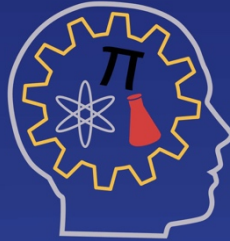


# FIFTH ANNUAL

# MARYLAND STEM FESTIVAL 2019



Oct 11, 2019  
through  
Nov 10, 2019

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2019  
SUMMARY REPORT

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### The 2019 Maryland STEM Festival

The 2019 Maryland STEM Festival concluded a full month of Science, Technology, Engineering and Mathematics with over 700 events. It celebrated Space and Flight in honor of the 50th Anniversary of the Moon Landing and the 60th Anniversary of the Goddard Space Flight Center. Many events focused on Space and Flight such as:

- Girl Scout Space Science-Randallstown Branch Library
- Space and Flight Adventure-Thomas Johnson Middle School
- Animals in Flight-Maryland Zoo
- Astronomy Club Open House and Star Part-Anne Arundel Community College
- 3<sup>rd</sup> Fall STEAM Festival-Maryland International School



A complete list of the 2019 Festival event and well as other information about the event can be found on the Past Festivals page of our website.

#### Supporters

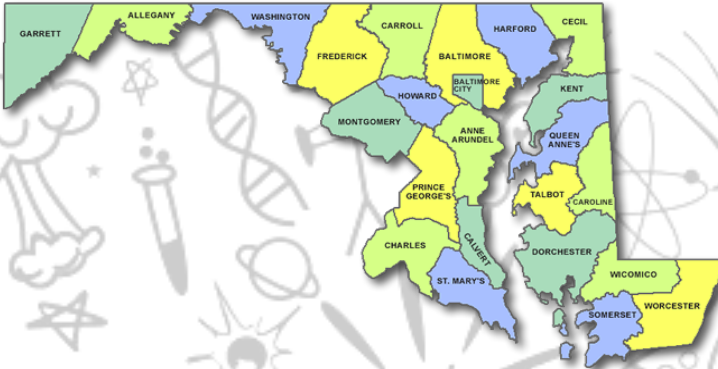
University of Baltimore

American Council of Engineering Companies-Maryland





## Reaching Maryland for STEM



1

**Fantastic Festival**  
**35,000+ Attendees**  
**700+ Events**  
**22 Maryland Counties and Baltimore City Participated**

Phil Rogofsky, Executive Director  
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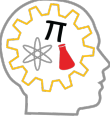
Landi James, Food and Drug Administration



### ***1<sup>st</sup> Annual STEM Parade, Bowie State University, October 19th***

The Maryland STEM Festival and Bowie State University (BSU) co-hosted the First Annual STEM Parade. No one anywhere has ever put on a Parade dedicated to STEM! NBC4 Meteorologist Amelia Draper was the Grand Marshall. Bowie and Duval High School Marching Bands gave enthusiastic performances. After the parade, BSU displayed their outstanding STEM program. There was music, magic, film and more to excite attendees about STEM. Video of the Parade can be found on our YouTube Channel!





### ***MHNS loves STEM, Mt Hebron Nursery School, October 24<sup>th</sup>***

The four-year old students participated in an activity where they studied the importance of a simple tool, the catapult, and how this tool can use force to help move an object. Through examples and a read-aloud, the children learned about the parts of a catapult and the importance of the fulcrum. They then designed their own catapult using simple craft items (popsicle sticks, chenille sticks, pompoms and small candy pumpkins). After completing the project, students worked with a partner to observe the distance the catapult propelled the pompom and the tiny candy pumpkin.





### ***STEM Kids: Space Adventure, Ruth Enlow Library of Garrett County, November 4<sup>th</sup>***

Twenty-one children and several adults participated in the Space Adventure held at The Ruth Enlow Library's main branch. The children worked hard building, testing, and refining their lunar landers until they could accomplish landing two marshmallow astronauts safely from a height of three to five feet off the ground. Participants also completed a moon landing team building game where they ranked a list of fifteen items in terms of their importance for their crew to survive an event on the moon. The program wrapped up with time to explore moon sand, virtual solar system tours, rocket refrigerator magnets, and an out-of-this-world marble run.





### ***7<sup>th</sup> Annual Game Jam, Centre Theatre, November 9<sup>th</sup>***

Aspiring High School and Middle School video game developers came together in teams from around the state to create a game in less than 12 hours based on a theme revealed the day of the event. Participants used the Unity Game Engine tools package to design and code video games based on a theme announced the morning of the event. Teams had all day to work on their games and were judged by a panel of tech professionals. T-shirts, three meals, and prizes were provided for the event. Unity workshops were held in advance of the Game Jam.





### ***STEM Trick or Treat, Howard Community College, October 25<sup>th</sup>***

Science and math got spooky at a real Trick or Treat treatment at the 2<sup>nd</sup> event. Over 200 children and adults came to HCC to enjoy spooktacular math games, Hansel and Gretel storytelling and crafts, an endless maze, a gruesome greenhouse, ghostly goop, a star party and more!





### ***Wildlife adventures, Elkton Central Library, November 8th***

STEM is more than Space and Flight. Families at the Elkton Central Library learned from professional wildlife educators about animal traits and adaptations, as well as the importance of conservation. Families enjoyed meeting and interacting with several rescue animals, including lizards, snakes, and even tarantulas! What a great opportunity to learn about the natural world around us!





### ***The Great STEM Expo, Salisbury Middle School, November 9th***

Guests of all ages had a chance to create and explore geographical terrains through augmented reality, immerse themselves in the "local neighborhood" within an interactive star field and explore the vastness of our own solar system by taking a scaled walking tour down the main hall. Other activities included simulating meteorite impacts on planetary bodies, modeling the effects of a black hole and designing their own galaxy. Engineering opportunities included designing paper coasters, Lego free builds, Lego challenges, Kinex rollercoasters and designing and launching paper rockets and paper airplanes! Creativity was on display through the inclusion of the arts to create model galaxies, watercolor, spacescapes and planetary lanterns.





### ***STEAM Day-African Americans in Space, Reginal F. Lewis Museum, October 26th***

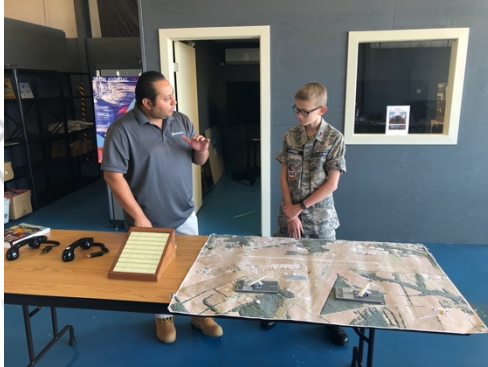
Students explored being an astronaut for a day. Youth participated in cool hands-on STEAM (Science, Technology, Engineering, Art and Math) activities relating to space exploration and meet African Americans who contribute to the field.

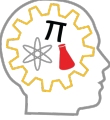




### ***Aviation Career Education Program, Easton Airport, October 19th***

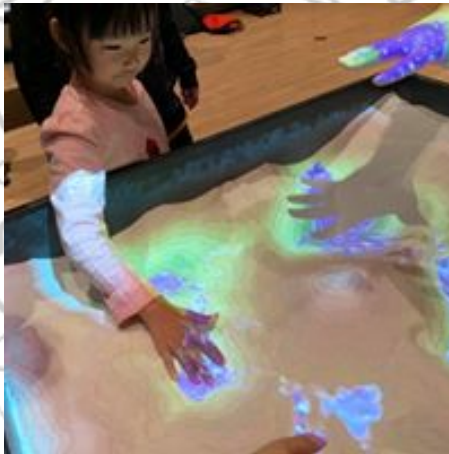
Easton Airport provided students the opportunity to explore careers in the aerospace industry. The program introduced students to a variety of aviation related career paths and also provides resources and support to help them pursue a career in the aerospace industry. The program will promote interest in aviation careers by teaching safe operating principles, using leading edge technology and committing to the future of aviation in Talbot County.





### ***Western Maryland STEM Festival, Frostburg State University, November 9th***

Frostburg State moved their Festival to coincide with the State-Wide Event. Over 400 people attend the Festival. The Festival aimed to stimulate student's interest in Science, Technology, Engineering and Math in a series of fun and educational activities. Activities include a ping-pong ball volcano, augmented reality sandbox, strawberry-banana DNA, health testing, homemade lava lamps, making slime, robotics, planetarium shows, and FSU-TV studio tours.





### ***Art Contest and Closing Ceremony, NASA Goddard Space Flight Center, November 10***

The Festival held its 3<sup>rd</sup> Art contest using this year's theme of Space and Flight. There were traditional and digital categories for elementary, middle, high school and college. The winning art works were displayed at the NASA Goddard Space Flight Center's Visitor Center from November 2<sup>nd</sup> through 10<sup>th</sup>. A ceremony, to close the Festival and give the winners their prizes, was held. All winning art works can be seen on our website.





## Festival Summary Report

The 2019 Maryland STEM Festival was another successful event showing Maryland's STEM leadership. The feedback from attendees and hosts was overwhelmingly positive. Hosts are already looking forward to the 2020 Festival. Many new organizations are excited to join the Festival in 2020.

SIXTH ANNUAL  
MARYLAND  
STEM  
FESTIVAL 2020

Oct 2, 2020 through Nov 1, 2020

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The 2020 Festival will take place from October 2<sup>nd</sup> through November 1<sup>st</sup>, 2020. The theme will be manufacturing and design. Many people are not aware of the dramatic changes in the Manufacturing Industry. We hope that the 2020 Festival will contribute to changing that perception. The Manufacturing Industry uses the latest technology such as robotics, artificial intelligence, augmented reality and more. Maryland is home to a wide range of manufacturers. Check out our website and social media for updates on the Festival as we get closer.