

**CELEBRATE 20 YEARS OF SCIENCE ALIVE!  
SATURDAY, FEBRUARY 4, 2012  
10:00 A.M. - 4:00 P.M.**

**St. Joseph County Public Library  
304 S. Main St., South Bend**

**Free and Open to the Public**

**Special Programs, Exhibits & Activities for Kids in Kindergarten through 8<sup>th</sup> Grade**

**\*PROGRAMS**

**Lower Level Colfax Auditorium**

**10:15 a.m.**

**Tales of Flight with the Brothers Wright**

by Madcap Puppets, Cincinnati

Let your imagination soar with the amazing Wright Brothers! This high-flying adventure is interwoven with the Greek myth of Icarus, the man who flew too close to the sun. Orville and Wilbur may have been the first to fly, but Madcap's giant puppets will take you to new heights filled with wings, dreams, and flying machines.

**11:30 a.m.**

**The Colors of Chemistry**

by The Chemo Demo Team, Dept. of Chemistry & Biochemistry, University of Notre Dame

Lights...Color...Reaction!! The Chemo Demo Team will share the beauty and fun of its favorite colorful chemical reactions for Science Alive!'s 20<sup>th</sup> year.

**12:30 p.m.**

**Celebrating EXTREME Science—The EXTREME Silly Safari Show!**

by Amazon John of Silly Safari Station, Indianapolis

Join us on an EXTREME Silly Safari as we learn about and meet animals living in extreme environments, both hot and cold, and the extremes some animals experience in order to survive. You'll even meet a real LIVE REINDEER and learn all the challenges it faces in the EXTREME northern climate. This show is off the charts and proves that science and reading are FUN for everyone!

**1:30 p.m.**

**Magical World of Science**

by Larry Wirtz, Crown Point

Science educator Larry Wirtz will return to Science Alive! to present the “best of the best” as he digs deep into his bag of tricks to present some amazing and even “shocking” science demonstrations. A very special program to celebrate the 20<sup>th</sup> anniversary of Science Alive!

**2:30 p.m.**

**Going Beyond “Sit,” “Come,” and “Down”**

by ECHO Club, Inc. Buchanan, MI

Do dogs speak English? Do people speak canine? Do dogs study psychology? Come see how communication and psychology are used to teach dogs amazing behaviors. Using science, complex behaviors are built on basic commands like sit, down, stay and heel. Dogs will be doing agility, obedience, carting, and a video of dogs in action will be presented.

**3:30 p.m.**

**Eye to Eye With Indiana’s Creepy Crawlers**

by Rick Glassman, St. Joseph County Soil & Water Conservation District

Get up close and personal with some of our local reptile and amphibian residents—we’re talking live specimens here!

\*Limited seating capacity. First-come, first served. People leaving during a presentation may not be readmitted. Please silence all cell phones and other electronic devices during programs.

**\*SPECIAL SCIENCE ACTIVITIES      10:00 a.m. – 4:00 p.m.**

**3<sup>rd</sup> Floor Children’s Storytime Room      Joint Institute for Nuclear Astrophysics, University of Notre Dame**

What happens to a marshmallow in space? What happens when a star explodes? JINA would like to introduce children of all ages to the wonders of the physical universe, from very tiny nuclei to the huge bodies in the cosmos. Hands on activities led by graduate students and faculty.

**\*3<sup>rd</sup> Floor Presentation Room      Explorations Toys**

Learn about rockets and launch a Rocket Balloon!

**\*Lower Level Molloy Meeting Room      Kids Astro Camp at Camp Eberhart & Joshua Tree Earth and Space Museum**

Find out about the Earth at its birth! Learn about how our Earth got its start, forming the land, atmosphere and water. See when the first forms of life made their appearance and touch fossils of the earliest plants and animals.

**\* Lower Level Pokagon Meeting Room      Michiana Astronomical Society & Kennedy Planetarium**

Discover new worlds in space! Are there other planets like Earth? Maybe! Find out how scientists are discovering planets around other stars. Learn about our twin planet, Venus, and how to watch it safely during its transit across our Sun. Discover with hands-on activities for all ages.

**Lower Level Dickinson Conference Room QuarkNet**

Visit “High Energy Physics—Where Science and Fun Collide.” QuarkNet Physics from the University of Notre Dame will again provide exciting hands-on physics demonstrations and activities.

**Lower Level Rockne Technology Training Room Riley H.S.**

Riley High School Biology instructor John Wibbens and student assistants will visit a variety of special websites to take a close look at the human brain, the most complex organ in the human body. Find out how you “use your head” every day.

**HANDS-ON EXHIBITS (10:00 A.M. – 4:00 P.M.) All Floors of the Library**

**AMERICAN SOCIETY FOR QUALITY MICHIANA SECTION (A.S.Q.)**

Fun and interactive exhibit demonstrating a quality concept--variation.

**AMERICAN SOCIETY OF CIVIL ENGINEERS**

Explore the many aspects of civil engineering. See a superelevation curve model and a transportation traffic signal. Race cars on a designed roundabout and work with bridge design software.

**ARKOS DESIGN**

Find out about the science of architecture.

**CARDNO JF NEW**

Learn about native plants of Indiana.

**CENTER FOR NANO SCIENCE & TECHNOLOGY, UNIVERSITY OF NOTRE DAME**

Investigate the exciting world of nano technology!

**CENTER FOR SUSTAINABLE ENERGY AT NOTRE DAME (cSEND)**

Participate in engaging activities which focus on sustainable energy and showcase cSEND research in the areas of cleaner coal, transformative solar and safer nuclear.

**CITY OF SOUTH BEND DIVISION OF ENGINEERING**

See how roundabouts really work.

**EARTHQUAKE ENGINEERING RESEARCH INSTITUTE, UNIVERSITY OF NOTRE DAME**

See how buildings behave during earthquakes and learn about liquefaction in earthquakes. Other hands-on related activities.

### **FERNWOOD BOTANICAL GARDEN AND NATURE PRESERVE**

It's all about animal mysteries. Can animals make paper? Are there wild cats in Michiana? View and touch animal furs, bones, and more as you try to solve the mysteries of critters from our backyards.

### **INDIANA UNIVERSITY SCHOOL OF MEDICINE--SOUTH BEND**

Medical students will feature interactive medical simulations, nutrition and healthy concepts. Hands-on skill stations.

### **LASALLE ACADEMY LEGO LEAGUE ROBOTICS**

Have fun with robots! See a robot demo and research posters on innovative solutions about food safety.

### **MEMORIAL'S HEALTHWORKS! KIDS' MUSEUM**

Make a splash! It's cheap! It's easy! It's hydration! Learn the hows and whys of staying properly hydrated at the HealthWorks Hydration Station. It will make you look and feel GREAT.

### **MICHIANA AMATEUR RADIO CLUB**

Find out how radio works and how you use it. Talk to people around town, around Indiana, the U.S. and even the world—without telephone or the Internet!

### **MICHIANA AQUARIUM SOCIETY**

Look at various small aquaria displaying different varieties of aquarium fish, as well as developing eggs and babies.

### **MICHIANA BEEKEEPERS ASSOCIATION**

Learn about bees and their hives with live specimens. Look at a honey extractor. Crafts and games to enjoy on-site.

### **MICHIANA GEM & MINERAL SOCIETY**

Find out about a variety of rocks and minerals. Handouts.

### **MICHIANA ROCKETRY**

See a variety of rockets, a launch pad, parachutes and special videos about rocketry.

### **MICHIANA VETERINARY MEDICAL ASSOCIATION**

It's all about animal medicine, surgery and prevention. See live animals.

### **NINETY-NINES INTERNATIONAL ORGANIZATION OF WOMEN PILOTS, IN DUNES CHAPTER**

Meet women pilots and learn about aviation-- past and present. Hands-on activities.

### **NORTH CENTRAL DISTRICT DENTAL SOCIETY**

Find out about preventive dentistry—sealants, sugar content in soft drinks, mouthguards for sports, proper brushing and flossing techniques.

### **POTATO CREEK STATE PARK**

Learn about the wildlife and fauna of our area's state park.

### **POTAWATOMI ZOO**

Find out about bats and visit with other special critters from the zoo.

### **PRAIRIE WINDS FARM**

Learn how an organic farm works. See some special chickens and rabbits up close.

### **RIVERBEND COMMUNITY MATH CENTER**

See math in action with fun-filled activities.

### **RUM VILLAGE NATURE CENTER**

It's all about predators of northern Indiana. See pictures, numerous skulls and skins.

### **ST. JOSEPH COUNTY HEALTH DEPT.**

Visit with Pat the Painter and locate lead dust using a black light. See Leadasaurus, a special dinosaur.

### **ST. JOSEPH COUNTY PARKS**

It's all about birds. Find out how it feels to be warmed up by fluffy feathers, hear the calls and songs of familiar winter birds, and learn how to make a simple bird feeder, and more.

### **ST. JOSEPH COUNTY POLICE DEPARTMENT**

Learn about the science of forensics up close. Handouts.

### **ST. JOSEPH COUNTY PUBLIC LIBRARY**

Look at the SJ CPL automated return system in action! See how RFID technology and robotics work together to save time while checking in and sorting materials for the Library.

### **ST. JOSEPH COUNTY SOIL & WATER CONSERVATION DISTRICT**

Visit with Mr. Rick and his staff. Learn about various aspects of soil and water in a fun-filled way.

### **ST. JOSEPH COUNTY SOLID WASTE MANAGEMENT DISTRICT**

Learn about recycling and have fun with special recycling games, Indiana hoops and ring toss.

### **SOUTH BEND CHOCOLATE COMPANY**

Find out about the history of chocolate. Sample some chocolate!

**SOUTH BEND-ELKHART AUDUBON SOCIETY**

Focus on the challenges and risks faced by migratory birds. Interactive games.

**STUDEBAKER NATIONAL MUSEUM**

Learn about automotive technology at the spark plug changing station.

**STUDENTS FOR ENVIRONMENTAL ACTION AT the U. OF NOTRE DAME**

Find out about recycling and the energy saved by recycling various materials.

**UNDERWRITERS LABORATORIES**

Learn how to be SAFETY SMART!

**BRIAN WEAVER**

See a lunar sample from NASA and learn about the history of manned space flight.

**DON SZCZODROWSKI**

See a display of fossils and Jurassic Park movie memorabilia. Touch real dinosaur bones and other fossil items.

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St. Joseph County Public Library wishes to thank community organizations that provided and staffed exhibits for 2012 Science Alive!

Special thanks to Friends of the St. Joseph County Public Library for their financial support.

Complimentary bags for Science Alive! provided by St. Joseph County Solid Waste Management District.

See you at next year's 21<sup>st</sup> Annual Science Alive! on Saturday, February 2, 2013!