



Science (Off) Center

Hands-On Science Programs for your Scout Groups, After-School Functions, Families, Parties, Fairs & Festivals, Church Groups, Youth, Camps, and MORE!!

We can bring Science Center programs to YOUR LOCATION or you can come to us!

The Public Programs Department at the Saint Louis Science Center has a wide variety of programming options. You can choose from the programs listed in the guide, or we can design something just for you! We can come to your location (travel fees apply after 50 miles), or you can book a classroom at the Science Center. All Science Center instructors are trained professionals and have a strong background in science education. We supply all necessary materials, safety equipment, and handouts. All programs are delivered in an age-appropriate manner, and most programs can be tailored to fit your audience. Group size of 15-30 unless otherwise indicated.

For more information or to schedule a program, please call or e-mail Jill at 314.289.4439, jwillhit@slsc.org. See more information and download specific program flyers and brochures at www.slsc.org.

Symbol Guide

Refer to these symbols throughout this guide to help find a program that will serve your group.

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Adult Gallery Tour

These programs are 1-hour topic-specific experiences designed to engage adults with the learning philosophy of the Science Center and or exhibits. Staff will greet the audience in the main lobby and take them to the presentation area. The Galleries' conceptual designs main goals and other objectives will be discussed. Highlighted exhibits will demonstrate learning styles, group behavior and varying types of interactivity. A brief question and answer period will follow the tour.

Discovery Room Tour, Ecology and Environment: "Touring the Past", Life Science Gallery: "Life at Work", Physical Sciences: "Tour of a Machine".

Program length: 1 hour

Maximum: 15 adults / **Min:** 5

Cost: \$30/group

All About Computers

In this program, your students get hands-on experience to understand how information moves through a computer. They learn about the computer's basic language through binary games, how microchips are made, and how to write computer instructions through programming a friend. Students will also try out different input devices and have a chance to design their own!

Program length: 1 hour

Maximum: 20 students

Grade: 4-8

Cost: \$120

The Amazing Challenge

The Science is Challenging, The Experience is AMAZING!

Sign up now for The Amazing Challenge! Spend your day doing something AMAZING! The teams of two will make their way around the city, completing tasks and following clues to lead them to their destinations.

Compete against other teams for an outstanding prize package. For more information, dates, and times, call 289-4424. Space is limited, so register today. **Price includes two meals, a snack, bottled water, transportation throughout the day. Open only to adults 16 and older.**

Program length: Full day event

Maximum: 10 teams

Cost: \$80 (team of two)

2009 Dates: May 23, June 20, September 5, October 3, November 7

Amazing Science Demonstrations

These fun and exciting demonstrations are perfect for school assemblies, banquet entertainment, corporate functions, and more! We'll bring all the equipment and perform a 30-minute demonstration. Choose from the topics below. Length and cost are flexible for easy budgeting!

Surprise! It's Plastic. - It's in your clothes. It's in your toys. It's in your furniture. It might even be in your hair! Surprise! It's plastic. Plastics are everywhere. Learn about the molecules that make plastics so versatile and discover some surprising ways we use plastic everyday. Through this exciting demonstration you'll find out how to make slime, see what a baby soda bottle looks like and see how milk jugs can be recycled.

Now Hear This! - Most people know what sound is, but how does sound work? We'll get things shaking to explore sound energy and find out some unusual ways we can make noise. We'll learn about frequency, waves and pitch through fun demonstrations. You'll hear singing goblets, screaming metal rods and find out if we can figure out a way to see sound.

A Hair Raising Experience... - This shocking demonstration will electrify learning. We'll explore the parts of an atom, learn why doorknobs shock us in the wintertime and create an arc of electricity that will energize a light bulb without using wires.

**Note: some experiments in this demonstration are not safe for those who have pacemakers or hearing aids.*

Creepy Chemistry. - This series of spooky experiments will definitely get ooohs and ahhs. We'll explore a variety of chemistry experiments including dry ice bubbles, bleeding paper and rapid decomposition. We'll end it all with a bang!

**Note: demonstration includes an explosion, which can be startling and loud.*

Multiple demos may be booked with a minimum 15 minutes between demos. Demonstrator requires: 1) Access to running water 2) A grounded outlet at or run to the demonstration site 3) A table at least 6 ft long

Per DEMO: Program length: 30 minutes

Maximum: 100 in a group

Cost: \$75



Armchair Astronaut

Soar high above the Earth-experiencing life at five miles per second! - All from your computer desk!

Learn to fly virtual spacecraft within a realistic space environment as we tutor you in the use of Orbiter* the globally popular freeware space flight program created by Martin Schwieger. (*Orbiter 2005 Edition)

Learn the basics of space flight from liftoff to touchdown as you command your own space missions as the ultimate armchair astronaut!

Space Basics

Command your own virtual spacecraft through two challenging missions.

Learn the basics of space flight through hands-on participation as you are guided through steps to leave Earth, climb high above the clouds in a suborbital trajectory and attempt a safe landing back at your starting point. Next, take on the challenge of extended space flight as you leave Earth on a globe-girdling orbital flight.

Learn the basics of orbital physics, learn to change your orbital path and practice some advanced orbital maneuvers.

After a few "revs", de-orbit your spacecraft and experience the challenge of a fiery re-entry into Earth's atmosphere as you attempt to slow down for a safe landing back on terra firma.

Program length: March 16-20, 2009, 6:00 - 9:00 pm **Maximum:** 8 (Adults only) **Cost:** \$125

Location: James S. McDonnell Planetarium, Mission Control Room

Body Connections

Explore the major body systems with hands-on activities. You choose four systems. This program will take place in the Life Science Lab Classroom preferably in the mornings on Tue/Wed/Thu.

CHOICES:

Circulatory – Students simulate the parts of the circulatory system and take a reading with a pulse-oximeter.

Digestion – Compare mechanical and chemical digestion.

Immune – Have fun matching antibodies with their specific antigen.

Muscular – Locate antagonistic pairs of muscles in your body.

Nervous – Experience how your brain coordinates information from multiple sensory receptors.

Respiratory – Measure your peak air flow and find out what kind of air you breathe out.

Skeletal – See your bones act as levers; discover the importance of joints.

Program length: 1 hour

Maximum: 30 students

Grades: 2-4

Cost: \$100

Boy and Cub Scout Workshops →

As a unit, Boy and Cub Scouts of all ages will learn science and have fun while working to complete some or all of the requirements towards earning hard-to-get badges. You can choose any or all of the badges listed below.

Tiger*

Cleanup Treasure Hunt
Leaf Rubbings
Learn About Animals
Making Change
Our Colorful World
Reduce Reuse Recycle

Wolf

Computers
It's a Secret
Your Living World

Bear

Aircraft
Nature Crafts
Space
Water & Soil Conservation
Weather

Webelos

Forester
Geologist
Naturalist
Scientist

Boy Scouts

Chemistry
Energy
Pulp & Paper
Weather

Program length: 1.5 hour *Tigers get 2 topics per session.

Maximum: 30 / **Min:** 10 Scouts

Cost: \$7 per Boy Scout, \$5 per Boy Scout for each consecutive session. (One adult chaperone per five boys - Chaperones are free.)

Camp Programs

Camp-Ins - Themed overnights at the Science Center ages 6 & up

Holidazed - Fun and educational days on **School's Out** days for your kids while you work or shop.
Grades 1-6

Spring Break into Science - Fun & educational days in March during your kids Spring Break

Summer Science Blast - Up to 9 weeks of Summer Camp Grades 1-12



CSI: The Case of the Missing Millionaire ➔

This program is best suited for a series-based or ongoing program, such as a day camp, or multi-week sessions. Students will, over the course of several days, solve an entire mystery using clues found at the “scene of the crime.” Students will analyze footprints, clothing, stains, hair samples, suspect profiles, and other mysterious trace samples to determine whodunit!

Program length: Total 4 hours, 5th hour optional **Maximum:** 30 **Cost:** \$150 per hour

Digital Dilemmas – Storytime 🏠

In Digital Dilemmas, your students will help Little Red Riding Hood and other fairy tale characters solve their problems with today’s new technology! At the beginning of the hour, an SLSC staff member will demonstrate useful technology tools, like GPS, and how they work. During story time, the children will be challenged to figure out which technology tool will help their favorite fairy tale character escape a wolf or find their way home.

Program length: 1 hour **Maximum:** 32 **Cost:** \$120

Dino Fair 🏠

Enjoy a festival of paleontology activities at the Science Center. All activities involve student participation and encourage student investigation. Activities include our Fossil Cart, Dinosaur Camouflage, and Dino Puzzles.

Program length: 2 hour **Maximum:** Up to 200 students **Grades:** K-5 **Cost:** \$300

DNA Gene Shorts 🏠

Introduce your group to the world of DNA through a variety of activities. You **choose four** from our list. This program will take place in the Life Science Lab Classroom preferably in the mornings on Tue/Wed/Thu.

CHOICES:

Cell Game - Learn the basic parts of a cell and what they do.

Cheek Cell DNA Extraction - See your own DNA without a microscope.

Check Yourself Out - Examine several one-gene traits in humans.

Create a Karyotype - Find out what chromosomes can tell us about a person.

DNA Disco - Turn your group into a living model of DNA genetic code for a trait.

DNA Sequencing - Translate a sequencer output into the genetic code for a trait.

Electrophoresis - Learn how DNA profiling is done.

Looking at Cells - Examine a variety of cells using a microscope camera.

Paper Plasmids - Learn how a gene can be inserted into another organism.

PCR Dash - Find out how scientists can study DNA from very small quantities of a sample.

Predicting with Pedigrees - Construct a pedigree and make observations about the probability of inheriting a specific trait.

Rebops - See how traits are passed on from parents to children with these fun creatures.

Spell Your Name in Genetic Code - Understand how the four bases of DNA can code for all of life’s building blocks.

Program length: 1 hour **Maximum:** 30 Students **Grades** 4-12 **Cost:** \$100

DNA To Go ➔

This program includes hands-on activities and role-plays that focus on the basics of genetics and its applications in biotechnology. All activities are tailored to suit the needs and/or interests of the participants. Activities may cover: Learning the basic parts of a cell, Examining DNA, Understanding the Genetic Code, and/or Constructing a Pedigree to trace the likelihood of passing on a particular trait.

Program length: 1 hour **Maximum:** 30 students **Cost:** \$100



DNA In-Depth

Choose from two exciting programs. This program will take place preferably in the mornings on Tue/Wed/Thu; in the Life Science Lab Classroom (subject to availability).

Examining the Evidence – This program recreates a crime scene and analyzes the evidence left behind. From fingerprints to DNA, find out who did it! Hands-on group and individual activities take place in the Life Science Lab Classroom (subject to availability).

Investigating Inheritance – This program has you working with the experts as you track down the gene for an inherited disease using today's technology from microscopy to PCR. Some knowledge of DNA/genetics is recommended.

Program length: 2 hours **Maximum:** 30 students **Grades:** 4-12 **Cost:** \$200

Early Childhood – Early Elementary Programs

Simply Science – Grade Level: PRE-K (Age 4+) - K 

“Simply Science” introduces children to a few basic science investigations. Magnets, simple science tools, evaporation, science inquiry and more will be explored through demonstrations and hands-on activities. A post visit activity is included.

Program length: 50 minutes **Maximum:** 25 (One adult per 5 children required.) **Cost** \$80 per group

A Sense of Me - Grade Level: K-2 

How does information get to your brain? Discover how each of the senses plays a special role in bringing messages to your personal command center. Hands-on activities and demonstrations promote the understanding of the way our five senses work. A post visit activity is included.

Program length: 50 minutes **Maximum:** 25 (One adult per 5 children required.) **Cost** \$80 per group

It's My Body - Grade Level: K-2 

Learn interesting body facts, try activities, do some brain confusing experiments and find out more about the human body. A post visit activity is included.

Program length: 50 minutes **Maximum:** 25 (One adult per 5 children required.) **Cost** \$80 per group

Science is Fundamental - Grade Level: K-2 

Science is everywhere! Children explore magnets, simple science tools, science inquiry, separation of colors and more. Begin the investigation of the basics of science through demonstrations, experiments and hands-on activities. A post visit activity is included.

Program length: 50 minutes **Maximum:** 25 (One adult per 5 children required.) **Cost** \$80 per group

Earth Balloon ➔

Journey to the center of the Earth with your group in our Earth Balloon, a 19-foot inflatable model of our physical earth. This program boots participants' geography skills and understanding of the world with varied activities conducted both inside and outside the Earth Balloon. Choose one of the following programs:

Earth Balloon: Earth Alert!

Study the environmental impact on our planet by humans and Mother Nature. Includes activities on conservation and ecology that are age appropriate.

Program Length: 30-45 minutes/session (maximum of 12 sessions per day)

Maximum: 25 students **Cost:** \$500 full day (6 hrs.); \$300 half day (3 hrs.)

Earth Balloon: Where in the World...?

Students locate various geographical/geophysical features around the world. Perfect for badge work or just to peak interest in an understanding of geography and more.

Program Length: 30-45 minutes/session (maximum of 12 sessions per day)

Maximum: 25 students **Cost:** \$500 full day (6 hrs.); \$300 half day (3 hrs.)



Ecology in a Jar ➔

Explore ecological principles in a small scale world through creation of an ecosystem that you can take home with you. Learn about living things and find out how they interact with the environment.

Choose one of three options for the take home craft activity included in the program:

Soil Sammy – A chia pet-like creature that students will dress up and keep. At home, feed him water and sunlight and see what grows...

Handy Garden – A vegetable garden made of several different seed types set to sprout in a handy glove. Keep it by your window to watch it grow!

Bottled Ecosystem – An entire ecosystem, complete with a worm, constructed in a bottle that students can take home.

Program Length: 1 hour

Maximum: 35 students

Cost: \$150

Electrify and Energize Me ➔

Construct a simple circuit...explore currents and switches...discover static electricity through using a VanDeGraaf Generator. Explore electricity and energy through engaging hands-on activities. Starting from a simple understanding of a circuit to more complex challenges.

Program length: 1.5 hours

Maximum: 30

Cost: \$150

Fossils Around Town ➔

Join us as we travel around the St. Louis region and explore evidence of past animal life and geologic events. We'll spend the day visiting local sites where you can collect your own fossils and see an ash layer from volcanic eruptions 100 times the size of Mt. St. Helens eruption! **Meet at your location.**

Program Length: 3-4 hours **Maximum:** 30 students/ **Min:** 15 students **Grades** 7-12 **Cost:** \$40 per student

Furby Autopsy

Not just a talkative plush toy, the Furby is considered a marvel in engineering, with its sophisticated electronics, sensors and the ability to "learn." Your students can help our autopsy "doctor" analyze the innards of the popular toy. See why even computer specialists and robotics engineers are fascinated by its complexity.

Program length: 15 to 30 minutes

Maximum: 20 student

Cost: \$65

Furby and the World of Sensors (includes Furby Autopsy)

Not just a talkative plush toy, the Furby is considered a marvel in engineering, with its sophisticated electronics, sensors and the ability to "learn." Your students can help our autopsy "doctor" analyze the innards of the popular toy. This session includes a special tour of Sensor Lane. Also included are special activities that allow the students to become "sensors".

Program length: 1 hour

Maximum: 20 student

Cost: \$120

Girl Scout Workshops ➔

As a troop, your Girl Scouts will learn science, math and/or technology and have fun while working to complete all of the requirements towards earning hard-to-get badges. You can choose any or all of the listed badges! Earn them all!

Brownies

My Body
Numbers and Shapes
Science in Action
Science Wonders
Senses

Juniors

Aerospace
Discovering Technology
Earth Connections
Environmental Health
Making It Matter
Science Discovery
Science in Everyday Life
Visual Arts

Interest Projects

Digging through the Past
Eco-Action
Plant Life
Space Exploration
Why in the World?
Museum Discovery

Program length: 1.5 hour

Maximum: 30 / **Min:** 10 Scouts

Cost: \$7 per Girl Scout, \$5 per Girl Scout for each consecutive session. (One adult chaperone per five girls - Chaperones are free.)



Growing the Future with Agriculture

This one-hour program will help your students gain a new appreciation for agriculture and a better understanding of where food comes from. Activities include Corn Plastic, Beanie Babies, and Soil Sammy. Others may be available.

Program length: 1 hour **Maximum:** 30 students **Grades:** 4-6 **Cost:** \$100 per group

Health in Today's World

This program focuses on the role of technology in improving health. Students will use their knowledge of body systems to better understand how instruments, machines, diagnostic and treatment techniques are used to maintain good health. This program takes place in the MedTech Gallery.

Program length: 1.5 hour **Maximum:** 30 students **Grades:** 3-5 **Cost:** \$120 per group

HomeSchool Days

HomeSchool Days is a program designed to expand opportunities in math, science and technology curriculum for students (and their families). These 90-minute sessions provide related follow-up activities suggested for immediately after the session. HomeSchool Days is offered the third Tuesday of each month from 1-2:30 pm. See the website for complete course descriptions. www.slsc.org

2009 Special – Purchase tickets to 10 HomeSchool dates in 2009, and get the last two free! Call 289-4424 for more info or to sign up.

2008 Dates:

November 18: Dazzling Densities

December 16: Acids & Bases

2009 Dates:

January 20: Planes & Gliders

July 21: Making It Matter

February 17: Wacky Weather

August 18: Humble Heat

March 17: Space Probes & Comets

September 15: Icky Sticky Science

April 21: Plants & Flowers

October 20: Animal Mysteries

May 19: Eco-Investigations

November 17: Our Solar System

June 16: Structures

December 15: Robotics

Icky Sticky Science ➔

The fun hands-on activities will build an interest in science, increase understanding of science concepts and develop process skills. Discussions may include oobleck, slime, silly putty, pop rockets and more. For older students, discussion may include difference in types of polymers, plastics, and recycling. Students will keep their own hand-made polymer or mixture.

Program length: 1 hour **Maximum:** 30 students **Cost:** \$100 per group

Inner Body Tour

This program will help your students understand how the human body works. They will learn about the body parts inside them with the help of Organella. This program takes place in the MedTech Gallery.

Program length: 30 minutes **Maximum:** 15 students **Grades:** Pre-K (ages 3-4) **Cost:** \$30 per group

Inside of Me ➔

This program introduces participants to the functions of various internal organs and body systems. Use models and hands-on activities to investigate different body systems. Topics may include circulatory, digestive, immune, muscular, nervous, respiratory, or skeletal.

Program Length: 1.5 hours **Maximum:** 35 student **Cost:** \$150

Internet Search Adventure

Basic Edition

The Internet is a vast network that links millions of computers together. Even the most experienced users sometimes find searching the Internet a challenge. During this 15-30 minute activity, participants learn the basics and some tricks of Internet searching through a fun challenge. **Cyberville Gallery**

Program Length: 15-30 minutes **Maximum:** 24 **Grades:** 4-8 **Cost:** \$40 per group



Deluxe Edition

This extended, one-hour version of the Internet Search Adventure includes basic and advanced searching and fun activities such as *Find Yourself on the Web* and *Stupid Web Tricks*. **Cyberville Gallery**

Program Length: 1 hour

Maximum: 24

Grades: 4-8

Cost: \$100 per group

Inquiry into Earth Science

What is a landform? What are the forces that shape the Earth? Using inquiry-based explorations and challenges, participants learn about landforms and Earth's forces. Activities are thought provoking and informative.

Program length: 1.5 hours

Maximum: 35 student

Cost: \$150

Jump Start Experience

Introduce your students to the Science Center in a whole new way. Our **Jump Start** programs are designed to acquaint your Kindergarten through Fourth grade students within a particular gallery area. A fun and engaging activity will open their minds to the content and prepare them to explore a gallery space like they never have before. **Jump Starts** include a 15 minute activity led by a Science Center staff member and a 30-45 minute self-guided data collection activity in the gallery.

Energizer Machine - What goes up...must come down! Spinning wheels and many other simple machines are triggered by over 100 balls moving in ways you've never seen before. Introduction and self-guided exploration activities will include observing machine behaviors, riding the "hamster wheel" and collecting data related to the operation of this mini roller coaster located in the Emerson Lobby of the Science Center.

Exploring the Digital World - How well do your students understand basic concepts of computer technology? Cyberville provides a wonderful and fun introduction to computer technology basics. This **Jump Start** experience will introduce you and your students to key exhibits and activities in our gallery and how your group can better explore these concepts during and after your visit. (Available for K-12.)

Into Earth's Past - What do you think of when you hear about a recent earthquake, tornado or fossil find? This **Jump Start** experience will introduce you and your students to key exhibits and activities in the Ecology and Environment Past Gallery and how your group can better explore these concepts during and after your visit.

It's Alive! - Life is all around us, but do you know the characteristics common to all living things? Join us as we explore what makes humans living things and find out more about how humans are unique. This **Jump Start** experience will have your group looking at the Life Science galleries in a whole new way.

Program length: 1 hour

Maximum: 30

Grade: K-4

Cost: \$50 per Jump Start

"On-site only." Available Monday-Friday, 9-10 a.m.

LEGO® Mindstorms™

Robotics Adventure

To do any action, a robot must have a set of instructions, known as a program, installed in it. Using LEGO® software customized for the Science Center; participants work together to learn how to program a LEGO® MINDSTORMS™ robot. Please call **286-4659** to discuss your Lego Session options.

Program Length: 45 minutes

Maximum: 8 students

Cost: \$3 per person

Robotics Adventure-Deluxe Edition

This deluxe edition of the LEGO® MINDSTORMS™ Robotics Adventure includes the basic adventure session, plus other programming activities. LEGO® MINDSTORMS™ Please call **286-4659** to discuss your Lego Session options.

Program Length: 2 hours

Maximum: 24 students

Cost: \$165 per group

Robotics Adventure-Deluxe Edition II

In this version of LEGO® MINDSTORMS™, your group will learn basic lessons about mechanical design and teamwork. Please call **286-4659** to discuss your Lego Session options.

Program Length: 2 hours

Maximum: 8 students

Cost: \$175 per group



Math Games

The basic “language” computers speak is math, specifically the binary number system. Participants learn binary basics through two simple games: “Pegboard” and “Binary Secret Code.”

Program Length: 15 to 30 minutes **Maximum:** 16 per session **Cost:** \$40

Our Solar System →

This program exposes participants to numerous elements that make up our solar system. Activities focus around an investigation of planetary surfaces and the building of a space probe out of recycled materials to conduct research on other planets. Activities are current and may change with new scientific discoveries.

Program length: 1.5 hours **Maximum:** 35 student **Cost:** \$150

Physics Phun →

Explore the world of force and motion using challenge-based activities. Groups rotate through multiple stations or focus on a specific content area by means of a guided experience. Investigations may also cover matter and energy, magnetism, or simple machines.

Program length: 1.5 hours **Maximum:** 30 **Cost:** \$150

Pond Partners - Classroom Aquatics →

Learn the basics of an aquatic ecosystem through fun hands-on activities in a two-hour session. Topics include water/soil testing, water cycles, and pollution.

Program length: 1.5 hours **Maximum:** 30 **Cost:** \$150

Puzzling Paleontology

Become a paleontologist! Dig up dinosaur fossils and try to find fossil matches to piece together a whole dinosaur...It can be quite puzzling! Explore the Science Center’s Paleontology Prep Lab and assemble a full dinosaur skeleton.

Program length: 1 hour **Maximum:** 20 **Grades:** 3-8 **Cost:** \$100

Programming

How smart are computers? They can only do exactly what they’re told to do. This demonstration is a mini-intro to computer programming through a fun activity. Your students “program” a Science Center staff member to perform a supposedly simple task, such as making a peanut butter sandwich. **“On-site only.”**

Program length: 15 to 30 minutes **Maximum:** 20 **Grades:** 4-8 **Cost:** \$65

Robotics

Walking, talking, sensing, responding...when is a machine really a robot? Explore the world of robotics by thinking and acting like a machine. We'll learn a robot language to crack computer codes, go through the task of programming a friend and even restrict our senses to find out just what it's like to see through the "eyes" of a robot. More advanced students could get into calculating gear ratios.

Program length: 1.5 hours **Maximum:** 30 **Grades:** 2-12 **Cost:** \$200

Science Café

Science Cafe. Stimulating Conversation. Informal Setting. What do scientific issues in the news mean to you? Find out through honest dialogue with those in the know about the most intriguing and controversial subjects of our time. Sit, relax, listen and question. We provide the experts --- you bring an open mind.

Beginning January 2009, Science Cafe takes place at Herbie's Restaurant (formerly Balaban's) in the Central West End. Science Cafe is FREE. Food and beverages will be available for purchase.

Herbie's Restaurant, 405 N. Euclid Avenue, St. Louis, MO

2009 Schedule:

January 15, 2009 – “Medicinal Plants” at Herbie’s

February 19, 2009 – “Happy Birthday, Darwin!”

March 19, 2009 – “Operating on Well Folks – Genetic Diagnosis”



April 16, 2009 – “Starships, Worldships and Interstellar Nomads”

May 21, 2009 – “Herbal Medicines and Botanical Dietary Supplements: Facts and Fiction”

June 18, 2009 – “Climate Change at the Ends of the Earth: Polar Bears and Penguins”

July 16, 2009 – “Can Space Exploration Save the Earth?”

September 17, 2009 – “Science of Music”

Program length: 2 hours

Cost: FREE

Segway Programs

To book your charter tour or custom program call Jill at 314.289.4439, Trish at 314.289.1418 or Jeannie at 314.289.4462 or 800.456.7572 x4439, x1418 or x4462.

Segways at your Event: Find out about customized programs related to the Segway Human Transporter. Participants must be at least 12 years old, weigh a minimum of 100 lbs and a maximum of 260 lbs. Bring your group to the Science Center or we can come to you. Check the current Segway course listing and schedule at www.slsc.org

Cost: Depends on number of Segways and customized length of program

1 Segway/1 staff person:

3 hours or less \$375

3 to 6 hours \$650

1 additional Segway/1 staff person:

3 hours or less \$275 additional

3 to 6 hours \$500 additional

Over 50 miles, additional charges for mileage will be added.

Segway 101: Get your first taste of gliding along, totally balanced by the five gyroscopes embedded in the Segway Human Transporter. Learn what makes it tick, what's safe and what's not, and walk away with your very own personalized Segway Operator's License. Segways are shared in this class.

Program length: 1.5 hours

Maximum: 8

Age: 12+ years

Cost: \$35

Meet The Challenge: Meet the Segway challenge of a unique set of obstacles created just for the Segway buff. Spend 30 minutes on your Segway navigating through a fun and challenging course! Segway 101 is a prerequisite.

Program length: 30 Minutes

Maximum: 4

Age: 12+ years

Cost: \$15

Segway 5-4-5: Want to learn how to ride a Segway, but don't have the time for the Segway 101 class? Why not try our Segway 5-4-5? You get quick instruction and 5 minutes to ride a Segway.

Program length: 5 minutes

Maximum: 1

Age: 12+ years

Cost: \$5

Segway 201: After you complete Segway 101, take your skills a step further with Segway 201. This “mini tour” lets you experience different terrains around the Planetarium and our corner of Forest Park. This can be tailored to another location. Segway 101 is a prerequisite.

Program length: 1 hour

Maximum: 8

Age: 12+ years

Cost: \$35

Glided Tour *Forest Park: Atop your Segway, you will experience Forest Park in a whole new way, after a brief class glide along the park's interconnecting network of roads, paths and bike trails. Our tour leader will give you a brief history of the park's many famed attractions such as the History Museum, Steinberg Skating Rink, World's Fair Pavilion, Jewel Box and the restored Grand Basin with its magnificent fountains, wildlife and rental boats. Charter Tours are available for groups of 4 or more.

Program length: 3 hours

Maximum: 8

Age: 16+ years

Charter: \$85 per person for groups of 4 or more

Cost: \$80 / Members \$75

Wheels-N-Meals: All the fun and learning of our Glided tour in Forest Park, plus we'll provide a tasty lunch from Forest Perk Café to help fuel you. Charter Tours are available for groups of 4 or more.

Program length: 3.5 hours

Maximum: 8

Age: 16+ years

Charter Tours: \$100 per person for groups of 4 or more

Cost: \$95, Members \$90



Sunrise Segways: Meet in the early morning for your training and ride off into the park for breakfast. We will master the Segway and tour Forest Park stopping by Forest Perk Café to enjoy breakfast before continuing on our tour. This is a great way to enjoy the early morning sights and sounds of Forest Park. Charter Tours are available for groups of 4 or more.

Program length: 3.5 hours **Maximum:** 8 **Age:** 16+ years
Charter: \$100 per person for groups of 4 or more **Cost:** \$95 / Members \$90

Nature Glide n' Brunch Tour: This is our newest gliding tour in Forest Park. After a short training class we will glide off into Forest Park for brunch at The Boat House. This tour experiences a totally different side of Forest Park, seeing more of the nature that our park has to offer. We will glide through the Kennedy Forest testing your knowledge of the beautiful Missouri trees, crossover the Tamm overpass to Turtle Park and pass by the renowned St. Louis Zoo. Charter Tours are available for groups of 4 or more.

Program length: 3.5 hours **Maximum:** 8 **Age:** 16+ years
Charter: \$100 per person for groups of 4 or more **Cost:** \$95 / Members \$90

Segway Tours in Alton & Hartford, Illinois

April – October 2009

To book your charter tour or custom program call Jill at 314.289.4439, Trish at 314.289.1418 or 800.456.7572 (x4439 or x1418)

Segway Basic Training *Alton: By enlisting in this basic training, you will learn all the tactical exercises needed to fall into formation while riding a Segway. If you follow orders, recruits move up in rank to a Licensed Segway Operator – First Class!!

Program length: 1.5 hours **Maximum:** 8 **Age:** 12+ years **Cost:** \$40



Route 66 Glided Tour: Meet on the Illinois side of the river and ride the Old Chain of Rocks Bridge across the Mississippi. Follow the bike trail down the Missouri side of the river learning history of the famous Route 66. Brief training is included.

Program length: 3 hours **Maximum:** 8 **Age:** 12+ years
Charter: \$85 per person for groups of 4 or more **Cost:** \$80 / Members \$75

Glided Tour *Alton: Starting at the National Great Rivers Museum take a short training class and then glide along the levee into the historical town of Alton. Learn a brief history of the Melvin C. Price Lock and Dam, hear about the Lincoln – Douglas Debate, see the first of its kind Clark Bridge, and much more. Charter Tours are available for groups of 4 or more.

Program length: 3 hours **Maximum:** 8 **Age:** 12+ years
Charter: \$85 per person for groups of 4 or more **Cost:** \$80 / Members \$75

Taste of Alton: We will start off with a quick training class on the Segway and then head out for all the sights and sounds of the glided Alton tour plus enjoy a great dining experience at My Just Desserts. Charter Tours are available for groups of 4 or more.

Program Length: 3.5 hours **Maximum:** 8 **Cost:** \$95 / Members \$90
Charter: \$100 per person for groups of 4 or more **Age:** IL - 12 years & older

Glided Tour *Hartford: This tour starts at the Lewis and Clark State Historical Site, located in Hartford, IL. After a brief training you will get to experience the Fort where Lewis and Clark started their westward journey. You will see the confluence where the great rivers meet. Experience first hand the spectacular view of the 150 foot tall Hartford Tower where you can see for miles. Charter Tours are for groups of 4 or more.

Program Length: 3 hours **Maximum:** 8 **Cost:** \$80 / Members \$75
Charter: \$85 per person for groups of 4 or more **Age:** IL - 12 years & older

Taste of Hartford: We will start off with a quick training class on the Segway and then head out for all the sights and sounds of the glided Hartford tour plus enjoy BBQ at Hartford Ribs. Charter Tours are available for groups of 4 or more.

Program Length: 3.5 hours **Maximum:** 8 **Cost:** \$95 / Members \$90
Charter: \$100 per person for groups of 4 or more **Age:** IL - 12 years & older



Storybook Science ➔

Science concepts are revealed using the magic of stories. Children's literature guides hands-on activities utilizing everyday materials.

Program length: 1 hour

Maximum: 30

Cost: \$100

Streamtable Able

Reserve time for your group at our interactive streamtable! Our streamtable allows your group to view how streams can change the Earth's landscape. Along with Science Center staff, students can manipulate the rate of water flow and build their own landscapes by changing the location of natural/man-made obstacles, create levees and floodplain development, then witness how their changes impact natural river systems.

Program length: 1 hour

Maximum: 20

Grades: 3-8

Cost: \$50 per group

Structures ➔

How do buildings stand up? How can an arch hold weight? Explore the physics behind structures by building and experimenting with Roman Arches and bridges.

Program length: 1 hour

Maximum: 30

Cost: \$100 per group

Symmetry ➔

Learn about patterns through interactive activities, including fun house mirrors, tie-dye patterns, mosaics, and Escher patterns. Great as a local festival/fair or as a facilitated experience.

Program length: 1-hour experience / ½ day festival / full-day festival

Cost: \$100 / \$300 / \$500

Maximum: 30 / Unlimited / Unlimited

Unisphere ➔

These star-studded programs dazzle students by bringing the stars and constellations indoors during the daytime. The wonders of the night sky are introduced in the Unisphere, a portable planetarium. An air-conditioned room (in hot weather), away from traffic and noise, and one grounded outlet are required. Room size requirements are 30' x 30' x 12' for a group of up to 30 students, and 36' x 36' x 20' for up to 60 students. Choose from the available options:

Unisphere – Space, The Final Frontier:

Identify seasonal constellations, differentiate stars from planets, and explore other astronomical phenomena in this spaced-out show!

Unisphere – Stellar Stories, Legends & Lore:

Stargaze while the night sky heroes and legends from different cultures around the world are immortalized. Featuring lore from African, Native American, and Greek cultures.

Program Length: 45 minutes per session

Cost: 30 person dome:

1 session(s) \$150

2 session(s) \$200

3 session(s) \$250

4 session(s) \$300

5 session(s) \$350

Cost: 60 person dome:

1 session(s) \$200

2 session(s) \$300

3 session(s) \$400

4 session(s) \$500

5 session(s) \$600

Vanasaurus Programs ➔

Bring the field of paleontology right to your door! These programs provide a wide variety of activities to encourage all age groups to become paleontologists and explore fossils and dinosaurs.

Vanasaurus Classroom Experience

What does it take to be a paleontologist? Have you ever wondered how fossils are formed? What was life like at the time of the dinosaurs? This facilitated hands-on workshop can be suited to the age and size of your group for a fascinating exploration of paleontology.

Program length: 1.5 hours

Maximum: 30

Cost: \$150



Vanasaurus Festival

Dig into paleontology stations at your local festival or fair. Build a dinosaur, look at fossils through a magnifying glass, explore what dinosaur skin would look and feel like. Activities to suit your group's age and interests.

Program length: 3 hrs / 6 hrs

Maximum: Unlimited

Cost: \$300 half day / \$500 full day

What the Heck is Nanotech?

Description: Engineers and scientists are creating a new class of gadgets and materials by manipulating molecules and elements at the nanoscale (1 billionth of a meter!). Materials will be stronger, and technology will get smaller, faster, and more efficient. Atoms and molecules at that scale behave in counter-intuitive ways, and a Cyberville staff member will engage your students with fun and mind-boggling demonstrations and experiments that illustrate these unusual behaviors.

Program length: 1.5 hours

Maximum: 32

Grades: 3-10

Cost: \$120

Weather ➔

This program introduces participants to the tools used to understand and predict weather patterns. Teams collaborate to create a weather station complete with barometer, thermometer, anemometer, wind vane, psychrometer, and precipitation gauge.

Program Length: 1.5 hours

Maximum: 30 student

Cost: \$150

Customized Programming ➔

The Public Programs Department will work with your Scout group, youth serving agency, or other non-formal education group to personalize our programs to meet your needs. We will come to any event! Birthday parties, bar mitzvahs, graduations, banquets, you name it! Whether you need programming to meet specific badge requirements or something that helps you address a grant related goal, let us help you meet the challenge. Our programs combine hands-on, inquiry-based learning with an appropriate amount of fun and exploration. Call us to discuss your needs.



OMNIMAX® Theater Film Plan 2009

The end dates should always be considered tentative. To Purchase tickets call reservations at 314.289.4424.

Mysteries of the Great Lakes - September 19, 2008 - April 16, 2009

It takes a drop of water nearly 400 years to travel from the headwaters of Lake Superior to the mouth of the St. Lawrence River. Along the way, the water passes by towering cliffs dotted with early Native American pictographs, caribou and moose grazing on the shores, over giant prehistoric sturgeon lurking among thousands of shipwrecks and past nearly 30 million people who live along the more than 3,000 miles of coastline. It is a dramatic journey through some of the most spectacular scenery in the world. Now, you can witness the wonders of the Great Lakes...

Sharks - October 24, 2008 - March 5, 2009

Presented by Jean-Michel Cousteau, *Sharks* is a breathtaking film experience that offers audiences an astonishing up-close encounter with the Lions and Tigers of the Ocean. Come face-to-face with a multitude of shark species, including the Great White, Hammerhead, and Whale Shark. Witness them as they really are; not wicked man-eating creatures, but wild, fascinating and endangered animals that have been in existence a million years before dinosaurs roamed the Earth. Join a turtle named "Aris" and the expert team of ocean explorers that brought you *Ocean Wonderland 3D* on this unique round-the-globe expedition documenting the life of the ultimate predator.

Grand Canyon Adventure - January 16, 2009 - September 7, 2009

Grand Canyon Adventure: River at Risk combines exhilarating river-rafting action on America's most iconic river, family fun and the grandeur of the Grand Canyon to tell an engaging story of how ordinary people can make a difference for our parched planet - one that is running out of clean, fresh water so fast that the U.N. estimates that 40% of the world could face life-threatening shortages by the year 2050.

Fly Me To The Moon - March 6, 2009 – September 7, 2009

FLY ME TO THE MOON combines the Apollo 11 mission with a whimsical twist involving three tweenaged flies who go along on an incredible space adventure. *FLY ME TO THE MOON* introduces new generations to space exploration and to the historic moment when the world was united for this awe-inspiring achievement.

Like those intrepid travelers back in 1969, *FLY ME TO THE MOON* aims to take viewers to a place they have never been before.

A G-Rated family film, the story is voiced by talents, Kelly Ripa, Christopher Lloyd, Nicollette Sheridan, Tim Curry and a live action/animation cameo by real-life Apollo 11 astronaut Buzz Aldrin!

Wild Ocean - April 17, 2009 - December 31, 2009

The film chronicles a massive annual feeding frenzy; billions of sardines travel up the KwaZulu-Natal shoreline, known to locals as the Wild Coast. For the people living along the African shore, this migration has provided a food source for countless generations while farther out at sea ocean predators come from great distances to feast. Bottlenose dolphins create superpods, thousands strong, to track down the huge shoals using sonar. Sharks sense blood in the water and join the hunt. Seals and common dolphins chase the fish from cooler currents up the coast into the warmer tropical waters. Diving birds, Cape Gannets, join the battle with aerial attacks from the sky. All of these animals are drawn to the scene, enmeshed in one of the most incredible mass feeding melees in the natural world. Eat & dash; or get eaten.

Legends of the Sky – September 2009 – March 2010

This film will showcase some of history's most amazing aircraft--highlighting the design challenges, financial risks and many lessons learned from a century of aviation trial and error, bringing us to the dawn of a new era of revolutionary aircraft--Boeing's 787 Dreamliner and the Airbus A380.

The Educator Guides are available to download from our website - www.slsc.org.





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