2018 Maryland STEM Festival Summary Report

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FOURTH ANNUAL

MARYLAND
STEM
FESTIVAL
2018

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U.S. ARMY
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U.S. COASTGUARD

October 26 – November 11, 2018

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mdstem

https://www.gofundme.com/
phil-rogofsky-director

The Maryland STEM Festival 2019

The 2018 Maryland STEM Festival concluded its 17-day celebration of Science, Technology, Engineering and Mathematics with over 500 events. The Festival seeks to ignite and increase STEM interest across all age groups throughout the state of Maryland. The Festival's theme was Military STEM Careers and Uses. Many events focused on past, present and future Military STEM uses such as:
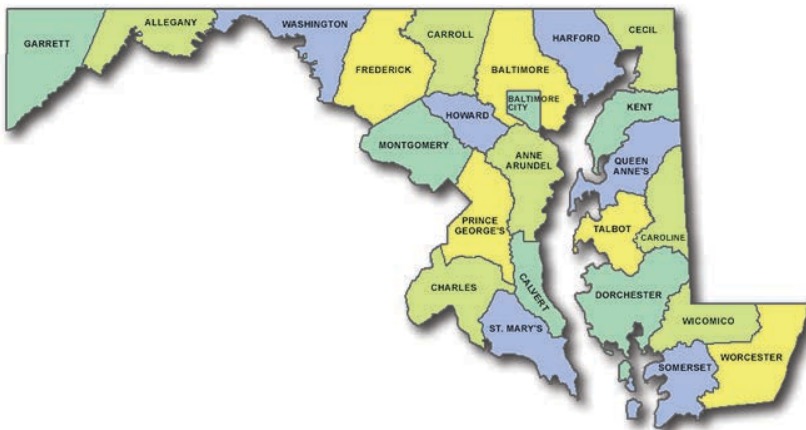

- Scienceteller: Military STEM by Washington County Free Library-Sharpsburg Branch Library
- Night at the Museum-National Cryptographic Museum
- Meet the Military-Central Library Howard County
- STEM-tastic!: Siege Warfare-Greenbelt Library
- STEM in the Army-Enoch Pratt Free Library-Southeast Anchor Library

The military was also represented at events such as Morgan State University's STEM Expo and the State-Wide High School Virtually Cybersecurity Competition.

Reaching Maryland for STEM

1 Fantastic Festival

35,000+ Attendees

540+ Events

200+ Hosts

23 Maryland Counties and Baltimore City Participated

2018 Maryland STEM Festival Supporters

- University of Baltimore
- Information System Security Association-Central Md. Chapter
- American Council of Engineering Companies-Maryland
- International Transportation Society-Maryland

MarylandSTEMFestival.org

Maryland STEM Festival Programs

"Fun with Maryland STEM Festival" Podcast

The Festival is constantly looking for new ways to bring STEM to the attention of the general public.
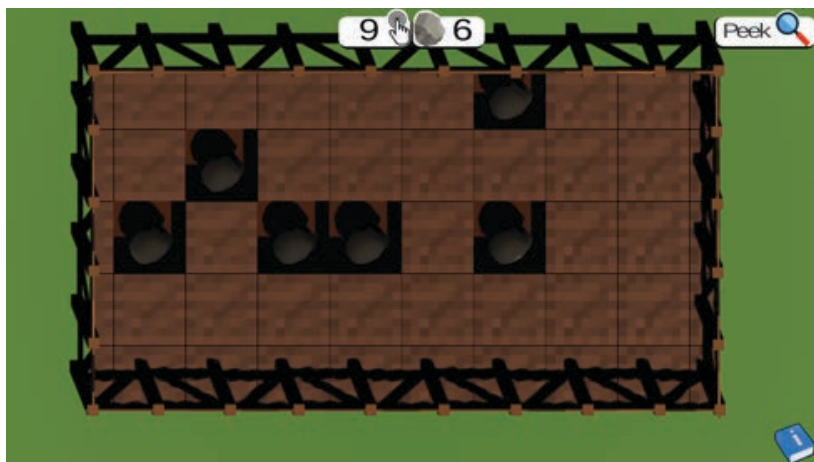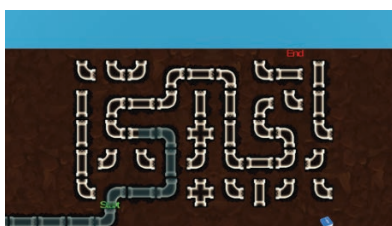
This year, we joined the growing Podcast world and created a podcast of our own: "Fun with the Maryland STEM Festival" The podcast presents a short dose of STEM featured individuals and organizations that have worked with and supported the Festival in the past. The podcast is offered Monday through Thursday with a five to 10- minute regular bite of STEM. Some of the individuals who have been interviewed in our first year include Lt. Governor Boyd Rutherford, Goddard Space Flight Center Director Chris Scolese, and podcaster Dr. Kiki. We hit our 100th episode before the end of the year. If you have started listening to the podcast, check us out in 2019. The Podcast can be found on our website, iTunes and all traditional Podcast outlets.

MarylandSTEMFestival.org
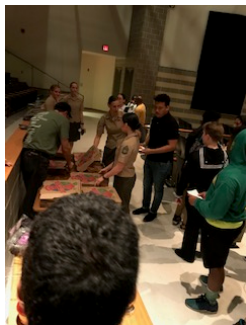
Agrownomics Video Game

In 2017, the Festival's theme was Ag and STEM. We wanted to help spread the word that agriculture is a modern industry that uses the latest STEM tools and techniques. In 2018, we began to develop a video game to help show the connections between STEM and Agrownomics. The competitive game was developed to generate excitement similar to that of other video games. The game is available to play for free at our website. It can be played on a desktop, laptop, or tablet. The game also includes quizzes and readings that earn the player additional points.

High School Girls' Military STEM Night, Oxon Hill High School, November 1st
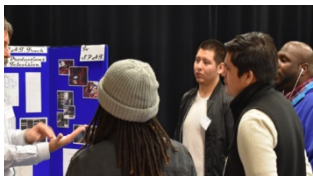
Prince George's County Public Schools and the Festival's 1st High School Girls' Military STEM Career Night was held on November 1st at the Oxon Hill Library. All Branches of the Military participated - the U.S. Army, U.S. Navy U.S. Air Force, Marines, U.S. National Guard and U.S. Coast Guard. Over 100 attendees (mostly girls) listened to current military personnel discuss what a great opportunity the military offers girls as well as boys. Following the presentations, the attendees were able to speak one-on- one with military personnel.

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Media Forward, Society of Motion Picture and Television Engineers (SMPTE), Montgomery College], November 8th

The SMPTE-DC Society hosted Media Forward for high school through graduate level students interested in technical and production careers in media. Over 80 attendees had a chance to learn about the industry and career opportunities while networking with leading media professionals from the area. There were hands-on sessions involving production and the emerging technologies along with opportunities to engage media professionals in one-on-one discussions.

WBAL Weather Tour, Facebook Tour

People across Maryland had the opportunity to be a part of this year's Stem Festival's events without leaving their homes. On November 6, Meteorologists Ava Marie and Taylor Grenda provided a virtual tour of the WBAL TV weather center, uncovering all the types of science and technology that goes into forecasting the weather. The interactive chat will be broadcast live on WBAL TV's Facebook page, and then available online for later viewings. The event was geared toward viewers of all ages, from students interested in pursuing a career in meteorology to adults wanting to know more about how the forecast is created. It can still be seen on the WBAL Facebook page by scrolling down to the November 6th activity. WBAL-TV has been a media sponsor and supporter of the Festival since its inception in 2015.

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Wild about Bears!, Maryland Zoo in Baltimore, November 4th

The Maryland Zoo in Baltimore celebrated bears on November 4th. It turned out to be a perfect fall day to be at the Zoo! Zoo attendees learned about the drastic impact that climate changes is having on polar bears and some ways the public can work together to help protect the world's largest land predator. Keeper Emilee discussed her recent travels to Churchill, Canada, to participate in the Polar Bears International (PBI) Climate Alliance Program. She displays the stuffed bear she brought back from Churchill.

STEMFest, Highland View Academy (HVA) November 11th

The STEM Department at Highland View Academy hosted a STEMFest on Sunday, November 11 open to all. Attendees visited booths from federal and private STEM organizations with exciting STEM gadgets, games, and free stuff. Ben Roy, past director of the WTVC Newschannel 9 Science Theater and Science Zone Corporation, offered an hour-long spectacular STEM show

Maker's Day, State-wide, November 3rd

The Festival designated November 3rd as its 1st Maker's Day. Over 20 organizations across the state held events celebrating the Do it Yourself/hands-on learning concept of the Maker culture. Some of these events were:

- Mini-Maker Day - Carroll County Department of Recreation and Parks
- Maker Day - DIY and Tech Projects- MoCo Makers
- Make it Move: Electric Vehicle Invention Lab! Prince George's County Memorial Library-Greenbelt Branch
- MakePlayLearn-Calvert Public Library- Prince Frederick Branch Library
- Maryland Maker Day "Let's Stick Together"- Worcester Public Library -Pocomoke Branch

Cyber Competitions, State-wide, October 27th

The 1st High School Cybersecurity Competition was held at six locations across the state on October 27th. Teams of high school students from across the state came together to answer a series of cybersecurity questions. prepared by Parsons,.a Cybersecurity Company that has develop content for the winning teams received prizes. This was just one of a number of cybersecurity competitions held during the Festival.

Create and Code, St. Louis School, November 5th

The St. Louis School held its 4th Create and Code Day in Clarksville on November 5th. Families with children in grades PreK - 5 experienced a morning of entertaining STEM-related activities! The children (and parents) learned about robotics, augmented reality and had fun with the green-screen technology, Legos, and OSMOS! The activities were led by the school's grade 6-8t students.

STEM Day, Anne Arundel County Public Library, November 10th

Anne Arundel County Public Library's STEM Day offered an opportunity for organizations from all over Anne Arundel County to share their passion and expertise for STEM topics with people of all ages while providing hands on activities and demonstrations. Patrons visiting the library during STEM Day had a chance to experience virtual reality, augmented reality, 3D pens, and so much more. It provided a wonderful opportunity for the library's patrons to experience something new. (We can hardly wait for next year's event!)

STEMWorks Festival, Kent County Library, November 7th

The Kent County Library held its first STEMWorks Festival on November 7. There were a variety of STEM related activities at the library in partnership with the local 4-H club, Maryland Extension, Kent Soil and Water Conservation District, Washington College's KidsSPOT, The Judy Center and more! Over 100 attendees participated in activities involving animal science, circuits, 3D Doodler pens, environmental science.

The 2019 Maryland STEM Festival

The 2019 Maryland STEM Festival will expand to a full month and run from October 11-November 11, 2019. In honor of the 50th Anniversary of the Moon Landing and the 60th Anniversary of the Goddard Space Flight Center, the theme of the Festival will be Space and Flight. Check our website and social media for updates on the Festival as we get closer.