

aramco TRAVELING SCIENCE

PROGRAM CATALOG BY CATEGORY



Bring MiSci to you! Our Aramco Traveling Science educators bring engaging science festivals, workshops, presentations, and experiences to your school or event that will inspire learners to explore and appreciate STE(A)M.

SCIENCE FESTIVALS & FAMILY SCIENCE NIGHTS

Include 10 hands-on activity stations. Your school will need to supply a large space for the festival to take place, 11 tables and chairs, and 10-12 volunteers to facilitate the activities.

SCIENCEPALOOZA UP TO 3 OR 7 HOURS

Our most popular festival is getting an overhaul! Each interactive activity is paired with information celebrating a scientist or inventor from a diverse background to celebrate the amazing people who have shaped STEM history as we know it! Activity stations cover a variety of science, technology, engineering, and math concepts.

APOLLO ADVENTURE UP TO 3 OR 7 HOURS

Discover the wonders of the cosmos! Participants will use a variety of science and engineering practices to develop a deeper understanding and appreciation for space and space exploration.

Add-on our telescope experience for an even more engaging space-science event!

WWW.MI-SCI.ORG/TRAVELING-SCIENCE

Contact our team at Outreach@Mi-Sci.org, **313.577.8400, ext. 238**, or through our [online inquiry form](#) for additional information, pricing, and reservations.



The Michigan Science Center is a 501(c)(3) Nonprofit organization.



GROUP PRESENTATIONS

Assemblies are a great way to engage and educate groups of up to 250 people. Host us in a gymnasium, library, or large outdoor* venue for an interactive, assembly-style program featuring our biggest and best large-scale science and engineering demonstrations!

KABOOMISTRY

45-MINUTE PRESENTATION

Our most popular program! Why do things explode? Learn about the relationships between pressure, temperature, and fuel to explain why things go KA-BOOM! We'll mix physics and chemistry to get some loud, flashy effects.

**Must take place indoors*

EUREKA!

45-MINUTE PRESENTATION

Imagine where we would be without inventions such as the light bulb, microwave oven, or even our favorite toys. Join us as we explore the unexpected and amazing tales of how these everyday modern marvels came to exist and the brilliant minds behind them.

FROSTOLOGY

40-MINUTE PRESENTATION

Investigate how temperature relates to the movement of atoms and molecules in this exciting presentation. Utilizing liquid nitrogen (LN2) we'll see some 'cool' effects on solids, liquids and gases!

**Available November-March*

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HANDS-ON CLASSROOM WORKSHOPS

All hands-on workshops are 45-minutes in length unless otherwise noted and designed for up to 30 students per workshop.

MAGNETS

GRADES PRE K-2 (30-MINUTES)

Discover magnetism as we push and pull using magnets of all shapes and sizes. Students will make objects defy gravity, see a magnet made by electricity, and create their very own magnet art project!

STATES OF MATTER

GRADES K-5

Some substances blur the line between liquid and solid. Learn to define the states of matter and experience substances changing from one state to another. We'll get our hands into some slimy stuff to decide which state it is.

EGG-POLLO 11

GRADES 3-8

Put your engineering skills to the test as you design a carrier to safely land an egg on the moon! Learners will boldly go through the engineering design process to create a model simulation of the Apollo 11 moon landing.

COW EYE DISSECTION

GRADES 4-8

Students will work in pairs to perform a cow eye dissection under the direction of a trained MiSci staff member. We'll compare the cow eye to human eyes as we take a close look at its features and functions.

OCEANS ALIVE

GRADES 1-5

Dive head first into the watery depths as we explore the layers that make up our oceans! Students will discover the difference between ocean layers and what adaptations allow aquatic animals to call them home.

CURRENT EVENTS

GRADES 3-8

What is electricity and how does it flow? Observe the power of electricity and learn about its simplest form. Students will then build functional circuits by using potatoes as a power source.

**Available add-on: Digital Bling Station*

WIND TURBINES

GRADES 3-8

Participants will be challenged to maximize the amount of electricity generated by a wind turbine of their own design by changing the shape of its blades. Use problem solving skills to help increase the turbine's performance.

DIVING INTO DNA

GRADES 6-8

Participants will be able to describe what DNA is, where it's found and how it codes for traits. Everything living has DNA and students will be able to extract this genetic material from a variety of fruit.

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NEW! DISCOVERY DOME & PORTABLE PLANETARIUM

Sail around the night sky, explore Earth ecosystems, and travel to far off galaxies all from the comfort of your own building. Book the portable, inflatable Discovery Dome for interactive earth and space science presentations in an uniquely immersive environment.



WHAT'S UP? YOUR GUIDE TO THE NIGHT SKY GRADES K-5 / 30-MINUTE SHOW

Learn about the motion of the Sun, Moon, and stars as we investigate the dark sky objects we can see from our very own backyard. Each show includes a tour of stars, constellations, and planets for the evening of your program.

GLOBAL SOUNDSCAPES GRADES 3-8 / 30-MINUTE SHOW

What do sounds tell us about the health of our planet? Join us on an ear-opening journey into the science of sound and the emerging field of soundscape ecology in this interactive movie experience.

**Available starting fall 2022*

WORLDS OF WATER

GRADES 3-8 / 30-MINUTE SHOW

Are we alone in the universe? To answer that question, we explore the thing responsible for life: water! Start this intergalactic journey at Earth's oceans before traveling the cosmos in search of water. We'll even travel to exoplanets and discuss their potential to support life.

EXPEDITION SOLAR SYSTEM

GRADES 6-8 / 30-MINUTE SHOW

All aboard for a high-speed race to the edges of our Solar System! Travel from the International Space Station to the mountains of Mars, the rings of Saturn, and the heart of Pluto. Meet the fleet of NASA robots able to travel these vast distances.

**Available starting fall 2022*

SITE REQUIREMENTS:

The Discovery Dome can accommodate up to 30 people per show. Your site will need to provide:

- Quiet, indoor room
- Clean, swept floor
- Minimum floor space: 25 feet by 25 feet
- Minimum ceiling height: 12 feet
- 2 standard 120-volt electrical outlets

NOT SEEING WHAT YOU NEED?

Let us design a custom experience for your event! Contact us or fill out our [outreach inquiry form](#) to request information and pricing for a program that best serves your group's size, age range, theme, and event style. Looking for a virtual program? Visit www.mi-sci.org/echo to browse our online program catalog.

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