



# PHYSICS & ENGINEERING FESTIVAL

## Friday, April 6, 2018

7:00PM	Physics of Cooking with Harvard Professor David Weitz and celebrity chefs Tai Lee and Mitch Siegert	Hawking Auditorium (MIST)
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## Saturday, April 7, 2018

## 10:00am - 5:00pm

10:00 am - 3:30 pm	Hands on Science Exhibits An interactive science exhibition! Kids of all ages (and grown ups, too) are invited to experience and be astounded by all kinds of amazing phenomena.	Mitchell Physics and Mitchell Institute Buildings
11:am, 1pm, 2:30 pm	Science Circus is physics taught with hilarity and dexterity by Rhys Thomas.	Mitchell Physics Lecture Hall (2nd Floor)
11:00 am	Public Lecture: Astronaut Gregory Chamitoff	Hawking Auditorium (MIST)
2:00 pm	Public Lecture: Astronaut Nancy Currie-Gregg	Hawking Auditorium (MIST)
4:00 pm	Public Lecture: Professor and Author Rocky Kolb	Mitchell Physics Lecture Hall (2nd Floor)

**Low Temperature Extravaganza with Profs Glenn Agnolet and Winfried Teizer**  
 10:30 am, 11:30 am, 12:30 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

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 Department of Physics & Astronomy, the George P. and Cynthia Woods Mitchell Institute, Charles R. '62 and Judith G. Munnerlyn, ExxonMobil, the Willard and Anne Levin Foundation, Ahmed Mahmoud '87, Michele Mobley '87, Susan Sheskey, CC Creations, Schlotzsky's College Station, and Pepsi.

## 1st Floor, Mitchell Institute (MIST)

- A Century of Particle Detection
- Balancing Forks
- Chaotic Pendulums
- Cornstarch Ion Trap
- Foucault Pendulum
- Magic Bubbles
- Metronomes
- Pendulum Waves
- Resonant Pendulum
- Rubens' Tube
- Screaming Rods
- Skyhooks
- Van de Graaff Generator
- Vortex Generator (aka Smoke Ring Cannon)
- Walking Rings
- ...and many more!

## Gravitational Waves & Laser Demos

107, 109 Laser Room  
1st Floor Mitchell Physics Building

## Texas Sized Tesla Coil

Basement, Mitchell Physics  
Building (MPHY)

## 2nd Floor, Mitchell Physics Building (MPHY)

- Atom Smasher
- Can Crusher
- Cryogenics "Cool Stuff"
- Downhill Race with Cookie Cans
- Eddy Current Pendulum
- Egg Roll
- Electromagnetic Alternator Bike
- Flight Simulators
- Fun with Magnets
- Hologram
- Lenz's Law
- Levitron
- Magnetic Accelerator Rifle
- Make a Quake
- Jumping Rings
- Mirages and Light scattering
- Mouse Traps Chain Reaction
- Quadrotors and Helicopters
- Tetrahedron Puzzle Blocks
- The Toy Table for Chemists
- Tunes with Wine Glasses
- Virtual Reality
- Wind Tunnel
- ...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
- Elliptical Pool Table
- Fluorescence
- Galileo Feather and Coin
- Grapes Plasma
- GravityWell
- Heron's Fountain
- Index Matching Demo
- 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
- Top Quark
- 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
- Invisible Water Balls
- 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 Bathtub?
- Your Weight on Different Planets
- ...and many more!

