



Physics & Engineering Festival

Saturday, April 5, 2025 | 10:00 a.m. – 4:30 p.m.

MAIN EVENTS

10:00 AM – 11:00 PM	Dr. James G. Potter Lecture: “The Call From Stockholm: Nobel Laureates’ First Reactions” by Dr. Adam Smith, CSO for Nobel Prize Outreach	Mitchell Institute (MIST), Hawking Auditorium
10:30 AM – 3:00 PM	Hands-On Science Demonstrations	Mitchell Physics Complex & Outdoors
11:00 AM, 12:30 PM	Science Circus by Rhys Thomas	Mitchell Physics Bldg. (MPHY) Lecture Halls, Rooms 203-205
2:00 – 3:00 PM	“Aggie In Space” by Col. Michael E. Fossum '80, USAFR (Ret.), NASA Astronaut; COO & Exec. Prof., Texas A&M Galveston; VP, Texas A&M	Mitchell Physics Bldg. (MPHY) Lecture Halls, Rooms 203-205
3:15 PM	Grand Finale Depth Charge Blast	South Side (Outside) of Mitchell Physics Bldg.
3:30 PM – 4:30 PM	Mitchell Lecture: “The Mystery of Dark Matter in the Universe” by Dr. Katherine Freese, Cosmologist & National Academy of Sciences Member	Mitchell Physics Bldg. (MPHY) Lecture Halls, Rooms 203-205

SPECIAL EVENTS & BONUSES

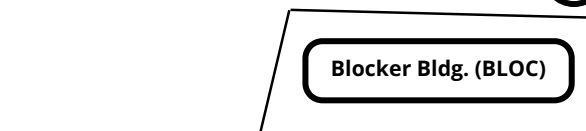
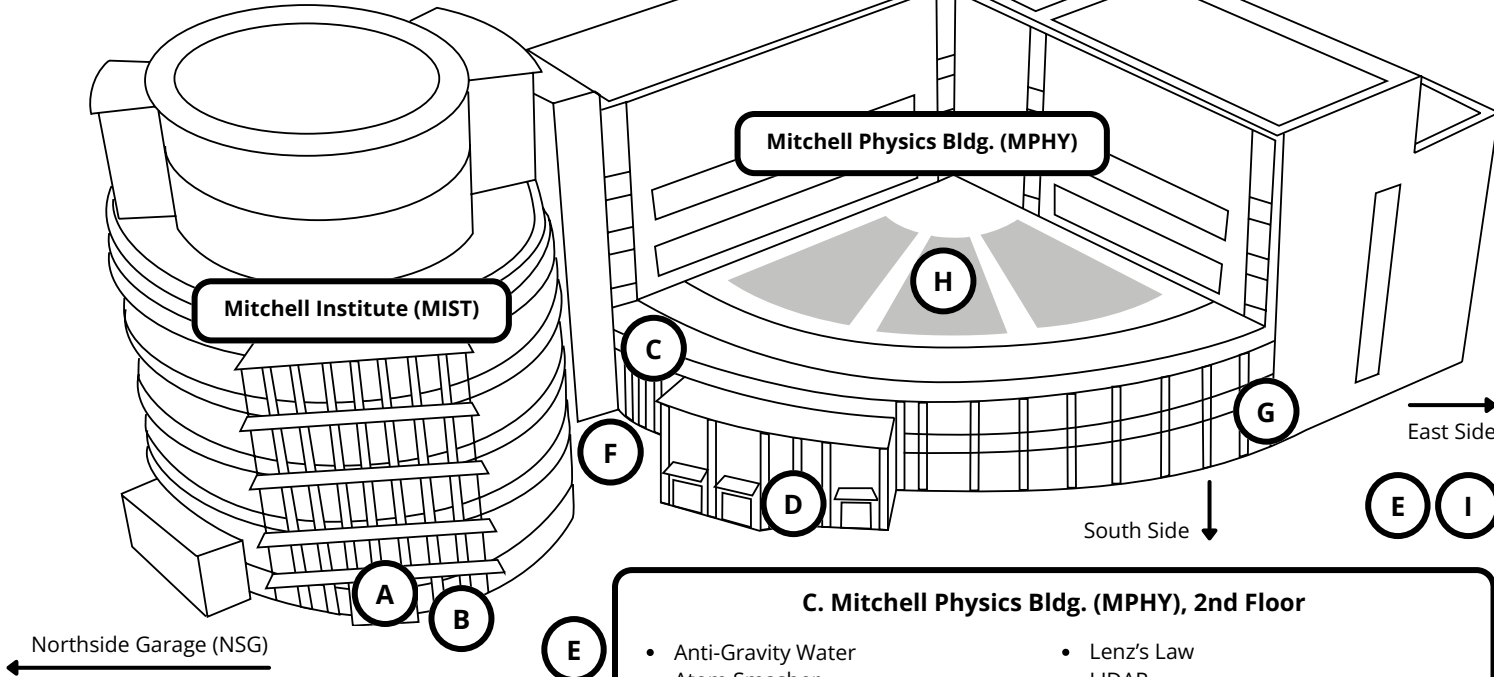
10:45 AM, 11:30 AM, 12:15 PM, 1:00 PM, 1:45 PM	Low Temperature Extravaganza	Mitchell Physics Bldg. (MPHY), Room 213
12:00 PM, 1:30 PM	Big Barrel Implosion	South Side (Outside) of Mitchell Physics Bldg.
1:00 PM	Large Hadron Collider	Mitchell Institute (MIST), Hawking Auditorium
ALL DAY	On-campus food trucks	East Side (Outside) of Mitchell Physics Bldg., Lot 5

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

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- A. Mitchell Physics Institute (MIST), 1st Floor**
- A Century of Particle Detection
 - Expanding Universe
 - Chaotic Pendulums
 - Cornstarch Ion Trap
 - Foucault Pendulum
 - Light Curve Transit
 - Lissajous
 - Magic Bubbles
 - Pendulum Waves
 - Rainbow Window Spectroscopy
 - Resonant Pendulum
 - Rubens' Tube
 - Skyhooks
 - Van de Graaff Generator
 - Vortex Generator (aka Smoke Ring Cannon)
 - Walking Rings
 - ...and many more!

- B. Mitchell Physics Institute (MIST), Basement Floor**
- Hawking Auditorium

- C. Mitchell Physics Bldg. (MPHY), 2nd Floor**
- Anti-Gravity Water
 - Atom Smasher
 - Black Hole Pong
 - Chain Reaction
 - Cloud in a Bottle
 - Cryogenics "Cool Stuff"
 - Downhill Race with Cookie Cans
 - Eddy Current Pendulum
 - Egg Roll
 - Electromagnetic Alternator Bike
 - HOMER & Tensegrity Robots
 - Jumping Rings
 - Laser Eavesdropping
 - Lenz's Law
 - LIDAR
 - Make a Quake
 - Mirages and Light Scattering
 - Pile Driver
 - Plasma Cutter & Toroid
 - Rodin's Coil
 - Sonic Levitator
 - Tabletop Tesla Coil
 - The Toy Table for Chemists
 - Trajectory Launcher Game
 - Visual Guitar Amplifier
 - ...and many more!

- D. Mitchell Physics Bldg. (MPHY), 1st Floor**
- 3D Printed Images
 - Attracting Bowling Balls
 - Bernoulli Principle with Leaf Blower
 - Car Race Brachistochrone
 - Cobra Weave
 - Elliptical Pool Table
 - Gravity Well
 - Hands On Quantum Entanglement
 - Infinity Mirror
 - Infrared Imaging
 - Invisible Water Balls
 - Jacob's Ladder
 - Laser Drawing
 - Laser Waterfall
 - Levitating Train
 - Light Bending Demo
 - Magnetic Fluid
 - Metronomes
 - Multiple Reflection Mirrors
 - Muon Detector
 - Musical Inductors
 - Non-Newtonian Fluid
 - Pipe Drums
 - Polarization Monitor
 - Schlieren Optics
 - Shooting Balloons With a Laser
 - Spoke POV
 - Tornado
 - Ultrasonic Parametric Speaker
 - ...and many more!

- E. Outdoor Areas**
(these demos will go to the Blocker Bldg. if there is inclement weather)
- Atmospheric Pressure
 - Big Barrel (Steel Drum) Implosion
 - Catapults
 - Constarch Pool
 - Coriolis Carousel
 - Depth Charge
 - Floating Head
 - Fresnel Len's Magnification
 - Fun with Friction
 - Galilean Cannon
 - Heron's Fountain/Ferris Wheel
 - Handicraft Hydraulic Press
 - Lazy-Susan & Hand Weights
 - Liquid Sand
 - Methane Bubbles
 - One Stage Rocket
 - Optical Illusions
 - Ping Pong Cannon
 - Potato Physics
 - Sand Lever
 - Soapy Bubbles
 - Sports Physics
 - Square-Wheel Bicycle
 - Third-Law Force Pair
 - Vacuum Lifter
 - ...and many more

- F. Mitchell Physics Bldg. (MPHY), Basement Hallway**
- Tesla Coil (Loud Demo, Ear Plugs Provided)

- G. Mitchell Physics Bldg. (MPHY), 1st Floor, Rooms 107 & 109**
- Laser Demos

- H. Mitchell Physics Bldg. (MPHY), 3rd Floor, Garden Rooftop**
- DIY Radio Telescope

- I. Lot 5 (East Side)**
- Food Trucks
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