

18TH ANNUAL AFRICAN AMERICANS IN SCIENCE

JANUARY 30, 2010 1-4 P.M.

LEVEL 4: COMMUNITY GALLERY

① **Animal Care on the Move**

Mobile Animal Surgical Hospital (M.A.S.H.)

Learn how M.A.S.H. provides at-home veterinary care. See their instruments, lab equipment and procedures.

② **Inhibition of Microbial Growth Using Common Household Cleaning Products: See how the heart works**

Medtronic

Experiment with microbiological testing of disinfectants and take a look at devices that are used to help sick hearts.

③ **All About Filters!** **Donaldson Company, Inc. (Sponsor)**

Have you ever wondered how filters work? Visit our booth for hands-on demonstrations.

④ **How Big is This Tree? The Emerald Ash Borer** **USDA Forest Service**

Learn how to measure a tree. See an emerald ash borer, a beetle that has the potential to kill every ash tree in Minnesota, and find out how close this insect is to you.

⑤ **Don't Flush – Crush! Enjoying the Outdoors**

U.S. Fish and Wildlife Service

Learn what the best methods are to dispose of medicines while keeping our waterways clean for play! Make a safe path for endangered species through a maze of hazards.

⑥ **The Medical Role of a Cytogeneticist**

American Society of Clinical Pathologists

Learn how a clinical cytogenetic technologist studies normal and abnormal chromosomes to discover their relationship to human development and disease. Hear how this work is associated with the Human Genome Project.

⑦ **Complementary and Alternative Medicine**

Northwestern Health Sciences University

An overview of alternative medicine. Discover spinal biomechanics and the importance of the spine and natural therapies in maintaining your health.

LEVEL 4: DISCOVERY HALL

⑧ **Fire Science**

Minneapolis African American Professional Firefighters Association (MAAPFA)

Minneapolis Firefighters will demonstrate their safety equipment. Learn about firefighting and the scientific processes that developed equipment like thermal imaging cameras, air monitoring devices, and firefighter turnout gear. Last, but not least, MAAPFA in partnership with the Minneapolis Fire Department and Network for Development of Children of African Descent (NDCAD) will hand out free books, bookmarks and coloring books.

⑨ **Science Solves Problems: Students Share Their Research**

Imhotep Science Academy & Fair
Students (K-6) in the Imhotep Science Academy will display photographs and poster boards of their research as they prepare for the MN Imhotep Science Fair.

⑩ **Get Involved with FIRST Robotics**

Minneapolis Public Schools, Patrick Henry High School
Students from the nationally recognized Patrick Henry First

Robotics team will have small robots on display and will have info on the small robotics program.

⑪ **Fun with air, vacuum, and liquid nitrogen** **3M**

Learn about the industrial uses of liquid nitrogen; see how the design of an airplane's wings allow it to fly, and more in this live air and cryogenics demonstration.

⑫ **Onion pH**

Saint Paul Public Schools, Hazel Park Middle School

Find out how a student tried to lower the pH of an onion – and if it worked! (1-2 pm only)

⑬ **What is Blood Pressure?**

University of Minnesota Medical School

Learn about heart health and blood pressure.

⑭ **Stop Motion Animation** **Kitty Andersen Youth Science Center (KAYSC)**

Members of the KAYSC's Invention Crew will help you make your very own Stop Motion Animation - a method of making movies using still images (as seen in the recent movies, "The Fantastic Mr. Fox" and "Coraline").

⑮ **Sandpaper Art** **3M, Hewlett-Packard, and National Society of Black Engineers**

Explore the various types of sandpaper and even create your own.

⑯ **Fluid Power**

University of Minnesota, Institute of Technology, Office of Diversity and Outreach

The Center for Compact and Efficient Fluid Power hands-on pneumatics workshop demonstrates basic fluid power and basic pneumatics. Create a pneumatic circuit using air switches, pumps, air tanks, and relief valves. Learn how to troubleshoot when the system is not working properly.

⑰ **Electricity, Bacteria, and Electronic Circuits**

University of Minnesota, Institute of Technology
Participate in two activities intended to "spark" your interest for Electrical Engineering. One of the activities uses kits to make basic electronic circuits. The second activity demonstrates a new type of battery and shows that it can be used to power a device.

LEVEL 4: HUMAN BODY GALLERY

⑱ **Chemistry in Motion** **Ecolab**

Everything everywhere is interconnected. We define and reshape the world around us by initiating "Chemistry in Motion". We will demonstrate how Ecolab circles its customers with solutions that meet a comprehensive array of cleaning, sanitation and service needs that make the world a cleaner, safer, healthier place.

LEVEL 3:

⑲ **Close the Gap** **Boston Scientific**

Learn about the heart, and the roles that technology such as stents, pacemakers and defibrillators plays in managing its health, through interactive, interventional and cardiac rhythm management displays.

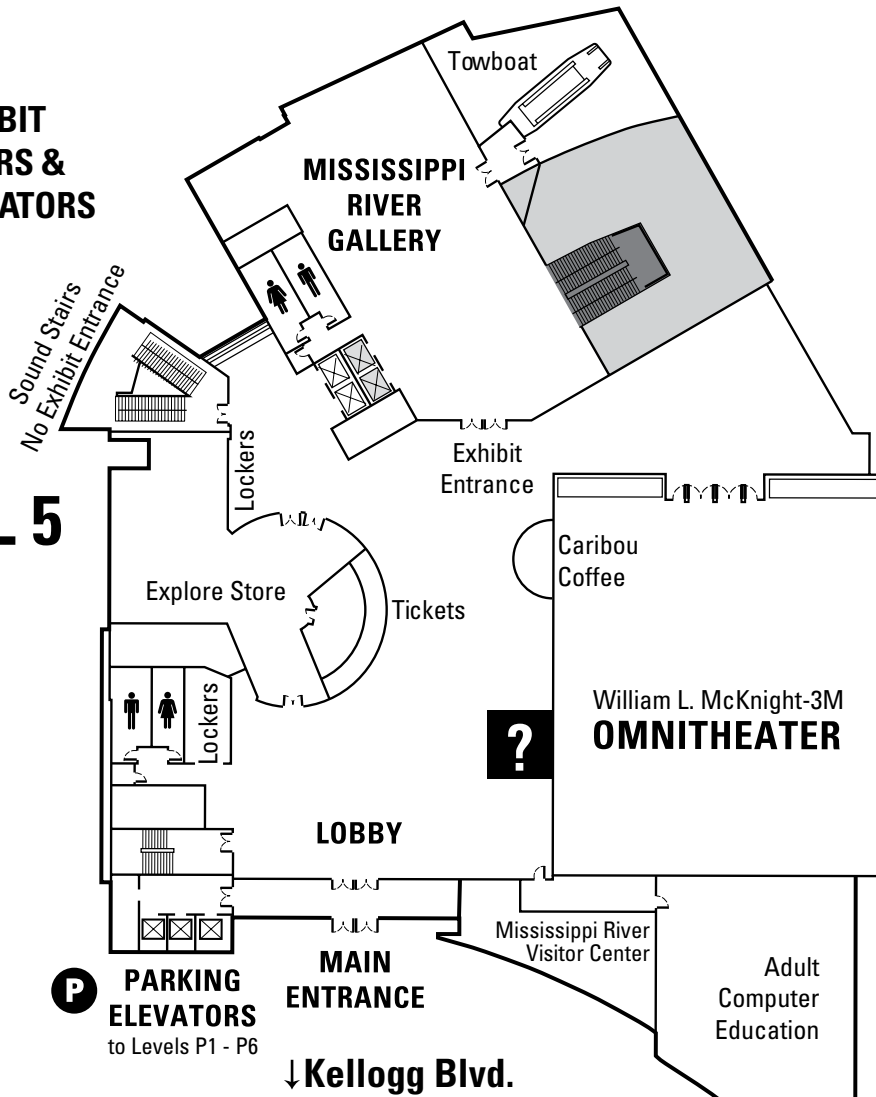
⑳ **The Dynamic Blue Sphere**

University of Minnesota, Materials Research Science & Engineering Center
Discover the dynamics of earth's weather, oceans and atmosphere.

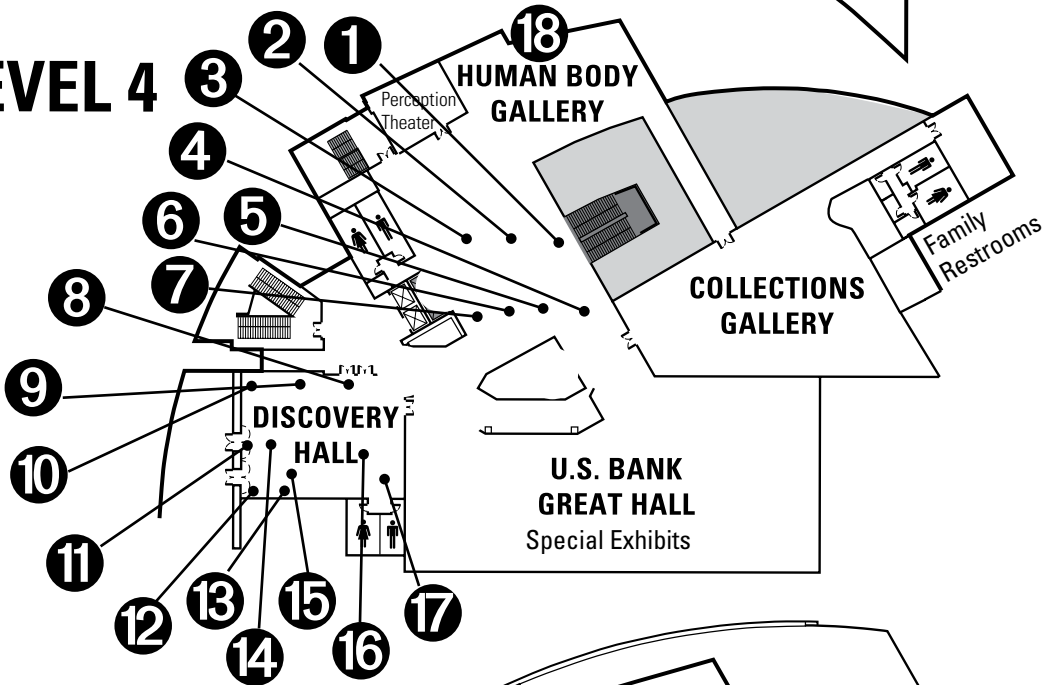
? INFO DESK

EXHIBIT STAIRS & ELEVATORS

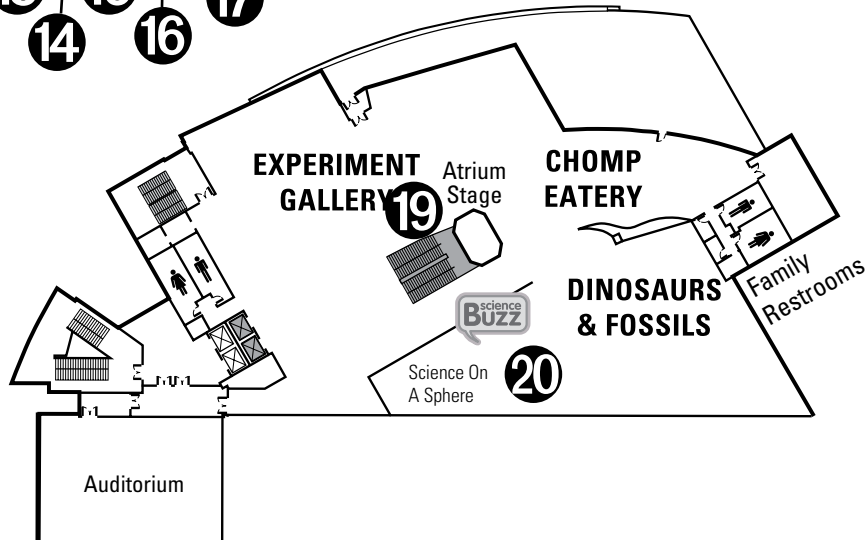
LEVEL 5



LEVEL 4



LEVEL 3



Presenters:

- Kimberly Agnew-Heard
- Jordan Alstad
- Don Alston
- Faith Amaro
- Dorothy Bensalih
- Daniel R. Bond
- Joseph Boykin
- Erin Brown
- Shayron Chambers
- Thai Chang
- Young Seek Cho
- Rossy Cruz
- Erin Dahlquist
- Christine Drayton
- Behailu Fetto
- Cameron Fobbs
- Sally Foong-Cunningham
- Rhonda R. Franklin
- Michelle Fung
- Mark Gayle
- Simone Gbolo-Thompson
- Jordan Gilliard
- Corey Graham
- Chris Harrington
- Blake Hawkinson
- Andy Her
- Anne Hornickel
- Dr. Clinton Hunt
- Deborah Isabelle
- Vincent Jackson
- Nate Jastram
- Richard Johnson
- Dan Kaisershot
- Tamara Keeler
- Hosaeng Kim
- Ted Labelle
- Caleb Levar
- Cerise Lewis
- Ying Liu
- Frank Maddox
- Munira Masud
- Keisha McCallum
- Larry McKnight
- Misha Mehta
- Dr. Altony Miralles
- Casey Murray
- Jamice Obiany
- Josephine Offori
- Vincent Okonkwo
- Tania Orandi
- Breanca Ousley
- Dr. Tolu Oyelowo
- Paula Pallas
- Carlita Payne
- Dr. Henry Philmon
- Clint Remarcik
- Lamar Roberts
- Angela Robinson
- Dan Ross
- Charles Rucker
- Melanie Rucker
- Ali Rounaghi
- Saeed Elfadil Saeed
- Eric Sok
- Rattana Sengsoulichanh
- Anura Si-Asar
- Dr. Frank Snowden
- Travis Spaulding
- Zinovia Rose Spaulding
- David Thao
- Za Thao
- Mary Tate
- Anita Thomasser
- Mika Turner
- Stacy Vang
- Leslie Woodbury
- Mai Mao Yang