



Naval Health Clinic Annapolis FY 2015 STEM Year in Review



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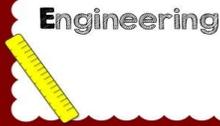
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Naval Health Clinic Annapolis (NHCA) Science, Technology, Engineering & Mathematics (STEM) Program has had a great fiscal year in 2015. We have reached out into the surrounding community and assisted many students from local schools to help develop an interest in the STEM fields of study through utilization of the knowledge and resources the command has at its disposal and a strong network with local schools and the United States Naval Academy.

This program is anchored by its ongoing mission to address an urgent Navy need for more young people to pursue careers in science, technology, engineering, and math. It provides outreach to local and national communities and helps to engage students and teachers in STEM topics of study within the Navy's broad spectrum of its programs. NHCA's STEM program encourages future naval STEM professionals by showcasing the Navy as a potential organization of opportunity to enhance innovation and growth through the many STEM fields of study it has within its organization.

The NHCA STEM program helps to prepare student participants for intellectual challenges by creating opportunities for them to learn current STEM theory and application. It provides them critical thinking and problem solving skills to give them the tools to lead inside and outside the classroom. Through this program students interface with multiple technologies and are exposed to various disciplines of STEM associated with the military and Navy Medicine.

The Naval Health Clinic Annapolis STEM program, in conjunction with the United States Naval Academy, organized a quarterly Seaperch program for more than 10 schools within the state of Maryland. As part of the program, over 20 volunteers from the Naval Health Clinic train students in areas of science and medicine. They are taught how to use scientific knowledge, understand the natural world and participate in decisions that affect various aspects of our world and the military.

As part of the STEM Outreach Program, Naval Health Clinic Annapolis hosts a Medical and Dental Showcase every Fall and Spring to over 120 students from the following elementary schools: Annapolis Elementary, Germantown Elementary, and Eastport Elementary Schools. Throughout this showcase the students visit several STEM departments within the health clinic. Each department educates the students in their respective fields. The laboratory department showcased basic cell identification on a microscope. Radiology department used sample radiographic images to display bones of the human body and oriented the students to the technology and physics of how x-rays are made. The Optometry department presented information on different eye exams and test the students' eyesight to show how they work. Orthopedic and Physical Therapy departments discussed proper form during physical activities and showcased a stretching routine with the students to explain how the mechanics of the body work. The Dental department also discussed proper dental hygiene and demonstrated proper brushing and flossing techniques.

Each of these stations helped to give the students a broad scope of Navy Medicine and how it can help others through the application of STEM principles. Each year the program looks to improve and grow these outreach programs bringing in new and different dynamics to engage the future STEM leaders in our communities.

-Authors: HMI Michael Weaver, HMI Isaac Kimble

Medical and Dental Showcase



(Top) On April 30, 2015 students and teachers from Annapolis Elementary School pose for a picture along with USNA Midshipmen and NHCA Volunteers. Taken in Dahlgren Hall, Naval Academy. Students were given access to NHC Annapolis' annual STEM Medical & Dental showcase along with collaboration from USNA STEM Division. PC: HMI(FMF) Lopez, Dwayne.



(Left) HM3 Cortez, Abraham, an Orthopedic Technician, showcases the anatomy of a human bone and ways of treating fractures. PC: HMI(FMF) Lopez, Dwayne.

Medical and Dental Showcase



(Left) HM3 Grant, Nicolette, Dental Technician, teaches students the importance of cleaning teeth. PC: HM1(FMF) Lopez, Dwayne.

(Right) HM3 Martin, Zachary, Laboratory Technician, showcases students the structures of blood cells through a microscope. PC: HM2 Romero, Michael.



(Left) HM2(FMF) Garganta, Rafael, positions a student into an X-Ray machine to teach them how to operate one. PC: HM2 Romero, Michael.



(Left) HM3 Pena, Edwin, Physical Therapy Technician, teaches the students the importance of stretching and proper techniques in order to not be injured. PC: HM1(FMF) Lopez, Dwayne.

Medical and Dental Showcase



(Left) HM3(FMF) Olmos, Louis showcases students the contents of a Medical Kit and had the students demonstrate Emergency Care of a Field Medical Corpsman. PC: HM2 Romero, Michael.



HM3 Antepim, Samuel (Middle left) and HMI (SW) Bostick, Kevin, showcase students the important role of a Preventative Medicine Technician. PC: HM2 Romero, Michael.



Dr. Mimi Lum (Top right) and Dr. Jessica Vincenzi teaches students the anatomy of the eye. PC: HM2 Romero, Michael.

Medical and Dental Showcase

On December 4, 2014, volunteers from NHC Annapolis hosted a Medical and Dental Showcase at Eastport Annapolis Elementary school. Departments that participated were: Laboratory, Radiology, Optometry, Physical Therapy and Dental Departments. The students, teachers and volunteers had a great time teaching and demonstrating the students each of their respective jobs.



(Left) HMI Kimble, Isaac, Laboratory Technician, showcase a student from Eastport Annapolis Elementary School the structures of blood cells through a microscope. PC: HMI(FMF) Lopez, Dwayne.



(Left) HM2 Garganta, Rafael, Radiology Technician, showcase students test radiology films the different types of bones in the human body. PC: HMI(FMF) Lopez, Dwayne

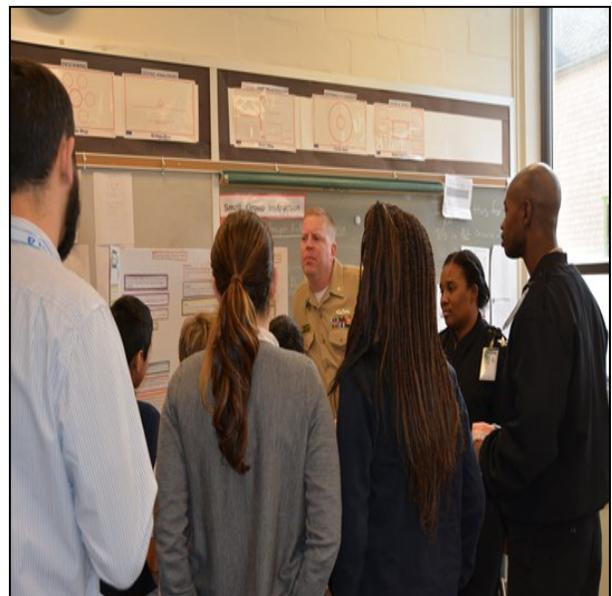


(Top) HN Booth, Brittany, Optician Technician, showcase students of Eastport Annapolis Elementary School the structure an anatomy of the eye. PC: HMI (FMF) Lopez, Dwayne.

Medical and Dental Showcase



HMI(SW/AW) Whipple, Sara (top left) and LT Welkie, Amy (top right) give opening remarks to students of Eastport Annapolis Elementary school. They provided sea stories, insight of their role within the health care field and promoted the Navy and Navy Medicine. PC: HMI(FMF) Lopez, Dwayne.



HM2(SW) Kretschmar, Paul and HM3 Troy, William (top left) along with HM2 Jones, Latoya (top right) provide information on the proper techniques of brushing and the importance of keeping their teeth healthy. PC: HMI(FMF) Lopez, Dwayne.

Branch Health Clinic Diversity Event

BHC Lakehurst Diversity Team strives to build strong relations between the Navy and the community. The team collected \$850.00 worth of the following items: diapers, wipes, shampoos, clothing, car seats, bottles, and several other essential items. These items were donated to AHEART, which is an organization that provides emergency assistance to infants in crisis, prevents out of home placements, and decreases infant mortalities by providing essential infant items. - HMI(FMF) Ribot, Anna



Photo Credit: HMI(FMF) Ribot, Anna

2015 SEAPERCH EVENT



On April 11, 2015, eleven members from NHC Annapolis assisted the US Naval Academy Science, Technology, Engineering, and Mathematics (S.T.E.M) team during the 2015 Sea Perch competition. There were a total of 144 teams consisting of 2-6 members ranging from middle to high school. Each team received proper education on the construction of underwater robots (Sea Perch). Our staff served as lane judges during the competition, recording time on speed, maneuverability, and ability to accomplish tasks. PC: HM2 Romero, Michael.

