

## INNOVATION STUDIOS

### What is unique about Innovation Studios?

Innovation Studios have the staff and program capacity to consistently change and offer new learning experiences and activities for guests age 8 and older.

### Tweens and Teens

Don't miss the black lights in Designer Studio and the art tables in Doodler Studio.

### Adults

You don't need children to enjoy the Museum. Ask about learning opportunities especially for adults: daily TED lectures in Imaginer Studio; telescope viewings at monthly *Star Parties* and *Celebrity Lecture Series*, a series of programs covering a variety of science, technology, natural history, education, local and regional history. Schedules for all of these adult opportunities will be listed on the Museum's web site as they occur.

### Grandparents

Doodler Studio has a designated "Grand Central Station" offering special resources for grandparents and grandchildren.

### Educators

Imaginer and Designer Studios house the Museum's educator professional development programs, notably the Texas Center for Inquiry, and "Saturday Educator Workshops." Explorer Studio is home to the Museum's distance learning program offering interactive videoconferencing featuring museum educators, curators and scientists. Complete information can be found at [www.connect2texas.net](http://www.connect2texas.net).

### Homeschoolers

Homeschool educators and groups are welcome to participate in any of the Museum's field trip programs. Visit the homeschool page on the Museum's web site to learn more about school year programs for homeschool educators - [www.fortworthmuseum.org/homeschool](http://www.fortworthmuseum.org/homeschool).

### Members

Innovation Studios frequently offer special activities and events for members only. Watch your membership e-mails for event and registration details.

## LEARNING AND RESEARCH COLLABORATORS



The Fort Worth Museum of Science and History is pleased to be working with UTeach Arlington, a new science and mathematics secondary teacher preparation program at The University of Texas at Arlington. One important aspect of the UTeach program includes field experiences for teacher candidates. This spring, four UTeach interns - mentored by the Education Department staff - will be working in Innovation Studios with various groups of Museum guests in a variety of programs. These experiences will help the interns develop a working knowledge of informal learning and how it can be applied to the classroom setting.



The collaboration with the Southwest Center for Mind, Brain, and Education at the University of Texas at Arlington grew out of strategic directives of the Museum's Board of Trustee Innovation Committee with leadership provided by Drs. Steffen Palko and Marc Schwartz. The collaboration aims to explore and exploit principles from the cognitive neurosciences to improve the museum experience for visitors and patrons. Graduate students in the MBE program, working with museum staff and university researchers, investigate and test promising strategies that can be used in museum settings.

## INNOVATION GALLERY ■ APRIL 2013

Transforming lives through extraordinary learning environments

Setting the stage for unique opportunities that nurture your imagination, curiosity and creativity that support science, technology, engineering, arts and mathematics (STEAM) education.

### In the Studios:

#### Inventor - Look!

Inventor Studio highlights various objects from the Museum of Science and History's collection of 135,000 scientific specimens and 45,000 historical artifacts.

#### Doodler - Create!

Creative opportunities with a variety of media.

#### Designer - Light!

Luminous explorations with light, color, and shadows.

#### Imaginer - Investigate!

Investigate movement, motion, waves and sound.



FORT WORTH MUSEUM  
SCIENCE AND HISTORY

The Fort Worth Museum of Science and History, founded in 1941, is accredited by the American Association of Museums.



Smithsonian Institution  
Affiliations Program

817-255-9300  
[www.fortworthmuseum.org](http://www.fortworthmuseum.org)

## NanoDays™

The Biggest Event for the Smallest Science!

**Nanodays: The Biggest Event for the Smallest Science!**

**Saturday, April 6 10 am - 5 pm**

How can something so small be such BIG fun? Find out during NanoDays, an annual nationwide festival exploring nanoscale science.

### Just what IS nanoscale technology?

"Nano" is a suffix that denotes a size - in this case, one billionth (1/1,000,000,000) of a measurement!

Join the Museum, along with the Alan G. MacDiarmid Nanotech Institute at UT Dallas and Eastfield College, for activities that demonstrate nanoscale science.



Program Sponsor



Celebrate Earth Week at the Museum during our "All Systems Earth" festival. Discover how nature recycles to keep our world balanced and learn how we can help inspire positive environmental awareness and green practices. Look inside for more details!

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Transforming lives through extraordinary learning environments.

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<p><b>1 APRIL FOOL'S DAY</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Sergei Rachmaninoff <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>2 1935 - Robert Watson Watt was granted a patent for radar.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Francesco Maria Grimaldi <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>3 1973 - The cell phone was invented.</b></p> <p><b>INVENTOR:</b> Closed until noon for Storm School. <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Jane Goodall <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p>  <p>TED Talk-4 pm</p>	<p><b>4 1887 - Susanna Salter was the first woman ever elected mayor in the US.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Linus Yale, Jr. <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>5 1807 - a rare meteorite falls in Scotland.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Joseph Lister <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>NanoDays™</b> The Biggest Event for the Smallest Science!</p> <p>How can something so small be such BIG fun? Find out during NanoDays, an annual nationwide festival exploring nanoscale science.</p> <p><b>INNOVATION STUDIOS</b> 10 am until 5 pm</p>	<p><b>7 1947 - The largest sunspot recorded was observed on the sun's southern hemisphere.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> William Wordsworth <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>
<p><b>8 1953 - the first major 3D movie, Man in the Dark, was released. Two days later, another 3D movie, House of Wax was screened with the addition of stereo sound.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Harvey Cushing <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>9 1691 - French explorer Robert de laSalle reaches the Mississippi River and claims the entire basin for France.</b></p>  <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Victor Vasereley <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>10 1953 - House of Wax, the first 3-D movie with stereo sound was released.</b></p> <p><b>INVENTOR:</b> Closed until noon for Storm School. <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Jim Bowie <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>11 1947 - Jackie Robinson became the first African-American to play in major league baseball.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> James Parkinson (stage name "Tiny Tim") <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>12 1961 - Russian cosmonaut Yuri Gagarin became the first person in space.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Herbert Khaury (stage name "Tiny Tim") <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>13 INNOVATION STUDIOS CLOSED TODAY</b></p>  <p>in preparation for the <b>MAD SCIENTIST BALL</b></p>	<p><b>14 1865 - President Abraham Lincoln was shot by John Wilkes Booth at Ford's Theater in Washington, D.C.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Anne Sullivan <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>
<p><b>15</b></p>  <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Leonardo da Vinci <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>ALL SYSTEMS EARTH</b> APRIL 16-20</p> <p>Celebrate Earth Week at the Museum during our "All Systems Earth" festival. Discover how nature recycles to keep our world balanced and learn how we can help inspire positive environmental awareness and green practices.</p> <p><b>ALL SYSTEMS EARTH activities are included with paid exhibit admission and will be offered during the following hours:</b> Tuesday, Wednesday: 10 am-2 pm      Thursday: 10:00-5 pm* Friday: 10 am-2 pm      Saturday: 10 am-5 pm</p> <p>*Special extended hours for home school educators and children on Thursday afternoon from 1-5 pm.</p>				<p><b>21</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> John Muir <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p> <p>In every walk with nature one receives far more than he seeks. <i>John Muir, "Father of the National Park System"</i></p>	
<p><b>22 EARTH DAY</b></p>  <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Laura Gilpin <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>Earth Day was founded by Senator Gaylord Nelson on April 22, 1970.</p> <p>TED Talk-4 pm</p>	<p><b>23 1867 - The zoetrope, a device that produces the illusion of motion from a rapid succession of static pictures, was patented.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Roy Orbison <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>24 1990 - The Hubble Space Telescope was launched. It is the size of a large school bus.</b></p> <p><b>INVENTOR:</b> Closed until noon for Storm School. <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Robert Bailey Thomas <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>25 1925 - Florence Rena Sabin was the first woman elected to the National Academy of Sciences.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Guglielmo Marconi <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>26 1986 - The Chernobyl nuclear plant exploded in Russia.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hats:</b> Charles Richter and John James Audubon <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>27 1880 - Francis Clarke and M.G. Foster were issued a patent for a "device for aiding the deaf to hear."</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Samuel Morse <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p>  <p>TED Talk-4 pm</p>	<p><b>28 1919 - The first "free-fall" parachute jump was made on this day by L.L.R. Irvin in Ohio.</b></p> <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Harper Lee <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>
<p><b>29 ARBOR DAY</b></p>  <p><b>INVENTOR:</b> Look! <b>DOODLER:</b> Create! <b>Birthday Hat:</b> Duke Ellington <b>DESIGNER:</b> Light! <b>IMAGINER:</b> Investigate!</p> <p>TED Talk-4 pm</p>	<p><b>EL DIA DE LOS NIÑOS</b> Tuesday, April 30</p>  <p>El día de los niños/El día de los libros (Children's Day/Book Day), is a celebration of children, families, and reading - held yearly on April 30. The day emphasizes the importance of literacy for children of all linguistic and cultural backgrounds. The Museum will recognize this day with activities that include balero toy making, stories and more.</p>		<p><b>STUDIO LEARNING ENVIRONMENTS, TOPICS AND ACTIVITIES ARE DESIGNED FOR AGES 8 AND OLDER AND MAY FEATURE SMALL PARTS AND SHARP TOOLS.</b></p> <p><b>FAMILIES:</b> Children younger than age 8 are welcome in Innovation Studios with their older siblings but must remain under close supervision of an adult while in the studios. Please be aware that most Studio activities are not age-appropriate for children younger than age 8.</p> <p><b>SCHOOL GROUPS:</b> Field trip groups, <u>third grade and above with chaperones</u>, are welcome in Designer, Imaginer and Inventor Studios.</p>		<p>Doodler, Imaginer and Designer Studios are occasionally closed for programs and professional development.</p> <p>All demonstrations and activities take place in Innovation Gallery and Studios unless otherwise noted and are subject to change.</p>	 <p><b>FORT WORTH MUSEUM</b> SCIENCE AND HISTORY</p>