

WELCOME TO THE 8TH ANNUAL MSU SCIENCE FESTIVAL

Science • Technology • Engineering • Art • Mathematics

SOMETHING FOR EVERYONE

250 ACTIVITIES ON CAMPUS AND STATEWIDE

Welcome to the Annual MSU Science Festival!

At the 8th annual MSU Science Festival, we are visualizing the invisible, inviting everyone to join us in exploring and learning about the world around us.

More than 350 scientists, researchers, and educational partners are ready to dazzle, delight, inspire and educate visitors about the STEAM disciplines and the key role they play in our everyday lives and how they will shape our future.

We hope to see you at this celebration of Visualizing the Invisible, sparking wonder and imagination.

-MSU Scifest Team

PLANNING YOUR VISIT

ALL ACTIVITIES AND EVENTS ARE FREE!

The Science Festival offers a variety of presentations intended for multiple audiences statewide. Age recommendations and location details are available in print and online. Some events may require pre-registration. For the most up to date information on events, parking, where to eat, lost children, or other general questions, visit the Festival website **sciencefestival.msu.edu**







LANSING STATE JOURNAL EXPO ZONE PAGE 18





NIGHTS AT THE MUSEUMS PAGE 40

STATEWIDE ASTRONOMY NIGHT

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SCIENCE CAFES AND PUBS

PAGE 45

The Science Festival website will have descriptions and the most up to date information. Please visit the website at **sciencefestival.msu.edu**



SIGNATURE EVENTS

Coding to the Moon:

Margaret Hamilton and the Apollo Missions

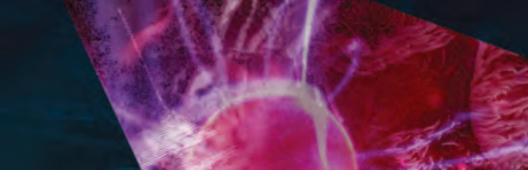




Saturday, April 4 2:30 - 3:30 PM and 4:30 - 5:30 PM Anthony Hall Room 1281

Gripping live production that celebrates the life and work of computer scientist and software engineer, Margaret Hamilton. As a young NASA scientist, she broke new ground as she led the team that built the navigation systems for the Apollo missions to the moon.

The play is a captivating drama of the daring and risk involved in the space missions and how Hamilton's team averted last-minute disasters during the flights of Apollo 8 and Apollo 11. Presented by Wild Swan Theater, Ann Arbor, MI.



Visualizing the Invisible:

A Talk with Dr. Sian Proctor, Analog Astronaut



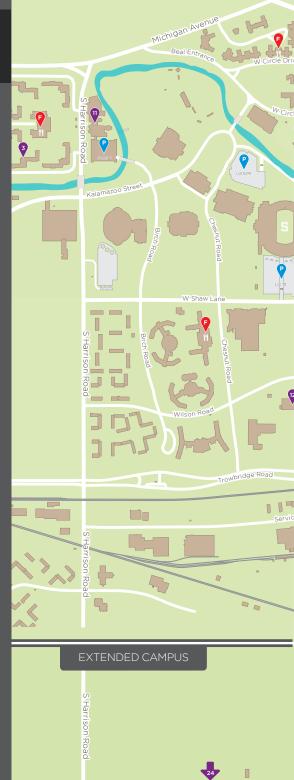


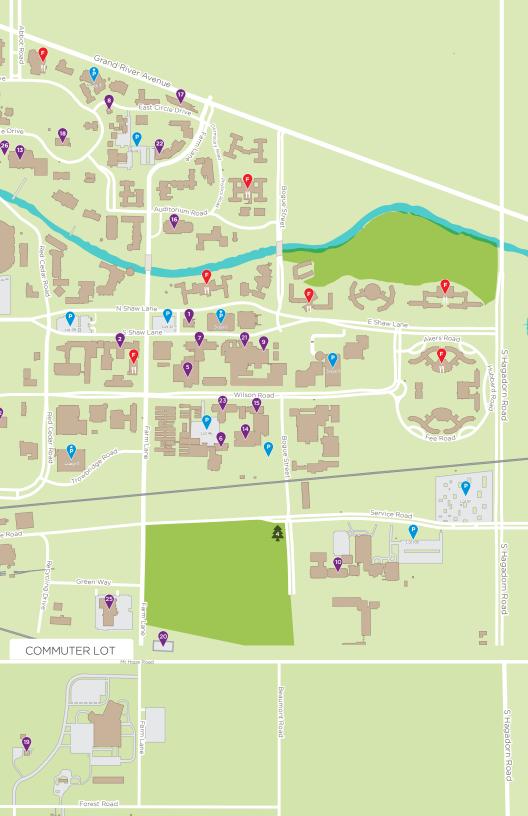
Friday, April 24 7:00 - 8:00 PM MSU Auditorium

Dr. Sian Proctor will take you on her personal journey as a student, geoscientist, explorer, finalist for the NASA Astronaut Program, and analog astronaut. What was it like to live in 3 analog missions (NASA funded HI-SEAS Mars Simulation, LunAres habitat in Pila, Poland, and Mars Desert Research Station)? What can we learn from these missions to help us on Earth? Learn what inspires her, what we can learn from her adventures and how it can help shape the future.

CAMPUS MAP

- 1. Abrams Planetarium
- 2. Anthony Hall
- 3. Bailey Greenhouse and Urban Farm
- 4. Baker Woodlot
- 5. Biomedical Physical Sciences Building
- 6. Center for Intergrated Plant Systems
- 7. Chemistry Building
- 8. Eustace-Cole Hall Entrance
- 9. FRIB Auditorium and Lobby
- 10. Institute Quantitative Health Sciences and Engineering
- 11. Kellogg Center
- 12. Landscape Services Building
- 13. Main MSU Library
- Michigan 4-H Children's Garden Butterfly House
- 15. Molecular Plant Sciences Building
- 16. MSU Auditorium
- 17. MSU Broad Art Museum
- 18. MSU Museum
- 19. MSU Observatory (Extended Campus)
- 20. MSU Scene Shop
- 21. National Superconducting Cyclotron Laboratory
- 22. Natural Science Building / Bug House
- 23. Plant Biology Laboratories / Herbarium
- 24. South Campus Anaerobic Digester Research and Education Center (Extended Campus)
- 25. Surplus Store
- 26. W.J. Beal Botanical Gardens
- P Parking
- F Food/Cafeterias





SCHEDULE AT-A-GLANCE

KEY

MSU Expo Zones Talks,
Demonstrations
& Peformances

Take a Tour/ Open House

Nights at the Museums

Statewide
Astronomy
Night

Science Cafe/Pubs ★ Signature Events

FRIDAY, APRIL 3

TITLE	TIME	CITY	PAGE
Women in Science Wikipedia-Edit-a-Thon	1:00 PM - 3:00 PM	MSU Campus	34
Campfire Science Night	6:00 PM - 9:00 PM	Lansing	34

SATURDAY, APRIL 4

TITLE	TIME	CITY	PAGE
Expo Zone	10:00 AM - 4:00 PM	MSU Campus	18
MSU Indoor 4-H Children's Garden Open House	10:00 AM - 4:00 PM	MSU Campus	34
Amazing Astronomy & Fantastic Physics	10:30 AM - 11:30 AM	MSU Campus	27
Budget Like a Boss	11:00 AM - 11:30 AM	MSU Campus	27
Counting the Uncountable: Measuring the Diversity of Earth's Invisible Species	11:00 AM - 12:00 PM	MSU Campus	27
Everything You Know About Mass is Wrong!	11:00 AM - 12:00 PM	MSU Campus	27

Explore the Invisible World of Blood!	11:00 AM - 12:00 PM	MSU Campus	27
Exploring the Invisible Aspects of Urban Trees Using Lasers: What We Learn From Ghost Pictures	11:00 AM - 12:00 PM	MSU Campus	27
How Could Computational Modeling Help You Plan a Hiking Path on Mt. Rainier?	11:00 AM - 11:30 AM	MSU Campus	28
How Do We Keep the Fish We Eat Healthy?	11:00 AM - 11:30 AM	MSU Campus	28
Our Ancestors: The Evolution of Stars	11:00 AM - 12:00 PM	MSU Campus	28
Safe Control of Self-Driving Cars	11:30 AM - 12:00 PM	MSU Campus	28
Budget Like a Boss	12:00 PM - 12:30 PM	MSU Campus	27
Burning Forests to Save Forests	12:00 PM - 12:30 PM	MSU Campus	28
Is It Magicor Chemistry?	12:00 PM - 1:00 PM	MSU Campus	28
How We See 23&Me	12:30 PM - 1:30 PM	MSU Campus	28
News from the Underground & the Magic of Mycelium	12:30 PM - 1:30 PM	MSU Campus	29
Science! The Musical	12:30 PM - 1:00 PM	MSU Campus	29
 The Invisible Color Force That Binds Us (and Makes Us Heavy!)	12:30 PM - 1:00 PM	MSU Campus	29
Budget Like a Boss	1:00 PM - 1:30 PM	MSU Campus	27
Exciting Electromagnetism	1:00 PM - 2:00 PM	MSU Campus	29
So You Want To Be a Game Designer?	1:00 PM - 2:00 PM	MSU Campus	29
When Robots Deliver Pizza	1:00 PM - 1:30 PM	MSU Campus	29
MSU Science Theatre Presents: The Newtonian Physics Show!	1:30 PM - 2:30 PM	MSU Campus	30
Night Sky in Lansing	1:30 PM - 2:00 PM	MSU Campus	29
The Spartan Dischords Present: The Magnetism of Music	1:30 PM - 2:00 PM	MSU Campus	30
Michigan State Solar Racing Team: Electric Vehicles on the Road	2:00 PM - 2:30 PM	MSU Campus	30
NanoTB Test	2:00 PM - 2:30 PM	MSU Campus	30
New Ways of Delivering Education: Facilities Planning on Campus	2:00 PM - 2:30 PM	MSU Campus	30
Night Sky in Lansing	2:00 PM - 2:30 PM	MSU Campus	29
Toward the Circular Economy: The Use and ReUse of Plastic Materials	2:00 PM - 2:30 PM	MSU Campus	30
Night Sky in Lansing	2:30 PM - 3:00 PM	MSU Campus	29

Saving the Bees, One Garden at a Time	2:30 PM - 3:00 PM	MSU Campus	30
Why the Amazon is More 'The Heart' Than 'The Lungs' of the Earth and How We Can Preserve Its Life-Sustaining Function	2:30 PM - 3:00 PM	MSU Campus	31
Coding to the Moon: Margaret Hamilton and the Apollo Missions	2:30 PM - 3:30 PM	MSU Campus	5
Michigan State Solar Racing Team: Electric Vehicles on the Road	3:00 PM - 3:30 PM	MSU Campus	30
Science That You Can't Do at Home!	3:00 PM - 4:00 PM	MSU Campus	31
Seeing Stars: How Birds Use the Night Sky to Navigate	3:00 PM - 4:00 PM	MSU Campus	31
Seeing Thoughts and Feelings	3:00 PM - 4:00 PM	MSU Campus	31
Superheroes Curing the Big Bad Sickness	3:00 PM - 4:00 PM	MSU Campus	31
Your Brain on Sleep	3:00 PM - 3:30 PM	MSU Campus	31
Saving the Bees, One Garden at a Time	3:30 PM - 4:00 PM	MSU Campus	30
Why the Amazon is More 'The Heart' Than 'The Lungs' of the Earth and How We Can Preserve Its Life-Sustaining Function	3:30 PM - 4:00 PM	MSU Campus	31
Wooden Skyscrapers?: MSU's 'Mass Timber' Building	3:30 PM - 4:00 PM	MSU Campus	31
Coding to the Moon: Margaret Hamilton and the Apollo Missions	4:30 PM - 5:30 PM	MSU Campus	5
Beat the Scientist	7:00 PM - 9:00 PM	Lansing	45

SUNDAY, APRIL 5

TITLE	TIME	CITY	PAGE
 MSU Indoor 4-H Children's Garden Open House	10:00 AM - 4:00 PM	MSU Campus	34
Sustaining the Vision Open House at the Kellogg Biological Station	11:00 AM - 4:00 PM	Augusta	34

WEDNESDAY, APRIL 8

TITLE	TIME	CITY	PAGE
Astronomy on Tap	7:30 PM - 9:30 PM	Lansing	45

THURSDAY, APRIL 9

TITLE	TIME	CITY	PAGE
Almost Anything Made From Petroleum Can Be Made With Wood	4:00 PM - 5:00 PM	MSU Campus	32
Propagation Lab	7:00 PM - 8:00 PM	Lansing	45
Grand Rapids Science on Tap	8:00 PM - 10:00 PM	Grand Rapids	45

FRIDAY, APRIL 10

TITLE	TIME	CITY	PAGE
Tour of the Center for Advanced Microscopy	11:00 AM - 11:50 AM	MSU Campus	34
Skeletons, Jaws, and Jars: A Tour of the MSU Museum Vertebrate Collections	2:00 PM - 2:30 PM	MSU Campus	35
Skeletons, Jaws, and Jars: A Tour of the MSU Museum Vertebrate Collections	2:45 PM - 3:15 PM	MSU Campus	35

SATURDAY, APRIL 11

TITLE	TIME	CITY	PAGE
MSU Observatory Turns 50! (Workshop)	9:00 AM - 5:00 PM	MSU Campus	35
MSU Indoor 4-H Children's Garden Open House	10:00 AM - 4:00 PM	MSU Campus	34
BeLEAF It or Not! Enjoy a Fun-Filled Video Series on Forests and Forestry	11:00 AM - 11:30 AM	MSU Campus	32
Fins to Limbs: How Our Ancestors Left the Water and Came Onto Land	12:00 PM - 1:00 PM	MSU Campus	32
Super Bugs-From the Public Health Lab!	3:00 PM - 3:30 PM	MSU Campus	32
Plant Pharmacy: Why Plant Defenses are Valuable to US	4:00 PM - 4:30 PM	MSU Campus	32
MSU Observatory Turns 50! (Stargazing!)	9:00 PM -11:00 PM	MSU Campus	35

MONDAY, APRIL 13

TITLE	TIME	CITY	PAGE
Our Ancestors: The Evolution of Stars	7:00 PM - 8:00 PM	Lansing	45
Night Sky in Lansing	8:00 PM - 8:30 PM	Lansing	45
Building Better Space Teams: Tracking Team Interactions, Conflict, and Attitudes in Space Mission Analogs	8:30 PM - 9:00 PM	Lansing	46

TUESDAY, APRIL 14

TITLE	TIME	CITY	PAGE
MSU Broad Art Museum Night at the Museums	5:00 PM - 8:00 PM	MSU Campus	40
MSU Museum Night at the Museums	5:00 PM - 8:00 PM	MSU Campus	40
The Roc at MSU: What Can We Learn from a Skeleton?	5:00 PM - 8:00 PM	MSU Campus	40

WEDNESDAY, APRIL 15

TITLE	TIME	CITY	PAGE
News from the Underground & the Magic Mycelium	7:00 PM - 8:00 PM	Lansing	46

THURSDAY, APRIL 16

	TITLE	TIME	СІТҮ	PAGE
Impr	ession 5 Night at the Museum	5:00 PM - 7:30 PM	Lansing	40
	X-TV Channel 10 Live Weather cast from Impression 5 Science er	5:00 PM - 5:30 PM	Lansing	40
Natio Nigh	h is Blue: A Closer Look at onal Marine Sanctuaries in a It at the Thunder Bay National ne Sanctuary	7:00 PM - 9:00 PM	Alpena	41
_	Astronomy: How Observatories nile Keep Working	7:30 PM - 8:30 PM	MSU Campus	32

FRIDAY, APRIL 17

TITLE	TIME	CITY	PAGE
Potter Park Zoo: An Evening of Awesome, Interactive Experiences at a Living Museum	5:00 PM - 8:00 PM	Lansing	41
Statewide Astronomy Night at Kingman Museum	5:00 PM - 8:00 PM	Battle Creek	43
Looking into the Sky with New Eyes at Kalamazoo Valley Museum	5:00 PM - 5:30 PM	Kalamazoo	43
Astrophotography for Beginners and Advanced at Henry Ford College	6:30 PM - 11:00 PM	Dearborn	43
Big Astronomy: People, Places, Discovery at Abrams Planetarium	7:00 PM - 9:00 PM	MSU Campus	43
Ella Sharp Museum's Hurst Planetarium: Our Shared Night Sky	7:00 PM -10:00 PM	Jackson	43
Statewide Astronomy Night at Bay City State Park	7:00 PM - 10:00 PM	Bay City	44
Statewide Astronomy Night at the MSU Observatory	8:00 PM - 10:00 PM	Lansing	44
Statewide Astronomy Night at Veen Observatory	8:30 PM - 11:30 PM	Lowell	44

SATURDAY, APRIL 18

TITLE	TIME	CITY	PAGE
Ecology and More Extravaganza Tour	9:00 AM - 1:00 PM	Laingsburg	35
MSU Indoor 4-H Children's Garden Open House	10:00 AM - 4:00 PM	MSU Campus	34
Pioneering Biomedical Research with IQ (ilnstitute for Quantitative Health Science and Engineering)	10:00 AM - 1:00 PM	MSU Campus	35
Tour and Explore the World of Insects at the MSU Bug House	10:00 AM - 5:00 PM	MSU Campus	35
Tour the Lansing Makerspace	10:00 AM - 6:00 PM	Lansing	35
Science in Spaaaace	11:00 AM - 11:30 AM	MSU Campus	33
Visualizing the Invisible: Architecture on East Campus	11:00 AM - 12:15 PM	MSU Campus	36
How Falcons Help Farmers and Farmers Help Falcons	12:00 PM - 12:30 PM	MSU Campus	33
Neuroscience Fair	12:00 PM - 4:00 PM	MSU Campus	36
We Have Heart!	12:00 PM - 4:00 PM	MSU Campus	36
Poisonous Plants in Your Yard	12:30 PM - 1:15 PM	MSU Campus	36
A Bountiful Branch of Botany: Tours of the MSU Herbarium and Teaching Conservatory	1:00 PM - 4:00 PM	MSU Campus	36
Energy in Motion with Curious Crew	1:00 PM - 2:00 PM	MSU Campus	33
Molecules at the Movies	1:00 PM - 1:30 PM	MSU Campus	33
MSU Broad Art Museum Never Spoken Again Tour	1:00 PM - 2:00 PM	MSU Campus	36
MSU Library Open House Digital Scholarship Lab: Online Privacy, Virtual Reality, and Immersive Visualization	1:00 PM - 4:00 PM	MSU Campus	37
MSU Library Open House Maker- space: What's a Makerspace?	1:00 PM - 4:00 PM	MSU Campus	37
MSU Library Open House Map Library: Compass and Map Navigation	1:00 PM - 4:00 PM	MSU Campus	37
MSU Library Open House: Botanical Gems - Rare Books with Preserved Plant Specimens	1:00 PM - 4:00 PM	MSU Campus	37

MSU Library Open House: Make Your Own Book!	1:00 PM - 4:00 PM	MSU Campus	37
MSU Library Open House: Print Your Own Science Festival Bookmark!	1:00 PM - 4:00 PM	MSU Campus	37
MSU Library Open House: Rare Books of Animals and People Working Together	1:00 PM - 4:00 PM	MSU Campus	38
MSU Library Open House: Seed Library	1:00 PM - 4:00 PM	MSU Campus	38
MSU Theater Scene Shop Tour	1:00 PM - 1:30 PM	MSU Campus	38
Tour Bailey Greenhouse and Urban Farm: A Student Run Learning Center	1:00 PM - 1:30 PM	MSU Campus	38
Vernal Pools in MSU's Baker	1:00 PM - 2:00 PM	MSU Campus	38
Tour Arboriculture at MSU	1:30 PM -2:00 PM	MSU Campus	38
Tour Bailey Greenhouse and Urban Farm: A Student Run Learning Center	1:30 PM - 2:00 PM	MSU Campus	38
MSU Recycling: Behind the Scenes Tour	2:00 PM - 2:30 PM	MSU Campus	38
Poisonous Plants in Your Yard	2:00 PM - 2:45 PM	MSU Campus	36
Tour Bailey Greenhouse and Urban Farm: A Student Run Learning Center	2:00 PM - 2:30 PM	MSU Campus	38
Tour the National Superconducting Cyclotron Laboratory	2:00 PM - 2:50 PM	MSU Campus	39
MSU Anaerobic Digester Tour	2:15 PM - 3:00 PM	MSU Campus	39
Nuclear Science From a Whole New Angle: Virtual Tour of the NSCL and FRIB	2:15 PM - 3:00 PM	MSU Campus	39
Tour Arboriculture at MSU	2:30 PM - 3:00 PM	MSU Campus	38
MSU Recycling: Behind the Scenes Tour	2:45 PM - 3:15 PM	MSU Campus	38
Energy In Motion with Curious Crew	3:00 PM - 4:00 PM	MSU Campus	33
MSU Broad Art Museum: Never Spoken Again Tour	3:00 PM - 4:00 PM	MSU Campus	36
MSU Theater Scene Shop Tour	3:00 PM - 3:30 PM	MSU Campus	38
MSU Anaerobic Digester Tour	3:15 PM - 4:00 PM	MSU Campus	39
Wild Plant Foods and the Salad Bar of Spring	3:15 PM - 4:00 PM	MSU Campus	39
Knockout Anatomy	5:00 PM - 6:00 PM	MSU Campus	33
Public Observing at MSU Observatory	9:00 PM - 11:00 PM	MSU Campus	39

SUNDAY, APRIL 19

TITLE	TIME	CITY	PAGE
MSU Indoor 4-H Children's Butterfly Garden Open House	10:00 AM - 4:00 PM	MSU Campus	34
Explore Harris Nature Center	12:00 PM - 4:00 PM	Okemos	39

TUESDAY, APRIL 21

TITLE	TIME	CITY	PAGE
Signs of Life: New Directions in Biodiversity Collections Research. An Interdisciplinary Symposium	3:00 PM - 7:00 PM	MSU Campus	33

WEDNESDAY, APRIL 22

TITLE	TIME	CITY	PAGE
Celebrate Earth Day on Science on a Sphere at the MSU Museum!	9:00 AM - 5:00 PM	MSU Campus	39

THURSDAY, APRIL 23

TITLE	TIME	CITY	PAGE
Lives of Michigan Objects at an History Center	5:00 PM - 8:00 PM	Lansing	41
ilding Blocks of Matter: or LEGOs?	6:00 PM - 7:00 PM	Lansing	41

FRIDAY, APRIL 24

TITLE	TIME	CITY	PAGE
Visualizing the Invisible: A Talk with Dr. Sian Proctor, Analog Astronaut	7:00 PM - 8:00 PM	MSU Campus	6

SATURDAY, APRIL 25

TITLE	TIME	CITY	PAGE
obal CleanupDetroit Isle State Park	8:00 AM - 12:00 PM	Detroit	41
 nce: Discover the eries of Flight at the useum	10:00 AM - 4:00 PM	Belleville	41

MSU Indoor 4-H Children's Garden Open House	10:00 AM - 4:00 PM	MSU Campus	34
How are Sea Lampreys Controlled?	1:00 PM - 6:00 PM	Detroit	42
Science—Making it Happen at the Charles H. Wright Museum of African American History	1:00 PM - 6:00 PM	Detroit	42

SUNDAY, APRIL 26

TITLE	TIME	CITY	PAGE
MSU Indoor 4-H Children's Garden Open House	10:00 AM - 4:00 PM	MSU Campus	34

MONDAY, APRIL 27

TITLE	TIME	CITY	PAGE
 Communication (Science) On Tap	7:00 PM - 8:30 PM	Lansing	46

TUESDAY, APRIL 28

TITLE	TIME	CITY	PAGE
Biology on Tap!	7:30 PM - 9:00 PM	Lansing	46

THURSDAY, APRIL 30

TITLE	TIME	CITY	PAGE
An Evening at the Air Zoo	6:00 PM - 8:00 PM	Portage	42

LANSING STATE JOURNAL EXPO ZONE



Saturday, April 4

10:00 AM - 4:00 PM

Abrams Planetarium, Biomedical and Physical Sciences Building, Chemistry Building, Facility For Rare Isotope Beams, and Molecular Plant Sciences Building

Experience exciting hands-on activities, demonstrations, talks, and performances.

Everything Falls

Abrams Planetarium

Come learn about gravity with a bunch of experiments.

Physics and Astronomy Activities with WaMPS

Abrams Planetarium

Join the MSU Women and Minorities in Physical Sciences group for some hands-on physics and astronomy activities.

The Invisible - Don't Just See It, Play With It!

Abrams Planetarium

Visualize and play with the invisible force re-imagined by Einstein. Create gravity waves and eat the results.

Art and Science Intersections

Biomedical and Physical Sciences

Take a moment at REACH Studio Art Center's table to learn about primary and secondary colors and chemical reactions.

Astronaut Tools

Biomedical and Physical Sciences

Is your dexterity as good as an astronaut's? Come try on 'astronaut' gloves at this expo booth.

Birds, Poo, and You

Biomedical and Physical Sciences

Learn about bird banding, avian health, and our research into bird diet. Get hands-on with banding demos and educational games about bird migration.

Check Out STEM @ CADL

Biomedical and Physical Sciences

Capital Area District Libraries will be showcasing a variety of different STEM toys and activities that can be checked out from our libraries.

Computational Science: Robots, Supercomputers, and Virtual Reality, Oh My!

Biomedical and Physical Sciences

Experience virtual reality, program a robot, interact with a mini-supercomputer, and learn how scientists use computers to understand the world.

Evolution in Action

Biomedical and Physical Sciences

Learn about evolutionary science by exploring the atmosphere of Earth, examining primate skulls and playing a game to see how birds compete for seeds.

How Supercomputers Work

Biomedical and Physical Sciences

What makes a supercomputer so fast? Find out through a short video, a comic strip, games, and hands-on exploration of the hardware.

Invisible Quantum World

Biomedical and Physical Sciences

Come see the invisible world of quantum physics and computing, and tour the Laboratory for Hybrid Quantum Systems at MSU.

Laser Tweezers: Reach Out and Grab Bacteria!

Biomedical and Physical Sciences

Use lasers and a microscope to grab and interact with live swimming bacteria in a video game-like experience.

Michigan Snakes Alive

Biomedical and Physical Sciences, Room 1425

About ten species of Michigan-native snakes will be on display with interpretive information.

Microscopic Wonders of the Human Body

Biomedical and Physical Sciences, Room 1425

Learn more about the exciting science of laboratory medicine to visualize the cells and microbes of the human body.

Molecules and Properties Unseen

Biomedical and Physical Sciences

Visualize the molecular world through your senses to engage with some physical and reactivity based properties of matter.

MSU Campus Archaeology Program

Biomedical and Physical Sciences

Come learn about the archaeological finds and discoveries made on Michigan State University's campus.

Nursing 101: Health Promotion, Skills, Assessment, and Simulation

Biomedical and Physical Sciences

Explore the science and art of nursing in this fun, interactive, hands-on session with sugar, glo germ, stethoscopes, and simulation manikins.

Particle Astrophysics with IceCube and HAWC

Biomedical and Physical Sciences

Explore the universe using high energy particles with the IceCube and HAWC observatories. Includes interactive activities, a gear exhibit and more.

See Light and Microscopic Pond Life

Biomedical and Physical Sciences

See invisible indoor rainbows with our make-and-take light benders. Also, discover microscopic life in our exciting pond water exhibit.

The Buzz on Bees

Biomedical and Physical Sciences

Learn about the importance and diversity of bees and the ways YOU can protect them.

The Magical Invisible Microbial World

Biomedical and Physical Sciences

Learn about the magical invisible microbial world that surrounds us, through hands-on activities.

Vermicomposting with IQHub and the MiSTEM Network

Biomedical and Physical Sciences

Come dig a little deeper into the lives of our friend, the worm.

Weird Water: A Study of Different Densities

Biomedical and Physical Sciences

Learn about density and make a super cool lava lamp to take home.

What's a Watershed?: Rain, Drains, and Surface Water Quality Biomedical and Physical Sciences

Mimic rainfall and watch how urban runoff can impact the health of a watershed.

Why Study Spotted Hyenas?

Biomedical and Physical Sciences

Why do we study spotted hyenas, and why do we like them? Learn what makes the hyena one of the world's most unique and fascinating predators.

A Plant is a Community: The Hidden World of Plant Microbiomes

Come to see how plants benefit from their microbe communities, awesome colorful microbes, and habitat of fertilizer-making bacteria.

Amazing Animal Adaptations

Chemistry Building

Explore skulls, pelts, antlers and more as we learn about the amazing ways animals survive in the wild.

Are You the Next Olympic Athlete? Measuring Movement in Health and Disease

Chemistry Building

Learn the science and technology behind measuring human movement and how it is applied in the study of athletes to people with disabilities.

Bacterial Migration Under the Microscope

Chemistry Building

Bacteria can smell, talk, move, and organize. Come discover some of their surprisingly sophisticated behaviors.

Chemistry of the Human Senses

Chemistry Building

This presentation will discuss the chemistry associated with the human senses of vision, smell, and taste.

CIGLR/NOAA GLERL Great Lakes Research: HOMES Is Where the Heart Is

Chemistry Building, Room 127

CIGLR and NOAA GLERL lead exciting Great Lakes research, train the next generation of scientists, and turn research into action.

Groundwater Adventure

Chemistry Building

Explore where water is found in the environment, how it moves from one place to the next, and how it is affected by pollution.

How Do Plants Defend Themselves?

Chemistry Building

Discover how plants think, move, and fight predators. Check us out to see and feel thorns, purple, hairy leaves, plants that survive fire, and more.

How Much Water is 'Hidden' in Your Everyday Life?

Chemistry Building

Come on down and play "The Water Price is Right!" to learn how much unseen water we use!

Instrument Petting Zoo

Chemistry Building, Room 110

Trumpets, violins, and flutes, oh my! Explore playing these instruments and more at the fun, family-friendly instrument petting zoo.

Make Your Own Pulsar

Chemistry Building

Pulsars are among the most extreme objects in the universe. You'll get to craft your own pulsar to see its lighthouse-like pulses for yourself.

Native Bee Houses by Bailey Bee Team

Chemistry Building

The MSU Bailey Bee team will be helping people put together their own native bee houses. You can put these up in your backyard to promote pollinators.

Science Theatre: Hands on Demonstrations

Chemistry Building, Room 109

Come join us for exciting, hands on demonstrations about a variety of different topics from space to gyroscopes.

Social Determinants of Dementia: Does Marriage Matter?

Chemistry Building

Unmarried people have higher risk of dementia than married people. We present the potential pathways and variations in this finding.

The Clean Water Process: Treatment and Technology

Chemistry Building Outside West Entrance

Discover great careers and the tools we use to clean water.

Where does our Drinking Water Come From? A Window into Its Origins

Chemistry Building

Do you know that most drinking water comes from beneath us? Come look through a window into the subsurface to understand how groundwater moves!

Why Do Scientists Use Frogs to Study Development?

Chemistry Building

How similar is development between animals? Come learn how scientists use this to learn about human brain formation.

A Crash Course in Accelerators

Facility For Rare Isotope Beams

You'll need a keen eye and quick reflexes to race a "nucleus" cart down a "linear accelerator" track with electromagnets.

A Smashing Time with Nuclei

Facility For Rare Isotope Beams

Get hands-on with a model "nucleus" that you can accelerate and smash to make isotopes that don't exist on Earth, but might be made in stars.

Dancing, Tangles, and Rational Numbers

Facility For Rare Isotope Beams

Do a dance with your friends and tangle some ropes. Then, watch as we magically untangle them.

Exploring Human Ancestors

Facility For Rare Isotope Beams

Where did we come from? What makes us different from our ancestors? What were early humans like? Explore our origins through fossils.

Make Rare Isotopes from the Comfort of Your Couch

Facility For Rare Isotope Beams

Experience a demonstration of the digital game "Isotopolis," which makes you the researcher with the power to smash nuclei and discover new ones.

Materials for the Body

Facility For Rare Isotope Beams

"Show and tell" for a number of different body part replacement materials. Learn what properties correlate to the specific body part function.

Musical Explorations

Facility For Rare Isotope Beams

How does the science of sound affect musical instruments? Come explore while listening to live performances.

Open-Source 3D Printing

Facility For Rare Isotope Beams

Open-source software and hardware for 3D printing are running full speed. Come learn about 3D printers and open source development.

Polymers in Modern Lives

Facility For Rare Isotope Beams

Join us as we introduce the emerging applications of polymers and the existing challenges of polymeric materials.

Reveal the Science of Materials

Facility For Rare Isotope Beams

Learn the secret of why materials behave the way they do! How can a baby diaper hold so much water? Why did the titanic sink? Can metals have memory?

What Do You Know About Water and Health?

Facility For Rare Isotope Beams

Interactive exhibit designed to engage the public and get them thinking about water and health in Michigan and around the world.

AH NUTS! The Things We Get from Trees

Molecular Plant Sciences

Come learn about how we use trees everyday--you may be surprised! Take home your own tree seedling and watch it grow.

All the Light You Can and Cannot See

Molecular Plant Sciences

An interaction with light, color, and translucent and transparent materials.

Color Your Cabbage Leaf

Molecular Plant Sciences

We will model plant physiology by exploring the the interactions between food coloring and lettuce leaves.

Create Your Own pH Rainbow!

Molecular Plant Sciences

Be a scientist and explore the chemistry of acids and bases. Come create the colors of the rainbow by testing the pH of everyday chemicals.

Fish Under the Microscope

Molecular Plant Sciences

How do fish breathe? How do fish swim? What do baby fish eat? Fish scientists can tell you all this, and more.

Gigantris!

Molecular Plant Sciences

Studies have shown that playing Tetris may lead to increased brain efficiency! Test this out with an over-sized version of this classic game.

Hunt Like a Hawk

Molecular Plant Sciences

Can you hunt with your feet? Explore how habitat type and insect camouflage influence hunting ability as you hunt like the American kestrel.

Magic Wands

Molecular Plant Sciences

Try out all your best spells! If you can shake your wand at your opponent's target first, you win.

Mega-Operation

Molecular Plant Sciences

Familiarize yourself with the human body by playing this giant-sized Operation table game.

Michigan Audubon "Egg"stravaganza

Molecular Plant Sciences

Join Michigan Audubon in learning about bird eggs and nests. Explore the hands-on egg display and learn about different types of nests.

Plant and People: Tasty Tidbits for a Better World

Molecular Plant Sciences

Learn about how plants make our world better by giving us food, medicine, and many other things.

Rain Cloud Groundwater Simulator

Molecular Plant Sciences

The Rain Cloud Groundwater Simulator is designed to help a younger or general audience understand the hydrologic cycle.

Space: It's Out of This World!

Molecular Plant Sciences

Learn about space. Explore constellations and design your own spacecraft.



TALKS, DEMONSTRATIONS AND PERFORMANCES

Saturday, April 4 10:30 AM - 11:30 AM

Chemistry Building, Room 138

Saturday, April 4 11:00 AM - 11:30 PM 12:00 PM - 12:30 PM 1:00 PM - 1:30 PM Chemistry Building, Room 126

Saturday, April 4 11:00 AM - 12:00 PM

Biomedical and Physical Sciences, Room 1410

Saturday, April 4 11:00 AM- 12:00 PM

Biomedical and Physical Sciences, Room 1415

Saturday, April 4 11:00 AM - 12:00 PM

Chemistry Building, Room 136

Saturday, April 4 11:00 AM - 12:00 PM Anthony Hall,

Anthony Hall, Room 1281

Amazing Astronomy and Fantastic Physics

Explore the cosmos through interactive, large-scale, science demonstrations.

Budget Like a Boss

Learn the math behind an effective budget.

Counting the Uncountable: Measuring the Diversity of Earth's Invisible Species

Learn about the diversity and abundance of microorganisms on the planet, and techniques scientists use to study organisms they can't actually see.

Everything You Know About Mass is Wrong

Come learn about how strange and counter-intuitive our current understanding of mass is.

Explore the Invisible World of Blood

Journey into your veins and learn what your blood is doing for you. Visualize the invisible components of blood that work hard for you every day.

Exploring the Invisible Aspects of Urban Trees Using Lasers: What We Learn From Ghost Pictures

Did you know lasers help us learn about urban trees? Come and see 2 types of lasers being used to help study urban trees.

Saturday, April 4 11:00 AM - 11:30 AM

Biomedical and Physical Sciences, Room 1420

How Could Computational Modeling Help You Plan a Hiking Path on Mt. Rainier?

Explore computational modeling and every day scenarios with this brief introduction.

Saturday, April 4th 11:00 AM - 11:30 AM

Molecular Plant Sciences, Room 1200

How Do We Keep the Fish We Eat Healthy?

Learn about aquaculture, the fastest-growing animal food-producing sector in the world. What are researchers doing to help farm healthy, tasty fish?

Saturday, April 4th 11:00 AM - 12:00 PM

Abrams Planetarium, Sky Theater

Our Ancestors: The Evolution of Stars

Join me during a cosmic trip to learn about the evolution of stars and meet our true ancestors.

Saturday, April 4 11:30 AM - 12:00 PM

11:30 AM - 12:00 P FRIB. Auditorium

Safe Control of Self-Driving Cars

What challenges do engineers face to assure safety of self-driving cars? Come engage to learn how engineers are navigating these challenges.

Saturday, April 4 12:00 PM - 12:30 PM

Molecular Plant Sciences, Room 1200

Burning Forests to Save Forests

Dress in wildland-fire gear and participate in an activity that explains how professionals safely light forest fires to save fire-dependent species.

Saturday, April 4 12:00 PM - 1:00 PM

Chemistry Building, Room 138

Is It Magic...or Chemistry?

Good magicians never reveal their secrets, but good scientists always explain the science behind their tricks. Learn the science behind the magic.

Saturday, April 4 12:30 PM - 1:30 PM

Chemistry Building, Room 136

How We See 23&Me

Talk with MSU geneticists about personal genome sequencing technology like 23&Me. Learn how they work, where they're going, and what it means for us.

Saturday, April 4 12:30 PM - 1:30 PM

Biomedical and Physical Sciences, Room 1415

Saturday, April 4 12:30 PM - 1:00 PM Anthony Hall, Room 1281

Saturday, April 4th 12:30 PM - 1:00 PM FRIB. Auditorium

Saturday, April 4 1:00 PM - 2:00 PM Biomedical and Physica

Biomedical and Physical Sciences, Room 1410

Saturday, April 4 1:00 PM - 2:00 PM

Molecular Plant Sciences, Room 1200

Saturday, April 4 1:00 PM - 1:30 PM

Biomedical and Physical Sciences, Room 1420

Saturday, April 4 1:30 PM - 2:30 PM

Chemistry Building, Room 138

Saturday, April 4 1:30 PM - 2:00 PM 2:00 PM - 2:30 PM 2:30 PM - 3:00 PM Abrams Planetarium, Sky Theater

News from the Underground & the Magic of Mycelium

See the unseen—mycelium and its root purpose here on Earth.

Science! The Musical

A mash-up of technology, dance, and you!

The Invisible Color Force That Binds Us (and Makes Us Heavy)

Come learn about mysterious color force that creates more than 90% of your weight and holds together the nucleus of every atom. No PhD required.

Exciting Electromagnetism

Come and see a large set of exciting physics demonstrations about electricity and magnetism.

So You Want to Be a Game Designer?

Attendees will learn about the ins and outs of the video game industry and how to get a job making video games.

When Robots Deliver Pizza...

Experience the future city when we rely on autonomous vehicles and systems to manage our daily lives.

MSU Science Theatre Presents: The Newtonian Physics Show

Join Science Theatre as they show how to make a beach ball fly, a racquetball shatter, and other fun physics topics in this silly interactive show.

Night Sky in Lansing

Check out what is up in the night sky in our digital planetarium.

Saturday, April 4 1:30 PM - 2:00 PM FRIB. Auditorium

The Spartan Dischords Present:
The Magnetism of Music

Michigan State's premier all-male acapella group presents a short performance that encompasses today's and yesterday's pop songs--with science jokes!

Saturday, April 4 2:00 PM - 2:30 PM 3:00 PM - 3:30 PM Chemistry Building,

Room 126

Michigan State Solar Racing Team: Electric Vehicles on the Road

The MSU SRT team designs, builds, and race solar-powered electric vehicles. Learn about their first multi-passenger vehicle.

Saturday, April 4 2:00 PM - 2:30 PM

Biomedical and Physical Sciences, Room 1420

NanoTB Test

Come learn about the faster and cheaper way to diagnose tuberculosis, the new nanoTB test.

Saturday, April 4 2:00 PM- 2:30 PM

Chemistry Building, Room 136

New Ways of Delivering Education: Facilities Planning on Campus

Learn about the new way MSU plans and designs its facilities to create new spaces for students and faculty to collaborate and innovate.

Saturday, April 4 2:00 PM - 2:30 PM

Biomedical and Physical Sciences, Room 1415

Towards the Circular Economy: The Use and ReUse of Plastic Materials

Learn the new and established technologies that improve the sustainability of the plastics.

Saturday, April 4 2:30 PM - 3:30 PM 4:30 PM - 5:30 PM

Anthony Hall, Room 1281

★ Coding to the Moon: Margaret Hamilton and the Apollo Missions

This gripping, live play tells the story of the Apollo Space Missions from the perspective of NASA computer scientist, Margaret Hamilton.

Saturday, April 4 2:30 PM - 3:00 PM 3:30 PM - 4:00 PM

Biomedical and Physical Sciences, Room 1410

Saving the Bees, One Garden at a Time

Learn about the various native bees that live in Michigan and how your own patch of land can be adapted to support bees and other pollinators.

Saturday, April 4 2:30 PM - 3:00 PM 3:30 PM - 4:00 PM

Molecular Plant Sciences, Room 1200

Why the Amazon is More 'The Heart' Than 'The Lungs' of the Earth and How We Can Preserve Its Life-Sustaining Function

Join us as we explore the wondrous Amazon rainforest, how to preserve it, and share experiences like climbing into 160 foot tall trees for research!

Saturday, April 4 3:00 PM - 4:00 PM

Chemistry Building, Room 138

Science That You Can't Do At Home

Watch as Science Theatre presents all of the exciting science demos that you can't do at home--including a flame tube, bed of nails, and others.

Saturday, April 4 3:00 PM - 4:00 PM

Abrams Planetarium, Sky Theater

Seeing Stars: How Birds Use the Night Sky to Navigate

How do birds know where to go when they migrate? Learn how birds use the stars to navigate throughout their journey.

Saturday, April 4 3:00 PM - 4:00 PM

Biomedical and Physical Sciences, Room 1415

Seeing Thoughts and Feelings

New optical technologies enable us to watch the brain in action.

Saturday, April 4 3:00 PM - 4:00 PM

Chemistry Building, Room 136

Superheroes Curing the Big Bad Sickness

Come hear about the rise of our double superheroes, combining their strengths in both science and medicine to solve some of the biggest sicknesses.

Saturday, April 4 3:00 PM - 3:30 PM

Biomedical and Physical Sciences, Room 1420

Your Brain on Sleep

Learn about sleep and how it can help and hinder vour memory.

Saturday, April 4th 3:30 PM - 4:00 PM

FRIB, Auditorium

Wooden Skyscrapers?: MSU's 'Mass Timber' Building

See an ecologist's view of MSU's STEM Teaching and Learning Facility and mass timber construction. Learn how carbon/climate are taken into consideration.

Thursday, April 9 4:00PM - 5:00 PM

Engineering Building, Room 1345

Almost Anything Made From Petroleum Can Be Made With Wood

The future is wood. With passion and precision Donna Cassese elevates Maine's paper industry as the future of innovative and inventive design. Part of the Forest Paths Distinguished Speaker Series.

Saturday, April 11 11:00 AM - 11:30 AM

MSU Museum, Auditorium

BeLEAF It or Not!

Enjoy a fun-filled video series on forests and forestry. Michigan's forests offer economic, environmental and social benefits. Have fun learning about these forests through the BeLEAF It or Not video series.

Saturday, April 11 12:00 PM - 1:00 PM

MSU Museum, Auditorium

Fins to Limbs: How Our Ancestors Left the Water and Came Onto Land

Explore fossils and learn how our fish ancestors transformed their fins into limbs and conquered the land.

Saturday, April 11 3:00 PM - 3:30 PM

MSU Museum, Auditorium

Super Bugs-From the Public Health Lab!

Hear about the microscopic menace to society called Super Bugsl Learn about antibiotic resistant bacteria and the heroic efforts to contain them.

Saturday, April 11 4:00 PM - 4:30 PM

MSU Museum, Auditorium

Plant Pharmacy: Why Plant Defenses are Valuable to Us

Plants make chemical defenses to deal with harsh conditions. These chemicals are not made with humans in mind: however we use them as medicines.

Thursday, April 16 7:30 PM - 8:30 PM Abrams Planetarium

Abrams Planetarium, Sky Theater

Big Astronomy: How the Observatories in Chile Keep Working

Join the director of the Abrams Planetarium for a virtual tour of the observatories in Chile and meet some of the people that make it all happen.

Saturday, April 18 11:00 AM - 11:30 AM

Abrams Planetarium, Sky Theater

Saturday, April 18 12:00 PM - 12:30 PM

Abrams Planetarium, Sky Theater

Saturday, April 18 1:00 PM - 2:00 PM 3:00 PM - 4:00 PM

Biomedical and Physical Sciences, Room 1415

Saturday, April 18 1:00 PM - 1:30 PM

Abrams Planetarium, Sky Theater

Saturday, April 18 5:00 PM - 6:00 PM

Kellogg Center, Heritage Room

Tuesday, April 21 3:00 PM - 7:00 PM

MSU Museum, Lobby

Science In Spaaaaace

Come learn about the different space stations throughout history and the 200+ experiments happening in space right now.

How Falcons Help Farmers and Farmers Help Falcons

Fruit farmers can attract North America's smallest falcons--kestrels--to Michigan with nest boxes. Learn how kestrels and farmers help each other.

Energy In Motion with Curious Crew

Kinetic energy is energy in motion. Join WKAR's Curious Crew in investigating the science behind kinetic movement by making spool racers.

Molecules at the Movies

Come see small molecules on the big screen. Learn about proteins, DNA, membranes, and more, in movies made for the dome screen at Abrams Planetarium.

Knockout Anatomy

Learn the anatomy behind various martial arts maneuvers and practice the techniques yourself. Leave with a better appreciation of our vulnerability.

Signs of Life: New Directions in Biodiversity Collections Research. An Interdisciplinary Symposium.

Learn how natural science collections, supplemented by citizen science, are contributing to important scientific research and teaching at MSU.

Friday, April 24 7:00 PM - 8:00 PM

Auditorium, Concert Auditorium

★ Visualizing the Invisible: A Talk with Dr. Sian Proctor, Analog Astronaut

Dr. Sian Proctor will take you on her personal journey as a geoscientist, explorer, finalist for the NASA Astronaut Program, and analog astronaut.



Friday, April 3 1:00 PM - 3:00 PM

Main Library, Beaumont Instruction Room, 2nd Floor, West Wing

Friday, April 3 6:00 PM - 9:00 PM

Woldumar Nature Center 5739 Old Lansing Road Lansing, MI 48917

Saturdays, April 4, 11, 18, 25 Sundays, April 5, 19, 26 10:00 AM - 4:00 PM

Horticulture Gardens Indoor 4-H Children's Garden, Butterfly House

Sunday, April 5 11:00 AM - 4:00 PM

W.K. Kellogg Biological Station 12685 East C Avenue Augusta, MI 49012

Friday, April 10 11:00 AM - 11:50 AM

Center for Integrated Plant Systems Building, Room B2A

Women in Science Wikipedia-Edit-a-Thon

Join the MSU Libraries to learn how to edit and contribute to Wikipedia. We will create and edit articles to improve coverage of women in science.

Campfire Science Night

Gather around the campfire for a fun evening of chemistry demonstrations, flashlight hikes, and exciting hands-on activities.

MSU Indoor 4-H Children's Garden Open House

Watch and marvel as butterflies flutter and fly about the Indoor 4-H Children's Garden.

Sustaining the Vision Open House at the Kellogg Biological Station

Explore the grounds of the Kellogg Bird Sanctuary—for free—in honor of our benefactor W.K. Kellogg's birthday.

Tour of the Center for Advanced Microscopy

A view of the microscopic world using the newest and most advanced microscopes in the world.

Friday, April 10 2:00 PM - 2:30 PM 2:45 PM - 3:15 PM

MSU Museum, Collections Connections

Skeletons, Jaws, and Jars: A Tour of the MSU Museum Vertebrate Collections

Pre-registration required.

Take a behind-the-scenes tour of our collections, where 117,000 specimens of mammals, birds, reptiles, amphibians, fishes, and fossils are housed.

Saturday, April 11 9:00 AM - 5:00 PM

Biomedical and Physical Sciences Building, Room 1415

MSU Observatory Turns 50 (Workshop)

A workshop celebrating observational astronomy in Michigan. Drop by to learn about the work local astronomers are doing.

Saturday, April 11 9:00 PM - 11:00 PM

MSU Observatory, Atrium

MSU Observatory Turns 50 (Stargazing)

Come celebrate MSU Observatory's 50th Anniversary with night-sky viewing through our telescopes. Weather dependent—skies must be clear.

Saturday, April 18 9:00 AM - 1:00 PM

Corey Marsh Ecological Research Center 9422 Herbison Road Laingsburg, MI 48848

Saturday, April 18 10:00 AM - 1:00 PM

Institute for Quantitative Health Science and Engineering, Lobby

Ecology and More Extravaganza Tour

Come get outdoors for a self-guided tour of the Corey Marsh Ecological Research Center.

Pioneering Biomedical Research with IQ (Tour the Institute for Quantitative Health Science and Engineering)

Hands-on activities, demonstrations and tours of lab spaces usually closed to the public.

Saturday, April 18 10:00 AM - 5:00 PM

Natural Sciences Building, Room 147

Tour and Explore the World of Insects at the MSU Bug House

At the MSU Bug House you can see our displays of insects from around the world, and see, touch and hold our live insects, scorpions, and tarantulas.

Saturday, April 18 10:00 AM - 6:00 PM

Lansing Makers Network 2400 W. St Joseph Highway Lansing, MI 48915

Tour the Makerspace

Come tour the Lansing Makers Network, a site devoted to creative collaboration that combines technology, art, and community.

Saturday, April 18 11:00 AM - 12:15 PM

Eustace-Cole Hall, Entrance

Visualizing the Invisible: Architecture on East Campus

Meander with AIA architects from Eustace-Cole to the Broad and visualize the invisible: history, structure, phenomenology, imagination, technology.

Saturday, April 18 12:00 PM - 4:00 PM

Biomedical and Physical Sciences, Atrium

Neuroscience Fair

Learn about the nervous system by engaging in hands-on activities, including touching human brains, performing a cow eye dissection, undergoing "mind control," playing games, learning about research opportunities on campus, finding out how to protect your brain, making neuroscience-themed crafts, and more.

Saturday, April 18 12:00 PM - 4:00 PM

Biomedical and Physical Sciences, Atrium

We Have Heart!

Explore the anatomy and physiology of the heart with REAL organs and have your EKG measured.

Saturday, April 18 12:30 PM - 1:15 PM 2:00 PM - 2:45 PM

Beal Botanical Garden, Main Library Entrance

Poisonous Plants in Your Yard

Explore this introduction to our common toxic plants for people and our pets.

Saturday, April 18 1:00 PM - 4:00 PM

Plant Biology Laboratories, Room 151

A Bountiful Branch of Botany: Tours of the MSU Herbarium and Teaching Conservatory

Enjoy rare tours of the MSU Herbarium and Plant Biology Teaching Conservatory, showcasing plants from around the world.

Saturday, April 18 1:00 PM - 2:00 PM 3:00 PM - 4:00 PM

Broad Art Museum, Lobby

MSU Broad Art Museum: Never Spoken Again Tour

Take part in a free drop-in tour at the MSU Broad Art Museum.

Saturday, April 18 1:00 PM - 4:00 PM

Main Library, Digital Scholarship Lab, 2nd Floor, West Wing

MSU Library Open House Digital Scholarship Lab: Online Privacy, Virtual Reality, and Immersive Visualization

Learn how to protect your privacy online, and immerse yourself in a VR headset, or group up in our 360-degree visualization room.

Saturday, April 18 1:00 PM - 4:00 PM

Main Library, MakeCentral, 2nd Floor, West Wing

MSU Library Open House Makerspace: What's a Makerspace?

Explore all kinds of makerspace technologies, including 3D printing, Raspberry Pi project demonstrations, circuit-making, laser cuts, and more.

Saturday, April 18 1:00 PM - 4:00 PM

Main Library, Map Library, 2nd Floor, East Wing

MSU Library Open House Map Library: Compass and Map Navigation

Learn the difference between magnetic vs. true north, how to read map symbols, and how to take a compass bearing while exploring the MSU Map Library.

Saturday, April 18 1:00 PM - 4:00 PM

Main Library, Special Collections Classroom, Lobby

MSU Library Open House: Botanical Gems

Rare books containing preserved plant specimens are extremely fragile and light-sensitive, so they rarely come out of the vault. Today you can see them in person.

Saturday, April 18 1:00 PM - 4:00 PM

Main Library, 2nd Floor East Wing

MSU Library Open House: Make Your Own Book

Make a book with a single sheet of paper, like artists do. Even the youngest will enjoy this creative activity.

Saturday, April 18 1:00 PM - 4:00 PM

Main Library, Special Collections Entrance Area, Lobby

MSU Library Open House: Print Your Own Science Festival Bookmark

Experience the history of printing technology. Make your own bookmark on a 1901 Ostrander Seymour iron printing press.

Saturday, April 18 1:00 PM - 4:00 PM

Main Library, Special Collections Gallery

MSU Library Open House: Rare Books of **Animals and People Working Together**

Rare books on falconry, equestrian history, working dogs, livestock breeding, and much more

Saturday, April 18 1:00 PM - 4:00 PM

Main Library, MakerSpace, 2nd Floor, West Wing

MSU Library Open House: Seed Library

Come and see MSU's new seed library and learn about gardening with heirloom plants. Take some soil and seed starts to grow at home.

Saturday, April 18 1:00 PM - 1:30 PM 3:00 PM - 3:30 PM

Scene Shop, Entrance

MSU Theater Scene Shop Tour

Enjoy a brief tour of the theater scene shop and talk on how theater shows get built.

Saturday, April 18th 1:00 PM - 1:30 PM 1:30 PM - 2:00 PM 2:00 PM - 2:30 PM

Bailev Hall, GREENhouse

Tour Bailey Greenhouse and Urban Farm: A Student Run Learning Center

Tour the small student-run organic farm that resides within Brody Neighborhood. Among many other things, we vermicompost, grow hops, and raise bees.

Saturday, April 18 1:00 PM - 2:00 PM

Baker Woodlot, Entrance

Vernal Pools in MSU's Baker Woodlot: **Our Spring Wake-up Call!**

Vernal pools are much more than mud puddles. They're our first sign of life in spring. Come tour one of these special features in MSU's Baker Woodlot.

Saturday, April 18 1:30 PM - 2:00 PM 2:30 PM - 3:00 PM

Landscape Services Building, Lobby

Tour Arboriculture at MSU

Tour the Landscape Services facility and see some of the equipment and tools we use to maintain the trees on MSU's campus.

Saturday, April 18 2:00 PM - 2:30 PM 2:45 PM - 3:15 PM

Surplus Store and Recycling Center, Materials Recovery Facility

MSU Recycling: Behind the Scenes Tour

Join us for an inside look at MSU's material recovery facility, where we process over 8 million pounds of recyclables annually.

Saturday, April 18 2:00 PM - 2:50 PM

National Superconducting Cyclotron Laboratory, Lecture Hall

Saturday, April 18th 2:15 PM - 3:00 PM 3:15 PM - 4:00 PM

South Campus Anaerobic Digester, Research and Education Center

Saturday, April 18 2:15 PM - 3:00 PM

Abrams Planetarium, Sky Theater

Saturday, April 18 3:15 PM - 4:00 PM

Beal Botanical Garden, Main Library Entrance

Saturday, April 18 9:00 PM - 11:00 PM

Observatory, Atrium

Sunday, April 19 12:00 PM - 4:00 PM

Harris Nature Center 3998 Van Atta Road Okemos, MI 48864

Wednesday, April 22 9:00 AM - 5:00 PM

MSU Museum, Science on a Sphere Gallery

Tour the National Superconducting Cyclotron Laboratory

Visit the world-class rare isotope research facility in the heart of MSU's campus.

MSU Anaerobic Digester Tour

Tour MSU's poop to power facility.

Nuclear Science from a Whole New Angle: Virtual Tour of the NSCL and FRIB

Take a "virtual tour" of the world-class rare isotope facilities NSCL and FRIB.

Wild Plant Foods and the Salad Bar of Spring

This tour of the Beal Botanical Garden showcases the edible plants that comprise spring wild vegetables.

Public Observing at MSU Observatory

If the weather is clear, we'll be open for stargazing with our 24-inch telescope and additional smaller scopes.

Explore Harris Nature Center Open House

Explore nature in the HNC Nature Exploration Area. Pick up an activity sheet and then have fun completing challenges at each play feature.

Celebrate Earth Day on Science on a Sphere at the MSU Museum

Join us to celebrate the 50th anniversary of the first Earth Day through dynamic public programs on Science on Sphere at the MSU Museum.

NIGHTS AT THE MUSEUMS

Visit a museum near you to discover the wonders of STEAM!

Tuesday. April 14 5:00 PM - 8:00 PM

MSU Broad Art Museum, Lobby

Tuesday, April 14 5:00 PM - 8:00 PM

MSU Museum, Entry Hall

Tuesday, April 14 5:00 PM - 8:00 PM

MSU Museum, Entry Hall

Thursday, April 16 5:00 PM - 7:30 PM

Impression 5 Science Center 200 Museum Drive Lansing, MI 48933

Thursday, April 16 5:00 PM - 5:30 PM

Impression 5 Science Center 200 Museum Drive Lansing, MI 48933

MSU Broad Art Museum Night at the Museums

An evening of science + art inspired activities jointly hosted by the MSU Museum and the MSU Broad Art Museum.

MSU Museum Night at the Museums

An evening of science + art inspired activities, jointly hosted by the MSU Museum and the MSU Broad Art Museum.

The Roc at MSU: What Can We Learn From a Skeleton?

The Roc is MSU's new skeletal replica of the largest-ever bird. We will explore their biology and the themes of convergent evolution and extinction.

Impression 5 Night at the Museum

Explore the science center and hands-on activities, including PLAY, a temporary exhibit highlighting the different games designed by MSU students!

WILX-TV Channel 10 Live Weather Forecast from Impression 5 Science Center

Experience a live weather remote forecast from WILX-TV meteorologist and on-air personality, Andy Provenzano.

Thursday, April 16 7:00 PM - 9:00 PM

Great Lakes Maritime Heritage Center 500 West Fletcher Street Alpena, MI 49707

Earth Is Blue: A Closer Look at National Marine Sanctuaries in A Night at the Thunder Bay National Marine Sanctuary

Enjoy a selection of short films about science and exploration across the 14 sites within the National Marine Sanctuary System.

Friday, April 17 5:00 PM - 8:00 PM

Potter Park Zoological Society 1301 S. Pennsylvania Avenue Lansing, MI 48912

Potter Park Zoo: An Evening of Awesome, Interactive Experiences at a Living Museum

Join Potter Park Zoo staff, zookeepers, and volunteers for an exciting night of science as we explore the natural world and the animal kingdom.

Thursday, April 23 5:00 PM - 8:00 PM

Michigan History Center 702 W. Kalamazoo Street Lansing, MI 48915

Secret Lives of Michigan Objects at Michigan History Center

Meet the "secret agents of deterioration" and learn how to slow them down through hands-on experiments for all ages.

Thursday, April 23 6:00 PM - 7:00 PM

Michigan History Center 702 W. Kalamazoo Street Lansing, MI 48915

The Building Blocks of Matter: Atoms or LEGOs?

Build a LEGO Chart of Nuclides to discover the secrets behind nuclear behavior!

Saturday, April 25 8:00 AM - 12:00 PM

Belle Isle Aquarium 3 Inselruhe Avenue Detroit, MI 48207

The Great Global Cleanup--Detroit River at Belle Isle State Park

In celebration of Earth Day's 50th anniversary, please join The Belle Isle Conservancy at the Great Global Cleanup—Detroit River.

Saturday, April 25 10:00 AM - 4:00 PM

Yankee Air Museum 47884 D Street Belleville, MI 48111

Fly into Science: Discover the Unseen Mysteries of Flight at the Yankee Air Museum

Explore the "invisible" science that lies below the surface of a lake, behind the fuselage of a plane, or under the feathers of a bird's wing.

Saturday, April 25 1:00 PM - 6:00 PM

Charles H. Wright Museum of African American History 315 E. Warren Avenue Detroit, MI 48201

Saturday, April 25 1:00 PM - 6:00 PM

Charles H. Wright Museum of African American History 315 E. Warren Avenue Detroit, MI 48201

Thursday, April 30 6:00 PM - 8:00 PM

Air Zoo 6151 Portage Road Portage, MI 49002

How are Sea Lamprey Controlled?

The sea lamprey is an incredibly destructive invasive species, but the good news is they can be controlled. Come see real lampreys in person.

Science--Making It Happen at the Charles H. Wright Museum of African American History

Explore the science of making things happen. Turn possibilities into realities! Where will your quest take you?

An Evening at the Air Zoo

Enjoy hands-on science activities, flight simulators, amusement park rides, and much more during this free evening at the Air Zoo.



STATEWIDE ASTRONOMY NIGHT

Find a location near you to enjoy the wonders of the Universe!

Presentations and hands-on activities for everyone will vary at each location.

Friday, April 17 5:00 PM-8:30 PM

Kalamazoo Valley Museum 230 N Rose Street Kalamazoo, MI 49007

Friday, April 17 5:00 PM - 8:00 PM

Kingman Museum 175 Limit Street Battle Creek, MI 49037

Friday, April 17 6:30 PM - 11:00 PM

Hammond Planetarium at Henry Ford College 5101 Evergreen Road Dearborn, MI 48128

Friday, April 17 7:00 PM - 9:00 PM

Abrams Planetarium, Sky Theater

Friday, April 17 7:00 PM - 10:00 PM

Hurst Planetarium 3328 S Oakwood Drive Jackson, MI 49203

Looking into the Sky with New Eyes at Kalamazoo Valley Museum

Come to the Kalamazoo Valley Museum for hands-on activities, planetarium shows, and two speakers.

Statewide Astronomy Night at Kingman Museum

Join us in Battle Creek for hands-on Earth and space science experiences: planetarium shows, telescope demonstrations, and themed refreshments.

Astrophotography for Beginners and Advanced at Henry Ford College

Learn to image the sky with everything from a smartphone or DSLR camera through to deep-space astrophotography with telescopes.

Big Astronomy: People, Places, Discovery at Abrams Planetarium

See the world premiere of the show, Big Astronomy: People, Places, Discovery, and meet the production team.

Ella Sharp Museum's Hurst Planetarium: Our Shared Night Sky

Experience the Michigan night sky and explore the Universe from home. Join us at Hurst Planetarium for a sky tour followed by telescope observing.

Friday, April 17 7:00 PM - 10:00 PM

Saginaw Bay Visitor Center 3582 State Park Drive Bay City, MI 48706

Statewide Astronomy Night at Bay City State Park

Enjoy hands-on astronomy activities, a free visual presentation about backyard stargazing followed by night sky viewing.

Friday, April 17 8:00 PM - 10:00 PM

MSU Observatory 4299 Pavillion Drive Lansing, MI 48910

Statewide Astronomy Night at the MSU Observatory

Explore the Universe through telescopes and hands-on activities. Event takes place rain or shine.

Friday, April 17 8:30 PM - 11:30 PM

James C. Veen Observatory 3308 Kissing Rock Avenue SE Lowell, MI 49331

Statewide Astronomy Night at Veen Observatory

Visit the Veen Observatory for the Statewide Astronomy Night and learn more about the spring night sky.



SCIENCE CAFES AND PUBS

Our Café/Pub series brings scientists out of the laboratory and into your favorite café and bars.

Saturday, April 4 7:00 PM - 9:00 PM

The Grid Arcade & Bar 226 E César E. Chávez Avenue Lansing, MI 48906

Wednesday, April 8 7:30 PM - 9:30 PM

The Loft 414 E Michigan Avenue Lansing, MI 48933

Thursday, April 9 7:00 PM - 8:00 PM

UrbanBeat Event Center 1213 Turner Road Lansing, MI 48906

Thursday, April 9 8:00 PM - 10:00 PM

SpeakEZ Lounge 600 Monroe Avenue NW Grand Rapids, MI 49503

Monday, April 13 7:00 PM - 8:00 PM

Lansing Brewing Company 518 E Shiawassee Street Lansing, MI 48912

Monday, April 13 8:00 PM - 8:30 PM

Lansing Brewing Company 518 E Shiawassee Street Lansing, MI 48912

Beat the Scientist

Come listen to talks by the interviewees of The Sci-Files, while drinking beer for science and playing arcade games.

Astronomy on Tap

Astronomy is even better with beer. Come learn how scientists explore the universe at a bar near you.

Propagation Lab

Dig in and learn all about the benefits of working with plants and how you can grow your collection through propagation.

Grand Rapids Science on Tap

Join Grand Rapids Science on Tap for conversation, debate, and interaction between scientists and the public while drinking a beer.

Our Ancestors: The Evolution of Stars

Take a cosmic trip to learn about the evolution of stars and meet our true ancestors.

Night Sky in Lansing

Check out what's up in the night sky in the Abrams Planetarium portable dome.

Monday, April 13 8:30 PM - 9:30 PM

Lansing Brewing Company 518 E Shiawassee Street Lansing, MI 48912

Building Better Space Teams: Tracking Team Interactions, Conflict, and Attitudes in Space Mission Analogs

Getting along with others in a tiny mission base is hard! Thankfully, scientists are working on ways to maintain effectiveness in extreme teams.

Wednesday, April 15 7:00 PM - 8:00 PM

UrbanBeat Event Center 1213 Turner Road Lansing, MI 48906

News from the Underground and the Magic of Mycelium

See the unseen—mycelium and its root purpose here on Earth.

Monday, April 27 7:00 PM - 8:30 PM

Michigrain Distillery 523 E Shiawassee Street Lansing, MI 48912

Communication (Science) On Tap

Communication on Tap provides an opportunity for the community and communication researchers to discuss current work in an informal and fun setting.

Tuesday, April 28 7:30 PM - 9:30 PM

The Loft 414 E Michigan Avenue Lansing, MI 48933

Biology on Tap

Biology is best with beer! Free event featuring fun and informal presentations by local researchers and biologists. Prizes, trivia, and more!

FESTIVAL ACKNOWLEDGEMENTS

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MSU Science Festival

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Engineering

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Michigan Natural Features Inventory

Michigan State Bird Observatory

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MSU Child Development Laboratories

MSU Libraries

MSU Map Library

MSU Museum

MSU SciComm

MSU Solar Racing Team

National Superconducting Cyclotron Laboratory

Neuroscience Program

Residential Initiative on the Study of the Environment

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South Campus Anaerobic Digester and Education

Center

Spartan Dischords

STEM Society

Surplus and Recycling Center

University Outreach and Engagement

Women and Minorities in Physical Sciences

W.J. Beal Botanical Garden

W.K. Kellogg Bird Sanctuary

WKAR

Wharton Center for Peforming Arts

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Bay City State Park*

Belle Isle Conservancy*

Capital Area District Libraries

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(CIGLR)

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Ella Sharp Museum

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Grand Rapids Public Museum,

Planetarium*

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(MEDC)

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University of Michigan, Molecular and Integrative

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UrbanBeat Event Center

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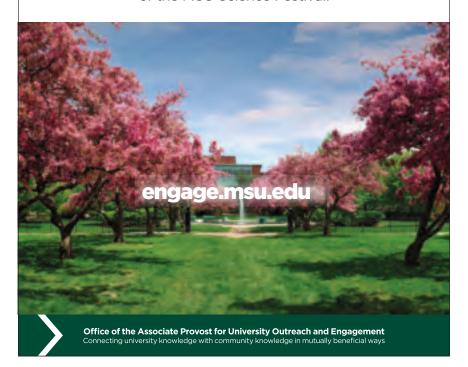


Collaborating with Communities Improving Lives

- Through -

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Thank you for your support of the MSU Science Festival.





Weekday Mornings

4:30am - 7am



YOUR BREAKING NEWS WEATHER AUTHORITY

The Facility for Rare Isotope Beams and the National Superconducting Cyclotron Laboratory are proud sponsors of the MSU Science Festival.

Our laboratory enables scientists to make discoveries about the properties of rare isotopes, the inner workings of atoms, and their role in the universe.





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Dean Transportation is proud to join the movement and support the Lansing Promise.







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We are pleased to support the 2020 MSU Science Festival











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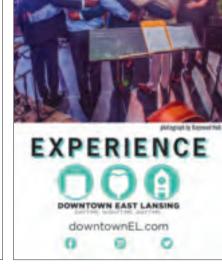


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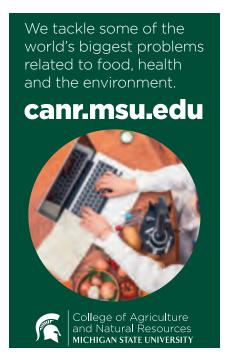
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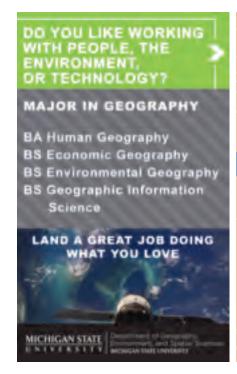




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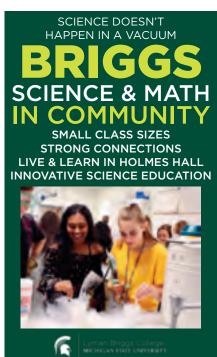




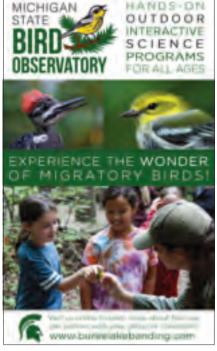














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Application deadline: May 7, 2020

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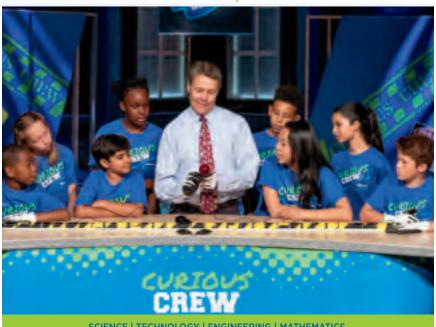
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