



# Gateway to Science NEWS

It's Fun...It's Cool...It's Awesome...It's SCIENCE

## 2009 IS OUR 15TH BIRTHDAY—JOIN THE CELEBRATION!!

### A DAY FOR THE BIRDS

Gateway to Science will host its annual FREE Family Event - A Day for the Birds - Saturday, June 6th from 1 -4pm. The purpose of A Day for the Birds is to increase awareness and appreciation of birds in nature and also to give visitors information and knowledge about common North Dakota birds.

A few events that are featured this year include:

- > Go on a Nature Bird Walk
- > Make and Decorate Your Own Tray Birdfeeder
- > Paint a penguin picture using nothing but your hands!
- > Decorate a Bird Bookmark with bird stamps
- > Take a Bird Quiz to test your knowledge of birds

Hands-on activities about the water birds of North Dakota will be included in a special presentation by Outreach Biologist, Pat Lothspeich, from North Dakota Game & Fish.

Note: Registration is not required to attend this event. All activities are free and open to the public thanks to the support of Basin Electric Power Cooperative. The tray feeder kits are sold separately - \$7 for current members and \$8 for nonmembers.



### BUILD AND LAUNCH YOUR OWN ROCKET!

The annual FREE family event - Family Rocket Day - inspires tomorrow's astronauts and space enthusiasts. Visitors of all ages are able to purchase a rocket kit, which volunteers will help you build and then launch! The event is scheduled for Saturday, July 18th from 12:30 -3:30pm. There will be drawings for FREE rocket kits to take home throughout the event!



Various activities scheduled include:

Pat Riepl, builder of his famous Patriot Rocket, is returning to help launch your rocket and display a few of his own rockets.

Mike Whorley, another local rocket enthusiast, will display his collection including a video of rocket launches.

Visitors will also have the opportunity to build rockets that launch without engines, including Alka Seltzer rockets, water rockets, and a returning favorite - Air Pressure Rockets.

Note: Registration is not required to attend this event. All activities are free and open to the public thanks to the support of Basin Electric Power Cooperative. The engine-propelled rocket kits are sold separately.

### UPCOMING EVENTS

- June 6: A Day for the Birds
- July 13: Binary Numbers
- July 18: Family Rocket Day
- August 15: Bubble Bliss
- September 25 & 26: Gateway to Science 15th Birthday Party

### POINTS OF INTEREST

- A total of **870 students** visited the Exhibit Gallery for a classroom field trip visit in the months of March, April and May.
- The **Summer Camps** are filling fast! We have added another LEGO® session. Check out [Page 2](#).
- Check out [Page 3](#) for details on our **Super Summer** program being offered for one week in August this summer! Sign up online or stop by the office for a form.

### Exhibit Gallery Hours

Monday - Thursday: 12Noon - 7PM  
 Friday & Saturday: 12Noon - 5PM  
 Closed on Sundays

### Office Hours

Monday - Friday  
 9AM to 3PM

### Admission Rates

Adults: \$5.00  
 Children: \$2.00  
 Under 4: FREE  
 Members are always FREE!

## LOOKING AHEAD TO MORE SUMMER EVENTS

# Bubble Bliss

Get ready for some sudsy, slippery science! This **FREE** family event is fun for all ages. Learn the science of bubbles while getting your hands clean.

Step inside a giant bubble, freeze a bubble using dry ice and more! Giant bubble wands will be on sale as well for you to enjoy at home.

Note: Registration is not required to attend this event. All activities are free and open to the public thanks to the support of Basin Electric Power Cooperative. The giant bubble wands will be sold separately.

# 0010110

Are you and your children curious about numbers?

John Angell, a Bismarck native who is an electrical engineer in California, is returning this year with a math-based presentation to **challenge** our brains.

This year's topic is Binary Numbers.

Come find out what all those 1's and 0's really mean and how they are used. Inquisitive people of all ages will learn something at this **FREE** thought-provoking event - MONDAY JULY 13 at 7:00pm at Gateway to Science.

No registration is required to attend this event.



There is still time to register for our **Summer Camps!** Register online with a credit card, mail in your payment, or stop by the office anytime during business hours!

LEGO Camp 1A: <b>FULL</b>	LEGO Camp 3A: June 29-July 1, 1 -4 PM, Grades 3 -4
LEGO Camp 1B: June 15-17, 1 -4 PM, Grades 5 -6	LEGO Robotics 1: July 6 -8, 9 AM-Noon, Grades 4 -6
LEGO Camp 2A: <b>FULL</b>	LEGO Robotics 2: July 6-8, 1 -4 PM, Grades 4 -6
LEGO Camp 2B: June 22-24, 1 -4 PM, Grades 5 -6	Space Camp: July 13-17, 1 -4 PM, Grades 3 -5

## LOOKING BACK ON THE FUN WE HAD THIS SPRING

Our spring events included our annual Environmental Festival for 5th graders in March and NanoDays, a **FREE** Event for families in the community which was held April 4th at Gateway to Science.



**Environmental Festival** included 20 presentations on a variety of topics related to environmental science. Each presentation was given by professionals in their field. Over 1,000 students learned about recycling, pollution, Segways and fuel cells, the science of air quality, thunder, lightning and hail and much more. Teachers, get ready for next year's event to be held in March! Check out our website for more details.



More than 100 visitors participated in **NanoDays** this year! Visitors learned about current uses of nanotechnology through 14 hands-on, interactive stations. People of all ages were amazed at how nano-sized particles behave and at the advancement of this technology in recent years. It's no wonder that in science, small particles have big potential!



# SUPER Summer

The partners of the Frances Leach High Prairie Arts & Science Complex present their first ever **SUPER Summer**, a week-long, full day camp that combines the best of art and science for an experience that is truly super!

SUPER Summer will offer activities from each of the five High Prairie organizations: Central Dakota Children's Choir, Gateway to Science, Shade Tree Players, Suzuki School of Music, and Theo Art School. Participants will have the opportunity to register for individual classes, half-day or full-day schedules of hands-on art and science learning and fun. Science options offered by Gateway to

Science include: Exploring Birds ? Chemical Reactions ? Kitchen Chemistry ? Storybook Science ? Super Structures ? Pirate Science ? Conservation for Kids ? Fun with Science.

SUPER Summer will be held at **Frances Leach High Prairie Arts & Science Complex**, 1810 Schafer Street, Bismarck, August 3-7, 2009, from 8:30 a.m. to 5:00 p.m. Registration fees vary depending on how many classes students take. A single class is \$35 for partner members and \$40 for non-members. Half-day schedules of 4 classes are \$120 for partner members and \$140 for non-members, and full-day schedules of 8 classes are \$200 for members and \$240 for non-members. Register online at [www.highprairiecomplex.com](http://www.highprairiecomplex.com) or stop at the High Prairie Complex. SUPER Summer is appropriate for ages 4-13.

## THANK YOU!



Thank You to our volunteers for NanoDays:

Samantha Dink; Shelby Geiger; Kate Volk; Caryl Rutten; Mike Davis and Marron Bingle-Davis; Mary Ann Delzer; Elise Tuntland; Andrew Weixel; Aaron Kochmann; Connor Bergquist; Gary Jarde

We would like to extend a special "Thank You" to the following donors for March, April and May:

### Corporate Donations

Sam's Club Foundation  
MDU Resources  
Basin Electric Power Cooperative  
University of Mary - Spooktacular 2009  
ND Natural Resources Trust - Environmental Festival 2009

### Individual Donations

Brad & Claudia Ballweber  
Lawrence & Karen DaSilva

### Memorial Donations

In Memory of Dr. Montz  
Dave & Diane Clinton, Keith & Beth Demke, Florina Galster, Frank & Kay Koch, Bob Stolte

We would like to welcome new and renewing members of Gateway to Science:

**SUSTAINING:** Tom & Katie Hutchens, Carl & Eunice Vender

**FAMILY PLUS:** Randy Binegar

**FAMILY:** Art & Shirley Carlson, Jason & Melissa Craig, Alan Corbett, Greg & Ann Fritz, Michelle Fourre, Paul & Allison Germolus, Mark & Chava Gutman, David & Dawn Hagerott, Caleb Honsinger, Brendan Joyce, Narasimhan Kandooru, Michael & Mary Kay Kolenz, Lisa LaPata, John & Laura Moeykens, Laif & Kathy Olson, Robert & Myra Olson, Wally & Betty Owen, Erin Pfliger, Andrea Pitman, David Pochettino, Eric Reisenbigler, Scott & Katie Russell, Wendy Schaper, Brad & Michelle Stockert, Jessica Voegelé, Mike Walz, Clinton & Carissa Wilkinson

**GRANDPARENTS:** Bobby & Karen Pedigo, Harley & Margaret Swenson, Bill & Mary Jo Wocken

**SENIOR:** Loren & LaVon Kjonaas

**STUDENT:** Thomas Aberle, Hannah Anderson, Samuel Artz, Cameron Backer, Amanda Baerlocher, Peter Bauer, Evelyn Bitz, Tristan Byer, Kyle Cysewski, Parker Doll, Rahmi Elkhatib, Benjamin Frederick, Hunter Frederick, Jordan Grantier, Grant Heimes, Sam Henke, Adam Hoffmann, Rogan Isbell, Jacob Kerzman, Noah Krentz, Joey Krueger, Jayce Lee, Jaden Link, Jackson MacDonald, William Marks, Draven Medicine Horse, Jackson Nagel, Jordan Nitsch, Chase Norton, Tyler Paczkowski, DJ Polk, Connor Russell, Ben & James Schmidt, Erik Solie, Elyja Terry, Justin Vollmers, Mitchell Walby, Garrett Walsh, Christian Wanek, Joey Wegner, Jaren Willer, Trey Zent



Thanks to Basin Electric Power Cooperative for sponsoring our celebration of 15 years!

## TOP 5 REASONS TO JOIN GATEWAY TO SCIENCE

- > Free unlimited admission to the Exhibit Gallery
- > Reciprocity admission to fellow ASTC Centers around the world
- > Special Savings on programs and Birthday Party Packages throughout the year
- > Subscription to the Gateway to Science NEWS and notices of upcoming events and programs
- > Family Plus & Sustaining memberships include FREE admission for a guest family

## MEMBERSHIP APPLICATION

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

How did you hear about us: (optional)

- Friend/Relative
- Website or e-NEWS
- Special Event Promotion
- Gateway to Science NEWS

Please choose a Membership level:

- Sustaining \$125
- Family Plus \$70
- Family \$50
- Grandparents \$45
- Individual \$30
- Student \$20
- Senior (62+) \$20
- Additional Donation \$ \_\_\_\_\_

Total Amount Enclosed: \$ \_\_\_\_\_

Please mail along with payment to:  
Gateway to Science or  
stop by the office at  
1810 Schafer Street, Suite 1  
Bismarck, ND 58501

\*Note: Your membership card will be processed and mailed within 5-7 business days after we receive your Membership application.



Gateway to Science Center, Inc.  
 1810 Schafer Street Suite 1  
 Bismarck ND 58501

Nonprofit Organization  
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 Permit No. 419  
 Bismarck, ND 58504



Check us out Online!  
[www.gscience.org](http://www.gscience.org)

**Contact Information**

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 Bismarck ND 58501  
[www.gscience.org](http://www.gscience.org)  
 701.258.1975

**Staff Members**

- Beth Demke*  
- Executive Director
- Kaylah Pavlicek*  
- Administrative Assistant
- Christie Weixel*  
- Program Coordinator
- Jennifer Rechlin*  
- Exhibits Coordinator



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**WHAT'S NEW IN THE GALLERY**

Hilarity reigns while the underlying science concepts of reflection are presented in our newest exhibition - **Mirror Images**.

Round convex and concave mirrors teach the basic principles by showing that concave mirrors reflect light rays inward toward a focal point, creating a larger image that becomes up-side-down as one moves away, and that convex mirrors reflect light rays outward, creating a right-side-up smaller image. These concepts are then reinforced as the visitors view their images in four bent fun-house mirrors. Soon we will also have a mirror that will make it appear as if you are flying!

The new mirror exhibits would not be possible without the financial support from the *Bismarck Parks and Recreation District*, the woodworking skills of Jack Knoll, and much assistance from Harry Kolberg, who also rebuilt another mirror exhibit - **Look Into Infinity**.

Once again, we are looking for Monarch butterfly larvae and chrysalides for our butterfly enclosure. If you see any out in the wild, please bring them to the science center or contact Jennifer, our Exhibits Coordinator, to have her come get them. **Thanks!**

