



Physics & Engineering Festival

Saturday, April 13, 2024 | 10:00 a.m. – 4:30 p.m.

MAIN EVENTS

10:00 AM – 11:00 PM	Dr. James G. Potter Lecture: “The Greeks, Einstein, and Alien Worlds: The Importance of Eclipses” by Dr. Nicholas Suntzeff	Mitchell Institute (MIST), Hawking Auditorium
10:00 AM – 3:00 PM	Hands-On Science Demonstrations	Mitchell Physics Complex & Outdoors
10:00 AM, 12:30 PM, 2:00 PM	Science Circus by Rhys Thomas	Mitchell Physics Bldg. (MPHY) Lecture Halls, Rooms 203-205
11:30 AM – 12:30 PM	“Human Space Exploration for Everyone” by Dr. Greg Chamitoff	Mitchell Institute (MIST), Hawking Auditorium
3:00 PM	Grand Finale Depth Charge Blast	South Side (Outside) of Mitchell Physics Bldg.
3:30 PM – 4:30 PM	Mitchell Lecture: “Vanishing Stars and the Hunt for Extraterrestrial Artifacts” by Dr. Beatriz Villarroel	Mitchell Physics Bldg. (MPHY) Lecture Halls, Rooms 203-205

SPECIAL EVENTS & BONUSES

10:45 AM, 11:30 AM, 12:15 PM, 1:00 PM, 1:45 PM	Low Temperature Extravaganza	Mitchell Physics Bldg. (MPHY), Room 213
12:45 PM, 1:45 PM	Big Barrel Implosion	South Side (Outside) of Mitchell Physics Bldg.
1:00 PM	Large Hadron Collider	Mitchell Institute (MIST), Hawking Auditorium
ALL DAY	MaroonBase Points: TAMU Students may rack up points while attending events to win prizes!	Download the app at the URL: tx.ag/mbase

SCAN ME



SCIENCE BOX GIVEAWAY!

Enter for a chance to win science goodies like a festival t-shirt, diffraction glasses & more!

Enter at the URL: tx.ag/sciencegiveaway

- OR -

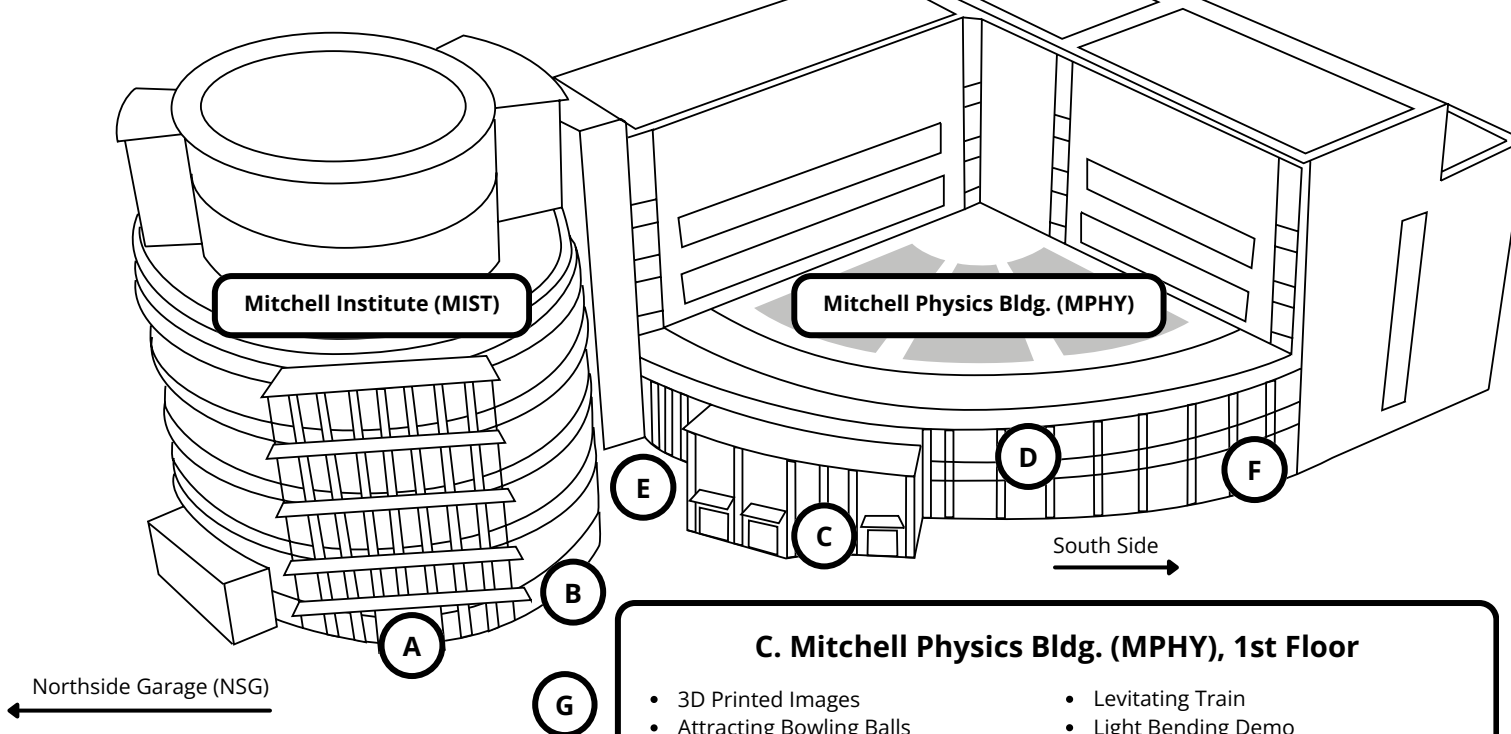
← Scan the QR code

THIS EVENT IS SPONSORED BY HALLIBURTON, MARSHA L. '69 AND RALPH F. SCHILLING '68, NANCY AND ROBERT L. DUNHAM '63, INNOLIGHT TECHNOLOGY USA INC., COL. HAL SCHADE '67, THE COLLEGE OF ARTS AND SCIENCES, THE DEPARTMENT OF PHYSICS AND ASTRONOMY, AND THE GEORGE P. AND CYNTHIA WOODS MITCHELL INSTITUTE. WE ARE GRATEFUL TO ALL OUR DONORS.

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

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Consent declaration: <https://physicsfestival.tamu.edu/photography-consent/>



A. Mitchell Physics Institute (MIST), 1st Floor

- A Century of Particle Detection
- Chaotic Pendulums
- Cornstarch Ion Trap
- Doppler Shift With Lightbulbs
- Foucault Pendulum
- Lissajous
- Magic Bubbles
- Pendulum Waves
- Resonant Pendulum
- Rubens' Tube
- Skyhooks
- Solar Powered Cars
- Van de Graaff Generator
- Vortex Generator (aka Smoke Ring Cannon)
- Walking Rings
- ...and many more!

B. Mitchell Physics Institute (MIST), Room MB02

- Virtual Reality Space Mission With NASA Astronaut Greg Chamitoff

C. Mitchell Physics Bldg. (MPHY), 1st Floor

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| <ul style="list-style-type: none"> • 3D Printed Images • Attracting Bowling Balls • Bernoulli Principle With a Leaf Blower • Car Race Brachistochrone • Drawing With Lasers • Elliptical Pool Table • Falling Up • Gravity Well • Homopolar Motor • Heron's Fountain • Infinity Mirror • Infrared Imaging • Invisible Water Balls • Jacob's Ladder • Laser Waterfall | <ul style="list-style-type: none"> • Levitating Train • Light Bending Demo • Mini Tesla Coil • Muon Detector • Multiple Reflection Mirrors • Musical Inductors • Non-Newtonian Fluid • Pipe Drums • Polarization Monitor • Rodin's Coil • Shooting Balloons With a Laser • Spoke POV • Tornado • Ultrasonic Parameter Speaker • ...and many more! |
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D. Mitchell Physics Bldg. (MPHY), 2nd Floor

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| <ul style="list-style-type: none"> • Astronomy Escape Rooms • Atom Smasher • Cryogenics "Cool Stuff" • Downhill Race With Cookie Cans • Eddy Current Pendulum • Egg Roll • Electromagnetic Alternator Bike • HOMER & Tensegrity Robots • Jumping Rings • Lenz's Law • LIDAR | <ul style="list-style-type: none"> • Make a Quake • Mirages and Light Scattering • Chain Reaction • Never Miss Mini Golf • Oscilloscope Music • Plasma Arc Music • Schlieren Optics • Sonic Levitator • The Toy Table for Chemists • Tunes With Wine Glasses • ...and many more! |
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E. Mitchell Physics Bldg. (MPHY), Basement Hallway

- Texas Sized Tesla Coil (Loud Demo, Ear Buds Provided)

F. 1st Floor Mitchell Physics Bldg. (MPHY), Rooms 107 & 109

- Gravitational Waves
- Laser Demos

G. Outdoor Areas

- Atmospheric Pressure
- Catapult
- Cornstarch Pool
- Coriolis Carousel
- Depth Charge Blast (Loud Demo)
- Floating Head
- Fun With Friction
- Galilean Cannon
- Lazy-Susan & Hand Weights
- Liquid Sand
- Methane Bubbles (Fire)
- Optical Illusions
- Ping Pong Cannon
- Potato Physics
- Sand Lever
- Soapy Bubbles
- Sports Physics
- Square-Wheel Bicycle
- Big Barrel Implosion (Loud Demo)
- Third-Law Force Pair
- Vacuum Lifter
- ...and many more!