



# 2014 On-Site Field Trips ADULT DAY Programming

Unlike other field trips, Mad Science brings the adventure to *YOU!*

*Mad Science programming is fun and interesting for clients and staff!* These are the same quality Award-winning, hands-on STEM workshops aligned to Minnesota science education standards that were developed for kids, but these workshops have been specially adapted for Adult Day Program, Nursing Care and Memory Care Clients. Mad Science instructors understand the special needs of adult clients. They are flexible enough to adapt to your unique client culture on the spot to ensure that your group has a great experience appropriate to their needs. Most programs include a special project or gadget to take home.

**Length:** On-Site Field Trips are one hour unless otherwise noted.

**Price:**

\$149 (up to 20 clients)

\$169 (up to 25 clients)

**Discounts:**

\$10 discount per program if booking 5 programs at one time.

\$20 off if booking the same program back to back in the same space

Sign up for Mad Science eNews at [MN.MadScience.org](http://MN.MadScience.org) to catch insider

*Flash Sales and special deals!*

Travel charge applies for distances over 15 miles from Saint Paul. Take home projects subject to change.

Scroll down for [NASA Programs](#) developed exclusively by NASA in partnership with Mad Science!

Looking for other kinds of senior enrichment activities? Learn about Mad Science Grandparent/Grandchild Classes, Special Event Shows for open houses, and Activity Booths for family days at [MN.MadScience.org](http://MN.MadScience.org).



### All about Animals

Hear the call of the wild as you test your ability to identify animal sounds. Learn about the habitats and natural adaptations of animals, including camouflage. Try your hand at animal classification and make your own animal track to take home.

### Bugs!

Explore the world's most abundant animals! How do insects defend themselves? What is their role in the ecosystem? These questions and more are answered with fun, hands-on activities to further investigate these fascinating creatures! You will get to observe a giant preserved Lubber grasshopper and then take home a plastic "bug eye".

### Dinosaurs

Discover how these huge reptiles lived, what they ate and what may have caused them to disappear. As paleontologists, take part in a simulated dinosaur dig. Take home a cast of a Tyrannosaurus Rex tooth.

rev. 12/10/14

### Dry Ice Capades

Explore the three states of matter. Turn water to ice in 30 seconds, build a giant bubbling potion, hear the screaming scissors, and create the same awesome smoke illusions used in the movies. Take home your own thermo-chromatic "Cool" cup.



### Glow Show

Probe the properties of light and explore applications of glow-in-the-dark technology! Discover amazing things that glow brightly in the dark and watch chemiluminescence as two liquids mix to create light! Have at-home fun in the dark with your Glow Sheet!

### Harnessing Heat

Learn how the movement of microscopic molecules produces heat. Investigate how thermometers work. Experience an experiment that will show you that the hot and cold we feel is relative. Experiment with materials that transfer heat at different rates. Continue science exploration at home with the Mad Science Heat Sheet.

### Mineral Mania *Adult Program Favorite!*

Watch as rocks and minerals glow under an ultraviolet light. Learn about mineral formation and how to identify different types of minerals. Enjoy the surprise when we crack open a geode. Search for minerals in class and start your own collection with what you find!



### Life in the Sea

Go under the sea and discover the complex world of ocean ecosystems and the plants and animals that live there. Take home a 3-D Sea Creature Puzzle.

### Optical Illusions

Seeing is not always believing! Learn about optics, reflection and sight. This class will motivate you to discover the secrets behind the art of illusion. Build your own Mad Science periscope.

### Radical Robots *Adult Program Favorite!*

Operate different robots that use a variety of sensory devices, such as infrared, sound or light detection. Operate a robot with six legs or one with wheels and command a robot to play soccer. Try out a robotic arm and build your own Mechano-Hand to take home.



### Science of Magic

Is it Magic? No...it's Science! Sworn to secrecy, you'll learn the science behind some great magic tricks. Can you escape Houdini's chains? Watch a rabbit, a handkerchief, water, and other items disappear right before your eyes. Science of Magic is so much fun, the hour seems to just disappear. Take home a couple of magic tricks.

### Science of Toys

Children discover the science behind classic toys! Experiment with a walker, gears, magnetic gyro wheel, circuit toy and more. Take home a Mad Science yo-yo that uses linear and angular momentum at the same time!



### Slime Time

How can something so slimy be so much fun? Explore the resilient world of polymers and their unusual properties while taking part in a series of slimy experiments. Enter the lab and concoct your own slime to take home.

### Sonic Sounds

Sound travels in waves and lots of fun experiments prove it. Make an ordinary clothes hanger sound like a giant gong. Transform your voice into something you have never heard before.

### Walloping Weather

Learn why certain cloud types form; combine the right ingredients to make a cloud inside a bottle.

Discover the power of air pressure and lightning. Use thunder tubes to create thunder sound waves. Take home your personal Sun Beads UV ray detector.

### Where's The Air?

Air is everywhere. We can't see it, taste it, or hold onto it but you will understand first hand that it is a powerful invisible force. Imagine crushing a soda can with air power. Test what happens to a marshmallow when you place it in a vacuum. Take home an air powered rocket.



# Programs

*Developed exclusively for Mad Science by NASA Scientists!*

### Planets & Moons - NASA Workshop

Explore the farthest reaches of our solar system and create a lunar eclipse in this "mad" planetary tour! Learn how the planets stack up.

### Sun & Stars - NASA Workshop

This stellar program is your ticket to the stars! Watch star dust burn, and journey through a soapy galaxy as you investigate the life cycle of stars!