



MARCONIGRAM

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SEPTEMBER 2009

EDUCATION ISSUE

President's Message

This summer CMMC made two important steps in our education initiative thanks to the generosity of members Jensie and Bill Shipley and the Roessner Family Foundation. We enabled four teachers from the Chatham Middle and High Schools to attend a 3-day workshop at the Museum of Science, Boston. We also hired two teachers to work part time to develop course materials for students in the elementary and middle schools in the area of global communication.

The Museum of Science, Boston has proposed that CMMC be a point of contact to help our local schools update their curricula to meet the new state-mandated requirements. We believe we are in a very good position to play this role. This Marconigram documents our recent work with the Chatham Schools. Please keep it for your records and forward it to friends who may be interested in helping us improve engineering and science education on the Cape.

Chuck Bartlett, President, Chatham Marconi Maritime Center

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[Dr. Yvonne Spicer "Meeting the STEM Challenge for Cape Cod Students"](#)

If you receive the Marconigram via US Mail it means we do not have an email address. If you do have email and would like it to be sent that way you will gain a lot by clicking on links and it will save us stamps and time. Please contact Roz Coleman if you would like to be included on our email mailing once a month. Her email is: Roslyn B. Coleman (billrozcoleman@comcast.net)

FEATURED ON OUR WEBSITE

CMMC HELPS SEND CHATHAM'S SCIENCE EDUCATORS TO SUMMER SCIENCE AND TECHNOLOGY GATEWAY INSTITUTE AT MUSEUM OF SCIENCE, BOSTON



A team of some of the same science educators who led 90% of 10th graders and over 50% of all Chatham Students to earn advanced or proficient scores in intensive testing as part of 08-09 Massachusetts Comprehensive Assessment Systems (MCAS) in science are enthusiastically preparing to do as well in engineering technology as they have in biology. Barbara Waters, CMMC's education director and a volunteer science consultant to the Chatham Schools has worked with Chatham's elementary and middle school classroom teachers to do hands on biology and gives Chatham teachers congratulations for this success. Chatham schools are presently

focusing on STEM science (science, technology, engineering and math) and inviting other Cape schools to join them on December 4th. See Meeting the STEM Challenge for Cape Cod Students speaker described below and 9/17/09 Cape Cod Times, [Cape students continue MCAS gains](#).

The 2009 Gateway District Institute at the Museum of Science, Boston, from July 29-31 gave classroom teachers new ways to teach science, technology, engineering, and math or "STEM" courses. Chatham Marconi helped fund six Chatham educators: Lisa Sjostrom, middle school principal; Debora Morgan, district director of technology; Matt Barnes and Karen Manning, middle school science teachers; Huntley Harrison, high school science teacher, and Greg Kelly, instructional technology, architectural design and wood technology. Institute experiences help teachers give students confidence about solving technical problem and interest in pursuing engineering oriented careers. Chatham teachers also met Museum of Science Vice President of Advocacy & Educational Partnerships, Dr. Yvonne Spicer. Dr. Spicer who was instrumental in establishing the 2001 Massachusetts technology/engineering curriculum frameworks will speak in Chatham on December 4th. The teachers also reported work on curriculum integration:

Much of the institute discussion focused on the district in general and how we will integrate science, technology, engineering, and mathematics into the overall curriculum. The group decided to meet during the fall semester to flesh out our pilot programs for the second semester. We will add teachers to the group to broaden representation at all levels.



Chatham Radio WCC: The Untold Story

to view a 3-minute preview of the award winning film produced by the CMMC and narrated by Walter Cronkite.

MEMBERSHIP INFORMATION

[Renew or Join-Last year for Charter Membership in CMMC!](#)
We have a membership level for you:

Student \$10
Adult \$25
Family \$40
Supporting \$100
Patron \$250
Benefactor \$500

[Charter Membership Form](#)

The CMMC is a 501(C) (3) organization approved by the IRS.
Leonard Magnusson, Treasurer

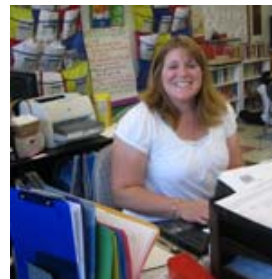
[Donations can be made online from the Membership webpage.](#)

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CHATHAM MARCONI & CHATHAM TEACHERS COLLABORATE TO WRITE GLOBAL COMMUNICATION LESSONS FOR PUBLICATION

During the summer, teachers Stephanie Rae (grade 4) and Karen Manning (grade 8), with guidance from Barbara Waters, CMMC Director of Education and Chuck Bartlett, CMMC President, wrote the Winter 2009 issue of the Museum Institute for Teaching Science (MITS)' quarterly journal: Science is Elementary (SIE), Global Communication, Past, Present and Future. Each SIE issue consists of 48 pages on a science topic, integrated with other subject areas, providing extensive background on relevant concepts and 10 lessons plans. The SIE journal is distributed quarterly both nationally and internationally to teachers and members of MITS.



This summer project, funded by CMMC and the Roessner Family Foundation, is an initial step toward CMMC's visionary goal of developing engineering and technology based educational material for teachers and students. CMMC and teachers will develop a poster illustrating the timeline in global communication.

The collaborating teachers have expertise in writing lesson plans that will engage students in grades 3 through 8 in science, technology, engineering and math (STEM). The teachers were mentored by CMMC members Read Moffett and Chuck Bartlett who helped them clarify the concepts needed to produce scientifically accurate material. The teachers then applied their science understanding, their classroom experience and current learning theory to develop the needed curriculum in ways that will be effective with students at different grade levels.



"Meeting the STEM Challenge for Cape Cod Students"

Just in: The STEM Initiative Project at Chatham Public Schools is issuing an open invitation for December 4, 2009 at 9:00 AM in the Chatham High School Auditorium to all educators and CMMC members to a talk by Dr. Yvonne Spicer, Vice President of Advocacy & Educational Partnerships at the National Center for Technological Literacy at Museum of Science, Boston, "Meeting the STEM Challenge for Cape Cod Students". On the poster and invitation is a note that that the "Chatham Public Schools would like to thank **Chatham Marconi Maritime Center** for supporting the CPS STEM Initiative and Gateway Project." If you want more information and can go online it will be at:

<http://www.chathammarconi.org/EducationalResources.html>



Contact information: Lisa Sjostrom, CMS Principal or [Debora Morgan](#), Director of Instructional Technology.