

## **2010 – 2011 MOSI SCHOOL GROUP PROGRAMS**

### **INTERACTIVE SCIENCE SHOWS**

**Science Works Theater**

**Capacity 100**

**Program Fee: additional \$3 per person**

#### **The Energy Circus**

**Grades 3 to 5**

Join this high-powered circus show starring renewable energy sources such as solar, wind and hydrogen. The show must go on as audience members use their ingenuity to generate electricity, race fuel cell vehicles and figure out ways energy can be moved and stored. Weigh the pros and cons of different green energy production methods as the means of powering our future in this not-to-miss show.

#### **Live @ The Amazing You**

**Grades 6 and up**

Take part in this cutting-edge medical program that provides an inside look at lifesaving procedures and the vital functions carried out by organs in the body. Witness actual surgeries through multimedia, learn medical skills and handle real surgical tools and medical equipment. Discover the latest in high-tech health and discuss the variety of careers available for future health care professionals.

#### **Moon, Mars and Beyond**

**All Ages**

MOSI needs you for an exciting new show about space. Learn about our plans to colonize the moon and Mars. Build a lunar base, operate robots, and participate in mining techniques in order to get water not only to drink, but also for rocket fuel. Explore simulated moon dust. Discover how NASA plans to use the moon as a testing ground for future travel to Mars and beyond.

#### **The Backyard Bug Show**

**All Ages**

**Available February 19 to May 30, 2011**

Shrink down and pull up a toadstool as we visit the amazing world of insects, spiders and other creepy crawlies. Audience members learn to dance like bees, battle like ants and adopt insect behaviors and abilities. Fly, hop and crawl your way to this science theatrical show that will be all the buzz.

**Call (813) 987-6000 or 1-800-995-MOSI to make a reservation!**

## **2010 – 2011 MOSI SCHOOL GROUP PROGRAMS**

### **LABORATORY PROGRAMS**

**Capacity 30**

**Program Fee: additional \$3 per person**

#### **Programs for 3<sup>rd</sup> to 5<sup>th</sup> Grade**

##### **Paleontology: Digging Up Clues**

Uncover mysteries about dinosaurs and other ancient life forms from their fossilized remains. Examine real fossils and fossil replicas to discover how they formed and how ancient creatures lived. Explore how scientists use insects trapped in amber to study the past. Learn to use stratigraphy and other tools used by paleontologists to help with fossil dating and identification. Take part in this real blast from the past!

##### **Fantastic Flyers**

Take to the skies in this hands-on workshop that features high-flying experiments. Build and test aircraft designs, pilot an airship explorer and try out a variety of fun flying machines. Explore weight, lift, thrust and drag in this engaging flight through aerospace engineering.

##### **WeatherQuest**

Sponsored by Bay News 9

Get ready for a crash course in meteorology, television news, and emergency management in MOSI's advanced natural disaster emergency center. Keep the public informed through news in this unique media lab.

##### **Totally Ooey Gooey Science**

Take ordinary things and make slime that will ooze through your fingers. Experiment with physical and chemical properties of matter to create colorful acid/base reactions, or reactions that heat up, cool down, or foam out of control.

##### **Scene of the Crime**

A crime was committed and there's a mystery to solve! You and your team of detectives must analyze fingerprints, fibers and other crucial pieces of evidence in the lab to crack the case. Apply the techniques seen on television crime shows used by actual forensic scientists.

**Call (813) 987-6000 or 1-800-995-MOSI to make a reservation!**

## **2010 – 2011 MOSI SCHOOL GROUP PROGRAMS**

### **LABORATORY PROGRAMS**

**Capacity 30**

**Program Fee: additional \$3 per person unless noted**

#### **Programs for 6<sup>th</sup> Grade and Up**

##### **Action Reaction**

Experiment with volatile chemical reactions in this fun, safe, educational program. Explore endothermic and exothermic chemical reactions by heating up, cooling down, mixing, and dissolving chemicals.

##### **Lighten Up! The Science of Light**

Experience the physics and chemistry of light through dazzling discoveries. Explore how light travels, how we see and how living things use light. Bounce laser beams, make stuff glow in the dark and create brilliant artwork with science and technology in this workshop that sheds light on the phenomena of light and color.

##### **The Code of Life**

Explore how DNA is considered the “blueprint of life” in this introduction to its coded structure and role it plays in genetics. Examine plant chromosomes and extract this incredible molecule from actual cells.

##### **DNA Solving Crimes**

The DNA found in every living cell reveals clues to the secrets of life and provides a useful tool for forensic scientists as “fingerprints.” Create DNA fingerprints using gel electrophoresis to solve a simulated crime and learn how forensic investigations analyze DNA evidence found at the crime scene.

##### **\*Creatures of the Deep**

Dive deep on a discovery of amazing adaptations of undersea life-forms and predators including squid and sharks in this hands-on dissection lab. Find out how sea creatures propel themselves, hide, and feed in this investigation of marine life and the importance of our planet's oceans.

\*Program Fee: additional \$6 per person

##### **\*Vital Signs**

Dissect a sheep's heart and lungs to understand how they work. Learn to measure blood pressure and listen to the sounds of your heart in this exploration of respiratory and circulatory physiology.

\*Program Fee: additional \$6 per person

**Call (813) 987-6000 or 1-800-995-MOSI to make a reservation!**