



PHYSICS & ENGINEERING FESTIVAL

Saturday, April 6, 2019 10:00am - 5:00pm

10:00 am - 3:30 pm	Hands on Science Exhibits	Mitchell Physics and Mitchell Institute Buildings
11:00 am	Public Lecture: “Out of this world repairs – servicing the Hubble Space Telescope” by Astronaut Nancy Currie-Gregg	Hawking Auditorium (MIST)
11am, 1pm 2:30pm	Bubble Shows by Keith Johnson	Mitchell Physics Lecture Hall (2nd Floor)
2:00 pm	Public Lecture: “Laying the cornerstone of the International Space Station” by Astronaut Nancy Currie-Gregg	Hawking Auditorium (MIST)
4:00 pm	Public Lecture: “Planet Nine from Outer Space” Professor and Author Michael Brown	Mitchell Physics Lecture Hall (2nd Floor)

NASA’S Driven to Explore Mobile Exhibit

10:00 am – 3:30 pm || Lot 5

Low Temperature Extravaganza with Prof Glenn Agnolet

10:30 am, 12:00 pm, 1:30 pm, 2:30 pm
Room 213 MPHY (Mitchell Physics Building)

Large Hadron Collider Virtual Tours

11:00am & 12:00pm || Hawking Auditorium

LHC team will be present all day to answer questions and describe the research at CERN/CMS/LHC.

5-Barrel Depth Charge

** Featuring the Aggie Yell Leaders **

3:30 pm - South-side of Mitchell Physics Building

Show off your physics knowledge and win prizes!

Take the demo quiz, located on the first floor of the Mitchell Building.

All events are sponsored by the Texas A&M University System, The College of Science, Department of Physics & Astronomy, The George P. and Cynthia Woods Mitchell Institute, Col. Hal Schade '67, Charles R. '62 and Judith G. Munnerlyn, Susan Sheskey, Michele Mobley '87, Ahmed Mahmoud '87, The Willard and Anne Levin Foundation, Purna C. Murthy' 88, CC Creations, Schlotzsky's College Station, ExxonMobil, and Pepsi.

Texas A&M University does not assume any supervisory responsibility for minors attending the Festival.

1st Floor, Mitchell Institute (MIST)

- A Century of Particle Detection
- Chaotic Pendulums
- Cornstarch Ion Trap
- Expanding Universe
- Foucault Pendulum
- Invisible Water Balls
- Magic Bubbles
- Pendulum Waves
- Resonant Pendulum
- Rubens' Tube
- Screaming Rods
- Skyhooks
- Tetrahedron Puzzle Blocks
- Van de Graaff Generator
- Vortex Generator (aka Smoke Ring Cannon)
- Walking Rings
- ...and many more!

Laser Demos

107, 109 Laser Room
1st Floor Mitchell Physics Building

Texas Sized Tesla Coil

Basement, Mitchell Physics
Building (MPHY)

Dr. Lee's Lab

Basement, Mitchell Physics
Building (MPHY)

2nd Floor, Mitchell Physics Building (MPHY)

- Physics of Cooking
- Atom Smasher
- Can Crusher
- Cryogenics "Cool Stuff"
- Downhill Race with Cookie Cans
- Eddy Current Pendulum
- Egg Roll
- Electromagnetic Alternator Bike
- Fun with Magnets
- Homer Robot
- Magnetic Slime
- Lenz's Law
- Levitron
- Magnetic Accelerator Rifle
- Make a Quake
- Jumping Rings
- Mirages and Light scattering
- Mouse Traps Chain Reaction
- Quadrotors and Helicopters
- The Toy Table for Chemists
- Tunes with Wine Glasses
- Tensegrity Robot
- ...and many more!

1st Floor, Mitchell Physics Building (MPHY)

- Attracting Bowling Balls
- Bernoulli Principle with Leaf Blower
- Blue Sky
- Car Race Brachistochrone
- Chicks in Space
- Cloud Formation
- Color Mixing
- Demo Quiz
- Elipital Pool Table
- Fluorescence
- Galileo Feather and Coin
- Grapes Plasma
- Gravity Well
- Heron's Fountain
- Infinity Mirror
- Infrared Imaging
- Jacob's Ladder
- Laser Show
- Levitating Train
- Light Bending Demo
- Lissajous
- Multiple Reflection Mirrors
- Nitrogen Discharge Laser
- Non-newtonian Fluid
- Pipe Drums
- Polarization Demo
- Reike Tubes
- Shooting Balloons with a Laser
- Spoke POV
- Tornado
- ...and many more!

Outdoor Areas

- Atmospheric Pressure
- Balloon Demo (Density Experiment)
- Briefcase Gyroscope
- Catapult
- Constarch Pool
- Coriolis Carousel
- Depth Charge
- Fire Piston
- Fire Tornado
- Floating Head
- Galileo's Cannon
- Fun with Friction
- Hovercraft
- Metronomes
- Lazy-susan & Hand Weights
- Liquid Sand
- Making a Comet
- Methane Bubbles
- Observing Sun Spots with telescope
- Optical Illusions
- Ping Pong Cannon
- Sand Lever
- Soapy Bubbles
- Sports Physics
- Square-Wheel Bicycle
- Third-Law Force Pair
- Vacuum Lifter
- Will Solar System Planets Float in a Giant Bathhtub?
- Your Weight on Different Planets
- ...and many more!

