Dive on Old Rock Reef



Reef Survey Bob Munro

After 8 ½ Months ...



Lots of Growth ...



Reef Survey Bob Munro

Reef Structure and associated critters



Reef Ball Manufacture Ron Draper

April – June 1016

Wednesdays and Saturdays 9 AM

Chesapeake Village Water Tower

Need 48 more for reef expansion

Manufacture 3 per day

Join in the "fun" for 1 hour / day



Reef Ball Manufacture Ron Draper



5th Grade Field Trips Ron Draper

September to November 2016

Chesapeake Beach Railway Trail

Dates to be determined

Come and work with the 5th grade students



Oyster Christmas Tree Mary Butz

November 19 to

December 22, 2016

Town Hall Atrium

Come and enjoy the oysters



YOUR IDEAS AND COMMENTS

