

# 2020 Charleston STEM Festival Exhibitor Descriptions

*(Provided by Exhibitors)*

## **ACTIVITY FIELD- Outside**

### **39 - Girl Scouts of Eastern South Carolina**

Stop by our booth to learn about physics while creating "a cotton ball canon." We will also have cookies for tasting!

### **40 - Healthy 4 Life**

A screening of your spine and spinal alignment to examine its' health and explain its' basic mechanics. It is a health and wellness screening and educational explanation as to what we find and how it may or may not affect a person.

### **41 - LeafFilter North of South Carolina, LLC.**

LeafFilter Gutter Protection; Promotional Display Booth. No sales will be made at this event.

### **42 - Kinetic Derby Day**

We would want to display a sample soapbox car for kids to get in and play with. We want to engage families that might be interested in building a car for Kinetic Derby Day in the City of West Columbia. YES! Kids get to play in a SOAPBOX CAR!

### **43 – Redux Contemporary Art Center**

### **44 - Nucor Steel**

We will have a foundry set up to show the steel making process. We will also have a few other hands on displays.

### **45 – Trident Technical College**

### **46 - Charleston County School District**

Come participate in the exciting and engaging STEAM lessons and activities that our CCSD scholars experience in their classrooms. Hand-on-activities are facilitated by scholars and teachers from CCSD schools.

### **47 – Dominion Energy**

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## ***48 - ABCNEWS4***

We will have green screen simulation so guest can see what it's like to do the weather forecast on television.

## ***49 – Cummins Turbo Technologies***

## ***50 – Ye Ole Fashioned Ice Cream***

## ***51 - Clemson University Restoration Institute***

The Clemson University Restoration Institute will have three main activities. A pair of bicycles will develop a tactile understanding of power and energy as it relates to exercise. A second exhibit will demonstrate the fields of computer science and digital modeling in relation to video game and movie development. The third exhibit will be a hands-on experiment to understanding archaeology and conservation science.

## ***52 - South Carolina Department of Natural Resources***

Learn about the exciting animals that call the estuary home. Participants will identify local species of fish and learn about how they are studied.

## ***53 - Volvo Car US Operations***

Stop by the Volvo Car US Operations exhibit to test your skills at assembling a vehicle with our Lego car build activity. You can also check out our S60 sedan - being built right here in South Carolina!

## ***54 - Ingevity***

Specialty chemicals that purify, protect, and enhance the world around us. Through a team of talented people, Ingevity develops, manufactures, and brings to market products and processes that help customers solve complex problems.

## ***55 - Dorchester School District Two***

We want to provide exposure at an earlier age to encourage students to become tomorrow's innovators in Science, Technology, Engineering, and Math. We will offer the audience and participants the opportunity to obtain hands-on experience and engage with educators who are leaders in their field.

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## ***56 – Dorchester School District Two***

We want to provide exposure at an earlier age to encourage students to become tomorrow's innovators in Science, Technology, Engineering and Math (STEM). We will offer the audience and participants the opportunity to obtain hand-on experience and engage with educators who are leaders in their field.

## ***57 - Dorchester School District Two - Fort Dorchester High School***

We want to provide exposure at an earlier age to encourage students to become tomorrow's innovators in Science, Technology, Engineering and Math (STEM). We will offer the audience and participants the opportunity to obtain hand-on experience and engage with educators who are leaders in their field.

## ***58 - Dorchester School District Two***

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## ***59 - Dorchester School District Two - Robotics Team 342***

Robotics is an excellent example of the application of STEM in a truly hands-on activity. Team 342 will provide a slide-show presentation with a student narrating the 2020 robot build season - from the introduction of the goals/game to the finalized competition robot. Additionally, the attending public will be allowed and encouraged to try their skills at driving one of our robots and scoring with a game piece.

## ***60 – Charleston Battery***

## ***61 - King and Fields***

Twenty years ago, a family had one camera and a few rolls of film to document everything. Now every family member with a phone has the freedom to take pictures all day long. We'll show that evolution to those who may have never even heard of a Nikon or Leica, but have a passion for photography. From a photo booth, to a Polaroid, to a Leica, to the best modern digital cameras out, we'll show the differences, and what makes every camera unique and magical to use and experience.

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## ***62 - Advantage Healthcare of Charleston***

Illustrates how people distribute their weight and posture to reveal the causes of back, neck, shoulder, and knee pain. Gives participants the ability to see a mirror image to how they carry their head, shoulders, and hips. Valuable information on pain management and literature on drug free pain relief. We have an educated and highly engaging staff that is passionate about helping people. We are able to show participants when they need help.

## ***63 - Charleston Fossil Adventures, LLC***

Come discover fossils from prehistoric creatures that used to roam -- and even swim -- across the Lowcountry. Discover what it takes to become a fossil through our interactive games, and even spin the prize wheel to win a fossil of your own!

## ***64 - Charleston County 4-H (Clemson Extension)***

4-H is the nation's largest youth development organization and uses a learn-by-doing approach to empower youth to become healthy, productive, and contributing members of society.

## ***65 - Charleston County Stormwater***

## ***66 - South Carolina Wing, Civil Air Patrol***

Civil Air Patrol offers cadets (12+) and senior members (18+) outstanding STEM opportunities year round. Visit their booth to learn about their exciting STEM Kits and use a couple of them first-hand. Civil Air Patrol offers membership to teachers through its Aerospace Education Program, and can provide free STEM kits to homeschool teachers, professional teachers and others who work with youth, as part of its STEM Education Program.

## ***67 - South Carolina State Museum***

Get ready to think outside the bubble as we explore the "science-sphere". Put your design skills to the test in our marble machine challenge! Make a splash as we investigate the science of suds. Have fun in the sun as we learn about the "star" of our solar system create our own solar jewelry. We're not saying you'll lose your marbles, but you'll definitely have a ball!

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## **68 - SC-PEACH (MUSC)**

Learn about how our cells work, how our DNA works and what type of organisms make us sick. We will have a microscope to visualize real examples of different cell types. We will also have fun facts and activities to help students learn about cells, DNA and bacteria.

## **69 - TeachKind**

People for the Ethical Treatment of Animals (PETA) is the largest animal rights organization in the world. TeachKind, "PETA's humane education division" works with educators to promote social and emotional learning (SEL), trauma-informed education, and humane science education with free lesson plans, professional development training and one-on-one support. We will have hands-on games, interactive technology, augmented reality, and lots of giveaways!

## **70 - SC Space Grant**

NASA STEM hands-on activities

## **71 – Berkeley Electric**

## **72 - Carolina Studios**

Carolina Studios is a non-profit organization with the mission to provide students a safe environment that fosters creative, educational, and career-focused initiatives through music technology and media arts. Each day at Carolina Studios, students learn how to create, arrange and record original songs through music technology that teaches both creative expression and valuable computer skills needed for a brighter future. Our recording studio bus has 7 computers, 7 midi keyboards, and a recording booth with a microphone.

## **73 – Skyview Aerial Solutions- Drones**

## **74 – Charleston STEM Festival Information Booth**

## **75 - Charleston County Public Library**

Check out hands on STEM activities with the library!

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## ***Early Childhood Pavilion***

### ***76 - Children's Museum of the Lowcountry***

Children and families are invited to use their creativity and explore STEAM (Science, Technology, Engineering, Arts, and Math) together! Can you complete our hands-on STEAM challenges?

### ***77 - Dorchester School District Two - Joseph Pye Elementary School***

Teachers from Joseph R. Pye Elementary School will engage learners of all ages as they Explore, Discover, Learn, and Lead with STEAM. Participants will have the opportunity to experience highly engaged, hands on STEAM activities from our classrooms. Come Explore with our STEAM bins, discover the power of circuitry, and Learn with Ozobots. Leading to the power of what is possible.

### ***78 - Dorchester School District Two***

With the Help from the Engineering Design Process, the problem solvers at Oakbrook Elementary School embrace the challenge. Explore with us the concept of a new and improved library system, making your checkout process easier, more effective and best of all, most efficient! The Bearbots will explain step by step how and why this technology has real world value not only to them but you as well. The team will also showcase their LEGO First League Robot from its inception to completion. Watch as they run it through its' paces in quest of the best possible outcomes! We are excited to share STEM as we "live" it here at Oakbrook Elementary. #2. The spell of Harry Potter is one that seems destined to last from generation to generation. We are excited to teach some of the science behind the magic! Join us for some Harry Potter science experiments and projects that are sure to thrill and delight, like making your own magic wand or casting Wingardium Leviosa!

### ***80 - Polish-American Society of Charleston, SC***

Did you ever wonder why metal feels cold and cardboard feels warmer? We will do an experiment that helps you understand the concept of Specific Heat a little bit better. Learn how to use an infrared thermometer.