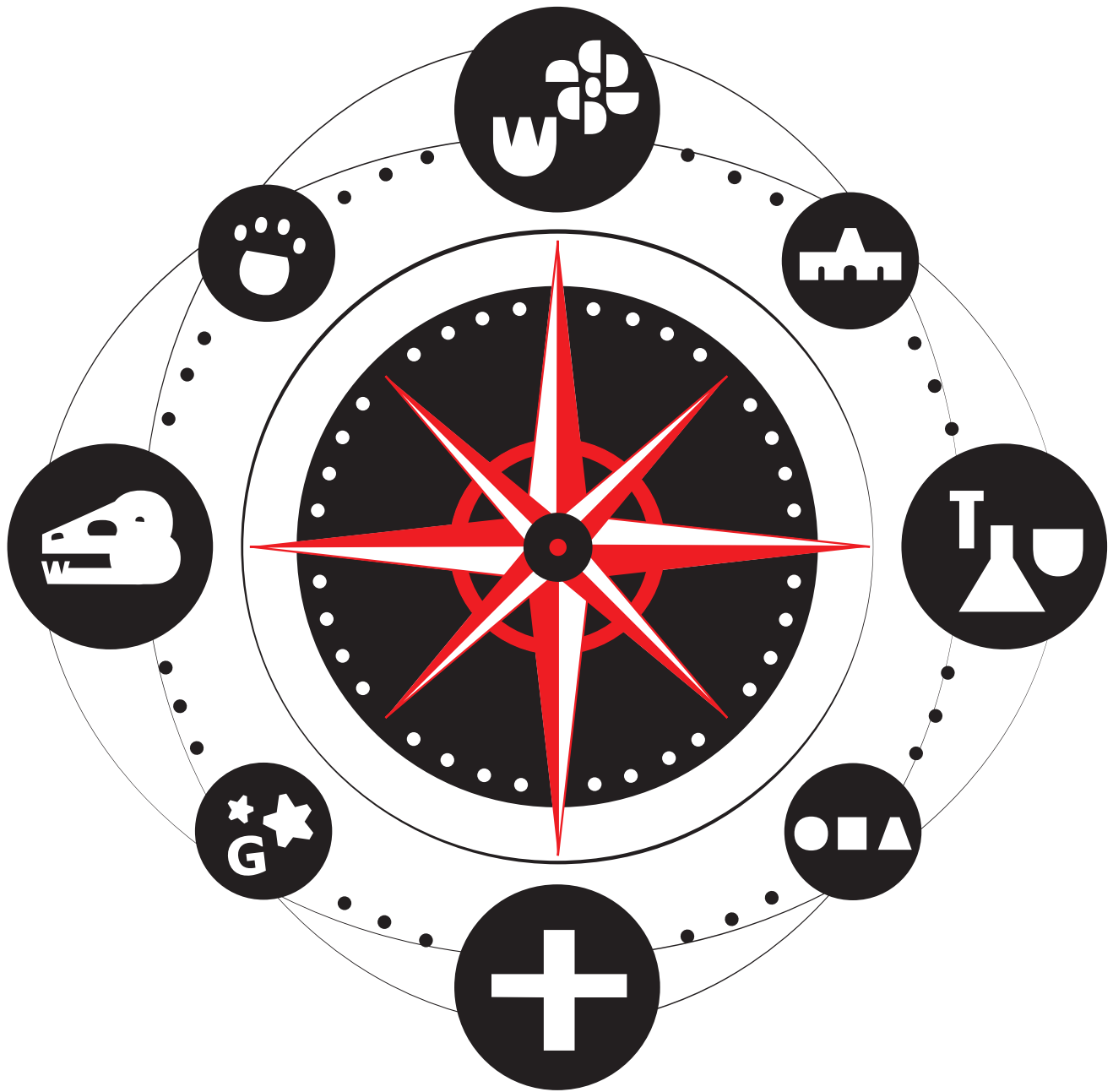


MARCH 20, 21, 22, 2015



SCIENCE EXPEDITIONS

exhibit guide



FRIDAY, MARCH 20, 2015

EQUINOX EVENING, FERMENTATION RESEARCH & EXPLORATIONS IN ANCIENT DNA • Room 1111, Genetics/Biotech, 425 Henry Mall • 6:30-9 pm

Genetics Room 1111, Genetics/Biotech, 425 Henry Mall

- 6:30-9:00 pm Cash Bar
- 6:30-8:30 pm Scientific Art Show: Angela Johnson
- 7:00 pm Ancient DNA: Jesse Dabney & Josh Hyman
 Fermentation Science: Dave Nelson
- 7:30 pm Wisconsin Fermentation Initiative: Jim Steele
 Winter Hardy Wine Grapes for Wisconsin: Dave Schreiner

Tours of Lager Yeast Lab and DNA Sequencing Lab



NIGHT WALK: SPRING EQUINOX • Visitor Center, UW-Madison Arboretum, 1207 Seminole Highway • 6:30pm-8:00pm

UW-Madison Arboretum

Join the naturalist for sunset on the first day of spring, halfway between the winter and summer solstices. Meet at the UW-Madison Arboretum Visitors Center. For all ages.



Exploration
Stations



Destinations
for Exploration



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3D PRINTING

Morgridge Institute for Research, WI Idea STEM Fellow

Learn about 3d printing through hands on experiences.



A JOURNEY THROUGH THE AUDITORY SYSTEM: HOW WE HEAR & HOW TO KEEP OUR EARS SAFE

Department of Communication Sciences and Disorders: Audiology

This exploration station includes an interactive journey through the human auditory system. You will discover how sound travels through the different parts of the ear through a hands-on experience. You will also be able to build a inner ear hair cell out of candy, listen to sounds with a hearing loss, and learn how to protect your hearing from damaging noise.



ATMOSPHERIC, OCEANIC AND SPACE SCIENCES (AOSS) OPEN HOUSE • AOSS Building, 1225 W. Dayton St. • 10am-2pm

Atmospheric, Oceanic and Space Sciences

Science Expeditions at the Atmospheric, Oceanic and Space Sciences Building, Open House hours: 10AM - 2:00PM



BACTERIAL DETECTIVE WORK WITH DNA MATCHING

Vetsigian Lab, WI Idea STEM Fellow

As a bacterial detective, your task is to find if two bacteria are the same or not. You can not always go by the way they look, but you can get better answers by examining their DNA. This exploration station is about alignment - the technique for matching multiple DNA sequences. Alignment can be used to tell if two DNA sequences are the same or different. Make your own sequences and try to align them. Or look at alignments of real DNA sequences from soil bacteria.

* Saturday Exploration Stations are at the Discovery Building (330 N. Orchard St.) 10 am-2 pm



Exploration Stations



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BREATHE IN, BREATHE OUT: IRON AND OXYGEN TRANSPORT

UW-Madison Chemistry

Proteins are biological structures made up of primarily carbon (C), nitrogen (N), oxygen (O), sulfur (S) and hydrogen (H). Some special proteins even contain metals and are called metalloproteins. Hemoglobin, a well-known iron-containing protein, is the oxygen transport protein in your red blood cells. It picks up oxygen (O₂) from your lungs and delivers it to the rest of your body. Healthy hemoglobin is essential for the overall wellness of a person. Thus we must ask ourselves: How does someone get iron into their body that is needed for hemoglobin? How do we measure the amount of oxygen-bound hemoglobin in a person? What happens when there is a mutation or problem with someone's hemoglobin? Through a series of three different hands-on activities the Burstyn Group at the University of Wisconsin- Madison would like to answer these three questions.



BUILD YOUR OWN FLY!

Bashirullah Lab

Our exploration station introduces the public to the principles of genetic model organism research and basic genetics using hands-on activities with the fruit fly, *Drosophila melanogaster*. Students are introduced to the many genetic tools in the fruit fly as they build their own paper fly that they can take home with them. The students customize their fly by choosing specific traits that can be modified in a real organism, such as eye color, wing shape, and bristle type. Students also learn about the difference between genotype, or the genetic sequence, and phenotype, or the externally visible trait. They can then observe real, living fruit flies under a microscope, allowing them to see what their paper fly would look like as an actual organism. Altogether, this exploration station introduces both students and adults to the power and importance of genetic model organism research.



BUILDING STRONG BONES

Madison Science Museum, WI Idea STEM Fellow

This station will explore the building blocks of healthy bones=Vitamin D, Calcium, and Phosphorus and examine the effects of vitamin and mineral deficiency on bone health. We will use models to test the different properties of healthy and weak bones under stress.



CAN YOU BELIEVE YOUR EYES

McPherson Eye Research Institute

While the eye is the sensory organ that collects light, the brain is actually responsible for converting, processing and interpreting the data embedded in those collected photons into usable information that we experience as visual perception. The brain relies on neurons to convert and process data and experience, context, inference and bias to make interpretations about sensory data, including light. The brain is vulnerable to being tricked by data that overstimulates different kinds of processing neurons (physiological) or data that triggers biased inferences during interpretation (cognitive). These tricks result in the experience of optical illusions, where perception differs from reality. In this exploration station, we will examine physiological illusions and cognitive illusions to help visitors learn about visual perception and the brain.

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CHASING THE GHOST PARTICLE – FROM THE SOUTH POLE TO THE EDGE OF THE UNIVERSE • Sterling Hall Planetarium, 475 N. Charter St.
10-10:30am; 11-11:30am; 12-12:30pm; 1-1:30pm; 2-2:30pm
Wisconsin IceCube Particle Astrophysics Center

Deep in the ice at the heart of Antarctica, IceCube, the biggest and strangest detector in the world waits for mysterious messengers from the cosmos. Scientists are using tiny and elusive particles called neutrinos to explore the most extreme places in the universe. These ghostly neutrinos give us an exclusive way to study powerful cosmic engines like exploding stars and black holes.

In this 30-minute show, stunning simulations of the most energetic places in our universe, and the galaxies around us, are the prelude to a thrilling journey inside IceCube, looking for traces of neutrino collisions in the ice. From one of the most remote locations on Earth to the unexplored regions of the cosmos, Chasing the Ghost Particle: From the South Pole to the Edge of the Universe will take you on a journey you won't forget.

Following the film, your journey continues with an interactive Tour of the Universe in the UW Planetarium.

Seats are limited for each show, they are first come, first seated.



CHICKENS R US - A MODEL FOR FETAL ALCOHOL SYNDROME
Nutritional Sciences, Animal Sciences



COWS TURN GRASS INTO MILK
Center for Integrated Agricultural Systems

Take a quiz comparing grassfed and conventional cheese and butter (including cheese tasting) and take part in a hands-on activity designing managed grazing systems using miniature electric fence segments, cows, a dairy barn, and a pasture. Students will be encouraged to draw cows, pastures and grazing systems (we'll encourage more complex drawing projects for older kids). Students can take a grazing activity sheet and we will have a Fun Grazing Facts Fortune Teller craft to make at the exhibit or take home, as well as take-home information on the properties of grassfed dairy products and recipes for parents.



CRANBERRY: THE NATIVE AMERICAN JEWEL OF THE BOG
Department of Horticulture

Did you know that Wisconsin is the largest producer of cranberries in the United States and the world? Stop by our station to learn more interesting facts about the history of the cranberry, its many benefits, and what we are doing to make this amazing fruit even better. Have you ever seen cranberries float in water? Learn why they float and see if you can figure out if other fruits will sink or swim. Do you know what cranberry juice tastes like? Come take our cranberry juice taste test to see if it tastes how you think it does!

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CREATURES OF THE UW ZOOLOGY MUSEUM

Biocore Outreach Ambassadors and UW Zoology Museum

Explore critters of the University of Wisconsin Zoology collection! Touch animal furs, see preserved specimens, and examine bones.



CROSSLINKING CANDY

Graduate Women in Science (GWIS-Beta)

Alginate is a polysaccharide that is found in brown algae. Did you also know that it's found in many of the foods we eat? Alginate is used to thicken and stabilize many food products. We will demonstrate and explain how the crosslinks in alginate form by comparing its formation in different solutions. Stop by to find out what alginate is, how it works, and if you've eaten it recently!



DC SMITH GREENHOUSE • 465 Babcock Dr. • 10am-2pm

UW CALS

Explore the fascinating world of plants with hands-on activities. Investigate the ways that plants respond to their environment and how scientists and growers control plant growth by manipulating the growing environment.



DESIGN A SEED

Morgridge Institute for Research-Discovery Outreach, WI Idea STEM Fellow

Plants, like all organisms, have adapted to their environment. In this activity, participants will design seeds that will complete a series of challenges.



DIFFERENT WAYS OF SEEING

McPherson Eye Research Institute

How might a person with impaired vision see the world? With different abilities and limitations, what things are easy to do and what things are difficult to do? Looking through specially prepared masks (for children) or goggles (for youth and adults), participants can simulate vision impaired by: (1) central blind spots, often caused by age-related macular degeneration (AMD) or Stargardt's disease; (2) tunnel vision, often an early symptom of glaucoma or retinitis pigmentosa; (3) impaired acuity across the whole visual field, occurring with cataracts and with congenital impairments such as optic nerve hypoplasia, albinism, and colorblindness. While looking through these mask and goggle simulators, participants will try activities including reading (varied print sizes), writing (varied pens and papers), telling time (using regular and large-print watches, a talking clock, regular and large-print calendars), and vision testing with a traditional eye chart.

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DIRTY & SQUIRMY: MENDELIAN GENETICS WITH WORMS

Biochemistry

Humans and worms have a lot more in common than you might think! At this Exploration Station, you will learn about fundamental genetic principles through observations of a microscopic round worm called *C. elegans*. We'll explore how genotype affects phenotype and how Mendelian inheritance of traits works, all while looking at squirmy worms under a microscope! We'll think about how these genetic principles apply to humans, too.



DIY LAVA LAMP

Biology Outreach Club

Using vinegar, oil, baking soda, and food coloring, we build our own lava lamps and learn about miscibility.



DNA MODELS

UW Undergraduate Genetics Association

Have you ever wondered how your genetic information is encoded? Build your own DNA model with pipecleaners and beads to learn about the structure of the DNA double helix, and discover how DNA is replicated and translated into proteins.



EAT OR BE EATEN: HOW ANIMALS FIND FOOD IN A DANGEROUS WORLD

Zoology

Learn about how animals deal with trade-offs between searching for food and dealing with predators. Play a game where you gather food while avoiding being eaten by a predator. Museum specimens will also be on display.



ENERGY INNOVATION: UW AND BEYOND

Wisconsin Energy Institute, 1552 University Ave. • 2:30pm-4pm

Wisconsin Energy Institute

Join the Wisconsin Energy Institute (WEI) and the Division of Continuing Studies for a tour and talk of energy innovation in Wisconsin and around the world. UW Professor of Geoscience Alan Carroll will deliver a short presentation and discussion about his upcoming MOOC Energy and the Earth and recently published book Geofuels. This will be followed by a tour of the Wisconsin Energy Institute that will feature ongoing research projects and the energy efficiency features incorporated into the building's design. The tour will also allow interested individuals to connect with opportunities to volunteer at upcoming events within WEI education.

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EXPLORE TOXICOLOGY

Molecular and Environmental Toxicology Center

We have 2 activities to teach children and their families about basic toxicology concepts. The first activity, ToxLand, is based on the boardgame CandyLand. Participants travel across the game board by correctly answering toxicology-related questions about how chemicals affect humans, animals, and the environment. At the end of the game, they are rewarded with a piece of candy. We have two separate sets of question cards geared at different age groups. In the second activity, Carnation Bioaccumulation, participants learn how plants take up and bioaccumulate chemicals by observing white carnations taking up food dye. We also use example carnations to illustrate dose-response relationships. They make their own colored carnation to take home.



EXPLORING SURGICAL SCIENCE

Surgery

Test your hands at our stations, as you use advanced surgical instruments to complete challenging tasks such as the Tootsie Roll Transfer and the LifeSavers Lasso. Do you have the hands of a surgeon?



EXPLORING THE BRAIN WITH THE NEUROSCIENCE TRAINING PROGRAM!

Neuroscience Training Program

Come and learn about the workings of the brain and nervous system! Neuroscientists will lead you through hands-on activities including a chance to hold a human brain!



FAREWELL, CANCER CELL!

SMPH & WI Idea STEM Fellows Program

Molecular pathways that facilitate cell growth and/or prevent cell death are often more active in cancer cells than in normal cells. Here, we will explore how drugs that target specific molecules within these signaling cascades result in cancer cell death.



GENERATION RX

Wisconsin Society of Pharmacy Students

Generation Rx is a community outreach initiative run through the Wisconsin Society of Pharmacy Students. The goal of Generation Rx is to make students, educators, and the community at large more aware of the facts, prevalence, and very serious consequences that result from prescription drug abuse. Prescription drugs are dangerous, can be addictive, and their abuse is illegal! Through education about safe medication disposal in Dane County and across the Midwest, we work to make our communities safer. At this Exploration Station, visitors will be exposed to what happens in the human body when we take medications, as well as learn more about the science behind addiction. Finally, visitors will receive magnets and other materials containing resources regarding safe medication disposal and addiction helplines.

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GLASSBLOWING FOR SCIENTIFIC RESEARCH WITH THE WISCONSIN FIREWAGON

Chemistry & WI Idea STEM Fellows Program

Scientific glassblowers provide the glass tools and instruments for today's cutting edge research. Learn about glass, glass science, and watch as a torch and fire is used to manipulate glass into a variety of shapes and forms.



GUESSING GAMES WITH DICE, FOXES, AND RABBITS

Genetics, WI Idea STEM Fellow

Predicting the future is tricky. We know some things that help us make educated guesses, and usually we would like to know much more; but nothing helps, if we try to predict a true random process. Most events in real life are determined by a mix of what we know, what we don't know and what we can't know, as in "The Dice Game": How far will you get on the number line after rolling a dice once or 10 times? How does our prediction change, if the dice has six sides or twenty sides? What if we tried to predict something even harder and used a computer to help us? In the "Foxes and Rabbits Guessing Game", we try to predict what happens to a group of foxes and rabbits over time. Come see if you can predict what will happen by using a computer simulation program designed by biologists for biologists!



HOW DO FISH LEARN? STARTLE RESPONSE TESTING IN ZEBRAFISH

WISCIENCE, WI Idea STEM Fellow

Scientists are interested in studying what happens to a fish's brain when it learns something. At this station, discover how fish and humans learn to react to being startled and see how this helps us understand the brain. Become a subject yourself and see your reaction to being startled. How will your brain respond?



"HONORING A COMMITMENT" ON FINDING PFC GORDON

Room 1111 Genetics/Biotech Center, 425 Henry Mall • 3:30-4:30PM

Biotechnology Center

"Honoring a Commitment" is a documentary film on how relatives & friends of PFC Lawrence S. Gordon, a Canadian serving in the US Army and who was killed in action in France in August 1945, traced through WWII archives and tracked down and ID'd the misplaced remains that proved to be those of PFC Gordon. This story underscores the new contributions that DNA analysis can make in helping to identify some of the 10,000 sets of remains of U.S. soldiers that are as yet unidentified.



INGERSOLL PHYSICS MUSEUM • Chamberlin Hall, 1150 University Ave.

9am-4pm

Department of Physics

Explore dozens of intriguing hands-on exhibits that invite you to test your ideas about how things from bicycles to plasmas really work.

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INSIDE THE HUMAN BRAIN

Department of Psychiatry, WI Idea STEM Fellow

My exploration station is geared towards getting people to understand why it is important to use non-invasive tools (i.e., non-surgical) like Magnetic Resonance Imaging (MRI) for studying the human brain. In my own research, I use MRI to study the human brain's responses to things people typically like (for example, money). The set-up will involve a display of a brain scan on a laptop that people can scroll through before entering a mock MRI scanner where they can get their own "brain scans" (i.e., a black and white outline of a brain that they can color in and take home with them). Audience is primarily children (hence coloring activity), but adults may also enjoy scrolling through brain image and entering the "MRI scanner."



LEAF-CUTTER ANT DISPLAY COLONY

Ground floor atrium, Microbial Sciences Bldg., 1550 Linden Dr. • 10am-2pm

Bacteriology

Visit the Currie-lab's large leaf-cutter ant colony and learn about these amazing organisms! Observe the ants cutting and carrying leaves to feed the symbiotic fungus they farm in underground chambers. Watch the ants raise their young and weed their fungus. Plus, learn how we can improve our understanding of basic biology, discover new antibiotics, and contribute to biofuel research by studying these insects. Visitors can observe our display colony, play a game to experience the challenges of forming a successful leaf-cutter ant colony, and learn how to collect ants in their own backyards.



MAKE IT AND BREAK IT: BE A TISSUE ENGINEER

Morgridge Institute for Research, WI Idea STEM Fellow

What are cells? What are tissues? What are organs? Look at cells and tissues under a microscope. Explore how engineers use different materials to make and repair tissues. Test your tissue model and what kinds of forces it can withstand.



MARMOSETS IN OUR MIDST

Lobby, Primate Center, 1220 Capitol Ct. 12-4pm

Primate Center

Join us at the Wisconsin National Primate Research Center to learn about life-saving research and humane animal care. Our family of common marmosets in the lobby inspires curiosity among all ages. We will also have a variety of hands-on activities for visitors to enjoy as they learn about Primate Center research and animal care activities.

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MICROGRIDS: LOCAL POWER GENERATION AND DISTRIBUTION

Wisconsin Energy Institute, WI Idea STEM Fellow

This exploration station will include hands on educational circuit components that can be manipulated to represent different ways to generate electricity using renewable energy sources with the ability to connect or disconnect from the main utility grid based on supply and demand for power.



NATIVE PLANTS FOR NATIVE POLLINATORS

UW-Madison Arboretum

The UW- Madison Arboretum is engaged in research involving native plants and native pollinators. At our station you will learn what the Arboretum's current research and findings are. We will highlight bumble bees and butterflies, especially the monarch butterfly, as we discuss with you the importance of native plants for these animal species. We will send you back to your own green spaces with a pack of native seeds to plant so you can become a citizen scientist and help our native pollinators.



OF MICE AND MOLD: EXPLORE HOW SCIENTISTS USE MICE TO FIGHT INFECTIONS

WI Idea STEM Fellows Program

How do we fight infections more effectively? Use a hands-on approach, exploring models of mouse genetics to understand how scientists study mice and the immune system.



"PARTICLE FEVER" MOVIE

The Marquee, Union South, 1308 W. Dayton St. • 2-3:30pm

WiPAC

For the first time, a film gives audiences a front row seat to a significant and inspiring scientific breakthrough as it happens. Particle Fever follows six brilliant scientists during the launch of the Large Hadron Collider, marking the start-up of the biggest and most expensive experiment in the history of the planet, pushing the edge of human innovation.



PLANT COLLECTIONS OF THE WI STATE HERBARIUM

Main Atrium, Birge Hall, 430 Lincoln Dr. • 10am-2pm

Botany, Herbarium

The Wisconsin State Herbarium (WIS) in historic Birge Hall at the top of Bascom Hill is one of the world's greatest collections of plant, fungi, and lichen specimens. Only 50 of the world's 3,400 herbaria hold botanical collections of more than 1 million specimens, and WIS ranks 36th among these in size. It is the 10th largest herbarium in the USA, and the 3rd largest public university herbarium in the Americas. Visitors will be treated to a rare behind-the-scenes tour of this museum's treasures by herbarium curators during Saturday's open house.

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PLASMA PHYSICS AND FUSION POWER

Physics

Interact with amazing plasma displays! Collect (free) Exotic Plasmas of the Universe Trading Cards. Learn about plasma physics in a fascinating way through colorful pictures, interesting (and sometimes mind-boggling!) facts, and outstanding questions about plasmas studied in both astrophysics and fusion energy research.)



POLYMER EXTRAVAGANZA

Institute for Chemical Education, WI Idea STEM Fellow

Plastics are synthetic, or man-made polymers. A polymer is a molecule made up of a repeating unit, or monomer. It is created by a polymerization, or a chemical reaction where monomers combine to form long chains (or other shapes such as coils, stars, and sheets). In this exploration station participants will learn about polymers and make their own slimy polymer to take home.



QUANTUM COMPUTING

Physics, WI Idea STEM Fellow

For the past fifty years, classical computing has brought our civilization to the Information Age by enabling the interconnecting of peoples and machines around the world and processing scientific information faster than any human--or even group of humans--could ever hope.

Quantum computing is the next level of human computational prowess and promises to make problems that were nigh impossible before accessible. This will push science forward even further in certain fields. The purpose of this demonstration is to describe the fundamental differences between a current classical computer and a quantum computer at a very introductory level.



REPTILES & AMPHIBIANS!

Madison Area Herpetological Society

The Madison Area Herpetological society educates enthusiasts and the general public about frequently misunderstood reptiles and amphibians. It is a great source for people to exchange knowledge, from amateur hobbyist to experts. It also gives a community a basis for expertise on issues dealing with local laws, ordinances, and conservation.



ROCK CLIMBING AND GEOLOGY

The Sett Lower Level, Union South, 1308 W. Dayton St. • 12:15-12:45pm

Department of Geosciences

Geological processes create many fantastic features on the surface of the Earth. Some of these features make access to rocks that are scientifically interesting challenging. They also make great opportunities to challenge your physical and mental self through rock climbing! Come learn how rock climbing relates to geology and vice versa at the Union South rock climbing wall!!

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ROOFTOP GREENHOUSE AT LEOPOLD RESIDENCE HALL

Leopold Residence Hall, 1635 Kronshage Dr. • 10am-2pm

Division of Housing, Residence Life

Come visit the only greenhouse atop a residence hall in the world! Meet some of the passionate residents that inhabit Leopold Hall, UW's newest residential building. In this space of informal teaching and learning, residents engage themselves in hobby research, food production, homework, horticultural whimsy, sunshiny hangouts, and even yoga sessions. Come explore and maybe even leave with a miniature greenhouse of your own!



RUMINATION STATION

Heartland Farm Sanctuary

Why does a cow chew its cud? How does a cow, goat, or sheep digest its food and how is it different from us? Play the rumination game and follow the path of food from the time the food goes in until it comes out.



SCIENCE OF STEM CELLS

WiSCR, SCRMC

Stem cells are the are forefront of biomedical sciences. Come talk to real stem cell scientists and learn how they work with stem cells in a hands-on laboratory demonstration.



SCIENTIFIC GLASSBLOWING TOUR

Chemistry Building, 1101 University Ave. • 10am-2pm

Chemistry & WI Idea STEM Fellows Program

The Chemistry Department has the only scientific glassblowing laboratory on the UW-Madison campus. Many of the glass instruments are custom built by hand to aid scientists in their research. Come learn about glass and watch as fire is used to create these practical and beautiful glass tools.



SPICE CHEMISTRY DEMONSTRATIONS SHOW

Chemistry Building, 1101 University Ave. • 1-1:45pm

Students Participating in Chemical Education

SPICE, Students Participating In Chemical Education, is an organization at the University of Wisconsin-Madison of trained undergraduate students who perform chemistry demonstration programs with the aim of interesting students in chemistry and science.

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SQUISHY SECRETS OF GUMMY BEARS

Food Science Club

Do you know what gives gummy bears their squish? Do you think gummy bears melt? Come learn about the secret ingredient in gummy bears, gelatin, and the squishy secrets that give gummy bears their magical properties.



STUDY PROTEINS WITH LIGHT

Dept. of Chemistry

This exploration station provides interactive activities to show the audience how scientists can use light to study protein structures. There are three components of this station. First, we show that protein can be different colors (absorbing different frequency of light) when it adopt different structure. Second, we show how scientist can study the structure of proteins, DNA or other molecules using the diffraction patterns of their crystal structure. Third, we will have a small lecture (for whom are interested in) of a more advanced technique laser vibrational spectroscopy.



SWEET SCIENTISTS, SWEETER RESEARCH

Room 1111 Genetics/Biotech Center, 425 Henry Mall • 2:30-3:15pm

Food Science

Amy DeJong, who along with fellow grad student & "Sweet Scientist" teammate Maya Warren, recently won the Amazing Race. Amy will be sharing a combined saga of her research and the experiences of Maya & Amy in the Amazing Race. Find out more about the the Sweet Scientists' work to help change how people view scientists and to help inspire girls to consider careers in science.



TAKE A GUIDED TOUR THROUGH A CELL

WI State Laboratory of Hygiene/UW-Madison

Make a cell using fun craft supplies. Then take a test drive with WI State Laboratory of Hygiene scientists looking at real cells using a computer. Learn how cytotechnologists, pathologists, and other laboratory scientists use this technology to evaluate cells to determine whether the specimen is normal; an infection is present; or if the cells represent a precancerous or cancerous disease.



THE GREAT CLADE RACE

J.F. Crow Institute for the Study of Evolution

In The Great Clade Race game, participants learn how evolutionary biologists think about species relatedness. It is a fun evolutionary tree-thinking activity where kids can solve a puzzle and examine how scientists reconstruct evolutionary history.

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THE INCREDIBLE SURFACE OF WATER

Department of Chemistry

Water is all around us! Come explore its unique attributes by participating in hands-on demonstrations of surface tension, a property that makes the surface of water especially strong. Create a cloud in a bottle, build your own lava lamp, learn about the shapes of soap bubbles and films, and step inside a human-sized bubble. Our own research explores how molecules that coat the surface of water (just like soap does) affect chemical reactions, including those that occur in sea spray droplets and in clouds in the atmosphere.



THE PHYSICS OF PLASMA • Room 2103 Chamberlin Hall, 1150 University Ave. • 10-10:30am; 12-12:30pm; 2-2:30pm

The Wonders of Physics, UW-Madison Physics Dept.

The Wonders of Physics has a new, 30-minute show called "The Physics of Plasma". The goal of the program is to educate people about plasmas: what they are, where they can be found, and what we can do with them. Audience members will be entertained and amazed by fun, fast-paced demonstrations of various plasma devices, including: plasma globes, Van de Graaff generator, Jacobs ladder, Tesla coil, and two new musical Tesla coils!



THE RIVER THAT FLOWS UPHILL

Wisconsin Geological and Natural History Survey, WI Idea STEM Fellow

Do you know which way the Wisconsin River flows? Do you know which way it used to flow? Come find out the dynamic past of the Wisconsin River and learn about stream piracy and how geologists unlock the secrets of the subsurface.



TOILETS TO TOMATOES: BIOSOLIDS REUSE

Civil/Environmental Eng. & WSLH & WI Idea STEM Fellows Program

Explanation of biosolids. What are they? Where do they come from? What do we use them for? Includes a hands-on water purification activity.



TOUR OF AMAZING MICROSCOPES AT LOCI, THE LABORATORY FOR OPTICAL AND COMPUTATIONAL INSTRUMENTATION

271 Animal Sciences Building, 1675 Observatory Dr. • 2-2:45pm

SPIE/OSA

Come see how microscopy and computation are applied in research. Real scientists at the Laboratory for Optical and Computational Instrumentation (LOCI) will be giving a tour of their facilities and explaining some of the exciting research they do there. We are a biophotonics instrumentation laboratory developing advanced optical and computational techniques for imaging and manipulating living specimens.

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UW GEOLOGY MUSEUM OPEN HOUSE
First Floor, Weeks Hall, 1215 W. Dayton St. • 9am-4pm
 UW Geology Museum

Explore the Geology Museum and take a peek into Wisconsin's deep history! On your visit you can touch rocks from a time when there were volcanoes in Wisconsin; see corals, jellyfish and other sea creatures that used to live and swim where we now walk; and stand under the tusks of a mastodon while imagining yourself in the Ice Age. Also on display at the Geology Museum are rocks and minerals that glow, a model of a Wisconsin cave, dinosaurs and meteorites. Our mineral, rock and fossil collections have the power to educate and inspire visitors of all ages. Come see for yourself!



UW-MADISON BOTANY GREENHOUSES
South side, ground level, Birge Hall, 430 Lincoln Dr. • 10am-2pm
 Botany Department

The facility features more than 1,000 species and aquatic, desert and tropical communities. Botany Greenhouses serve both teaching and research as a living reference for plant families, genera and species. Examples of plants from around the world demonstrate the diversity and beauty of the plant kingdom. In addition to meeting essential teaching and research interests, the greenhouses are an aesthetic resource for students and the community. Botany staff assist visitors seeking advice on plants for their homes and gardens, and touring school children gather the seeds of environmental stewardship.



WHAT IS HAPPENING TO OUR POLLINATORS?
 Brunet Laboratory in Entomology and USDA-ARS

Would you like to learn more about pollinators? Who are they? What do they do? What services do they provide? Are they in peril? If you are interested in these questions come and visit our booth and we will have introduce you to fun activities that will provide you with some answers.



WHAT'S IN YOUR WISCONSIN FISH FRY
 UW Sea Grant Institute, WI Idea STEM Fellow

You might know where to go for your favorite fish fry on Fridays, but do you know where that fish came from? The Great Lakes once provided plenty of yellow perch, but changes in food webs have caused chefs to look far beyond our local waters to fill our plates. Go fishing in a past and present Lake Michigan to construct your own Friday night fish fry.



WHAT'S THE FAT IN THAT?
 Edgewood College Office of Science Outreach

Guess how much fat is in many popular food items. You might be surprised at where the fat is hiding...and where it isn't.

* Saturday Exploration Stations are at the Discovery Building (330 N. Orchard St.) 10 am-2 pm



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WHERE THE WILD THINGS ARE

UW-Madison Horticulture, US Department of Agriculture

Can you imagine a time when French fries were unheard of in France, or when tomato sauce was unknown in Italy? Can you picture Szechwan without hot peppers, Belgium without chocolate or Georgia without peanuts? It wasn't long ago that the culinary world was very different from what it is today. Many of the fruits and vegetables that we enjoy routinely were unknown or didn't exist! People around the world developed them from wild plants, often making dramatic changes to taste, texture and appearance in the process. Find out where the wild ancestors of our fruits and vegetables are found, and discover how their domesticated descendants traveled throughout the globe to enrich our lives. Explore with us the fascinating origin of the food you eat and how scientific advancements ensure a never ending supply of healthy fruits and vegetables for your dinner table.



WISCONSIN FAST PLANTS FROM SCIENCE HOUSE & THE BIOTRON

Science House, 1645 Linden Dr. • 10am-2pm
Wisconsin Fast Plants

Explore the oldest frame building on campus, the former Artist-in-Residence Residence, now home to the Wisconsin Fast Plants program. Science House is the intersection of science research and science education. The Biotron enables unique research through advanced climate control of its facilities and greenhouses. Join us for live-specimen displays with science researchers and educators. Learn how plants respond to different environments. Learn about what research is done on campus with Wisconsin Fast Plants. Learn about greenhouse pest insects and pollination by bees. Pollinate our plants and become a plant breeder! Leave with a plant greenhouse necklace!

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EARTH PARTNERSHIP FOR FAMILIES: SPRING AWAKENINGS • Visitor Center, UW-Madison Arboretum, 1207 Seminole Highway • 12:30-3:30pm

UW-Madison Arboretum

Spring has sprung! Join us for springtime activities: the return of winter migrators, sap running in the trees, buds swelling, and the earliest flowering shrubs. This program is a drop-in event starting at 12:30 p.m. and ending at 3:30 p.m. A naturalist-led hike will take place from 1:30-2:30 p.m. This program is geared toward families with preschool and elementary school aged children. Meet at the UW-Madison Arboretum Visitors Center.



GUIDED TOUR OF PICNIC POINT • Lot 129, 2004 University Bay Dr. 2-3pm

Friends of the Lakeshore Nature Preserve

Tour of Picnic Point, Sunday March 22, 2pm, led by members of the Friends of the Lake Shore Nature Preserve. Gather at the stone gate entrance to Picnic Point a few yards north of Lot 129, 2004 University Bay Drive. This explanatory 1-hour walk will focus on the cultural history, ecology, and geology of the area and will be oriented toward families.



PUBLIC TOUR WALK: AWAKENING LAND • Visitor Center, UW-Madison Arboretum, 1207 Seminole Highway • 1-2:30pm

UW-Madison Arboretum

We will look for buds swelling, the return of birds such as sandhill cranes and turkey vultures, and indications of mole and worm activity in the thawed soil.



UW HEALTH CLINICAL SIMULATION PROGRAM • Lobby, Health Sciences Learning Center, 750 Highland Ave. • 10am-2pm

UW Health

Participants will tour the brand new, state-of-the-art Clinical Simulation Program. During the tour, participants will have the opportunity for some hands-on experiences in simulated healthcare rooms as well as interacting with high-fidelity human patient simulators. Space is limited, so please sign up at the Clinical Simulation Program kiosk in the HSLC atrium upon your arrival.

* Sunday Exploration Stations are at the Health Sciences Learning Center (Pg. 18) and Signe Skott Cooper Hall (Pg. 25) 10 am-2 pm



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SUNDAY, MARCH 22, 2015

Exploration Stations at Health Science Center (750 Highland Avenue) 10 am-2 pm



ASK A FUTURE PHYSICIAN: FUN BODY FACTS USING ORGANS

SMPH

Medical Students from the student organization Doctors Ought to Care will host an interactive "Ask a (Future) Doctor" table. Using human organs, medical students will share fun facts about the body, have opportunities for kids to ask questions, and lots of time for kids to touch and hold organs.



ASK A SCIENCE LIBRARIAN (CAMPUS SCIENCE LIBRARIES)

Steenbock Library, GLS Science Libraries

As librarians, our expertise is in linking students, staff and community with the resources they need to answer their pressing information needs. Speak with us about how you can use our campus science libraries. Explore resources and engage with us in our science Q&A activities.



ASK-A-DOC

Pediatrics

Table staffed by residents with general medical equipment to show and demonstrate to kids and their families. Can also answer simple general health questions.



BIOMEDICAL ENGINEERING

Biomedical Engineering Graduate Student Association

Biomedical engineers are helping to develop the next generation of medical technologies. Come meet real biomedical engineers and learn how to make biomaterials for drug delivery applications.



CHILD EMOTION RESEARCH LAB

Waisman Center

The Child Emotion Research Lab conducts child development research primarily about children's emotional development. Our exploration station will demonstrate some of the methods we use for our research.

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CROSSLINKING CANDY

Graduate Women in Science (GWIS-Beta)

Alginate is a polysaccharide that is found in brown algae. Did you also know that it's found in many of the foods we eat? Alginate is used to thicken and stabilize many food products. We will demonstrate and explain how the crosslinks in alginate form by comparing its formation in different solutions. Stop by to find out what alginate is, how it works, and if you've eaten it recently!



DIFFERENT WAYS OF SEEING

McPherson Eye Research Institute

How might a person with impaired vision see the world? With different abilities and limitations, what things are easy to do and what things are difficult to do? Looking through specially prepared masks (for children) or goggles (for youth and adults), participants can simulate vision impaired by: (1) central blind spots, often caused by age-related macular degeneration (AMD) or Stargardt's disease; (2) tunnel vision, often an early symptom of glaucoma or retinitis pigmentosa; (3) impaired acuity across the whole visual field, occurring with cataracts and with congenital impairments such as optic nerve hypoplasia, albinism, and colorblindness. While looking through these mask and goggle simulators, participants will try activities including reading (varied print sizes), writing (varied pens and papers), telling time (using regular and large-print watches, a talking clock, regular and large-print calendars), and vision testing with a traditional eye chart.



DISCO MICROBES - GERM TRANSMISSION

Biology Outreach Club

SEE (!) how easy microbes spread - visual using blacklight and glow in the dark lotion
Teach good hand washing techniques.



DISCOVERING ELECTRICITY AND CONDUCTIVITY WITH MAKEY MAKEYS

Women In Science and Engineering Learning Community

We will be using Makey Makey circuit boards to look at the conductive properties of everyday objects and ourselves.



EAT OR BE EATEN: HOW ANIMALS FIND FOOD IN A DANGEROUS WORLD

Zoology

Learn about how animals deal with trade-offs between searching for food and dealing with predators. Play a game where you gather food while avoiding being eaten by a predator. Museum specimens will also be on display.

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EBLING LIBRARY Ebling Library

The Ebling Exploration Station will serve both children and their grownups. There will be anatomy games and coloring pages for the kids and librarian-assisted help with databases that offer resources on drugs, diseases, self-help, public health, and treatment. See how medical librarians help researchers, doctors, nurses, and others with the information they need.



ELECTRIC EARS AND HOW WE HEAR Binaural Hearing & Speech Lab

Learn how science and hearing go together, then listen to demonstrations of hearing loss and electronic hearing. This hands-on exhibit will demonstrate how the sense of hearing works; from the development of cells that form the inner ear to the electrical impulses that the brain "hears."



EXPLORING SURGICAL SCIENCE Surgery

Test your hands at our stations, as you use advanced surgical instruments to complete challenging tasks such as the Tootsie Roll Transfer and the LifeSavers Lasso. Do you have the hands of a surgeon?



EXPLORING THE BRAIN WITH THE NEUROSCIENCE TRAINING PROGRAM! Neuroscience Training Program

Come and learn about the workings of the brain an nervous system! Neuroscientists will lead you through hands-on activities including a chance to hold a human brain!



FAREWELL, CANCER CELL! SMPH & WI Idea STEM Fellows Program

Molecular pathways that facilitate cell growth and/or prevent cell death are often more active in cancer cells than in normal cells. Here, we will explore how drugs that target specific molecules within these signaling cascades result in cancer cell death.

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GENERATION RX

Wisconsin Society of Pharmacy Students

Generation Rx is a community outreach initiative run through the Wisconsin Society of Pharmacy Students. The goal of Generation Rx is to make students, educators, and the community at large more aware of the facts, prevalence, and very serious consequences that result from prescription drug abuse. Prescription drugs are dangerous, can be addictive, and their abuse is illegal! Through education about safe medication disposal in Dane County and across the Midwest, we work to make our communities safer. At this Exploration Station, visitors will be exposed to what happens in the human body when we take medications, as well as learn more about the science behind addiction. Finally, visitors will receive magnets and other materials containing resources regarding safe medication disposal and addiction helplines.



GROWING PLANTS IN SPACE FOR ASTRONAUT HEALTH

Botany

On the International Space Station (ISS), astronauts eat packaged foods from Earth. However, where will their food come from for longer missions? Ultimately, we will need to learn how to grow plants in microgravity to support astronaut physical and mental health. Find out about growing plants in microgravity on the ISS, including lighting, watering, and the challenges plants face as they adapt to an environment that is out of this world.



GUESSING GAMES WITH DICE, FOXES, AND RABBITS

Genetics, WI Idea STEM Fellow

Predicting the future is tricky. We know some things that help us make educated guesses, and usually we would like to know much more; but nothing helps, if we try to predict a true random process. Most events in real life are determined by a mix of what we know, what we don't know and what we can't know, as in "The Dice Game": How far will you get on the number line after rolling a dice once or 10 times? How does our prediction change, if the dice has six sides or twenty sides? What if we tried to predict something even harder and used a computer to help us? In the "Foxes and Rabbits Guessing Game", we try to predict what happens to a group of foxes and rabbits over time. Come see if you can predict what will happen by using a computer simulation program designed by biologists for biologists!



OPERATION AIRWAYS

WSPS

Operation Airways is dedicated to educating the public about recognizing, treating and controlling asthma and COPD. We also promote smoking prevention and cessation through motivational and informational services, such as middle school presentations on the effects of smoking and the benefits of staying tobacco free. Come to our booth for some fun, games, and a little education about asthma.

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OPERATION DIABETES

UW-Madison School of Pharmacy

Operation Diabetes is a part of the Wisconsin Society of Pharmacy Students (WSPS), a student-run organization dedicated to promoting health awareness in our community. Operation Diabetes partners student pharmacists with pharmacies and community organizations to provide diabetes health information and learning events for the community. We have free informational resources available for all ages and an interactive game for children to play.



OPERATION HEART, WISCONSIN SOCIETY OF PHARMACY STUDENTS

UW-Madison School of Pharmacy

Operation Heart (OH) is a community outreach program within the Wisconsin Society of Pharmacy Students (WSPS). Operation Heart provides blood pressure and cardiovascular risk assessment screenings for participants over the age of 18 and provides education on a person's individual risk for heart diseases, and ways to reduce that risk. For participants under the age of 18, OH will have activities related to heart health such as guessing the amount of salt in different foods.



OPERATION SELF-CARE SAFE LABEL READING AND PEDIATRIC DOSING

Wisconsin Society of Pharmacy Students

Operation Self-Care's newest project, "Safe Label Reading and Pediatric Dosing," is an Exploration Station focused on over-the-counter (OTC) medication self-care strategies. We will be providing information on how to read and interpret an OTC medication label, how to properly dose based on an OTC medication label, and other considerations of safe label reading and dosing.



REPTILES & AMPHIBIANS!

Madison Area Herpetological Society

The Madison Area Herpetological society educates enthusiasts and the general public about frequently misunderstood reptiles and amphibians. It is a great source for people to exchange knowledge, from amateur hobbyist to experts. It also gives a community a basis for expertise on issues dealing with local laws, ordinances, and conservation.



SPICE

Institute for Chemical Education

SPICE, Students Participating In Chemical Education, is an organization at the University of Wisconsin-Madison of trained undergraduate students who perform chemistry demonstration programs with the aim of interesting students in chemistry and science.

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STAYIN' ALIVE!

Department of Anesthesiology

Come take a look at the world of Anesthesiology! We will get you ready for the operating room and see how a patient goes to sleep for surgery, learn cool anatomy, and take a hands-on turn trying out some of the neat devices and equipment!!



STICKS AND STONES MAY BREAK YOUR BONES BUT NEEDLE STICKS DON'T HAVE TO HURT!!

Pediatric Pain (Department of Pediatrics)

We will be explaining how different non-drug techniques work to control pain in children (and adults) when they experience needle sticks. We will have lots of displays and tools for them to try.



TOILETS TO TOMATOES: BIOSOLIDS REUSE

Civil/Environmental Eng. & WSLH & WI Idea STEM Fellows Program

Explanation of biosolids. What are they? Where do they come from? What do we use them for? Includes a hands-on water purification activity.



VIRTUAL COLONOSCOPY: SCREENING THE COLON BY IMAGING

UW Health Radiology

Major advances in CAT scan imaging and computer processing have allowed the ability to create precise virtual models of a person's colon. This has allowed radiology physicians to detect polyps and masses without the risks of injury present with traditional colonoscopy. This exhibit showcases the 3D computer workstation used clinically at UW to screen for colon cancer. Try your skills at detecting polyps and maneuvering through the colon at this fully interactive station! Learn about this devastating but preventable cancer and the benefits of screening!



VOICE & SWALLOW LABORATORY

UW Department of Surgery, Voice & Swallow Clinics

An interactive exhibit with video, audio, games and activities teaching about the larynx. Participants will watch videos of the human body during voice and swallowing, and participate in hands-on activities to learn about the structure and function of the larynx during swallowing and voicing.



WHAT IS CANCER?

Biology Outreach Club, WI Idea STEM Fellow

Using Legos, we model cancer disease to understand how it works.

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WISCONSIN STATE LABORATORY OF HYGIENE ENVIRONMENTAL/ OCCUPATIONAL HEALTH SMORGASBORD

WI State Laboratory of Hygiene

Explore the worlds of environmental and occupational health with the Wisconsin State Laboratory of Hygiene! Analyze samples like a scientist with a microscope and learn about laboratory instruments, investigate the amount of radioactivity contained in bananas, and learn about the impact aquifers have on water quality!



YOU, THE DOCTOR.

Medical Science Training Program

Come learn basic medical skills with our group of student physician scientist trainees! Learn how to do a heart and lung exam, test your cranial nerves, make those reflexes fly, and many other physical exam skills.



YOUR ELECTRICALLY EXCITABLE HEART

Physiology

The electrocardiogram (ECG) is a tool for evaluating the electrical events within the heart. During a heartbeat, currents are conducted through the body fluids around the heart and can be detected by recording electrodes at the surface of the skin. The shapes and timing of the waves on an ECG recording show how well the heart is working electrically in order to produce a normal heartbeat. Much like a fingerprint is different for every individual, an ECG recording will look a little different in every person because no two hearts are exactly the same in terms of cell number, size, shape, and position within the body. Come to our Exploration Station to get a personalized ECG recording of the electrical events occurring in your heart, and learn what some of the shapes and waves mean from one of our future cardiologists.

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BRAIN GAMES: HOW YOUR MIND MAKES YOU FEEL

School of Nursing

Learn how your mind can control the way you feel when you're sick. Experience symptom sensations and practice stress-relieving techniques.



HEALTH BY CHOICE!

School of Nursing

Do you know that nurse-scientists study questions such as, "How can nurses be good coaches for healthy eating and activity?" Join our pretend study; tell us how nurses can help you make healthy choices. Practice making choices about foods and activities; make your own plan for being more healthy.



I LIKE TO MOVE IT, MOVE IT

School of Nursing

Exercise can improve your health and muscle strength no matter how young or old you are. At this station, participate in nine one-minute exercises that are easy to do at home or anywhere.



LET'S BREATHE!

School of Nursing

Experience first hand how breathing feels for someone with asthma. Children will use real stethoscopes on manikins and hear the difference between breathing with and without asthma.



SEEING THROUGH YOUR EYES

School of Nursing

What happens to our eyesight and hearing as we age? Experience what happens to eyesight and hearing as people get older by taking an "unfair" hearing test, trying out some vision goggles and spotting different colors through the eyes of someone with vision loss.



YOU GOTTA MOVE TO GROOVE

School of Nursing

Laying around will make your muscles weak. This is really true for any adult who is older and has been in the hospital! At this station you will experience how hard you legs have to work after laying in bed for long periods of time.

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