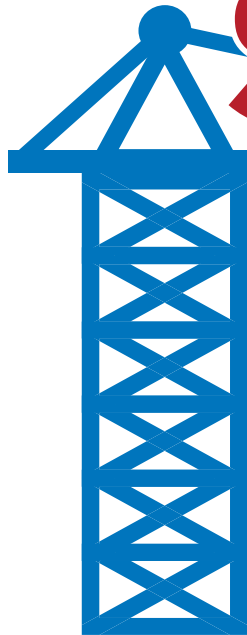


# Roper Mountain

# STEMFest



**BUILD**

**TOGETHER**

**Saturday, February 8**  
**9:00am-3:00pm**



## Friday Starry Nights

Shows at 6:00pm & 7:30pm  
Visit [RoperMountain.org](http://RoperMountain.org) for details



## Summer Exploration Camps

Guide available online now  
Member registration opens on February 17



## Butterfly Adventure

Be amazed with an up close encounter as hundreds of butterflies surround you in our butterfly adventure habitat.  
Returns June 9.



## RMSC Membership

Become a member of Roper Mountain Science Center! Benefits include free admission to Second Saturdays, Starry Nights, Butterfly Adventure, and more!



## HARRISON HALL OF NATURAL SCIENCE

SHUTTLE STOP ②

### Discovery Room A

- **Upstate SC STEM Collaborative** A Musical Affair: Using only the materials provided, build an instrument that makes sound. Bonus points for creativity!
- **iImagine Upstate** Newspaper Pots: Create your own biodegradable pot and take a seed home to start your spring garden.

**Discovery Room B - Duke Energy** Hand-Held Energy! Explore insulators and conductors of electricity using everyday household items and your friends to conduct electricity!

**Rainforest** - Live animals

**Rainforest Lab - ZF** Learn how to generate electricity by pedaling a bicycle to power an RC slot car. Do not pedal too fast or you might fly off the track! See the inside of an automotive transmission and shift gears yourself.

**Ecology Lab - East North Street Academy Girls Loving Science (Sponsored by Michelin)** Rolling Down Hill: Civil Engineering Design Challenge - Design landscaping to control erosion at a building site.

**Marine Lab** - Touch tanks and marine life exhibits

### Design Lab

- **Fisher Middle School** Student-developed STEAM projects; operate VEX robots & more.
- **Greenville Early College Program** Explore student designed micro-shelters.
- **DRUM percussion studios** Hands-on stations connecting percussion to STEM! Produce sounds, compose and play your own rhythms, learn about the engineering that produces instruments, and explore the techy side of music production.

### Paleo Lab

- **Re-Craft** "Make It, Take It" Use locally sourced materials in our prototyping stations to create something new.
- **Synergy Mill and Re-Craft** Learn how to solder and make a bracelet.

**Mineral Lab - Greenville Water** How Water Works - Build a water system! Use PVC pipes to get water from the tower to your home. Join Greenville Water staff to see how drinking water is tested and guide your own virtual tour of how water is collected, treated, and distributed.



## LIVING HISTORY FARM

SHUTTLE STOP ②

**Around the Farm** - Blacksmithing, woodworking, and hearth cooking demonstrations. One-room school lessons (Lessons on the half hour, from 9:30 a.m. - 1:30 pm), toys and games, quill writing, and farm animals.



## GIANT DOME THEATRE AND HOOPER PLANETARIUM

SHUTTLE STOP ③

### Planetarium: Feature Shows

- "Cosmic Colors" 10:00am, 12:00pm, 2:00pm
- "Dynamic Earth" 11:00am, 1:00pm

**Daniel Observatory** (weather permitting)

Observe the sun with Roper Mountain Astronomers from 10:00am - 2:00pm



## SYMMES HALL OF SCIENCE

SHUTTLE STOP ③

**Hipp Auditorium - EnTech 281 First Robotics Team** Robot demonstrations, 10:30am, 11:00am, 11:30am, 12:00pm, 1:00pm, 1:30pm

**Lower Lobby - YuMi** Help program YuMi the robot to dance.

**Lab 1 - ABB** Use your own mechanical energy to power a party, get hands-on with viscosity and see if you are powerful enough to lift a large weight (with a physics trick) and more.

**Lab 2 - BMW Manufacturing** Explore automotive robotic technology and automated guided vehicles (AGV), take the Circuit Challenge with BMW, and spin the prize wheel!

### Lab 3 & 5

- **Harper Construction** Explore the digital world of a modern construction project through a hands-on tour. Use mobile devices to investigate how these new facilities are being built.
- **Craig Gaulden Davis Architects** Imagine and build a city by designing a unique structure. Develop buildings, roads, bridges, and more to populate a future Greenville.

**Lab 4 - Michelin** You become the engineer by building with Legos from engineering drawings. See the latest Michelin products designed and engineered right here in Greenville!

**Lab 7 - General Electric** Become an engineer in the GE design center. Build and test a balloon powered car.

**Lab 8 - Clemson Emag!ne** 3D printing and more. See 3D models and use a 3D scanner. Use 3D printing pens and other prototyping materials to build your own creation. Explore Virtual Reality (VR) with the Immersive Space team.

### Lab 9 - AFL

Explore a world of light with AFL! Build a hologram projector to take home. Get hands-on with activities that explore the properties of light and its usage in fiber optic cables.

**Lab 10 & Great Room/Upper Open Area - Fluor** Engineering challenges (provided by Fluor) to make circuits, instant snow, acids and bases, and more. Learn what engineers do, draw a floor plan of your house, and take the bridge design challenge.

### Upper Lobby

- **Computer Source, 3D Printers Too** - The world of 3D printing in action.
- **Greenville Drive** - Visit with Greenville Drive mascot REEDY RIP'IT! from 11:00am-2:00pm and enter to win a Greenville Drive prize pack.



## FOOD TRUCKS

SHUTTLE STOP ③

**In front of Symmes Hall of Science** (beginning at 11:00am):

- Chick-fil-a
- Cluck Squeal and Friends



RETURN TO RMSC ON MARCH 14  
FOR OUR SPACE DAY SECOND SATURDAY

2ND  
SAT



VISIT RMSC FROM JUNE 9 - JULY 10 FOR  
THE RETURN OF BUTTERFLY ADVENTURE

# Second Saturday

**Roper Mountain**  
RoperMountain.org

GREENVILLE COUNTY  
**SCHOOLS**  
Inspire | Support | Prepare



## RMSC COMMUNITY PARTNERS

We gratefully acknowledge these individuals, foundations, organizations and corporations whose annual gifts have helped to support Roper Mountain Science Center.

### VISIONARY - \$20,000+

Duke Energy Foundation • Fluor Foundation • Greater Greenville Sanitation • Greenville Water  
John I. Smith Charities • The Jolley Foundation • Ernest and Betty Lathem • Lockheed Martin  
Michelin Charity Golf Tournament • Piedmont Arthritis Clinic, PA • ScanSource • Symmes Foundation

### EXPLORER - \$15,000

GE • Greenville Evening Rotary Charities, Inc • Bill and Jean Schmidt



**WANT TO KNOW MORE ABOUT HOW TO SUPPORT  
ROPER MOUNTAIN? VISIT ROPERMOUNTAIN.ORG.**