



# THE LITTORAL DRIFT

## NEWSLETTER OF THE FLORIDA MARINE SCIENCE EDUCATORS ASSOCIATION

FALL 2009

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### EDITOR'S NOTE

Submissions are always welcome! Please email pictures, articles, lesson plans and other items of interest to Laura at [diederick@si.edu](mailto:diederick@si.edu).

\*\*\*Portions of this article were submitted by David Godfrey, Caribbean Conservation Corporation; Charlie Pelizza, Archie Carr National Wildlife Refuge; Paul Tritaik, J. N. "Ding" Darling National Wildlife Refuge.

### CAPTAIN'S LOG - Leslie Sprague\*\*\*

What an awesome conference! 2009 was one of the best FMSEA conferences I've attended. Thanks go to both organizers and participants – everything was great. This year's conference at Mote Marine Lab was one of the most highly attended with 139 registered participants. We also raised a record amount of money in the silent auction – over \$1,900! The money raised in the silent auction funds educators' scholarships to attend the FMSEA conference, as well as other continuing education opportunities throughout the year, so many educators will benefit from this event.

The annual conference always energizes me with new ideas and new ways to get the message of marine conservation across to young people. With the June 16<sup>th</sup> celebration of World Sea Turtle Day in honor of Dr. Archie Carr's birthday (this year would have been his 100<sup>th</sup> birthday), I started thinking about how the "father" of sea turtle research and conservation spread his message around the world.

For many Florida residents, Archie's name is known primarily in association with the 20-mile stretch of coastline from Melbourne Beach to Wabasso Beach, which was designated as the Archie Carr National Wildlife Refuge. The Archie Carr National Wildlife Refuge was established to protect the largest nesting population of loggerheads in the Western Hemisphere and the largest nesting population of green sea turtles in the United States. It contains important nesting beaches for leatherback sea turtles as well.

Few people fully understand who Archie

was or why he was so important to the world of conservation. Dr. Carr was a revered zoology professor at the University of Florida, the world's leading authority on sea turtles, a brilliant writer of scientific and popular literature, and an internationally acclaimed advocate for conservation. His knowledge of the world ecosystems remains legendary.

In 1937, Archie became the first person to receive a doctorate from the University of Florida's zoology department. In 1956, Dr. Carr published his award-winning book, "The Windward Road", which alerted the world to the plight of sea turtles and spawned a global movement for their protection.

His wife, Marjorie Harris Carr, was herself a distinguished conservationist. The Marjorie Harris Carr Cross Florida Greenway is named after Marjorie's legendary effort to stop the U.S. Army Corps of Engineers from digging a giant canal across Florida to connect the Atlantic and the Gulf.

It would be a fitting tribute for all of us to reflect, like Archie did, on the wonder of nature and the mystery of sea turtles. Pick up a book he wrote or read about him in "A Naturalist in Florida" or "The Man Who Saved Sea Turtles." But to truly honor Archie Carr, one need only take up the cause for protecting wildlife and wild places. With a little effort to darken the beach during nesting season (ending October 31), to support land and marine conservation efforts, and to support research and education, we can all pass along the message of marine conservation. Archie would be very proud.

# FMSEA REGION REPORTS

## North

The FMSEA North Region will be hosting an Aquatic Species Collection Certificate Workshop at the Marine Science Station on Saturday October 10th. A Continental Breakfast will be served at 8:45 with the workshop following at 9:00. An optional field experience will follow the lunch break with the staff at the Marine Science Station taking participants out to Mullett Key for a collection activity and/or Snorkeling. Cost for the workshop is \$25.00. Please register by emailing Hugh Adkins at [adkinsh@citrus.k12.fl.us](mailto:adkinsh@citrus.k12.fl.us).

The Marine Science Station has undergone extensive renovations including new boat docks, refurbished tower and rebuilt Museum/aquaria building. The staff invites all FMSEA members to stop by and see our updated facility.

Teachers at the Academy of Environmental Science in Crystal River have had a busy start to the 2009-2010 school year receiving several grants funding various studies in the river and estuary. Mr. Chuck Mulligan, Chemistry teacher at AES has received grant money to conduct a unit on Biodiesel. Mr. Mulligan's classes will be working closely with the staff of the Marine Science Station on the development and testing of biodiesel using engines housed at the MSS. The eventual goal is to power the MSS bus that transports Citrus County students with the waste cooking oil generated on site.

If any FMSEA North member has any news or information that they would like to share, please send it to me for inclusion in the next newsletter. - **Hugh Adkins**

## Northeast

Thank you to all participants from the Northeast region of FMSEA who attended the annual conference in Sarasota. What a great turnout we had!

As your new regional director, I'd like to introduce myself and start asking for your input. Our region is as strong as we make it so please let me know how FMSEA can be the best resource possible for you. Collecting workshops? Fun days? Networking opportunities? I can be reached at (904) 471-1111, ext. 112 or [trosenberg@marineland.net](mailto:trosenberg@marineland.net). Please don't hesitate to contact me for any reason.

In the meantime, please remember that FMSEA members receive 10% off all dolphin interactive programs at Marineland's Dolphin Conservation Center through December 31, 2009 using the promotional code "fmsea" when booking online at [www.marineland.net](http://www.marineland.net). Also, as I look at expanding the field trip opportunities for our local schools, I'd love your input as to how Marineland can serve your marine mammal education needs.

I look forward to working with you all. - **Terran Rosenberg**

## Southeast

After 6 years of membership in FMSEA, I find myself in the position of your area director. I am thrilled to be able to serve you with the mission of the organization, FMSEA. My personal involvement with environmental education spans 15 years as both an instructor and a Director of the Science Eye and the International Game Fish Association (IGFA). I bring that experience with me to this position and stand ready to help you in any way.

I believe strongly in networking among members, sharing techniques, information and ideas for hands-on teaching. Together, committed people like yourselves can make a difference in the health and perspective of our marine and freshwater systems and the transfer of that information to our population at large. I invite each of you to contact me with any ideas or projects we could work on together to accomplish this mission, as well as any field trip/activity ideas/suggestions that I can arrange for our region to enjoy. - **Dawn Miller-Walker**

## West Central

National Ocean Science Bowl National Championships will be in St. Petersburg! The National Ocean Science Bowl holds two regional competitions in Florida every year. This year University of South Florida Marine Science Department will host the National Ocean Science Bowl National championship in St. Petersburg April 24-25, 2010. The competition is a lot of fun, but it requires the assistance of many volunteers. I am recruiting FMSEA members to help with judging the competition. If you are interested in volunteering please contact Lauren Tyler at (813) 367-4017 or [tyler@flaquarium.org](mailto:tyler@flaquarium.org) if you would like to volunteer. - **Lauren Tyler**

## East Central

As the new Central East Region Director I plan on organizing various fieldtrips for members in our region throughout my term. If you have suggestions of places you would like to go or would like to volunteer to lead a trip out of your facility please let me know. I will work to organize the trip and recruit members. You can reach me at (321) 433-4490 or [Brandon.Smith@BrevardParks.com](mailto:Brandon.Smith@BrevardParks.com). I hope to meet with most of you on these trips. - **Brandon Smith**

## Southwest

A hearty congratulations to longtime FMSEA member and current FMSEA Historian **Carol Leonard**, recipient of the Florida Education Association's 2009 Teaching Excellence Award! As one of five finalists, Carol was treated to an awards dinner and received \$1000. Winners of this competitive award are selected each year from union members who

## REGION REPORTS...CONTINUED

are actively teaching and participating in union activities. Carol represents secondary teachers in Charlotte County on the Partnerships and Performance Council, an initiative that is made up of both administration and union members. Council members meet monthly to collaboratively address issues such as professional development and implementation of state mandates. Congratulations, Carol!

Mote Marine Laboratory's Education Division had an incredible field trip and summer camp season, setting record numbers in both areas. We also held several summer Behind the Science programs including a coastal clean-up, kayaking, collecting, and Gyotaku workshops. What projects/activities have your schools/facilities been working on? Send me updates and/or pictures for inclusion in the next newsletter. - **Tim Oldread**

**Editor's Note:** Good news? Moving on? Ideas or suggestions that members across the state could use? Please send your Regional Directors items of interest to be included in their quarterly reports.

## 2010 FMSEA Conference

### Changing Reefs: Corals on Acid

May 14-16, 2010 ♦ Key Largo, Florida

Watch for updates at  
[www.fmsea.org](http://www.fmsea.org)  
this fall!



## FMSEA 2009 CONFERENCE WRAP-UP - BY JIM WHARTON

**FMSEA 2009: Research and Education, Schooling Together**  
May 15-16, 2009 ♦ Mote Marine Laboratory

The annual conference of the Florida Marine Science Educators (FMSEA) was a tremendous success. The conference saw record attendance this year drawing 139 educators from classrooms, aquariums, parks and agencies all around the state.

This year's theme was in full evidence early with a Friday evening Keynote address by Mote's Founding Director and Research Scientist Emerita, Dr. Eugenie Clark. Field excursions were highlighted by an opportunity to join Mote's Sarasota Dolphin Research Program on a dolphin survey in Sarasota Bay. Saturday featured a dedicated session track with seven presentations by active Mote researchers. Teachers were thrilled to absorb bleeding-edge scientific findings, information years away from conventional science textbooks.



The 2009 conference took advantage of social media and Web 2.0 to connect with its participants like never before. Conference registrants could get up-to-the-minute schedule and logistics updates on their phone, via Twitter. Non-attendees could also use Twitter to follow the conference 'microblog' all weekend. Friday night's keynote address and a selection of sessions on Saturday were broadcast live via the internet. Those presentations are now archived and available for viewing by anyone. Finally, conference organizers and attendees could share their photos from the meeting on a photo-sharing website. If you're interested in checking out our Twitter feed, the archived presentations or the conference photos, please visit the following sites:

<http://twitter.com/fmsea>

<http://www.ustream.tv/channel/fmsea-2009>

<http://fmsea.shutterfly.com>

The conference closed with a keynote by best-selling writer Trevor Corson, author of *The Secret Life of Lobsters* and *The Story of Sushi: An Unlikely Saga of Raw Fish and Rice*. Longtime Mote Education Volunteer Toni Borman was awarded FMSEA's John Beakly Marine Educator of the Year Award.



# National Ocean Sciences Bowl (NOSB®)

## “Living on the Ocean Planet” Video Contest Rules

### Program Goal

The Consortium for Ocean Leadership's National Ocean Sciences Bowl (NOSB®) is hosting its second annual Living on the Ocean Planet video competition in partnership with the Census of Marine Life (CoML), the National Marine Educators Association (NMEA), and the Encyclopedia of Life (EOL). The goal is to showcase student-developed original videos that educate the general public about marine technology and address the Essential Ocean Literacy Principles. Regional winners will be selected and announced on April 1, 2010. A National winner will be announced at the 2010 NOSB Finals Competition in St. Petersburg, FL on April 23, 2010.

### Eligibility

- Eligible students must be enrolled in a high school (grades 9-12, for the 2009-2010 school year). **The video team can be comprised of any individual from within the school and does not need to include students involved in the NOSB academic competition.** A team that participates through a student support organization including private, parochial, and home schools is also eligible.
- Each team must have a coach who is either a teacher at the school or a community member who is active in school activities, and has been approved by the school principal or director of the afterschool program to lead this activity.
- All submitted videos will remain the property of the Consortium for Ocean Leadership and all entrants must allow NOSB permission to use their submission for public education.

### Submission Requirements

**Deadline: Monday, January 25, 2010 - 5:00PM EST.** Any materials postmarked after the deadline will be sent back to the team and will not be included in the competition.

### Submitting the Video

In order for a video submission to be eligible, the video team must submit the following items together to the National NOSB Office at the Consortium for Ocean Leadership:

1. NOSB Video Contest Entry Form (The entry form is available on the NOSB website: [www.nosb.org](http://www.nosb.org).)
2. Hard copy of the video (See the “Video Requirements” section of this document for more details.)
3. Please mail the entry form and video to:

**Consortium for Ocean Leadership  
NOSB Video Contest c/o Christine Hodgdon  
1201 New York Ave, NW, 4th Floor  
Washington, D.C. 20005**



# Entry Form

## National Ocean Sciences Bowl (NOSB®) Living on the Ocean Planet Video Contest

Title of Video Submission: \_\_\_\_\_ Length (min:sec): \_\_\_\_\_

Coach Name: \_\_\_\_\_

Coach Phone Number: \_\_\_\_\_

Coach Email Address: \_\_\_\_\_

Student Captain Name: \_\_\_\_\_

Student Captain Email Address: \_\_\_\_\_

Names of Additional Video Team Members: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

School Name: \_\_\_\_\_

School Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

I hereby agree to all Terms and Conditions as found in the 2010 NOSB Video Competition document and on the National Ocean Sciences Bowl website and associated links.

Coach Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Student Captain Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Please submit entry form to: **National Ocean Sciences Bowl**  
**NOSB Video Contest c/o Christine Hodgdon**  
**1201 New York Ave. NW, 4th Floor**  
**Washington, DC 20005**

Questions? Email Christine Hodgdon at [chodgdon@oceanleadership.org](mailto:chodgdon@oceanleadership.org)



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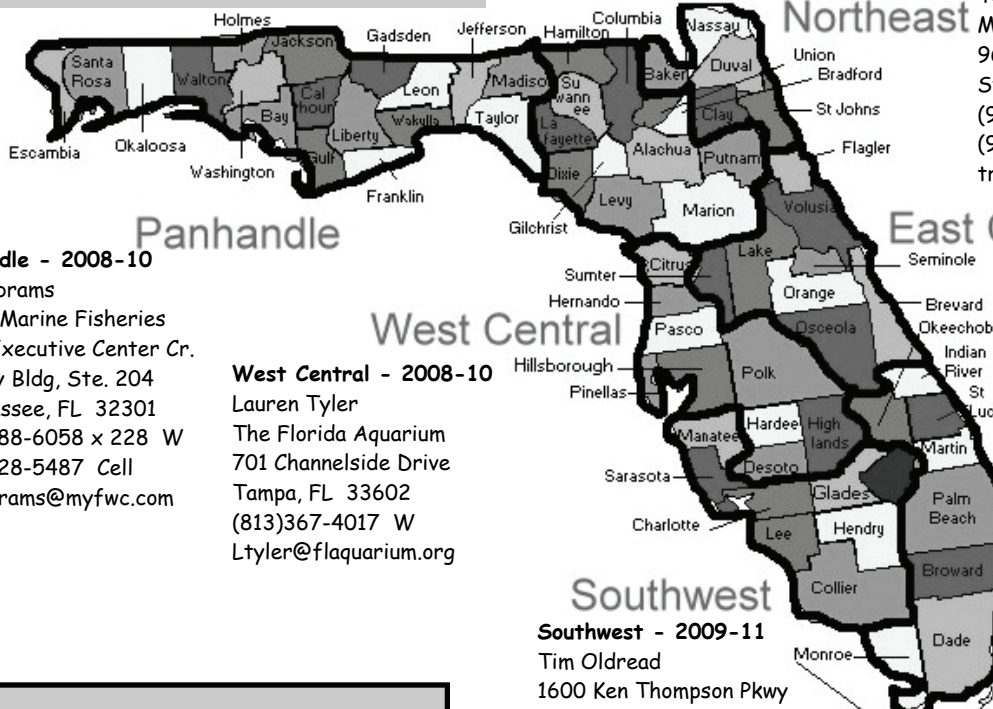
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Visit the FMSEA website at  
[www.fmsea.org](http://www.fmsea.org)



# Florida Marine Science Educators Association Membership Application

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Home Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Contacts: (Home) \_\_\_\_\_ (Work) \_\_\_\_\_

(Cell) \_\_\_\_\_ (Fax) \_\_\_\_\_

\*E-mail: \_\_\_\_\_

In a joint effort to stay connected and support FMSEA's ecological ideals, **all new and renewing members will be automatically added to the FMSEA Listserv and moved to "electronic-only" distribution for the Newsletter.** Please indicate below if: 1) you do NOT want to be added to the FMSEA Listserv, and/or 2) you would like to receive a hardcopy of the FMSEA Newsletter, *The Littoral Drift*, via U.S. Mail.

- Do **NOT** sign me up for the FMSEA Listserv.
- I **would rather** receive a hardcopy of the Newsletter via U.S. Mail.

School/Institution: \_\_\_\_\_

Subject Area: \_\_\_\_\_

Please check one (1) box that **best** describes your involvement in marine science education:

K-12	University	Nonformal	Government	Student	Other
<input type="checkbox"/> Public Elem. <input type="checkbox"/> Public Middle <input type="checkbox"/> Public High  <input type="checkbox"/> Private Elem. <input type="checkbox"/> Private Middle <input type="checkbox"/> Private High  <input type="checkbox"/> Home school <input type="checkbox"/> Administrator <input type="checkbox"/> Other:	<input type="checkbox"/> Professor <input type="checkbox"/> Instructor  <input type="checkbox"/> Other:	<input type="checkbox"/> Aquarium <input type="checkbox"/> Zoo <input type="checkbox"/> Museum <input type="checkbox"/> Sci. Center <input type="checkbox"/> Field educator  <input type="checkbox"/> Other:	<input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Parks  <input type="checkbox"/> Other:	<input type="checkbox"/> High School Year: <input type="checkbox"/> College Year: <input type="checkbox"/> Grad. School Program:  <input type="checkbox"/> Other:	<input type="checkbox"/> Other:

May 1 to April 30 (full year)	\$20
October 1 to April 30 (half year)	\$10
1 <sup>st</sup> Year Teacher (full or half year)	<b>FREE</b>
Collection Workshop Participant	<b>FREE</b>
NMEA Dues (Affiliation Special)	+\$35
Life Membership	\$140

**Amount Enclosed:**

New member: \_\_\_\_\_ Renewing: \_\_\_\_\_

**Enclose with payment and mail to:**  
B.J. Viers, 1042 Big Pine Key, Atlantic Beach, FL 32233



## What is FMSEA?

The Florida Marine Science Educators Association is a nonprofit organization whose members are dedicated to making the public more aware of Florida's fragile coastline through education.

The major role of FMSEA is to provide a medium for the exchange of ideas, information and resources among Florida's marine educators.

FMSEA is a chapter of the National Marine Educators Association (NMEA).

## NMEA NEWS - Jim Wharton

FMSEA's proposal for a Share-a-thon at the NSTA Regional Conference in Fort Lauderdale in November was accepted. We had a couple folks who had to regretfully bow out so there's a little room at the inn. I have some flexibility, so if you are still interested in participating, contact me. All participants in the Share-a-thon session must register for the conference, so take that into consideration.

NMEA member dues will be increasing in 2010 for the first time in at least a decade. We are far behind the curve and an adjustment was long overdue. Starting in 2010, the new member rate will be \$50 (\$45 for chapter members). All member levels will adjust accordingly. If you haven't considered it, now is the time to become a Life Member. You'll save \$100 if you pull the trigger in 2009.

NMEA and FMSEA will be jointly hosting a booth in the Exhibit Hall of the Kappa Delta Pi 2009 Convocation (like a conference, I guess) on October 29-31. Contact me if you are interested in helping staff the booth.

I am happy to report that FMSEA won the Chapter Basket Competition at the NMEA Annual Conference's Silent Auction. Our basket generated over \$250 for NMEA and, by various reports, won by a considerable margin. Our trophy is a pair of oversized, fish-shaped salad tongs...no seriously. I guess this year's conference would like to make the tongs a kind of annual trophy for the competition. We're supposed to bring them back next year to pass off to the 2010 winner (which of course seems like a lot of effort, just to present them to ourselves).

I've set up a new page on our Shutterfly site for conference pictures. If you were in Monterey, please post your pictures. We'll make sure to get a shot of the tongs up there soon. Visit the site at <http://fmsea.shutterfly.com>. The 2010 Conference will be held in Gatlinburg, TN, the 2011 Conference in Boston, and the 2012 Conference in...wait for it...Anchorage, Alaska!

Check out the latest NMEA News online at: <http://nmeaweb.org>.



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