



Anemone

The Children's School of Science Newsletter

Summer 2012

CSS SCHEDULE OF EVENTS SUMMER 2012

Sessions A & AB Begin
Monday - July 2

Back-to-School Night
Tuesday- July 3
5 p.m - 6 p.m.

Open Board Meeting
Tuesday - July 18
7 p.m.

Open House – End of Session A
Friday - July 20
Last 15 minutes of each class

Session B Begins
Monday - July 23

Back-to-School Night
Tuesday - July 24
5 p.m. - 6 p.m.

CSS Annual Picnic
Thursday - July 26
Woods Hole Ball Park
5 p.m.

CSS Annual Meeting
Monday - August 6
7:30 p.m.

Open House
Wednesday - August 8
5 p.m – 7:00 p.m.

End of Sessions
B & AB
Thursday - August 9

To keep up with current events throughout the summer and reminisce with others about CSS over the winter, be sure to like us on Facebook



President's Letter

Next year, our beloved School will celebrate its one hundredth birthday!

For nearly a century, the Children's School of Science has provided generations of children with the opportunity to learn about the world through experiential education in Woods Hole and its environs. Teachers, staff, and volunteers gather each summer at the Schoolhouse for an all too brief six weeks, renewing friendships and working together as a community to foster an appreciation for science and nature in our students.

As we prepare for the centennial in 2013, please help spread the word that Science School is having a birthday party next summer. Plans are being made as I write this for a variety of events, including an evening of CSS memories and songs, a daylong celebration on July 20, 2013 with activities specially designed for children, and a cocktail party. We welcome everyone's participation in planning and promoting these events!

Science School has been so fortunate to have such a talented, inspiring, and energetic staff to teach our children over the years—they have provided experiences that transform lives! Over the past winter, volunteers have been working hard to locate as many former teachers and other individuals previously involved with the School as possible, to make sure they know about the plans for next summer's festivities. Mailing addresses and contact information are being confirmed, and press releases are being placed in local newspapers, getting the word out that Science School is about to turn 100. Please communicate with us if you know of family, friends, or neighbors who should be included. We want all who love Science School to know they are welcome!

Charlotte Emans Moore
President, Board of Directors

Photo by Edwin Gray, ca.1953



Who's Who in the CSS Faculty

Ellie Armstrong *Marine Biology A*

Ellie Armstrong, our 28-year instructor, started her CSS career as a 7-year-old and continued as a student until she became an Assistant for two years. She earned her M.S. in Marine Ecology from University of Michigan as well as an M.S. in Northern Scandinavian Botany from University of Upsala, Sweden. Ellie taught for six years at the Waldorf School of Cape Cod and worked 14 years at MBL. (28th year teaching at CSS)

Tara Bennett *Microbial Life B*

Tara is the Program Manager for Life Sciences Outreach at Harvard University in Cambridge, MA. She has a B.A. in Biology from Dartmouth College and a M.S. in Animals and Public Policy from Tufts University School of Veterinary Medicine. (4th year teaching at CSS)

Andrea Bogomolni *Seashore Life B*

Andrea is currently a graduate student at the University of Connecticut in Pathobiology and Veterinary Science and a Research Associate at the Woods Hole Oceanographic Institution. She has a B.S. in Wildlife Fisheries and Conservation Biology and a B.A. in Studio Art from University of California, Davis as well as a M.A. in Marine Biology from Boston University. (10th year teaching at CSS)

Newsletter Chairs:

Debra Nyul, Stacy Cummings

Newsletter Contributors:

Beth Armstrong (Photography)
Kinnaird Fox
Jane Kulesza
Charlotte Emans Moore
Kristi Proctor
Roger Sloboda
Mary Ulbrich

Daniel Cojanu *Photography*

Daniel is a professional cinematographer/photographer. Originally from Romania, Daniel now resides in Woods Hole. He graduated from the University of Theater & Film "Il Caragiale" and also studied documentary filmmaking at the BBC School for Broadcast Journalism. His production company, UnderCurrent Productions, specializes in films with a scientific and environmental focus. (3rd year teaching at CSS)

Tim Culbertson *Coastal Botany, Parasitology*

Tim is a recent transfer to Falmouth from California where he taught disciplines of science to varying ages from 10 to graduate students for the last decade. He has a bachelor's degree in Environmental and Forest Biology and a master's in Estuarine and Environmental Science. He is looking forward to seeing some of the East Coast plants that he remembers from his childhood in Maryland. He will be teaching students to identify and appreciate plants as part of their living community. In his second class, he will explore symbiotic relationships of the world through the lens of parasitology and disease. (1st year teaching at CSS)

Ben Jaffe *Herpetology*

Ben, a herpetologist, teaches science at a public school in Brooklyn. He also plays saxophone around New York. He has a B.A. in Communications from Clark University. (3rd year teaching at CSS)

Jenny Junker *Biological Illustration, Animal Behavior*

Jenny has a B.F.A. from Rhode Island School of Design. She works part time at WCAI, the



Cape and Islands radio station. Jenny is an artist and the mother of two young children. (20th year teaching at CSS)

Becky Lash *Entomology*

Becky, our 26-year CSS instructor, started her journey with the School as a Seashore Life student. (She was even the Assistant to Ellie Armstrong in 1972!) Becky received her B.A. from University of Pennsylvania and her M.S. from Cornell University. In 1977, she taught her first Seashore Life class, adding other CSS courses over time including Entomology, Woods Ponds and Fields, Marine Invertebrates, and Limnology. A lifelong educator, Becky spent many years as a third grade and science resource teacher. She also has served as an aquarist at the Woods Hole Science Aquarium. (26th year teaching at CSS)

Barry Lewis *Oceanography*

Barry Lewis was born in Falmouth and grew up playing and exploring in and about Woods Hole. He received B.A. in Liberal Arts from Goddard College in Vermont, and received his Masters in Education from UMASS Boston. He has been a public High School English Teacher for seven

years, with the last four of those in Medford, MA.. (2nd year teaching at CSS)

Hazel Levine *Woods, Ponds & Fields B*

Kate McCluskey
Aquatic Life, Ecology of the Bike Path A, Seashore Life B
Kate earned her M.Ed. from Boston College and her B.A. in English from St. Lawrence University. A former CSS Assistant and Lifer, she currently lives and teaches in New York City. (4th year teaching at CSS)

Simon Miner *Seashore Life AB, Experiments in Woods Hole, Embryology, Robotics & ROV*

Simon is an MBL researcher and freelance writer/ photographer. He has an A.A. in Environmental Science from Cape Cod Community College and a B.S. in Biology from University of Massachusetts, Amherst. (8th year teaching at CSS)

Yvonna Rowinski Press *Ecology of the Bike Path B*

Yvonna Press has taught at CSS for two summers, taking last summer off to get married. She has a bachelor's degree in Marine Science and master's in Environmental Education. Yvonna is currently working for NOAA on an enhanced flatfish project, specializing in reproductive behavior. She has worked in educational settings in the past, such as the New England Aquarium and the New Bedford Whaling Museum. (3rd year teaching at CSS)

Who's Who in the CSS Faculty, Cont.

Jessica Rencher

Woods, Ponds & Fields A, Terrestrial Ecology

Jessica lives in the beautiful Rocky Mountains of Colorado where she teaches 1st grade at Liberty Common School and coordinates its science fair. Previously she worked at the Mt. Hermon Outdoor Science School in California where she was also a "zip-line" instructor in the Redwood Forest! Jessica has a B.S. in Biological Science from California Polytechnic State University. (3rd year teaching at CSS)

Belinda Rubinstein

Invertebrates

Kate Schafer

Marine Mammals, Seashore Life A

Kate teaches biology, environmental science, ecology and evolution at the Harker School in San Jose, CA. She was an undergraduate at Stanford and studied populations of

pygmy octopuses and stomatopod crustaceans in Belize for her Ph.D. dissertation at UC Berkeley. She also worked on a research vessel for the Marine Science Institute on San Francisco Bay, teaching marine science to a variety of grade levels. Kate credits a childhood class at CSS for sparking a lifelong interest in marine science. (1st year teaching at CSS)

Carolyn Sheild

Anatomical Drawing

Carolyn is a 7th grade Life Science teacher and cross country coach at Clarke Middle School in Lexington, MA, where she has taught for 18 years. She got her B.S. in Biology from the University of Wisconsin-Eau Claire, and her M.S. in Biology with emphasis in Marine Biology from Northeastern University. She was an Assistant Scientist on SEA vessels for a number of years. In 2007

she had the privilege of going on a research expedition on the Atlantis, and dove in the Alvin submarine on the East Pacific Rise. (1st year teaching at CSS)

Corey Simonson

Geology of Cape Cod

Corey is a faculty member at Milton Academy in Milton, MA where he teaches Earth Science to middle school students. He received a B.A. in Geology from Amherst College and an M.S. in Geology from the University of Vermont. (8th year teaching at CSS)

Aaron Sloboda

Ichthyology, Assistant Administrator

Aaron teaches 3rd, 4th, and 5th grade science at The Boy's Latin School of Maryland. A former professional mariner, he enjoys fishing and playing around in his shop with his son. (3rd year teaching at CSS)

Shona Vitelli

Seashore Life A

Shona has a B.A. in Anthropology and Human Biology from Temple University, a M.A. in Secondary Science Education and an Ed.M. in Science Education from Columbia University Teachers College. (5th year teaching at CSS)



Teenagers – Are You Interested in Becoming a CSS Assistant Next Summer?

Teens interested in becoming teaching assistants for summer 2013 begin the process in the summer of 2012. Teaching assistants must be sixteen years old by the summer of their hiring.

The first step is an interview with the Teaching Assistants Chair (Jane Kulesza) and the Assistant Administrator (Aaron Sloboda) at the end of July or early August. Prospective assistants will find the sign up poster on the kiosk in the schoolyard. The interview is an opportunity to learn more about the demands of the job, as well as a chance for Aaron and Jane to get to know the prospective assistant. At this interview, the applicant is

given an application; this application is due, along with letters of recommendation, before the end of the calendar year.

Teaching assistants work all six weeks of Science School plus a few days beforehand and afterward. Assistants are assigned to work two classes per session. They report to the school early for set up and remain after class for clean up. They also unpack and later return the school's nets, microscopes, etc. to storage. Additionally, assistants are expected to participate in other CSS functions such as Back-to-School Nights, the 4th of July parade, the picnic, and the Annual Meeting.



Look for interview information on the kiosk in the schoolyard at the end of July and early August

New Binoculars for CSS Students



The Technology Committee recently purchased replacements for the 25+ year-old binoculars used by the Ornithology class. This purchase was funded through a generous gift the Metz family recently made to CSS. The Technology Committee field tested binoculars from four manufacturers: Bushnell, Olympus, Swift, and Zeiss. In addition, these were available at the final 2011 CSS Open House for comment by students and parents.

This narrowed the choice to two models: the Olympus 8 x 42 EXWP I and the Zeiss 8 x 30 T Conquest. These were then examined further by several birders and professional microscopists, and the Zeiss model was judged to be superior overall.

Three points drove the purchase decision in favor of Zeiss: (1) The Zeiss binoculars are about 12% lighter, hence children may not tire so easily using them.

(2) Zeiss generously agreed to provide us with 24 binoculars at cost, a significant discount (54%) over the average current retail price. (3) We purchased the binoculars directly from the manufacturer, rather than via a third party purchase from a web site.

Finally, a Zeiss-connected CSS family aided us in arranging the purchase price. This fact, plus the generous gift from the Metz family that seeded this purchase, is directly in keeping with the observation that the true cost of higher education in the United States is written in the donor names above the doors of every campus building in our country. The same is true of the stellar equipment inventory of the Children's School of Science.

*Roger Sloboda
Chair, Technology Committee
CSS Board of Directors*

CSS Sustaining Fund

Each year, like most non-profit organizations, CSS sends out a request for financial support to members of its community. Last fall, a team of dedicated volunteers under the direction of the Sustaining Fund Committee worked together over many hours, some joining the cause from distant locales, in an effort to reach out to the nearly 3,000 households that comprise our CSS community.

Many of you agreed that Science School matters to you and your family, and contributed to the Sustaining Fund in increased numbers, as well as by higher amounts.

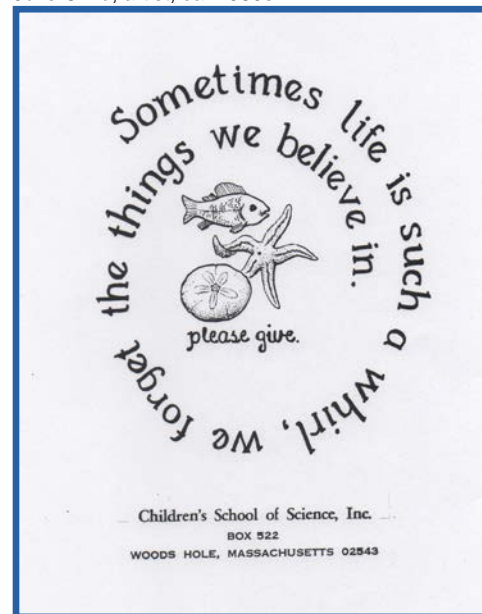
We are enormously thankful to everyone who responded! The School relies on the funds raised through this annual appeal to defer a portion of its actual operating costs. Since tuition covers only part of the funds needed each summer, the rest must be covered by donations from the CSS community.

Through the generosity of currently enrolled families, grateful alumni, grandparents, and in some instances great-grandparents, we are able to provide children with a unique summer science education.

These gifts allow CSS to employ talented individuals who are passionate about teaching science from nature, to acquire needed resources that make possible a positive learning environment for children, and provide for the School's long term stability.

If you haven't had a chance to contribute to the Sustaining Fund, it is not too late. Donations can be made at any time via the CSS website. Be a part of our community of supporters and join us in Woods Hole next summer as we celebrate one hundred years of children's science education!

Julie Child, artist, ca. 1980s



We had no traffic jams when I began Science School in 1949, in Seashore Life, of course. (A photo of me in that class hangs in the entryway during summer sessions—the girl with the grin and the coffee can for collecting.) Science School had only 6-week classes then, and only two sessions each day. We had the bell, which some of us were allowed to ring; we had the occasional field trips, although in those days we had no seat belts or quotas, so sometimes a dozen of us would pile on each other in one of the big station wagons; we had trips to Sippewissett at low tide—no beach permits or lifeguards, but lots of soggy sneakers and wet kids; we had movie days when all students would pack into a single room to watch a film on, say, monarch butterflies, with an old clicking projector;

and we had the end-of-summer-Science-School Day with posters, butterfly collections, aquaria and terraria (with each frog or mouse spoken for, usually without a parent's knowledge). I still have one of my Riker mounts, although the insects are pretty scraggly.

When we added tee shirts, I was overjoyed—and although I have only one of the original ones left, in shreds, I wore a CSS tee shirt everywhere we traveled. Finally, our own daughters were old enough to attend Science School—and picking the courses became a rite of spring. I volunteered for Scientific Supplies, which was both educational and fun. Back then, with no internet, catalogues were the lifeline—and it was amazing what could be found in a science supply catalogue!



Both girls became lifers and assistants, and I moved from Scientific Supplies to Science Chairman to President then Board Member and finally to the Sustaining Fund. With a brief hiatus, that's about 40 years with Science School.

Some things have changed at Science School, but the hard work of the many volunteers; the strong oversight of the President and the Board (changed from my years, but still working); the cooperation and friendly responses from the institutions; the outstanding assistants and teachers, and most important, the many excited students, still define the Children's School of Science.

*Mary Ulbrich
Former Student, President,
Parent and Grandparent*

Please help our centennial project, our book and celebration, and enrich our archives with photos of the Children's School of Science through the years. If you have black and white class photos older than 25-years- old or any field trip photos, recent or historical, we would love to have you share them with us. We will accept them as donations to our archives, or if they are precious we encourage you to have them scanned, saved to 300dpi and e-mailed to our photo collection site: whcssphoto@gmail.com. If you will be in Woods Hole during the summer, you may drop them off or loan them to us. We'll scan them and return them to you.

Share Your Vintage CSS Photos With Us

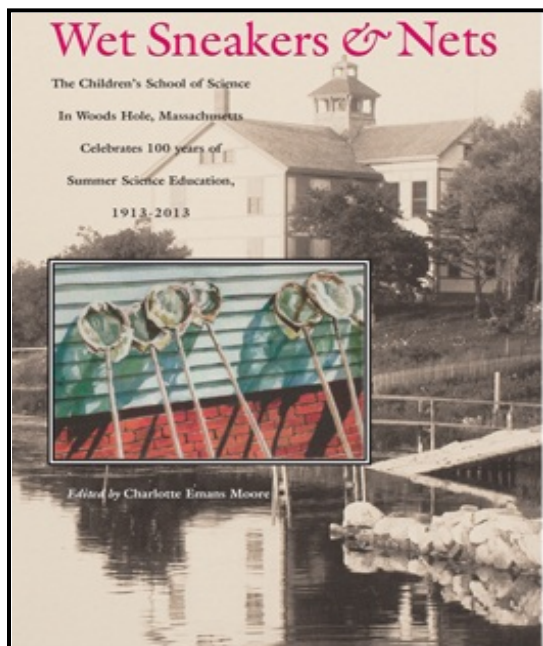
Unknown photographer, 1925



Photo questions?
Please call
Beth
Armstrong
425-
501-7115

Centennial Book to be Published in 2013

In honor of our centennial, CSS is publishing a commemorative volume entitled *Wet Sneakers and Nets: The Children's School of Science in Woods Hole, Massachusetts Celebrates 100 Years of Summer Science Education, 1913-2013*.



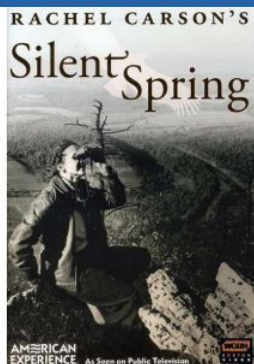
Featuring current and historic photographs, as well as art work by teachers and students, this book will document the School's history, its scientific methodologies, and its impact on generations of children and families over the past century.

See the insert in this newsletter to pre-order your copy.

Children's School of Science Book Club

Fifty years have passed since Rachel Carson published one of the founding documents of the environmental movement, *Silent Spring*. Join us on the porch Wednesday, July 25, at 4 p.m. as we revisit *Silent Spring* to understand the legacy of the book and the role that Woods Hole had in shaping Carson as a scholar.

The Woods Hole Public Library will have copies available.



**On the Porch of the
Historic Schoolhouse
Wednesday, July 25
4 P.M.**

Other events and discussions related to the topic are being planned. Check the kiosk in the schoolyard for more information.

CSS ADMINISTRATIVE OFFICERS 2012

Administrative Director
Doug Jones

Assistant Administrator
Aaron Sloboda

Curriculum Chairs
Karen Schwalbe
Kim Sutton

Registrar
Cricket Warner

Teaching Assistants Chair
Jane Kulesza

**Website and Facebook
Administrator**
Aaron Sloboda

OFFICERS of the BOARD of DIRECTORS

President
Charlotte Emans Moore

Vice President
Ronnie Cooperstein
Christine Field

Treasurer
Kitty Brown

Clerk of the Corporation
Diane Smith

BOARD OF DIRECTORS

2012
Elizabeth Forbes Armstrong
Kitty Brown
Christine Field
Teresa Jones
Anastasia Kelly

2013
Ronnie Cooperstein
Charlotte Emans Moore
Diane Smith
Ethan Treistman

2014
Karen Dell
Sue Giordano
Roger Sloboda
Denis Toner

**STANDING COMMITTEE
CHAIRS**

Archives

Dorothea Mautner
Charlotte Emans Moore

Entrance Desk

Cathy and Jim Galbraith

Extension Classes

Karen Dell
Heather McReynolds

Health & Safety

Teresa Jones
Kristie Proctor

Hospitality

Tricia Elichalt
Francie Plough Seder

Newsletter

Stacy Leff Cummings
Debra Nyul

Optics

Louis Kerr
Hanumant Singh

Scholarships

Deb Coulombe

Sustaining Fund

Mary Jo Benjamin
Julia Child
John and Stacy Cummings
Henry Friedman
Isabel Friedman
Ruth Ann Laster
Jim and Lisa Mooney
Nancy Rosenbaum
Lara Sloboda

Transportation

Debra Laster

Trip Sites

Susan Laster

Ways and Means

Anne Wilde
Isabel Sternlieb

P.O. Box 522
Woods Hole, MA 02543

E-MAIL:
general@
childrensschoolofscience.org

2012 New Balance Falmouth Road Race

Be part of history this summer as the Falmouth Road Race celebrates its 40th year! CSS is participating for the 3rd summer and looking for volunteers to wear one of our race numbers and raise money for Science School.

Through the race's "Numbers for Non-Profits" program, CSS can offer race numbers to individuals who do not qualify for an entry number either through local residency or the lottery. To qualify for one of these CSS numbers, volunteers must agree to raise a minimum amount for Science School. Friends, family and colleagues can support the runners through donations to CSS to meet the fundraising goal.

If you already have secured a race number you can still join our extraordinary team of runners! Runners who donate a minimum of \$50 will receive a Team CSS t-shirt. Last year 20 runners raised over \$5,000 for the School. Help us double that this year!



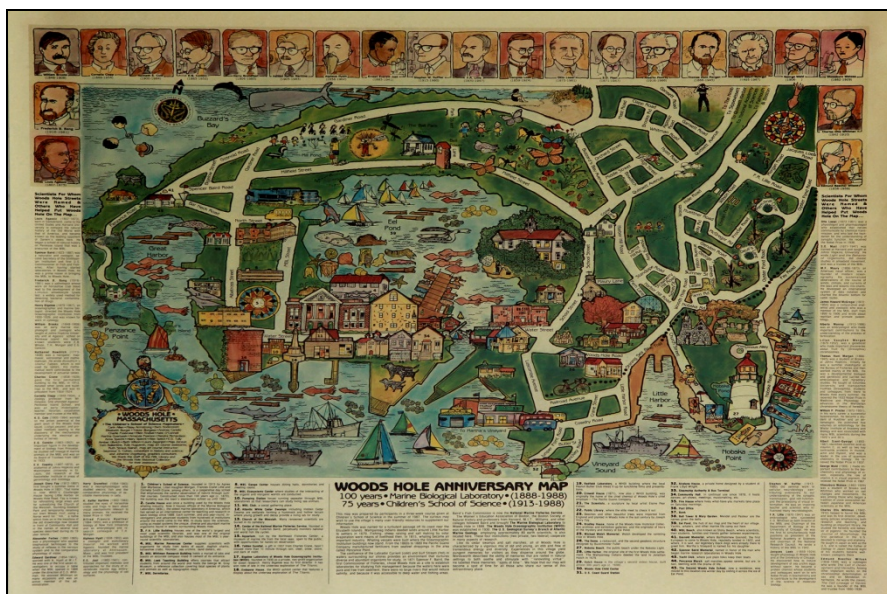
**Run in the 40th
Anniversary
2012 New Balance
Falmouth Road
Race
for Children's
School of Science!**

**We'll see
you at the
finish line
Sunday,
August 12!**

**For more information please email
roadrace@
childrensschoolofscience.org
or call 917-453-7652.**



Original Copies of the 1988 Map of Woods Hole Available!



Poster size is 23 x 27 inches

Thanks to former CSS teacher Ruth Straus Gainer, beginning this summer Science School will sell a limited number of the coveted Woods Hole map that was created in the "Mapping Woods Hole" course. Proceeds will help to underwrite the printing of the School's forthcoming book celebrating its one hundred year history, scheduled for publication in 2013.

In the summer of 1987, in preparation for CSS's 75th anniversary and the Marine Biological Laboratory's 100th year, Science School offered a unique course for children. Students learned about cartography by studying the scientific history of Woods Hole, its geology, geography, and landmarks, and produced this beautiful color map.

In addition to depictions of buildings and points of local interest, it features a border comprised of portraits of scientists whose names were used to identify local roads and others who helped to shape the community, including Spencer F. Baird, Cornelia M. Clapp, Lillian Vaughan Morgan, and Charles Otis Whitman.

If you would like to purchase a map, please speak with one of the CSS volunteers working this summer at the Ways and Means sales tables at School events, while quantities last.

Summer Extension Classes

Don't forget to watch for information on this year's Extension Classes. We'll have walks in the woods, boat rides and hands-on projects for the whole family. Check the CSS notice board, CSS website, or our Facebook page.



Archival Photos Courtesy of CSS Archives, Woods Hole Historical Collection, MA