VIRGINIA TECH

SCIENCE FESTIVAL

October 27, 2018



10:00 - 4:00 Festival expo

4:30 - 6:00 Nutshell Games at the Moss Arts Center

www.vt.edu/sciencefestival

SCIENCE IS IN THE ARTS

SWARM

Moss Arts Center, Virginia Tech Ages 8 and up

SCIENCE IS ASKING QUESTIONS Moss Arts Center, Turner Street entrance

Science in Real-time Center for Research in Science, Engineering, Arts, and Design Education, Virginia Tech All ages

1

1

SCIENCE IS IS COMMUNICATION Moss Arts Center Learning Studio, Room 2

Alchemically, an Educational Role-Playing Game Creative Technologies, Virginia Tech Ages 8 and up

The Gardenator: How Well Do You Know the Garden? Tech on the Trail, Virginia Tech All ages

Write to Excite: Exploring Writing in Engineering and the Sciences Engineers' Forum, Virginia Tech Ages 5 and up

Data Distortion - Sea Surface Temperature Rise School of Visual Arts, Virginia Tech All ages

Coding Kids - Exploring Computer Science in Information Technology Department of Information Technology, Virginia Tech Let's Code Blacksburg! Ages 8 and up

SCIENCE IS SENSORY-FRIENDLY Moss Observation Room, Room 251

Sensory-Friendly Space Center for Autism Research, Virginia Tech All ages

SCIENCE IS IN THE CUBE Moss Arts Center, Cube

Bringing Fossils Back to Life: an Immersive Documentary

10:00 a.m. - 12:00 p.m. Paleobiology Research Group Institute for Creativity, Arts, and Technology, Virginia Tech All ages

Under the Net (United Nations Foundation's 360° documentary experience)

12:00 p.m. - 2:00 p.m. United Nations Foundation / Nothing But Nets School of Visual Arts, Virginia Tech Ages 8 and up

The Visual Language of Chromatin

2:00 p.m. - 4:00 p.m. Entomology, Computer Science, School of Visual Arts, supported by the Institute for Creativity, Arts, and Technology, Virginia Tech All ages

SCIENCE IS BIGGER THAN YOU THINK Moss Arts Center, Grand Lobby

Virus Tracker Biocomplexity Institute, Virginia Tech All Ages

Multiply Moss Arts Center, Virginia Tech All ages

4-H Science: Drone Discovery Virginia 4-H Department of Agricultural, Leadership, and Community Education, Virginia Tech Ages 5 and up

Inspire Kids to Do Science Virginia 4-H, Virginia Cooperative Extension Virginia Cooperative Extension, National 4-H Virginia Tech Ages 5 and up

The Magical World of Microbes Novozymes Biologicals, Inc. Ages 8 and up

Exploring the Solar System Roanoke Valley Astronomical Society Ages 5 and up

Science Museum of Western Virginia Science Museum of Western Virginia Ages 5 and up

Science at VT! College of Science, Virginia Tech All ages

Responsive Interior Surface // BarkLight School of Architecture + Design, Department of Computer Science, Virginia Tech Ages 11 and up

SCIENCE IS ROBOTICS Moss Arts Center, Grand Staircase

Musical Interactions with Robots and Computers The Mind Music Machine Lab, Virginia Tech All ages

4

4

Code-Program-Control Institute for Creativity, Arts, and Technology, Virginia Tech All ages

3D Printing with the DREAMS Lab DREAMS Lab, Virginia Tech All ages

e-Nable: A Global Network of Volunteers Delivering Free 3D-Printed Prosthetics e-Nable: A Global Network of Volunteers Delivering Free 3D-Printed Prosthetics e-Nable: A Global Volunteer Network Giving the World a Helping Hand Ages 5 and up

SCIENCE IS WELL-BEING

Moss Arts Center, Orchestra Lobby

Carilion Children's Teddy Bear Clinic Carilion Children's of Carilion Clinic All ages Humpty Dumpty Seat Belt Safety - Buckle Up Carilion Clinic / Carilion New River Valley Medical

Center Trauma Services All ages

DermaScan - See the Light of Skin Damage Carilion Clinic / Carilion New River Valley Medical Center Ages 5 and up

Better Breathers Respiratory Therapy Jefferson College / Carilion All ages

da Vinci Xi Surgical Robotic System Carilion Clinic / Carilion New River Valley Medical Center Intuitive Ages 5 and up

SCIENCE IS LIFE Moss Arts Center, Mezzanine Lobby

Adventure meets Research: Citizen Science and Technology on the Trail Department of Computer Science, College of Engineering, Virginia Tech Ages 5 and up

Creepy Carnivorous Plants Hahn Horticulture Garden, Virginia Tech All ages

Inside Reptiles (and You) McGlothlin Lab, Department of Biological Sciences, Virginia Tech All ages

Illusions as a Tool for Science The Socha Lab, Virginia Tech All ages

Paleontological Research Opportunities and Fossils, Too Paleobiology, Virginia Tech All ages

Our Green World Massey Herbarium, Virginia Tech All ages

Understanding Ticks and Lyme Disease in the New River Valley

Fralin Life Science Institute College of Agriculture and Life Sciences, Virginia Tech All ages

Microbiology in Your Daily Llfe

Microbiology Club, Virginia Tech All ages

The Student Chapter of the Wildlife Society at Virginia Tech

The Student Chapter of the Wildlife Society Fish and Wildlife Natural History Collection, Virginia Tech All ages

Strawberry DNA Extraction

2nd Floor

Biomedical Engineering Society Onco-Engineering Lab, Virginia Tech Ages 5 and up

More...

Reference of the second s

Alumni Mall:

Torgersen Hall: 1st Floor

Mezzanine Lobby

2

Newman Library: 1st Floor

Moss Arts Center: 2nd Floor, Galleries, Turner St.

Turner St. Cube

Grand Lobby

Portico, Lawn

tion Lown

Grand Staircase, Orchestra Lobby

4th Floor

SCIENCE IS THE EARTH Moss Arts Center, Balcony Lobby

Learning About Weather Processes Can Be Fun Meteorology Club, Virginia Tech Ages 8 and up

Hands-On Volcano Deformation Demonstration and Data Stream

Geodesy and Tectonophysics Laboratory Geosciences Modeling and Educational Demonstrations Laboratory, Virginia Tech Ages 5 and up

Minerals: Treasures of the Earth Geology Club, Virginia Tech Ages 8 and up

Looking Down is Looking Up: How we Learn from Aerial Photography

College of Natural Resources and Environment Departments of Geography, and Forest Resources & Environmental Conservation, Virginia Tech Ages 5 and up

Watershed Engineering & Education with LEWAS Learning Enhanced Watershed Assessment System, Virginia Tech Ages 11 and up

Stream Team Build-A-Stream Biology Department - Stream Team, Virginia Tech All ages

NanoEarth: What is Nano and What Does It Have to Do with the Earth and the Environment? NanoFarth

Center for Sustainable Nanotechnology, Virginia Tech Ages 5 and up

Assessing Water Quality of Local Water Bodies American Water Resources Association Student Chapter, Virginia Tech Ages 8 and up

SCIENCE IS MESSY Moss Arts Center, Portico

The Human Powered Submarine Human Powered Submarine, Virginia Tech Ages 8 and up

Magnetic Shenanigans Center for Enhancement of Engineering Diversity, Virginia Tech All ages

Science of Slime: Non-Newtonian Fluids in Action

Da Vinci Living Learning Community Curie Living Learning Community, Virginia Tech All ages

Are You Gellin'? Moore Research Group, Virginia Tech Ages 5 and up

The Power of Polymers Schulz Research Group, Virginia Tech Ages 5 and up

Playing with Polymers Children's Museum of Blacksburg All ages

FIRST Team 401 Copperhead Robotics Demonstration

Montgomery County Public Schools Ages 8 and up

SCIENCE IS MESSY Moss Arts Center, Lawn

6

Everyday DNA Department of Biochemistry, Virginia Tech Ages 5 and up

Soil Liquefaction

Earthquake Engineering Research Institute, Virginia Tech All ages

Exploring the Solar System with Telescopes Roanoke Valley Astronomical Society Ages 5 and up

Rocketry Rocketry, Virginia Tech Ages 8 and up

Rad Rockets School of Education, Integrative STEM Education Program, Virginia Tech Ages 5 and up

SCIENCE IS ON THE ROAD Alumni Mall

Carilion Ground Transportation Ambulance Carilion Clinic Patient Transportation All ages

Carilion Children's Ambulance Carilion Clinic Patient Transportation All ages

Hybrid Electric Vehicle Team at Virginia Tech Hybrid Electric Vehicle Team, Virginia Tech All ages

Motorsports Formula SAE Motorsports Formula SAE, Virginia Tech Ages 8 and up

Baja Baja SAE, Virginia Tech Ages 5 and up

BOLT at Virginia Tech BOLT, Virginia Tech All ages

Inspiration Lab Institute for Advanced Learning and Research Ages 5 and up

SCIENCE IS SAFETY Torgersen Hall, Room 1100

Helmet Ratings: Is Your Sports Helmet Safe? Helmet Research Lab, Virginia Tech All ages

Technology in Motion - How Computers Move Us SAFE-D National University Transportation Center Virginia Tech Transportation Institute, Virginia Tech Ages 5 and up

Brain Drain: The Role of Fluid Flow in **Brain Cancer**

> Onco-engineering Lab Biomedical Engineering Society, Virginia Tech All ages

Seeing Your Mind Through Your Eyes!

7

8

iLanguage, Executive Function, Attention, Parenting Laboratory (iLEAP), Virginia Tech All ages

Deception of the Senses Neuroscience Club, Virginia Tech Ages 5 and up

SCIENCE IS MOTION

VT Physics Outreach Physics Department, Virginia Tech All ages

9

9

9

10

Wind Power Wind Turbine Team, Virginia Tech All ages

Seeing Engineering Everywhere: Hands-On with the VT PEERS Project Department of Engineering Education, Virginia Tech Ages 5 and up

Exploring Circuits Institute of Electrical and Electronics Engineers, Virginia Tech Ages 5 and up

The Color Project TM Chromilluminator The Color Project TM Equity Through The Arts All ages

Engineering and Scientific Applications of Autonomous Drones Autonomous Drone Team, Virginia Tech Ages 8 and up

SCIENCE IS HANDS-ON Torgersen Hall, Room 1120

> **Building with Dirt** Geotechnical Student Organization, Virginia Tech Ages 5 and up

SCIENCE IS HELPFUL

Making Technology Accessible Technology-enhanced Learning and Online Strategies, Virginia Tech Ages 5 and up

SCIENCE IS PROCESS Newman Library, New River

Newman Library Technology Showcase University Libraries, Virginia Tech Ages 5 and up

FabLab Club Virginia Western Community College Ages 5 and up

Crystal Critters All ages

The Curiosity Shop: Physics Demonstrations to **Stir Your Curiosity** The Curiosity Shop Ages 5 and up

2nd Floor

More...

💦 SAFE – Supporting Autism-Friendly Environments. Exhibitors who attended a SAFE Mentor training.

Alumni Mall:

Moss Arts Center:

7

2nd Floor, Galleries, Turner St. Cube

Newman Library: 1st Floor

Grand Lobby

Grand Staircase, Orchestra Lobby

4th Floor

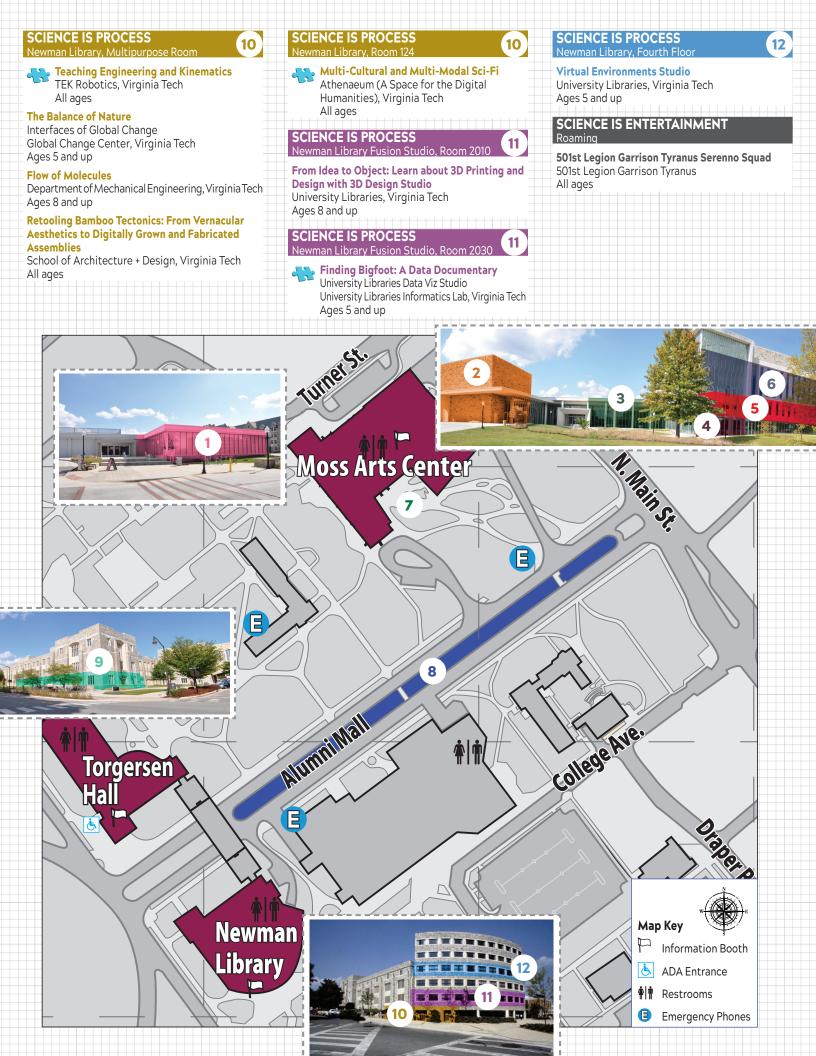
Mezzanine Lobby

Torgersen Hall: 1st Floor

Balcony Lobby

Portico, Lawn

9



• THANK YOU TO OUR SPONSORS!

PLATINUM



OFFICE OF THE EXECUTIVE VICE PRESIDENT AND PROVOST

GOLD



INSTITUTE FOR CREATIVITY, ARTS, AND TECHNOLOGY VIRGINIA TECH.





COLLEGE ACCESS COLLABORATIVE







SILVER

Virginia Tech Center for Communicating Science

Science Museum of Western Virginia Virginia Tech College of Science Virginia Tech Department of Mechanical Engineering Technology-enhanced Learning and Online Strategies (TLOS) Novozymes BRONZE

Virginia Tech Center for Autism Research Carilion Clinic