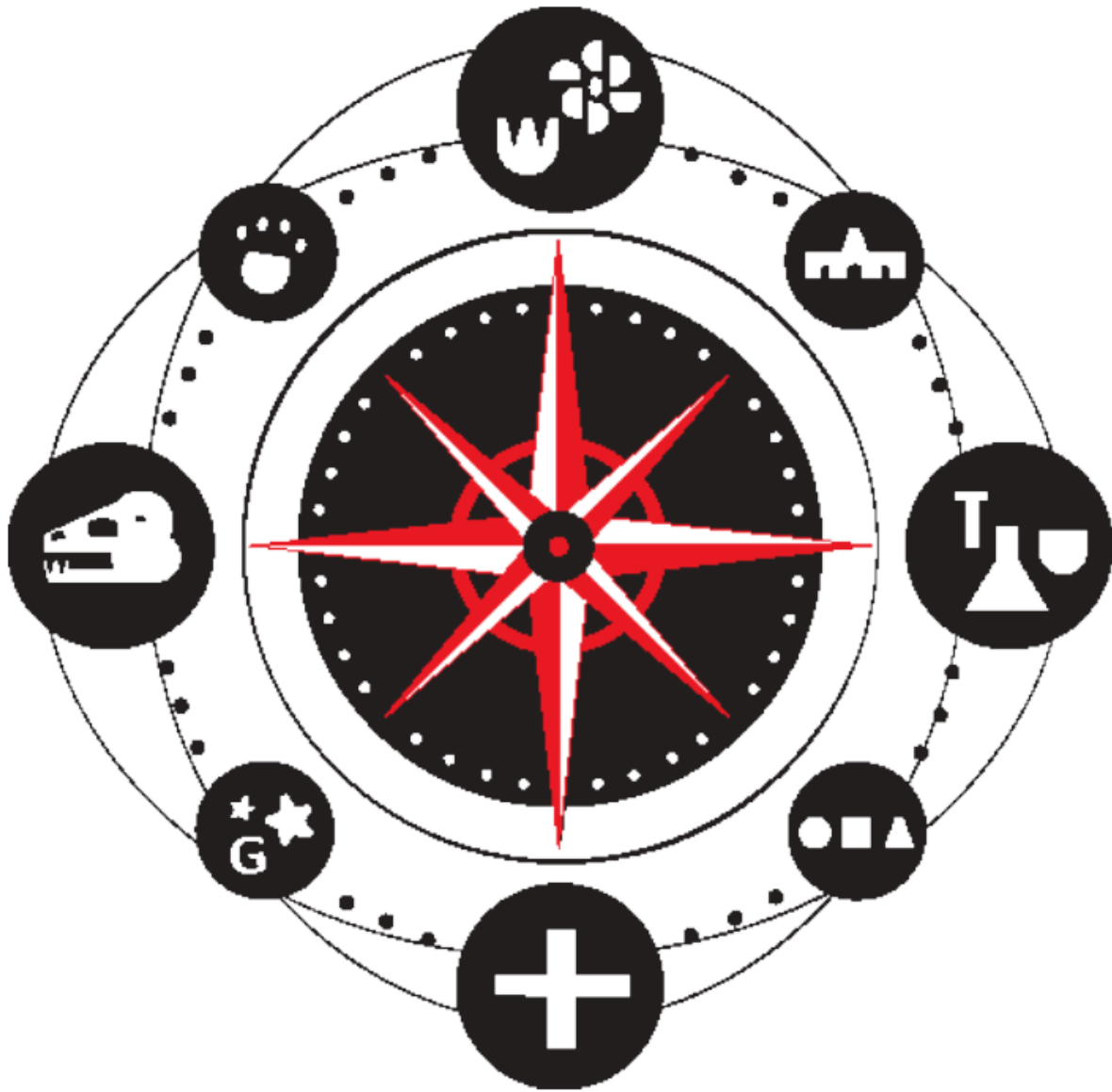


April 5, 6, 7



Science Expeditions

Exhibit Guide

Version 2 - Updated April 3, 2024

22nd Annual UW-Madison Science Expeditions Campus Open House 2024 | science.wisc.edu

Friday, April 5th



LAKESHORE SCIENCE LAB | HASLER LAB 680 N PARK ST | 10:00 AM - 4:00 PM

Center for Limnology

Stop by the Lakeshore Learning Lab to explore why we love our lakes so much and become a limnologist for the day!



ECLIPSES AND THE SEARCH FOR OTHER WORLDS | BIOTECH CENTER 465 N HENRY MALL | 4:00 AM - 5:00 PM

Astronomy

Come learn how eclipses come and go, and find out when the next one is coming (It's sooner than you think!)



LAB TOUR OF A MULTIDISCIPLINARY RESEARCH LAB STUDYING HUMAN CHROMOSOME BIOLOGY | DE LUCA BIOCHEMISTRY LAB | 12:30 PM - 1:30 PM

Biochemistry/CALS

Take a peek into a biochemistry research lab that combines physics, chemistry, and biology understanding to study mysteries at the edges of our chromosomes!



CHAZEN MUSEUM OF ART | 750 UNIVERSITY AV | 10:00 AM - 7:00 PM

Chazen Museum of Art

See art from around the world and from celebrated artists here at UW Madison!



CELEBRATING GEOGRAPHY & MAP-MAKING IN HISTORIC SCIENCE HALL | 310 SCIENCE HALL 550 N PARK ST | 4:00 PM - 6:00 PM

Geography

Visit Science Hall (c. 1888) to meet staff and students from Geography, the State Cartographer's Office, and the WI Geological and Natural History Survey. The History of Cartography Project will display antique maps while the Cartography Lab showcases innovative map design. Wander our beautiful Robinson Map Library to find a map or air photo of a favorite site in WI or beyond! Explore the Geomorphology and Paleovegetation Labs. Check out student projects and join in map games.



BABCOCK DAIRY OBSERVATION DECK TOURS | 1605 LINDEN DRIVE | OPEN 7:30 AM - 5:30 PM, TOURS AT 9:00, 10:00, 2:00 AND 3:00

Babcock Dairy

Tour Babcock Dairy's observation deck to learn about the making behind 175 S'more Years ice cream and Cranniverscherry cheese!



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Friday, April 5th



COLLEGE OF ENGINEERING MAKERSPACE DEMOS AND ACTIVITIES | MAKERSPACE, WENDT COMMONS (215 N. RANDALL AVE.) | 11:00 AM - 3:00 PM

College of Engineering Makerspace

Join the Makerspace in the afternoon of Friday, April 5th for an insider's peek of campus's hub for rapid prototyping. Largely student run, the Makerspace, part of the Grainger Engineering Design + Innovation Labs, strives to empower students by creating a community immersed in emerging technologies, focused on creating innovative products.



FLUID MECHANICS IN ENVIRONMENTAL PROCESSES | WATER SCIENCE AND ENGINEERING LAB 660 N PARK ST | 12:00 PM - 4:00 PM

Civil and Environmental Engineering

Come check out a large wave tank and turbulent flow tank that helps us research important questions in environmental and climate science and engineering



OPEN HOUSE AT WASHBURN OBSERVATORY | WASHBURN OBSERVATORY, 1401 OBSERVATORY DR. | 12:00 PM - 4:00 PM

Astronomy Dept.

The historic Washburn telescope and dome will be open to visitors along with new displays and exhibits illustrating the important contributions of UW astronomers.



BADGER MEET-UP WAA OPEN HOUSE | ONE ALUMNI PLACE (650 N LAKE ST) AND ALUMNI PARK (724 LANGDON ST) | 1:00 PM - 4:00 PM

Wisconsin Alumni Association

Connect with fellow Badgers at the April 5 Badger Meet-Up from 1-4pm — a free, drop-in event with activities for the whole family to enjoy, including: A scavenger hunt with prizes, UW-themed trivia, a souvenir photo from several fun photo opportunities with spirited props, light refreshments while supplies last, an exclusive giveaway for all WAA members



UW MIA RECOVERY AND IDENTIFICATION PROJECT OPEN HOUSE | 425 N HENRY MALL GENETICS BUILDING SUITE 3130 | 1:00 PM - 4:00 PM

UW Missing-In-Action Recovery and Identification Project

Join us in our suite to learn more about past cases! Interested visitors will have the opportunity to solve their own case using similar resources as the student research team!



FALLING WALLS WISCONSIN | 2241 CHARMERLIN HALL | 6:00 PM - 8:00 PM

Physics

Named in honor of the fall of the Berlin Wall, Falling Walls Lab is an international competition where young innovators showcase their breakthroughs that have a positive impact on science and society. Presenters have three minutes to convince the judges of their research's merit. The winner earns a trip to the global finals in Berlin in November.



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AOSS OPEN HOUSE | ATMOSPHERIC, OCEANIC, AND SPACE SCIENCES BUILDING 1225 W DAYTON ST | 9:00 AM - 1:00 PM

Atmospheric, Oceanic, and Space Sciences building

Come explore the birthplace of satellite meteorology at the Atmospheric, Oceanic, and Space Sciences (AOSS) building on Saturday April 6, from 10am-2pm. The AOSS building is home to two research institutions: the Space Science and Engineering Center and the Cooperative Institute for Meteorological and Satellite Studies; and share the space with the UW Department of Atmospheric and Oceanic Sciences. Take part in hands-on demos, view the Earth from outer space, learn about Antarctic meteorology, and visit our rooftop which includes some of the best views of Madison (weather permitting).



REPTILES AND AMPHIBIANS! | DISCOVERY | 10:00 AM - 1:00 PM

Wisconsin Herpetological Association

Have you always wanted to learn more about reptiles and amphibians? Come visit with several members of the Wisconsin Herpetological Association (Madison Area Herpetological Society) to see and learn more about several of our scaly friends up close!



WISCONSIN ENERGY INSTITUTE OPEN HOUSE | WEI (1552 UNIVERSITY AV) | 10:00 AM - 1:00 PM

Wisconsin Energy Institute

Engage with Wisconsin Energy Institute scientists while exploring fun, interactive demonstrations and learning about the work being done to further our transition to clean energy systems.

Design and test your own wind turbine blades, conduct an experiment to find out how to make biofuels, explore amazing underground ecosystems, tour a state-of-the-art laboratory, and much more during this open-house event.



ORGAN DEMONSTRATION | DISCOVERY | 10:00 AM - 1:00 PM

SMPH DOC

Understanding Cattle Methane Emissions.



MARMOSETS IN OUR MIDST | WISCONSIN NATIONAL PRIMATE RESEARCH CENTER LOBBY, 1220 CAPITOL CT | 12:00 PM - 4:00 PM

Wisconsin National Primate Research 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.



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COWS, BURPS, AND MICROBES: A JOURNEY INTO SUSTAINABLE LIVESTOCK | WEI | 10:00 AM - 1:00 PM

Animal and Dairy Sciences

Learn about the human body in a fun, interactive way!



HOW OUR SENSES HELP US MOVE | DISCOVERY | 10:00 AM - 1:00 PM

Communication Sciences and Disorders

At our Exploration Station, you will see how the brain uses your senses to learn to move: vision to move your arms (to play cornhole), and hearing to move your mouth and tongue (to speak)! See how quickly you can learn to play cornhole while wearing prism glasses. The prisms introduce a visual error that your brain can learn to correct for -- but what happens when you take off the glasses? In another activity, you can try to recreate vowel sounds by playing sound through tubes with different shapes. You'll have to listen while you adjust the shape of the tube to learn how to get the sound you want.



WHEN HEARTS ALLIGN | DISCOVERY | 10:00 AM - 1:00 PM

Kohler Fellowship

"When Hearts Align" is an interactive installation that will give people an embodied experience of connection. As participants mirror each other's movements, their physiology may begin to align and they will be able to see and hear their heartbeats fall into synchrony.



HOW DO WE KEEP OUR OCEANS CLEAN? | DISCOVERY | 10:00 AM - 1:00 PM

Student Organization

Learn about the process of cleaning up oil spills from our waters using a small tub of water, olive, oil, and various tools to clean the water and plastic animal figures of oil.



ROBOTS ON MARS | DISCOVERY | 10:00 AM - 1:00 PM

Wisconsin Robotics

Come see our mars robots! We have a mock mars rover and drone that compete in mission simulation challenges every year in the University Rover Challenge. Interact with our kid-friendly battle-bots and other hands-on activities!



UW MIA RECOVERY AND IDENTIFICATION PROJECT OPEN HOUSE | 425 N HENRY MALL GENETICS BUILDING SUITE 3130 | 11:00 AM - 4:00 PM

UW Missing-In-Action Recovery and Identification Project

Join us in our suite to learn more about past cases! Interested visitors will have the opportunity to solve their own case using similar resources as the student research team!



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WHERE IN THE WORLD DID THIS PLANT COME FROM? | DISCOVERY | 10:00 AM - 1:00 PM

USDA-ARS; UW Department of Horticulture

Can you imagine a time when an ear of corn could only feed a field mouse, or when Italians had never heard of tomato sauce? Can you picture Szechwan without hot peppers, Belgium without chocolate, Germany without beer, or Georgia without peaches? It wasn't long ago that the culinary world was very different from what it is today. Most of the fruits and vegetables that we enjoy were unknown or didn't exist! For centuries people around the world have used genetics to develop crops 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.



PHYSICS FAIR | 2ND FLOOR CHAMBERLIN HALL | 11:00 AM - 2:00 PM

Physics

It's not magic, it's physics! Learn about the inner workings of the entire universe, from microscopic subatomic particles to the whole cosmos, at the Physics Fair!



SCIENTIFIC GLASSBLOWING FOR RESEARCH AT THE UNIVERSITY OF WISCONSIN - MADISON | DISCOVERY | 10:00 AM - 1:00 PM

Chemistry Department

Cutting edge research at UW-Madison might require a piece of specialized instrumentation that cannot be purchased from a catalog. Using the flame from a torch and specialized tools, the scientific glassblowing shop in the chemistry department is equipped to build custom glassware used for research.



CAESAR CIPHER | DISCOVERY | 10:00 AM - 1:00 PM

Code to Connect (Student Organization)

Students will be given their own Caesar Cipher wheel where they will learn how to encode and decode secret messages. They will be given lines of seemingly random letters to decode and will receive candy if they can figure it out. This will teach students about how computers can keep passwords and important information of a user safe so that their information doesn't get leaked.



DC SMITH GREENHOUSE | 465 BABCOCK DR | 10:00 AM - 2:00 PM

DC Smith Greenhouse

Explore plants and check out exploration stations in the greenhouse.



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UW-MADISON VIRTUAL BRAIN ACTIVITY | DISCOVERY | 10:00 AM - 1:00 PM

Psychology Department; Wisconsin Institute for Discovery

Come visit the Schloss Lab to learn about the brain using virtual reality (VR)! The UW-Madison Virtual Brain Project is sparking curiosity about the human brain using an immersive learning environment, and improve student's understanding of how the brain works.



EXTREME SOUTH POLE SCIENCE | CHAMBERLIN HALL | 11:00 AM - 2:00 PM

Wisconsin IceCube Particle Astrophysics Center

Come experience the world of the neutrino, often called the weirdest particle in nature. Learn about the unique properties of the so-called ghost particle, which can pass through the Earth undeflected and exist in three identities at the same time. Learn how the IceCube Neutrino Observatory detects these particles and what it's like to work and live in the extreme environment at the South Pole in Antarctica.



SURFACE CIRCUS | DISCOVER | 10:00 AM - 1:00 PM

Dept of Chemistry

Using soap and water to explore the chemical properties of the world around us. Hands on activities, including a human sized bubble chamber, to learn about the amazing properties of water.



WISCONSIN SCIENCE FESTIVAL | DISCOVERY | 10:00 AM - 1:00 PM

Wisconsin Science Festival

Stop by and learn more about the Wisconsin Science Festival with hands-on activities, giveaways, and more!



MUSIC IS PHYSICS | DISCOVERY | 10:00 AM - 1:00 PM

Biocore Outreach Ambassadors

Much like the organs and cells in our body, or the tools we use in everyday life, the way something is shaped (or the structure of that thing) affects the way it works and the way we can use it. Some things can be used for help in transportation (think wheels on a car), some can be used to pick up food (forks!), and some can be used to do fun things (such as musical instruments). Can you think of some other tools or parts of your body (or an animal's body) whose shape helps them fulfill a specific function? One of the volunteers will play a violin to demonstrate the relationship between sound/frequency and wire thickness and length, which will further be exemplified using yarn.



CHAZEN MUSEUM OF ART | 750 UNIVERSITY AV | 11:00 AM - 2:00 PM

Chazen Museum of Art

See art from around the world and from celebrated artists here at UW Madison!



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WHAT CAN WE FIND IN THE SOIL | DISCOVERY | 10:00 AM - 1:00 PM

Soil Science

We will have many activities including a VR headset exploring a soil microcosm, “make a microbe” craft station, and a soil hydrophobicity demonstration. All of these will highlight the soil and be highly interactive.



LEARN ABOUT THE TOTAL SOLAR ECLIPSE WITH THE ASTRONOMY CLUB AT UW-MADISON | CHAMBERLIN HALL (PHYSICS FAIR) | 11:00 AM - 2:00 PM

Astronomy Club at UW-Madison

Join us for a stellar time learning to safely view the sun how eclipse work!



BE A ZOO VET! | DISCOVERY | 11:00 AM - 2:00 PM

Henry Vilas Zoo

Henry Vilas Zoo will be bringing some stuffed animals with “beating hearts” for participants to step into the shoes of a zoo veterinarian and highlight everything that goes into taking amazing care of animals. We will also be bringing biofacts, including furs, skulls, and conservation equipment, along with z-rays of some of our animals to chat more about the amazing care that HVZ provides to animals.



E-CYCLE YOUR OLD ELECTRONICS! | WEI | 11:00 AM - 2:00 PM

Wisconsin DNR

E-Cycle Wisconsin can help you recycle your old electronics. Learn why e-cycling is important and access local collection options.



DIVING INTO WISCONSIN SHIPWRECKS | DISCOVERY | 10:00 AM - 1:00 PM

Wisconsin Historical Society

Calling all underwater explorers! Join Jordan, a Historical Society maritime archaeologist to learn all about shipwrecks and scuba diving in Wisconsin waters. Different activities will teach about some of the shipwrecks in Lake Michigan and Lake Geneva, the stories behind how they sank, and the way they are studied today. Puzzles, games, matching activities and more are part of this program! Materials for the Maritime Archaeology program been made possible by funding from the Wisconsin Sea Grant Institute <https://www.seagrant.wisc.edu/>



DANE COUNTY TRASH LAB | EAST WALL OF THE GENETICS/BIOTECH CENTER | 10:00 AM - 1:00 PM

Dane County Department of Waste & Renewables

The Trash Lab is a mobile exhibit designed to educate and motivate us to create less trash and rethink our relationship with waste. The exhibit explores the social justice, economic, and environmental effects of waste, connecting our local experiences to both local and global outcomes.



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BACTERIAS WORST ENEMY: BACTERIOPHAGES! | DISCOVERY |

10:00 AM - 1:00 PM

Integrated Program in Biochemistry

Bacteriophages are the worst enemies of bacteria, come and find out why!



MATERIALS THAT SHAPE OUR WORLD! | DISCOVERY | 10:00 AM - 1:00 PM

MRSEC - Materials Research Science and Engineering Center

Materials Scientists and Engineers create new things to solve problems and make the world a better place. Come and engage in hands-on experiences with amazing materials that have changed your world. You'll explore materials and their properties such as; LEDs, metal with a memory, magnetism, metallic glasses and amorphous metals, viscosity and more! You will talk to scientists here at the Wisconsin MRSEC who are creating better devices from computer chips to super strong glass and very very fast lasers!



COW EYE DISSECTION | DISCOVERY | 10:00 AM - 1:00 PM

Neuroscience Training Program and McPherson Eye Research Institute

Why we have a blind spot in each eye: lessons from a cow eye



INTERACTIVE HUMAN BRAIN DISPLAY AND BRAIN GAMES | DISCOVERY |

10:00 AM - 1:00 PM

Neuroscience Training Program Outreach Committee

Come hold a REAL human brain and learn about all the amazing things it does with the Neuroscience Training Program Outreach Committee!



THE WONDERS OF PHYSICS SHOW | CHAMBERLIN HALL ROOM 2103 |

11:30 AM - 12:15 PM

Physics

We put the "phun" in physics! The Wonders of Physics show is filled with amazing demonstrations that help explain the world around us.



THE WORLD OF PLANTS | DISCOVERY | 10:00 AM - 1:00 PM

Plant Cellular and Molecular Biology supergroup

The multiple exploration stations will introduce the various plant research conducted at the University of Wisconsin Madison which interrogates how do plants grow, how do plants interact with their surrounding and how to grow plants in space and beyond. Activities will include extracting plant pigments, looking at plant structures by the eye and under the microscope, and looking at plants grown in different environments.



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ADVENTURES IN AQUAPONICS: CLOSED LOOP FARMING | WEI |

10:00 AM - 1:00 PM

Hicks Lab (Department of Civil and Environmental Engineering)

Participants will learn about aquaponic food production as a type of closed loop food production. Participants will get to learn about aquaponic facts and will “fish” for plastic fish in a toy pool. We will also have cool dioramas.



BUILD A DNA BRACELET | DISCOVERY | 10:00 AM - 1:00 PM

Retired from Biotech Center

Build a DNA Bracelet and explore how a string of the four letters in the DNA alphabet can carry information, and how changing the order of the letters might change the meaning of information.



DIFFERENT WAYS OF SEEING | DISCOVERY | 10:00 AM - 1:00 PM

McPherson Eye Research Institute

Learn about common eye diseases. Explorers can try different daily tasks while wearing low vision simulators.



ARTIFICIAL INTELLIGENCE FOR ANIMAL FARMING | DISCOVERY |

10:00 AM - 1:00 PM

Animal and Dairy Sciences

Demonstrate AI technology for animal monitoring. Participants will interact with computer vision systems that can track animal behavior.



ELECTRIC MOTORS, GENERATORS AND ALTERNATIVE ENERGY SYSTEMS | DISCOVERY | 10:00 AM - 1:00 PM

Wisconsin Science Museum

Visitors can examine the insides of various types of motors and generators. They can turn the shafts of generator to generate electricity. They can learn about the role of electronic circuits in energy generation. They can learn about solar electric power generation.



BABCOCK DAIRY OBSERVATION DECK TOURS | 1605 LINDEN DRIVE |

OPEN 11:00 AM - 4:00 PM, TOURS AT 2:00 AND 3:00

Babcock Dairy

Tour Babcock Dairy's observation deck to learn about the making behind 175 S'more Years ice cream and Cranniverscherry cheese!



WI SCIENCE MUSEUM | 2300 S PARK ST ATRIUM LOWER LEVEL SOUTH HALLWAY | 10:00 AM - 4:00 PM

Steenbock Library

Explore Madison's own Steenbock library!



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STEENBOCK LIBRARY | 550 BABCOCK DR | 12:00 AM - 8:30 PM

Steenbock Library

Explore Madison's own Steenbock library!



**THE JOY OF SCIENCE AND THE ARTS: CELEBRATING 175 YEARS
OF UW-MADISON WITH BASSAM SHAKHASHIRI AND FRIENDS |
DELUCA FORUM | 12:30 PM - 1:15 PM**

Morgridge Institute for Research

Join Bassam Shakhshiri and friends for a live science show featuring color-changing reactions and guest star appearances! Science fun for the whole family!



**TOUR OF BOTANY GARDEN AND GREENHOUSE |
BIRGE HALL 430 LINCOLN DR | 11:00 AM - 2:00 PM**

Botany

Come and visit the Botany Garden and Greenhouse to explore plants from all over the world!



**GEOLOGY MUSEUM OPEN HOUSE | UW GEOLOGY MUSEUM - WEEKS HALL -
1215 W. DAYTON STREET | 9:00 AM - 4:00 PM**

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!



UNITE AGAINST CANCER: STRENGTH IN UNITY | HSLC | 12:00 AM - 4:00 PM

Department of Human Oncology

Paper or cloth will be provided for the community to write well wishes to cancer patients in the Carbone center. They can dedicate their section to wish their own family members well or for those who don't know anyone, they can write their names and inspirational messages to those battling cancer.



**CENTER FOR DESIGN AND MATERIAL CULTURE: REMAKING THE
RENAISSANCE | MECKLENBURG TEXTILE GALLERY: 1235 NANCY NICHOLAS
HALL 1300 LINDEN DR | 12:00 PM - 4:00 PM**

CDMC



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OPEN HOUSE AT WASHBURN OBSERVATORY | WASHBURN OBSERVATORY, 1401 OBSERVATORY DR. | 12:00 PM - 4:00 PM *Astronomy Dept.*

The historic Washburn telescope and dome will be open to visitors along with new displays and exhibits illustrating the important contributions of UW astronomers.



MAKING JELLY WORMS TO LEARN ABOUT JELLY WORMS | DISCOVERY | **10:00 AM - 1:00 PM** *Astronomy Dept.*

The historic Washburn telescope and dome will be open to visitors along with new displays and exhibits illustrating the important contributions of UW astronomers.



SCIENCE WITH 8 LEGS | DISCOVERY | 10:00 AM - 1:00 PM *Entomology*

Exploration station is focus on ticks and tick-borne diseases. Explorers will learn all about ticks and how to prevent tick bites. Station will include mannequins for explorers to find ticks on clothing along with other exciting hands-on activities and games.



CAN YOU BELIEVE YOUR EYES? | DISCOVERY | 10:00 AM - 1:00 PM *McPherson Eye Research Institute*

This exploration station employs virtual and physical demonstrations of optical, physiological and cognitive illusions to help visitors learn about visual perception and the brain.



HOW WE PERCEIVE COLOR | DISCOVERY | 10:00 AM - 1:00 PM *McPherson Eye Research Institute*

This Exploration Station demonstrates how people see and perceive colors differently. Color blindness is explored through activities and simulations. Our perception of color also depends on its surroundings and context. Visual illusions and examples of everyday objects show how different colors can look alike or identical colors can look different.



SEEING NEAR AND FAR | DISCOVERY | 10:00 AM - 1:00 PM *McPherson Eye Research Institute*

When we look at a scene, we can easily see which objects are closer and which are farther away. This station examines some of the visual cues that our eyes and brain use to determine how objects are arranged in space.



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LISTEN UP! LEARN ABOUT YOUR HEARING AND HOW TO PROTECT IT | DISCOVERY | 10:00 AM - 1:00 PM

UW Speech and Hearing Clinic

Discover the captivating journey of sound at our exploration station. From the intricate workings of the human ear to the brain's processing, find out how we perceive sound and protect our hearing. Engage in hands-on activities, including crafting a cochlear hair cell model from delicious ingredients. Join us for a fun and educational experience in the science of sound and the importance of lifelong auditory health.



INGERSOLL PHYSICS MUSEUM | 2130 CHAMBERLIN HALL | 10:00 AM - 3:00 PM

Physics Department

Discover the captivating journey of sound at our exploration station. From the intricate workings of the human ear to the brain's processing, find out how we perceive sound and protect our hearing. Engage in hands-on activities, including crafting a cochlear hair cell model from delicious ingredients. Join us for a fun and educational experience in the science of sound and the importance of lifelong auditory health.



FLOAT YOUR BOAT CHALLENGE | DISCOVERY | 10:00 AM - 1:00 PM

BME Undergraduate

"Set Sail for Science! Design, build, and test your own boats in this buoyant adventure. Who can create the ultimate floating masterpiece?"



TOXICOLOGY... IT'S NOT JUST POISONS! | DISCOVERY | 10:00 AM - 1:00 PM

Molecular and Environmental Toxicology Program

Come learn about how toxicology applies to life... from plants to you! From the good to the bad to the okay-in-small-doses.



AGRIVOLTAICS: EXPLORING SOLAR AND AGRICULTURE TOGETHER | WEI | 10:00 AM - 1:00 PM

Badgervoltaics Community of Practice, Discovery Hub Central and Office of Sustainability

Learn about how plants and solar energy can work together!



LEARNING THE BEAT OF THE (EAR) DRUM AND (VOCAL) CORDS | DISCOVERY | 10:00 AM - 1:00 PM

National Student Speech Language Hearing Association (NSSLHA)

Speaking is ear-resistibly exciting!



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QUANTUM WEIRDNESS, LIGHT, AND CHEMISTRY | DISCOVERY |

10:00 AM - 1:00 PM

Chemistry

The interaction of light with matter is an essential element of life on earth, but when we zoom in and examine these interactions in very small confined spaces, new quantum effects offer the potential to bend or break the rules of chemistry!



CRANBERRIES: MADE IN WISCONSIN | DISCOVERY | 10:00 AM - 1:00 PM

USDA-ARS Cranberry Genetics & Genomics Lab

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 DNA? At our station you can extract the DNA from cranberries and even take it home with you!



AN EXPLORATION TO THE REPETITIVE ENDS OF THE HUMAN CHROMOSOMES: SEEING & FEELING IS BELIEVING. | BIOCHEMISTRY BUILDING ROOM 319 | 12:30 PM - 1:30 PM

Biochemistry

An Exploration to the Repetitive Ends of the Human Chromosomes: Seeing & Feeling is Believing.



DIGESTING DAIRY: BREAKING DOWN DAIRY WITH ENZYMES | DISCOVERY |

10:00 AM - 1:00 PM

Department of Biochemistry, Weeks Lab

Who cut the cheese? Find out with members of the Weeks Lab at UW-Madison! During this hands-on activity science explorers will get to use the enzyme subtilisin to break down casein, one of the main proteins in milk. Explorers will get to learn about the biochemical properties of proteins and watch them transform in a test tube!



HOMININ FAMILY TREE | DISCOVERY | 10:00 AM - 1:00 PM

Anthropology

Meet our ancient ancestors on a tour through the hominin family tree



WHAT IS COMPARATIVE PSYCHOLOGY? | DISCOVERY | 10:00 AM - 1:00 PM

Developmental Psychobiology Lab

How do monkeys and other animals learn, remember, and solve problems? At this station we have engaging hands-on activities to promote learning about comparative psychology. Visitors can play videogames, solve puzzles, and learn more about the behavior, cognition, and brains of humans and other animals.



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DNA EGGS-TRACTION | DISCOVERY | 10:00 AM - 1:00 PM

Undergraduate Genetics Association (UGA)

We will be conducting an exploration station that demonstrates how genes are passed down through generations. We will show this through having pipecleaner "genes" inside easter egg "individuals." We will have multiple generations of individuals and have the kids guess what color genes they think will be inside the egg based on the parent eggs. We will then explain why this is the case and show how heredity works.



MICROBE HUNTERS: EXPLORING SOIL FOR ANTIBIOTIC DISCOVERY WITH TINY EARTH | DISCOVERY | 10:00 AM - 1:00 PM

Wisconsin Institute for Discovery

Explore the science behind soil and bacteria with Tiny Earth! Tiny Earth is a network of instructors and college students who work together to discover antibiotics from soil bacteria in their own backyards. While inspiring students to engage in scientific research, we also address the diminishing supply of effective antibiotics and the rapid decline in soil health. Visitors will learn about soil textures, soil bacteria, and more through engaging, hands-on activities with soil collected in Madison and a microscope!



ALLEN CENTENIAL GARDENS | 620 BABCOCK DR | DAWN TO DUSK

Allen Centennial Gardens

Come see the beautiful Allen Centennial Gardens! Amazing plants native and foreign to the Madison area.



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Sunday, April 7th



HOW DO BACTERIA COMMUNICATE? | ARBORETUM VISITOR CENTER |

1:30 PM - 3:30 PM

Chemistry GSFLC

Learn how bacteria communicate and collaborate in nature, and see if you can crack the code!



NAME THAT CRANE ADAPTATION! | ARBORETUM VISITOR CENTER |

1:30 PM - 3:30 PM

International Crane Foundation

Join the International Crane Foundation to explore the many adaptations your backyard cranes have for living in Wisconsin's wetlands, and how the International Crane Foundation protects those cranes. This station will provide crane artifacts and conservation tools for fellow science-enthusiasts of all ages to touch, feel, and explore!



MEDICAL PLAY CLINIC | HSLC | 12:00 PM - 4:00 PM

AFCH- Child Life/ Edgewood College CHild Life

YOU be the Doctor! Kids have the opportunity to engage in therapeutic medical play that focused on medical education and normalization...not to mention its fun too!



ORGAN DEMONSTRATION | HSLC | 12:00 PM - 4:00 PM

SMPH DOC

Learn about the human body in a fun, interactive way!



HPV - VACCINES AND PREVENTION | HSLC | 12:00 PM - 4:00 PM

Pediatrics

Stop by our table to learn about cancer prevention and the HPV vaccine. We'll also have a fun game and prizes for kids.



ALCOHOL AND CANCER - MOCKTAILS | HSLC | 12:00 PM - 4:00 PM

Carbone Cancer Center

Alcohol and Cancer - Mocktails



HEART-HEALTHY EDUCATION AND ACTIVITIES | PHARMACY BUILDING |

12:00 PM - 4:00 PM

School of Pharmacy - Wisconsin Society of Pharmacy Students Operation Heart

Heart-healthy snacks and interactive activity to teach about heart rate



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CAESAR CIPHER | HSLC, AND PHARMACY BUILDING | 12:00 PM - 4:00 PM

Code to Connect (Student Organization)

Students will be given their own Caesar Cipher wheel where they will learn how to encode and decode secret messages. They will be given lines of seemingly random letters to decode and will receive candy if they can figure it out. This will teach students about how computers can keep passwords and important information of a user safe so that their information doesn't get leaked.



LUNG CANCER SCREENING AWARENESS AND MINI INFLATABLE LUNG EXPLORATION | HSLC | 12:00 PM - 4:00 PM

Genentech

Mini inflatable lung/ Questionnaire on smoking and NCCN guidelines for lung cancer screening



ARBORETUM NATURE HIKE | ARBORETUM VISITOR CENTER 1207 SEMINOLE HIGHWAY | 1:30 PM - 2:30 PM

UW Arboretum

Learn about the land, plants, animals, fungi, phenology, and ecology. Geared for adults, these longer walks may cover some sloping terrain. Wear sturdy closed-toe shoes and come prepared for weather. Walks canceled for unsafe weather or trail conditions. Free, no registration required. Meet at the Arboretum Visitor Center.



ARBORETUM FAMILY NATURE WALK | ARBORETUM VISITOR CENTER | 1:30 PM - 2:30 PM

UW Arboretum

This walk is a fun, fascinating way for families with children elementary age and younger to explore the natural world. Adults must attend. Wear sturdy closed-toe shoes and come prepared for weather and insects. Walks canceled for unsafe weather or trail conditions. Free, no registration required. Meet at the Arboretum Visitor Center.



ARBORETUM ANIMALS | ARBORETUM VISITOR CENTER | 1:30 PM - 3:30 PM

Code to Connect (Student Organization)

Animals abound in the Arboretum's gardens, prairies, woodlands, and wetlands! Learn about some of the creatures that call the Arboretum home and challenge yourself to complete an indoor/outdoor spring animal scavenger hunt.



CITIZEN SCIENCE AT THE ARBORETUM | ARBORETUM VISITOR CENTER | 1:00 PM - 3:30 PM

UW Arboretum

Citizen science volunteers at the Arboretum help monitor a range of natural systems, from water quality to dragonflies. Try your hand at making citizen science observations, and learn how you can get involved at the Arboretum and beyond!



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PIPETTE THE RAINBOW | HSLC | 12:00 PM - 4:00 PM

OTRS

Participants will use a lab pipette to place colored water drops of different sizes on the the rainbow.



UV BEAD BRACELETS | HSLC | 12:00 PM - 4:00 PM

Office of Translational Research Sciences

Participants will create a UV Bead bracelet with the supplies provided. They will place sunscreen on one bead they add to the bracelets and then expose their beads to sunlight to determine UV intensity. This will help them understand how sunscreen protects their skin from the suns damaging rays.



LEARN ABOUT THE TOTAL SOLAR ECLIPSE WITH THE ASTRONOMY CLUB AT UW-MADISON | HSLC | 12:00 PM - 4:00 PM

Astronomy Club at UW-Madison

Join us for a stellar time learning to safely view the sun how eclipse work!



DIVING INTO WISCONSIN SHIPWRECKS | ARBORETUM VISITOR CENTER | 1:00 PM - 3:30 PM

Wisconsin Historical Society

Calling all underwater explorers! Join Jordan, a Historical Society maritime archaeologist to learn all about shipwrecks and scuba diving in Wisconsin waters. Different activities will teach about some of the shipwrecks in Lake Michigan and Lake Geneva, the stories behind how they sank, and the way they are studied today. Puzzles, games, matching activities and more are part of this program! Materials for the Maritime Archaeology program been made possible by funding from the Wisconsin Sea Grant Institute <https://www.seagrant.wisc.edu/>



WHAT DOES IT TAKE TO GROW PLANTS ON THE MOON? | HSLC | 10:00 AM - 1:00 PM

Botany

How do you grow plants on the Moon? What is lunar lettuce?



INTERACTIVE HUMAN BRAIN DISPLAY AND BRAIN GAMES | HSLC | 12:00 PM - 4:00 PM

Neuroscience Training Program Outreach Committee

Come hold a REAL human brain and learn about all the amazing things it does with the Neuroscience Training Program Outreach Committee!



CHAZEN MUSEUM OF ART | 750 UNIVERSITY AV | 11:00 AM - 5:00 PM

Chazen Museum of Art

See art from around the world and from celebrated artists here at UW Madison!



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OVER-THE-COUNTER MEDICATION SAFETY | PHARMACY BUILDING |

12:00 AM - 4:00 PM

UW-Madison School of Pharmacy - Wisconsin Society of Student Pharmacists

Interactive activity focused on children's education based around safe medication use at home. We have colorful dyed water (in reference to liquid medications) in containers with oral syringes and oral spoons for kids to practice using while we educate them on safe use!



BUILD A DNA BRACELET | PHARMACY BUILDING | 12:00 PM - 4:00 PM

Retired from Biotech Center

Build a DNA Bracelet and explore how a string of the four letters in the DNA alphabet can carry information, and how changing the order of the letters might change the meaning of information.



WSPS - OPERATION SUBSTANCE USE DISORDERS - IS IT CANDY OR MEDICINE? | PHARMACY BUILDING | 12:00 AM - 4:00 PM

UW-Madison School of Pharmacy

We will hold a booth with an activity geared towards the expected age group. In the past, we have played a game called "is it candy or medicine?" This is a way to increase awareness regarding pharmacy within society and to play a game that keep children engaged. We will also have a poster and can talk about our community outreach within pharmacy.



ELECTRIC EARS AND HOW WE HEAR | HSLC | 12:00 PM - 4:00 PM

Binaural Hearing & Speech Lab (UW Waisman Center)

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."



DIFFERENT WAYS OF SEEING | HSLC | 12:00 PM - 4:00 PM

McPherson Eye Research Institute

Learn about common eye diseases. Explorers can try different daily tasks while wearing low vision simulators.



CANCER METASTASIS DEMONSTRATION | HSLC | 12:00 PM - 4:00 PM

Cancer Health Disparities Initiative

Don't let metastasis fool you. This is why catching cancer early matters.



BABCOCK DAIRY OBSERVATION DECK TOURS | 1605 LINDEN DRIVE | OPEN 11:00 AM - 4:00 PM, TOURS AT 2:00 AND 3:00

Babcock Dairy

Tour Babcock Dairy's observation deck to learn about the making behind 175 S'more Years ice cream and Cranni-verscherry cheese!



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ASK US ANYTHING (HEALTH SCIENCE INFORMATION) | HSLC |

12:00 PM - 4:00 PM

Ebling Library

Our interactive station will be staffed by a health sciences librarian and library graduate students who are here to help introduce families to finding quality health information by answering questions related to the health sciences, including showing and demonstrating how to navigate and search the many resources available to them. There will be handouts on health information resources that people can take, word puzzles and coloring sheets for children, and a skeleton puzzle for families to play with at the table.



CANCER SCREENING INFORMATION | HSLC | 12:00 PM - 4:00 PM

SMPH - Wisconsin Cancer Collaborative

Inflatable super colon and cancer screening information in the HSLC building



OPERATION DIABETES | PHARMACY BUILDING | 12:00 PM - 4:00 PM

SMPH - Wisconsin Cancer Collaborative

Operation Diabetes offers diabetes education available for both kids and adults! Adults will have the opportunity to learn about their own risk for diabetes, while kids can play a fun game to learn about the sugar content in many popular drinks.



BREAST HEALTH SPIN THE WHEEL | HSLC | 12:00 PM - 4:00 PM

UW Health Breast Center

Spin the trivia wheel to answer questions about breast health with giveaways. Brochures/information for patients about WWWP, screening programs, PATHS high-risk program, genetic counseling, etc.; sign up sheet for a mammogram screening appt



UNITE AGAINST CANCER: STRENGTH IN UNITY | HSLC | 9:00 AM - 4:00 PM

Department of Human Oncology

Paper or cloth will be provided for the community to write well wishes to cancer patients in the Carbone center. They can dedicate their section to wish their own family members well or for those who don't know anyone, they can write their names and inspirational messages to those battling cancer.



Linking Ice Cream to Cancer | HSLC | 12:00 PM - 4:00 PM

Carbone Cancer Center

Learn about how certain fruit extracts and other food compounds are being used to treat cancer!



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GET A GRIP ON ONCOLOGY NUTRITION | HSLC | 12:00 PM - 4:00 PM

Carbone Cancer Center- Oncology Nutrition

Get a grip on oncology nutrition! Participate in hands on dynamometer (hand grip strength) readings and discuss the role of nutrition in cancer prevention and treatment.



DANCE IS MEDICINE | HSLC | 12:30 PM, 1:30 PM, 2:30 PM, 3:30 PM

Chelsea Carvajal

A medication that has no side effects, is proven to improve health, and is fun. Dance is medicine.



BRAIN TUMOR SURGERY | HSLC | 12:00 PM - 4:00 PM

Neurological Surgery

Our lab will teach interactive brain tumor surgery (using jello brain) and studying brain cancer cells under microscope.



SEEING NEAR AND FAR | HSLC | 12:00 PM - 4:00 PM

McPherson Eye Research Institute

When we look at a scene, we can easily see which objects are closer and which are farther away. This station examines some of the visual cues that our eyes and brain use to determine how objects are arranged in space.



OPERATION AIRWAYS | PHARMACY BUILDING | 12:00 PM - 4:00 PM

School of Pharmacy

Inhale the excitement, where every breath is a step toward happier healthier you!



CANCER CELL MICROSCOPY | HSLC | 12:00 PM - 4:00 PM

UW Carbone Cancer Center

EVOS microscope with florescent stained cancer cells



STELLAR POSSIBILITIES ON THE HORIZON: SURGICAL INSIGHTS IN BREAST CANCER TREATMENT | HSLC | 1:00 PM - 1:45 PM

Carbone Cancer Center

Hear from surgical oncologist, Ashley Woodfin, MD about new, innovative surgical techniques and treatments for breast cancer patients. This presentation is held in conjunction with UW Carbone Cancer Center's 50th Anniversary Open House. The event will be held at the Health Sciences Learning Center (UW School of Medicine and Public Health, 750 Highland Avenue). It is free and open to any community member.



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TOXICOLOGY... IT'S NOT JUST POISONS! | HSLC | 12:00 PM - 4:00 PM

Molecular and Environmental Toxicology Program

Come learn about how toxicology applies to life... from plants to you! From the good to the bad to the okay-in-small-doses.



ADVANCES IN MELANOMA CARE THAT INCLUDE MAN AND WOMAN'S BEST FRIEND | HSLC | 2:00 PM - 2:45 PM

Carbone Cancer Center

Hear from medical oncologist, Mark Albertini, MD as he highlights the latest research and treatment benefitting melanoma patients, including canine friends. This presentation is held in conjunction with UW Carbone Cancer Center's 50th Anniversary Open House. The event will be held at the Health Sciences Learning Center (UW School of Medicine and Public Health, 750 Highland Avenue). It is free and open to any community member.



ANSWERING YOUR QUESTIONS ABOUT CANCER | HSLC | 3:00 PM - 3:45 PM

Carbone Cancer Center

Ask your cancer questions to our live panel of cancer physicians. This presentation is held in conjunction with UW Carbone Cancer Center's 50th Anniversary Open House. The event will be held at the Health Sciences Learning Center (UW School of Medicine and Public Health, 750 Highland Avenue). It is free and open to any community member.



CARBONE CANCER CENTER RESEARCH LAB TOURS | HSLC 750 HIGHLAND AV | OPEN 12:00 PM - 3:00 PM TOURS AT 12:00 PM, 1:00 PM

Carbone Cancer Center

Come tour the lab spaces that are used to propel cancer research. See and interact with scientists, cool lab equipment, and unique lab spaces.



SCROLL ON DOWN TO SOCIAL MEDIA TRIVIA! | HSLC | 12:00 PM - 4:00 PM

UW- Madison Pediatrics

Come and play our social media trivia! Spin the wheel for prizes and learn about cutting edge research on teens and social media use at the UW including the Brain, Behavior, and WellBeing study! Researchers will be hosting to answer your social media questions as well as recruiting for the B3 study for teens 13-15. More information and interest form here <https://redcap.link/b3>



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UW MIA RECOVERY AND IDENTIFICATION PROJECT OPEN HOUSE | 425 N HENRY MALL GENETICS BUILDING SUITE 3130 | 10:00 AM - 3:00 PM *UW Missing-In-Action Recovery and Identification Project*

Join us in our suite to learn more about past cases! Interested visitors will have the opportunity to solve their own case using similar resources as the student research team!



THE AMAZING BRAIN | HSLC | 12:00 PM - 4:00 PM *The Child Emotion Lab*

Unlock the secrets of the brain with a twist and a sculpt! Join us as we mold the mysteries of the mind into colorful clay creations.



STEAM IT UP WITH STEM FORCE AND MADISON PUBLIC LIBRARY | HSLC | 12:00 PM - 4:00 PM *Madison Public Library and STEM Force*

Join Madison Public Library and their partner STEM Force for an introduction to robotics! STEM Force is a student-run, local nonprofit dedicated to providing enjoyable STEM experiences. Come meet (and drive!) their latest robot and learn how you can get involved in STEM activities like First Lego League. STEM can also be STEAM, so we'll also have info about all kinds of art-y library resources, including the We Read Youth Voices writing contest chaired by STEM Force co-founder Diya Dhawal!



HEALTH INSURANCE AND CANCER PREVENTION Q&A PRIZE WHEEL | HSLC | 12:00 PM - 4:00 PM *Covering Wisconsin (Extension)*

Spin the prize wheel at Covering Wisconsin's table to test your cancer prevention and health insurance trivia! Covering Wisconsin is a program of UW-Extension that helps people find and use health insurance.



THE LAKESHORE NATURE PRESERVE: A SCIENCE EXPEDITIONS DESTINATION FOR EXPLORATION | LAKESHORE NATURE PRESERVE, PICNIC POINT ENTRANCE 2000 UNIVERSITY BAY DRIVE | 12:00 PM - 4:00 PM *UW-Madison Lakeshore Nature Preserve*

Explore the Lakeshore Nature Preserve with interactive learning stations for all ages. UW students and other experts will be on hand to help you discover more about insects, birds, effigy mounds, soils, trees, and the geology of the Picnic Point wall. Also, learn about campus sustainability and the new Frautschi Center, and enjoy free hot chocolate or cider by a fire.



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CANCER CELLS FEEL THINGS TOO | HSLC | 12:00 PM - 4:00 PM

UWCCC TM Program

Did you know that cancer cells sense and respond to their surroundings? Come learn how engineers build systems to understand this relationship!



RETHINK PLASTIC WASTE | HSLC, PHARMACY BUILDING, ARBORETUM VISITOR CENTER | 12:00 PM - 4:00 PM

Plastic-Free Milwaukee

To inspire initiatives to combat the global plastic waste issue, Plastic-Free Milwaukee presents activities to educate on the current recycling system and introduce upcycling methods for all inquisitive minds.



CENTER FOR DESIGN AND MATERIAL CULTURE: REMAKING THE RENAISSANCE | MECKLENBURG TEXTILE GALLERY: 1235 NANCY NICHOLAS HALL 1300 LINDEN DR | 12:00 PM - 4:00 PM

CDMC



UW BIOTECHNOLOGY CENTER | 425 HENRY MALL ROOM 3130 | 12:00 PM - 4:00 PM

UW Biotechnology Center

Come see all of the work done here at the UW Biotechnology Center. From genetics, to STEM cells, to fun activities around the building



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