Take a Peeki

SOUTH CAROLINA MARINE EDUCATORS ASSOCIATION
CONFERENCE
October 13-15, 1989
Charleston
SCMEA: An exciting, dynamic, marine education group
YOU can be there.

Mark your calendar now! Registration information for this year's conference will be sent to you in August. Watch the mail and register early, as last year many people had to be placed on a waiting list. The conference is an exceptional opportunity to participate, learn and enjoy marine education. We look forward to seeing you in Charleston!

SCMEA OFFICERS

President: Wendy Allen
Belle W. Baruch Inst.
PO Box 1630
Georgetown, SC 29442

Vice-president: Rhet Wilson
South Carolina Aquarium
116 Meeting St.
Charleston, SC 29401

Secretary/Treasurer and Membership: Phil Astwood
Center for Science Education
University of South Carolina
Columbia, SC 29208

Newsletter Editor:
Cyndi Bothwell
Coastal Zone Education Center
PO Box 22524
Hilton Head, SC 29925

SOUTH CAROLINA MARINE EDUCATORS ASSOCIATION
NEWSLETTER
SPRING 1989

SCMEA

c/o Phil Astwood
Center for Science Education
University of South Carolina
Columbia, SC 29208

Wendy Allen
P.O. Box 4
Georgetown SC 29442
Message from the SCMEA President

The South Carolina Marine Educators' Association is off to a great start with 92 enthusiastic members! As many of you know, the Association was formed during South Carolina's first state-wide marine education conference, "Working Magic with Marine Education," held at Hobcaw Barony near Georgetown, October 28-30, 1988. The conference was a tremendous success and involved 100 educators and others from across the state in marsh and beach field studies, Aquatic WILD workshops, and hands-on classroom activities with live marine organisms. Conference participants gave overwhelming support to the idea of a marine education association and SCMEA was formed!

The primary goal of SCMEA is to establish a communication network for educators and others interested in marine education. Conferences are a great way for people to share information and will be an important annual event for SCMEA. Plans are underway to top last year's conference with one in the Charleston area. Rhett Wilson, Vice-President of SCMEA, is chairing the conference committee, so please contact her for further information.

In addition to an annual conference, members will communicate through a newsletter, the first issue of which you are reading now! It is vital for you as a member of SCMEA to let Cyndi Bothwell, newsletter editor, and board members know what you want to see in OUR newsletter. How can it best serve your interests and needs? And I know our members have a lot of talents and accomplishments to share. Why not share your ideas for articles with Cyndi and help make our newsletter great!

Some other important activities for our newly formed organization are in the works. We are developing our constitution and bylaws and will seek chapter status with the National Marine Educators' Association this year. NMSEA sponsors great conferences in exciting locations around the country each summer. This year's conference will be held July 24-28 in Miami, Florida, a driveable distance for us in South Carolina and a great opportunity for us to let others know what we're doing.

Additional information about the NMSEA conference is also included in the newsletter. I encourage all of our members to also join the National Marine Educators' Association. It was decided during our first conference to keep the membership dues of the two organizations separate. Yearly membership in NMSEA is $20 and in addition to supporting the work of this worthwhile organization, members receive a years' subscription to the publication, CURRENTS - The Journal of Marine Education. NMSEA's bimonthly newsletter, and a registration discount for the annual conference. Application forms for both NMSEA and SCMEA are included elsewhere in the newsletter for you to use or share with your colleagues who are interested in becoming part of the marine education network.

I am excited about the progress we have made to date and even more excited about possibilities for the future. We will all be better able "to make known the world of water" by working together. I hope to see many of you at the NMSEA conference in Miami, if not sooner.

Best Wishes,

Wendy Allen
President, SCMEA

CALL FOR PRESENTATIONS
South Carolina Marine Educators Association
Conference
OCTOBER 13-15, 1989
at
Fort Johnson, SC Wildlife and Marine Resources Division
in
Charleston

In October, we have a great opportunity to meet with our fellow marine educators, share ideas, learn new techniques and get inspired! If you have taught a successful class, mastered an effective teaching technique, led a field trip or accomplished something that has helped facilitate marine education in South Carolina, please take a minute and consider offering your experience to others at the 1989 SCMEA conference.

There are three basic presentation formats, as listed on the enclosed form. If you have any other suggestions for your presentation, please let us know.

Remember! What may seem like common knowledge to you may be a key new concept for others.
Send your proposals to us on the enclosed form by May 15, 1989. Thank you!
Sea Sampler- Aquatic Activities for the Field and Classroom.
Wendy B. Allen and Patty O. McLaughlin. A wonderful sampling of hands-on activities that have been used with tremendous success in South Carolina classrooms. Available in both elementary ($4.25) and secondary ($4.00) versions. Send check or purchase order only to: SC Sea Grant Consortium, 287 Meeting St., Charleston, SC 29401.

Let's See:
THE SOUTH CAROLINA AQUARIUM

The concept for the South Carolina Aquarium was initiated by Charleston's Mayor Joseph P. Riley, Jr. in 1984. With acclamation from state and community leaders, the development of the South Carolina Aquarium, a Marine Science Museum for South Carolina, was underway.

After carefully studying the feasibility and scope of the proposed marine science center, the City of Charleston sought funding for the development of the South Carolina Aquarium (SCA). In 1988, the General Assembly authorized a $9.5 million state bond for the project. In November 1988, by a 3:1 margin, Charleston voters matched the State bond authorization. Fundraising will continue for the $24 million facility in 1989.

Assembled to design the aquarium is the finest design team in the country. With advice from educators, scientists and others throughout South Carolina, this team is creating a regional education facility devoted to South Carolina from our mountain streams to the Gulf Stream. South Carolina will have a world class environmental education facility that will contribute to the continuing improvement of marine education in the state. Aquaria are immensely popular and enjoyable facilities; it is expected that many will visit just for the fun of it and will become more aware of our unique and fragile environment.

Schematic design continues on the 60,000 plus square foot facility this year. Permits for building SCA on the Cooper River waterfront in Charleston (at the west end of Calhoun St.), have been filed. The anticipated opening date is late 1992 and there is a lot going on between now and then. If you would like more information on SCA, or if you have any suggestions, please contact Ms. Rhett Wilson; 116 Meeting St; Charleston, SC 29401. (803) 724-3764.

SOUTH CAROLINA MARINE EDUCATORS' ASSOCIATION

Application for Membership

DATE

NAME
PLACE OF EMPLOYMENT
ADDRESS
ADDRESS
HOME TELEPHONE
WORK TELEPHONE
POSITION

COURSES OR GRADE(S) TAUGHT

Due: $5.00

Please send this form with a check payable to SCMEA to:
Philip M. Artwood
Center for Science Education
University of South Carolina
Columbia, SC 29208

For additional information about SCMEA call:
Wendy Allen: 516-9629 or 771-4557
or
Phil Artwood: 771-6920

Marine Education: A Bibliography of Education Materials Available from the Nation's Sea Grant College Programs. This 35 page publication lists marine education materials available from Sea Grant College Programs and Sea Grant Institutional Programs nationwide. There is no cost for this publication. Contact: Marine Information Service, Sea Grant College Program, Texas A & M University, College Station, TX 77843-4115.
The National Wildlife Federation is holding a Conservation Summit on Kiahawa Island from June 11 - 15. Enjoy Kiahawa's beautiful barrier island setting as you learn about coastal ecology, celestial navigation, bird watching, coastal plants, erosion processes and beach critters. Many more in-interesting programs are scheduled. Contact Sheri Sykes, Sr. Coordinator, Conservation Summits, National Wildlife Federation, 1400 16th St. NW, Washington, DC 20036-2266. Phone: (703) 790-4363.

Roper Mountain Science Center in Greenville, SC will provide a Summer Science Enrichment Program for grades one through eight and a Summer Teaching Training Program which includes hands-on activities in Life Sciences. The Center is also currently developing a Marine Aquatic Laboratory, which will include a large touch tank and various additional hands-on activities for students. For more information, contact Greg Cornwell, Education Curator, Roper Mountain Science Center, 504 Roper Mountain Rd., Greenville, SC 29615-4229, (863) 297-0222.

The 6th Annual Symposium on Coastal and Ocean Management will be held in Charleston from July 11-14. This international convention will address numerous topics, including information and views targeted to promoting "use, development, protection, and understanding of coastal, ocean and marine resources." Numerous field trips will also be offered to over 1,500 expected participants. Contact Delores Clark, NOAA Office of Constituent Affairs, Rockville, MD, 20852, or call (301) 443-8031 for information.

The Florida Marine Science Education Association will be hosting the 14th Annual meeting of the National Marine Educators Association at the University of Miami, Coral Gables. The conference is scheduled for July 24-29 and over 500 participants are expected to attend. Come meet marine educators from all over the nation and return home with a wealth of information and creative ideas to use in your classroom. Expect fantastic field trips in the Miami area. Contact: Allison Rials, 1205 Citrus Isle, Ft. Lauderdale, FL 33315. Or call (305) 462-5476.

NMEA MEMBERSHIP
JOIN NMEA

The National Marine Educators Association brings together those interested in the study and enjoyment of the world of water—both fresh and salt. Membership benefits include: subscriptions to Currents: The Journal of Marine Education; the newsletter, NMEA News; and discounts on annual conference registration fees.

Individual Memberships:

STUDENT — Any fulltime student interested in supporting the goals and activities of NMEA. 1 year — $15

ACTIVE — Any person interested in supporting the goals and activities of NMEA. 1 year — $20
2 years — $35; 3 years — $45

ASSOCIATE — Any person interested in supporting the goals and activities of NMEA. 1 year — $55

SUSTAINING — Any person interested in substantially supporting the goals and activities of NMEA. Privileges include those of active membership plus free registration at the annual conference and official recognition by the Board of Directors. 1 year — $600 or more

LIFE — Any individual interested in substantially supporting the goals and activities of NMEA with a generous financial contribution. Privileges are those of active membership for life. $800 or more

PATTERN — A special category, with accompanying privileges, for those able to advance the goals of NMEA in a financially substantive manner. $500 or more

Institutional Memberships:

AFFILIATE — Any active, non-profit local, state, or regional scientific or educational organization with similar interests may become an Affiliate Organization of NMEA by writing for and completing an application form. 1 year — $55

CORPORATE — Any company, corporation or organization whose business includes the marine education market. $50 or more

MEMBERSHIP CATEGORY
NAME
TITLE
COMPANY/ORGANIZATION/SCHOOL
ADDRESS
CITY/STATE/ZIP

Please make check payable to NMEA and mail with this form to: National Marine Educators' Association, 1st Floor, North Carolina 28149

Foreign members please add $ 5.00 U.S.

OUR NEWSLETTER NEEDS A NAME!

An autographed Stephen Jordan print (of the painting that won the water color festival at Spillette last year) awaits the person who submits the name selected for the newsletter. Send your entry by May 31, 1989 to: SCMEA NEWSLETTER; C/O CYNDI BOTHWELL, COASTAL ZONE EDUCATION CENTER; PO BOX 22524; HILTON HEAD, SC 29925.

EDITOR'S CORNER

Greetings from your SCMEA newsletter editor. I am honored to be the editor and welcome your suggestions to help make this a publication that you will look forward to. We have some exciting things planned both for the newsletter and for SCMEA and it is my duty to keep you informed!

I would like to take a moment to introduce you to the newly elected SCMEA board members. Many of you already know our president, Wendy Allen of the Baruch Institute and Belle W. Baruch Foundation. Rhet Wilton, of the South Carolina Aquarium holds the position of vice-president and the secretary-treasurer is Phil Astwood of the Center for Science Education, University of South Carolina. All are leaders in the field of marine education and are committed to building SCMEA into an organization you can be proud of.

As Wendy mentioned in her letter, SCMEA has 92 registered members and we expect many more as the word spreads. Elsewhere in the newsletter you will find a SCMEA member registration form to give to your colleagues who may not have discovered this exciting opportunity. Please feel free to make copies if necessary.

Finally, my name is Cyndi Bothwell and I can be reached at the Coastal Zone Education Center; PO Box 22524; Hilton Head, SC 29925. Any ideas, comments, teaching tips, or events that may be of interest to other marine educators can be submitted to me at this address. Remember, this is YOUR newsletter!
Captain's Corner

I hope everybody is making some time to visit the coast this summer and take in the natural beauty that is especially rich this time of year. The salt marsh cordgrass reaches its peak productivity during summer and glistens bright green in the early morning and late afternoon sunlight. This is also the time when young shrimp, crabs and fish abound in the estuarine and nearshore coastal waters. Shorebirds have already started their yearly migrations south from arctic breeding grounds and our resident summer populations of herons, egrets and ibis stand tall among the enveloping marsh grasses. A visit to a salt marsh or beach enriches our lives and helps to renew our spirits as educators.

The South Carolina Marine Educators' Association also serves this important revitalization and renewal function. By participating in conferences in exciting coastal locations and sharing information and educational activities with others during our conferences and in our newsletter, we all benefit and experience a sense of renewal and growth that enriches our lives and our professions.

Speaking of opportunities for renewal and professional growth, the Association's second annual marine education conference, planned for October 13-15, will be tough to top. The exciting variety of field studies and workshops are described in the enclosed conference brochure. I am happy to see that many of the sessions will be presented by SCMEA members - we will be learning from each other which is one of the primary purposes of our organization. SCMEA members, all 100 plus of us, are receiving the conference brochure first. Since registration will be limited to 125 people, I encourage you to respond as soon as possible to ensure your place in an event you will not want to miss. Later this summer, brochures will be mailed to others around the state and I am sure, as before, the conference will fill to capacity and have a long waiting list. So, DON'T DELAY, send back your registration form TODAY!

In addition to planning the fall conference, SCMEA board members have been working on a constitution and bylaws for the organization. We will go before the board of the National Marine Educators' Association at the NMEA annual conference this summer to seek chapter status with the national organization. We are confident that SCMEA will soon be one of the most active and productive chapters in the National Marine Educators' Association. This linkage will help strengthen the national association and will also be of great benefit to our local members by providing a communication network with people active in marine education around the nation.

I encourage you to continue the dialogue that began so successfully last year when SCMEA was formed. Let us continue to share and learn from each other through our newsletter and participation in conferences, and begin to share some of our accomplishments with others around the country.

Best Wishes,

Wendy Allen
SCMEA President

P.S. Don't forget to get your prescribed dose of salt air and coastal experiences this summer!
UPCOMING EVENTS

Coastweeks is a three week long nationwide celebration of our country's coasts focusing on the beauty and diversity of coastal areas, their natural resources and threats that are imposed on them. This year, Coastweeks celebrations offer beach cleanups, boat cruises, coastal walks, seminars, conferences, art shows, photography contests and seafood cooking demonstrations, as well as many other activities directed towards increasing public awareness regarding the value and fragility of our coastal environments. For more information about Coastweeks '89 events in your area, contact Donna Gress, SC Coastal Council, Suite 300, 4130 Faber Place, Charleston, SC 29405, (803) 744-5839.

Bayfest, an all day celebration of Georgetown County's coastal heritage, will be held on Saturday, October 21, in downtown Georgetown and the East Bay Park located on the Waterfront. Events during the celebration will include a free narrated tours of the harbor, a wooden boat show, a sampling of regional foods, music and nature walks. For more information, contact Michael Murdoch, Georgetown County Parks and Recreation Department, PO Box 678, Georgetown, SC 29442, (803) 546-2481.

A Lowcountry Seafood Festival will be held at "The Sands" area of Port Royal (in Beaufort County), on October 14 in an effort to enhance the public's appreciation of the area's coastal resources and to focus attention on the economic importance of Lowcountry commercial fishing and aquaculture. Educational marine displays, childrens games, seafood tasting, competitions and a Lowcountry seafood meal are all part of the festivities. For more information, contact David Smith, PO Box 189, Beaufort, SC 29901, (803) 525-7118 or The Greater Beaufort Chamber of Commerce, PO Box 910, Beaufort, SC 29901, (803) 524-3163.

The South Carolina Science Council will hold its 14th Annual Convention November 2-4, in Columbia, SC. The theme of the convention will be "Networking For Science". If you are interested in contributing a paper or if you would like more information, please contact Linda Sinclair, Vice President (SC), 107 Heritage Rd., Lexington, SC 29072.

Contributed by Paula Keener, SCWFED

The Problem:

The Summer of '89 shocked Americans and South Carolinians into action. Like clockwork, southerly breezes moved up the East Coast and people flocked to the beaches for yet another season of surf, sun and sand. By June, however, something was very wrong. The Atlantic was coughing up hospital waste, sewage and tons of trash. People were scared.

We learned that an estimated 14 billion pounds of garbage, much of it plastic, is dumped at sea every year. We learned that common items such as six-pack rings, fishing lines and nets, and food packaging take hundreds of years to break down. As a result, thousands of marine animals, including whales, dolphins, sea turtles, seals and birds die each year from eating plastic garbage they mistake for food, or from getting entangled in it.

Solutions:

Last September, volunteers on every coast — 47,500 total, 3,000 in South Carolina — swept beaches and estuaries clean and recorded what they found. Strimmers, beachcombers, boaters, school groups, civic clubs — all responded.

In December, the U.S. Congress responded by signing into law the MARPOL (short for marine pollution) Protocol, an international treaty prohibiting the dumping of plastics at sea. But the U.S. Coast Guard has said that it's going to be a tough law to enforce.

Moreover, people began looking at the bigger picture — America's problem with solid waste. If garbage is not dumped at sea, then it's dumped in landfills. These landfills fill up and leach toxins into the soil and water. Consequently, communities across the nation began launching alternative waste disposal projects, with recycling as a major component. Recycling reduces the need for ocean dumping and landfilling, and conserves energy too.

How You Can Help:

If you treasure the South Carolina coast, join Beach Sweep '89 on Saturday, September 23rd. Like last year, volunteers will sweep the coast clean and record their findings. But this year, we've taken Beach Sweep a step farther: For the first time, volunteers will sort bottles and cans for recycling, to demonstrate the need for long-term solutions to solid waste disposal in South Carolina. It's your choice!

BEACH SWEET '89 — Saturday, September 23rd

Call now to volunteer!

Regional Coordinators:

Charleston: Dan Bell, S.C. Parks, Recreation and Tourism, 556-4650.
Beaufort: Nancy Schaal, Beaufort TLE, 525-0449.
Hilton Head: Sharon Richardson-McLain, Coastal Zone Education Center, 757-4848.

Sponsored by the South Carolina Sea Grant Consortium, 287 Meeting St., Charleston, SC 29401, telephone (803)727-2078.

Beach Sweep '89 Chairman: James S.Cumpherson.
CURRICULUM AND TEACHING RESOURCES

Aquatic Project WILD - Produced by the Western Regional Environmental Education Council, a natural resources education program that emphasizes the aquatic environment. Classroom teachers may use these materials as a means to teach required concepts and skills, while at the same time teaching young people to develop an awareness, understanding and appreciation for our natural aquatic environments. For more information about PROJECT WILD AQUATIC, contact the Education Coordinator of the SC Wildlife and Marine Resources Department, Project WILD, PO Box 167, Columbia, SC 29202. (803) 734-3964.

Marine Debris and Entanglement Slide Show - A 10-minute presentation with accompanying script (47 slides). Available from the Center for Marine Conservation, 1725 DeSales St., NW, Washington, DC 20036.

FROM THE EDITOR

This, the second edition of the South Carolina Marine Educators' Association Newsletter is complete! I hope that you will find it filled with information to help you to motivate and inspire your students with an understanding and appreciation of our bountiful coastal resources.

There are many special events coming up this fall and I hope that you will encourage your students to participate in the many festivals and opportunities that you will find listed in the "Upcoming Events" column. Beach Sweep, a major statewide event is shaping up to be a huge success this year and of course the Second Annual South Carolina Marine Educators' Association Conference entitled "Seasoning Your Curriculum" are certainly worth looking forward to. Please make sure you register early for the conference to ensure your attendance. We expect to have a long waiting list like last year.

In the spring issue of our newsletter we announced a contest to find a name for this publication. I have received several entries to date but we have decided to leave the contest open for a while longer. The member who submits the name chosen by SCMEA officers for the newsletter will receive a signed Steven Jordan print. So put your imagination to work and send your entries by October 10 to: Cyndi Bothwell, c/o Coastal Zone Education Center, PO Box 22224, Hilton Head, SC 29926.

"Our Ocean; It's Drowning" Poster - A large poster and small postcards are available, along with a slide show and narrative on the issue of marine debris. The poster and postcards are free; the slide show is available for loan. Make requests in writing to: Natural Resources Consultants, 4055 21st Ave. W., Seattle, WA 98199.

Ocean Plastic Pollution - A slide show targeted to middle school students, available for loan by writing Vicki Oasis, Hatfield Marine Science Center, Newport, Oregon 97365.

Trashing the Oceans - A seven minute video describing the effects of marine debris on the environment. Available for loan from Modern Talking Pictures Service, 6000 Park St. North, St. Petersburg, FL 33709. Specify National Marine Fisheries Service video called "Trashing the Oceans", and whether you need VHS of Beta videotape. "Trashing the Oceans" may also be purchased for a fee of $10.00.

OF WHALES AND AQUATIC WILD

As a young boy, I grew up reading the tales of Moby Dick and his crew's encounters with mysterious creatures of the deep. Frequent summer trips to the seashore only fueled my imagination and desire to experience close encounters of my own with creatures of the sea. Up until this year, the best I could manage were a few close up glimpses of dolphins off the Carolina coast.

Last June, my childhood fantasies finally were fulfilled when I participated in a whale watch off of New England. Humpback whales inhabit the waters of Steeletal Bank off the northern coast of Cape Cod, an area rich in fish and whale food. With blowholes and flukes announcing their presence, the ten to twelve humpbacks we encountered put on an artistic display of grace in the water, the likes of which this big kid will not soon forget.

Back home, my thoughts turn to our own aquatic heritage. With approximately 11,000 miles of rivers, creeks and streams, along with more than 1,400 lakes to explore, many young South Carolinians will perhaps dream dreams of catching glimpses of our own aquatic creatures..., the elusive river otter, the secretive muskrat, or maybe even a rare sighting of the Florida manatee, the fabled "mermaids" among ancient mariners in our coastal waters.

Alas though, there are environmental storm clouds gathering over our state. A recent article by Dennis Chastain, "River at Risk" in the May-June issue of South Carolina Wildlife magazine, suggests that the state's stream classification system does not protect swimming in nearly two-thirds of our rivers! Other recent news releases crossing my desk document pollution discharges into state waters killing over 34,000 fish last year, and the potential decline of the state's rare green salamander due to acid rain from the sky. Clearly, more than ever we have a vested interest in an educated citizenry capable of making responsible choices concerning our environmental future.

Project WILD is an award-winning environmental and conservation education program of instructional workshops and supplementary curriculum materials for teachers of kindergarten through high school age youth. Begun originally by the Western Association of Fish and Wildlife Agencies and the Western Regional Environmental Education Council for use in thirteen western states, WILD has expanded to over forty states. In South Carolina alone, close to 8,000 educators have attended WILD workshops.

As an educational tool being used more and more in our public schools, Project WILD seeks to bridge the gap between awareness and knowledge on one hand and concrete action and solutions on the other. Our newest version, Aquatic WILD, uses activity titles such as "Puddle Wonders", "Fishy Who's Who", "Water We Eating?" and many more to provide hands-on environmental instruction to students. The Project WILD Activity Guides are available at no cost to teachers and educators who participate in Project WILD workshops.

For more information about Project WILD and its availability in your area, call or write:

Project WILD
PO Box 167
Columbia, SC
29202
Phone: (803) 734-3964

Contributed by Jack Hancock, Education Specialist, SC Wildlife and Marine Resources Department
Let's See: The Center for Science Education

The Center for Science Education at the University of South Carolina was established by John Carpenter in December of 1984 to support the teaching of science in South Carolina via graduate education programs, the development of teaching materials and the establishment of leadership and development programs.

Over the last five years the Center has been instrumental in the development of graduate-level coursework designed specifically for the pre-college teacher. These courses are offered on the Columbia campus, other system campuses, and in schools throughout the state. In addition, the Center has provided services to school districts statewide ranging from single courses to multi-year programs which include course offerings, inservice presentations and consultation on science curriculum development projects.

While the Center staff is keenly interested in all areas of science and mathematics, our emphasis is on the teaching of those integrated science areas - life science, earth science, and physical science - typically part of the middle school curriculum. Working cooperatively with the South Carolina Geological Survey, the Mining Association of South Carolina and the South Carolina Earth Science Teachers Association, Center personnel have recently established a statewide South Carolina Earth Science Resources Coalition which will mobilize, and where necessary develop those human and material resources needed to educate the children of the state with regard to earth resources. The Center publishes a newsletter, "Earth Science News", four times a year and has set up an Electronic Bulletin Board System. Through this system we will serve as a clearinghouse for science and mathematics courses on all college/university campuses, statewide. The Electronic Bulletin Board will also provide access to new classroom activities and information on professional meetings and special events.

The staff of the Center for Science Education includes:

John R. Carpenter, Director and Professor of Geological Sciences
Philip M. Astwood, Associate Director and Research Associate Professor
Karen C. Foley, Administrative Assistant

If you have any questions about the Center or any of our programs, please call 777-6920 or write to us at:

The Center for Science Education
University of South Carolina
Columbia, SC 29208

In recent years, South Carolina has a strong record in marine education. Yet there is more that can and will be done.

Many parts of the country are benefiting from the educational materials that are being generated by aquariums. In South Carolina, many teachers are using exercises from the Living in Water program developed by the staff of the National Aquarium in Baltimore. With the South Carolina Aquarium, we will have not only the excellent materials from around the country, but also materials developed specifically for South Carolina’s marine and aquatic environment. These materials can be adapted for many age groups and to almost any setting and may be used in schools, in the Aquarium itself, or by public interest groups.

The South Carolina Aquarium will offer a place where the many different aquatic systems of South Carolina can be seen together, with the connections between each area made tangible. It will be a catalyst for concern about water quality, fisheries populations, and research needs. It will be fun, as enthusiasm is intended to be a natural part of the experience of the South Carolina Aquarium.

Oh! And a place to hold SCMEA meetings!

If you have any thoughts about what you would like to see in the South Carolina Aquarium, please contact Rhett Wilson, 116 Meeting St., Charleston, SC 29401. (803) 724-3784.
SOUTHERN COLUMBIA MARINE EDUCATORS' ASSOCIATION

Application for Membership

The South Carolina Marine Educators' Association is a dedicated group of educators, naturalists, scientists, and others sharing a common interest in the study, enjoyment and teaching of the world of water -- both fresh and salt. The Association provides a network for members to communicate through newsletters and annual conferences.

DATE ____________________________

PLACE OF EMPLOYMENT ____________________________

ADDRESS ____________________________

HOME TELEPHONE ____________________________

WORK TELEPHONE ____________________________

POSITION ____________________________

COURSES OR GRADE(S) TAUGHT

Due: $5.00

Please send this form with a check payable to SCMEA to:

Philip M. Ashwood
Center for Sea Education
University of South Carolina
Columbia, SC 29208

For additional information about SCMEA call:

Wendy Allen: 546-3623
or
Phil Ashwood: 777-6920

NMEA MEMBERSHIP
JOIN NMEA

The National Marine Educators' Association brings together those interested in the study and enjoyment of the world of water -- both fresh and salt. Membership benefits include subscriptions to Current: The Journal of Marine Education, the newsletter NMEA News; and discounts on annual conference registration fees.

Individual Memberships:

STUDENT — Any full-time student interested in supporting the goals and activities of NMEA. 1 year—$15

ACTIVE — Any person interested in supporting the goals and activities of NMEA. 1 year—$25; 2 years—$50; 3 years—$55

ASSOCIATE — Any person interested in additionally supporting the goals and activities of NMEA 1 year—$35

SUSTAINING — Any person interested in substantially supporting the goals and activities of NMEA. Privileges include those of active membership plus free registration at the annual conference, and official recognition by the Board of Directors. 1 year—$100 or more

LIFE — Any individual interested in substantially supporting the goals and activities of NMEA with a generous financial contribution. Privileges are those of active membership for life. $300 or more

PATRON — A special category, with accompanying privileges, for those able to advance the goals of NMEA in a financially substantive manner. $500 or more

Institutional Memberships:

AFFILIATE — Any active non-profit local, state, or regional scientific or educational organization with similar interests may become an Affiliate Organization of NMEA by writing for and completing an application form. 1 year—$35

CORPORATE — Any company, corporation or organization whose business includes the marine education market. $250 or more

MEMBERSHIP CATEGORY ____________________________

NAME ____________________________

TITLE ____________________________

COMPANY/ORGANIZATION/SCHOOL ____________________________

ADDRESS ____________________________

CITY/STATE/ZIP ____________________________

Please make check payable to NMEA and mail with this form to: National Marine Educators' Association Kure Beach, North Carolina 28449

Foreign memberships: please add $5.00 U.S.
SCMEA OFFICERS
President: Wendy Allen
Belle W. Baruch Inst.
PO Box 1630
Georgetown, SC 29442
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Center for Science Education
University of South Carolina
Columbia, SC 29208
Newsletter Editor: Cyndi Bodwell
Coastal Zone Education Center
PO Box 22524
Hilton Head, SC 29925

Did You Know That...

- 1.5 million pounds of garbage is dumped into the oceans every hour.
- 36.3% of South Carolina’s Beach Sweep 98 debris that was plastic.
- A plastic die-snap ring takes 450 years to decay.
- A plastic six-pack ring takes 800 years to decay.
- An estimated 5,000,000ons of plastic debris exist in the world’s oceans.
- The majority of ocean litter is concentrated in the Northern Hemisphere.
- Scientists have found plastic debris in the stomachs of more than 100 species of seabirds.
- On average, 30 of the world’s 250 species of seabirds contain plastic.
- One-third of the nation’s plastics come from South Carolina.
- In 1988, the average American produced 1,200 pounds of garbage each year.
- In 1993, one-third of the nation’s plastics will be recycled.
- By 1993, one-third of the nation’s plastics will be recycled.
- With the recyclability of paper, cardboard, glass, metal, and plastics, almost 90% of our garbage can be recycled.

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