

MARE Habitat Workshops 2008-2009



MARE Habitat Workshops offer new and veteran teachers the opportunity to work with colleagues at their grade level to increase their confidence with science content related to a specific marine habitat. Teachers gain familiarity with important science concepts, cutting-edge pedagogy, and the latest MARE curriculum materials.

In addition to learning about implementation of the whole-school MARE program, participants will engage in inquiry-based activities, practice a variety of teaching strategies, receive high-quality materials, and review a host of multimedia and resource materials to help them with their science teaching.

If interested, please give us a call at (510) 642-5008 or email spedemonte@berkeley.edu. We'd love to have you join us!

Registration fees for all workshops are \$115. This includes a continental breakfast, lunch and afternoon snack, as well as instructional materials and all applicable entrance fees. MARE offers a 10% discount if registering for three or more teachers per school

Ponds Habitat Workshop (Grades K and Pre-K)

Thursday, October 16, 2008

8:30 a.m. – 2:30 p.m. Lawrence Hall of Science and Tilden Regional Park, Berkeley

What makes a pond home unique? What does it take to live there? And what's so special about water anyway? These and other questions are explored in this introduction to pond habitats. We will model the MARE Kindergarten Ponds curriculum and follow up with a field trip to the pond of Tilden Regional Park in the Berkeley Hills. These and other questions are explored in this introduction to pond habitats. We will model the MARE Kindergarten Ponds curriculum and follow up with a field trip to the pond of Tilden Regional Park in the Berkeley Hills.

Rocky Seashore and Sandy Beach Habitat Workshop (Grades 1 and 2)

Thursday, February 5, 2009

9:30 a.m.—3:00 p.m. Sea Crest School and Pillar Point Harbor, Half Moon Bay

Have you ever walked on the ocean floor? You will when you join us to learn about these extreme ocean habitats. The sandy beach and tidepools at Pillar Point near Half Moon Bay will be our classroom as we discover the amazing life within these habitats. Please join us for this exciting MARE curriculum and fieldtrip workshop. In the morning, we will provide grade-and habitat-specific content; inquiry-based activities from the MARE Teacher's Guide integrating marine science with literacy, art and music; experience using MARE's online teaching tools; and opportunities to share strategies with other MARE teachers at your grade-

level. We'll spend the afternoon exploring these two extraordinary habitats. This is a great way to get yourself prepared to lead meaningful fieldtrips with your students.

Wetlands Habitat Workshop (Grade 3)

Wednesday, February 4, 2009

9:30 a.m.—3:00 p.m.

Bay Model and Bothin Marsh, Sausalito

Coastal wetlands — bays, estuaries, salt marshes, and lagoons — are special places where freshwater meets the salty ocean. They serve as ocean nurseries, storm sponges, water filters, and rest stops for birds. Please join us as we spend a day in the Bay Model classroom and in the field at Bothin Marsh exploring these valuable, sensitive and rapidly vanishing coastal ecosystems through the MARE curriculum.

Kelp Forest Habitat Workshop (Grades 4 and 7)

Date and Time TBD (October – December, 2008)

10:00 a.m. -4:00 p.m. Steinhart Aquarium, San Francisco

Gazing from shore at the gently swaying surface of a kelp forest canopy, it's difficult to imagine the activity below. But from holdfast to blade this algal forest is home to bizarre invertebrates and fish of every imaginable color, size, and form. It's also the unique home of the endangered, yet recovering, sea otter. Please join us as we explore themes of light and color underwater, fish adaptations, sea otters, and seaweed.

Open Ocean Habitat Workshop (Grades 5, 7, 8)

Tuesday, October 28, 2008

9:30 a.m.—3:00 p.m. Lawrence Hall of Science, Berkeley

The MARE Open Ocean curriculum includes themes of global interconnectedness of the oceans and the productivity that supports large animals of the seas. Please join us for this exciting workshop exploring the science content surrounding density, ocean currents, and animal adaptations, culminating in a squid dissection and calamari festival. Free admission to the Lawrence Hall of Science is included.

Open Ocean Whale Watch Sponsored by The Oceanic Society (Grade 5, but everyone welcome)

Date and Time TBD (January-March, 2009)

Gulf of the Farallones National Marine Sanctuary, San Francisco

The annual gray whale migration, one of the world's most magnificent and accessible wildlife spectacles, is underway. Each year approximately 15,000 of an estimated total population of 17,500 gray whales swim south from Arctic feeding grounds, en route to their Baja California breeding and calving grounds. From December through May, gray whales can be observed a few miles off California's shore, and whale watchers aboard Oceanic Society's naturalist-led Whale Watch boats have a unique vantage from which to view this incredible "parade." Please join the MARE staff for this exciting opportunity to dive into the world of the open ocean.

Islands Habitat Workshop (Grade 6, Grade 2 teachers also encouraged to attend)

Date and Time TBD (January or February, 2009)

Seymour Marine Discovery Center and Ano Nuevo State Park, Santa Cruz

Islands are often important resting and breeding places for birds and pinnipeds. Sharks, elephant seals, evolution and adaptation, and geology are just some of the topics to be explored during the Islands Habitat Workshop. Please join us for a morning habitat and curriculum workshop at the Seymour Marine Discovery Center at Long Marine Lab followed by an afternoon field trip to the spectacular northern elephant seal colony at Ano Nuevo State Reserve. This is an invaluable experience for teachers planning to lead field trips with their own students.



MARE Professional Development Workshop Series 2008-2009

REGISTRATION APPLICATION

Please complete one registration application per applicant. Registration is on a first-come, first-served basis. You will receive confirmation of your registration and a map to the workshop location. Registration **deadline is 10 days prior** to the date of the program. You may register by phone, mail, fax, or in person. PAYMENT may be made by single check, purchase order, VISA or MASTERCARD. ***Please do not send application without payment.***

Registration fees for all workshops are \$115. This includes a continental breakfast, lunch and afternoon snack, as well as instructional materials and applicable entrance fees. MARE offers a 10% discount if registering for three or more teachers per school.

I would like to attend the following workshop(s):

- Ponds Habitat Workshop (K and Pre-K)
- Rocky Seashore and Sandy Beach Habitat Workshop (Grades 1 & 2)
- Wetlands Habitat Workshop (Grade 3)
- Kelp Forest Habitat Workshop (Grades 4 & 7)
- Open Ocean Habitat Workshop (Grades 5, 7, & 8)
- Open Ocean Whale Watch (Grade 5, but all welcome)
- Islands Habitat Workshop (Grades 6 and 2)

\$ _____ **Subtotal for habitat workshops** (\$115 x number of workshops; 10% discount when signing up three or more teachers per school)

For 10% discount, please list other teachers attending from your school:

Additional MARE Materials

Not included in workshop fee.

Teachers Guides @ \$60.00 each *(Please note the total number by grade level)*
 ___K, ___1, ___2, ___3, ___4, ___5, ___6, ___7, ___8

Slide Sets @ \$35 each or digital @ \$10 each
 ___1, ___2, ___3, ___4, ___5, ___6, ___7, ___8

\$ _____ **Subtotal amount for materials**

\$ _____ **Tax** (BART District 8.75%, all others 7.25%)

\$ _____ **Total amount for Workshops + Materials**

\$ _____ **TOTAL ENCLOSED**

NAME (LAST, FIRST)		
HOME ADDRESS		
CITY	STATE	ZIP
HOME PHONE	WORK PHONE	
FAX	EMAIL	
SCHOOL NAME	SCHOOL ADDRESS	
DISTRICT	GRADE LEVEL(S) OR POSITION	
VEGETARIAN? (Circle one) Yes No		

Payment:

Check payable to "Regents of the University of California"
 Purchase order enclosed
 VISA MASTERCARD
 CREDIT CARD
 # _____ EXP. DATE _____
 CARDHOLDER'S NAME (please print)

CARDHOLDER'S SIGNATURE

Fax completed form with credit card information or purchase order to (510) 642-1055.

MAIL: Please do not send application without payment. Mail completed form with a single check, purchase order, or credit card information to:
University of California, Berkeley
MARE Program
Lawrence Hall of Science #5200
Berkeley, CA 94720-5200

Online:

The complete application for MARE Habitat Workshops can be downloaded as a PDF file from the MARE website. Go to www.lawrencehallofscience.org/mare and click on **Professional Development**.

Join our grade-level email lists for useful marine science news, teaching tips, and professional development opportunities (<http://www.lawrencehallofscience.org/mare/oiresources/implementation/emails.html>). You may also like to access our online resource database (<http://www.lawrencehallofscience.org/mare/resources>).

Cancellation and Refunds:

Ten days notice of cancellation is required to receive a refund, minus a 10% processing fee. You may transfer your registration to another teacher. Programs that do not meet the minimum required enrollment one week prior to the program date will be cancelled. You will be notified by phone if your program is cancelled. In this case, you may either transfer your enrollment to another available program or receive a full refund.

Interested in Ocean Immersion? Want more information on our professional development opportunities? Call us at (510) 642-5008