

STEAM Day Scientists Roster

ADRIENNE DARHOWER

I am an Emergency Room Doctor and the mom of a THES Kindergartener. I take care of kids every day who are sick or who have been injured. Come to my YSD session and we'll learn about germs, how to take care of broken bones and cuts and what our brains, lungs, and hearts look like!

GREG CLARK

I am a plant scientist at UT Austin. I have been studying how plants respond to signals for over 30 years. My lab does experiments in space on how plants respond to gravity as well as experiments in the greenhouse on how plants can grow better and faster in challenging conditions. I love the thrill of discovery and also love to share stories of discovery with students.

How Plants Move, Shake, and Talk

Plants have wondrous and unexpected abilities to sense stimuli and "talk" with each other and with animals. My presentation will discuss these abilities and show time-lapse photography of plant growth. Come discover how plants sense and respond to their environment and what kind of language plants use to communicate. See what happens when plants "talk" to animals.

CARTER COBERLY

I have worked as an electrical engineer and software developer for almost 40 years. My skills include designing electronic circuitry, developing software, and managing design projects from an idea to a completed product.

Why might you want to become an electrical engineer?

I'll discuss a brief history of electricity, when it was first used by mankind and how it has evolved over time. I'll also talk about the variety of work areas that a student might pursue as an electrical engineer and what skills a student will need.

KIM O'DRISCOLL

I am a licensed psychologist who educates my clients on the science of our minds and bodies and teach them how to identify emotional feelings, track sensations, notice thoughts that pop into our heads that aren't helpful, and learn new ways to cope with daily life and challenges.

The Mysterious Science of Sleep

In this presentation, Thunderbirds will learn about something we all do every day—sleep! What happens to the body during sleep? What are the effects of sleep deprivation? What helps us fall asleep with ease? We will also explore one of the coolest things about sleep, our dreams!

DENNIS BALDWIN AND MARISA VICKERY

I've enjoyed tinkering with radio controlled robots since I was a kid. I studied electrical engineering in college and fell in love with software after school. Since then, I've been using software to control robots in the air, known as "drones". My colleague, Marisa is a teacher in

Dripping Springs and loves to teach her students about Drones too.

In this talk, I will cover some fun and interesting things that can be done with drones. I'll demonstrate the process of shooting a 360 degree aerial panorama and viewing it in virtual reality with goggles. I'll also give the students an interactive challenge to solve using a drone.

JENNIFER MARTIN

I have been a veterinarian for 21 years. I work on small animals only- dogs, cats, and pocket pets. My favorite part of the job is doing Oral surgery. Pets need dental care, too!

Diagnosing Your Pet Using the Microscope

By looking at samples under the microscope, veterinarians figure out what is wrong with your pet. We will look at parasites, infections and abnormal cells.

TONI WAKEFIELD

I am a Pediatrician at Dell Children's Health.

How Does that Air Get in There? How your Lungs Work

Learn about the way your lungs work, and what happens to them when they get sick. We will use hands on models to see how air flows into your body, and talk about ways you can keep healthy.

DERMOT O'DRISCOLL

My company, ARM designs the brains (CPU) of almost every electronic toy you buy. iPhones, iPads, games, machines, Fitbits, TVs. I am lucky enough to get to work on the technology at the heart of those toys!

A visual and Interactive Tour of How Computers Work and How they Came to Be

Ever wonder what goes behind the screen of your favorite toy? This presentation will explain how the first computers came to be, how HUGE they were, and how engineers made changes through the years to change them from something as big as a building to make them so small they can fit into the palm of your hand!

NATHALIE MISSEREY-BIGGIE

I am the President and Founder of the Hays County Beekeepers Association, I am also the Vice-President of the Travis County Beekeepers Association, and I am in the Advanced Level of the Texas Master Beekeeper Program. My passion is to educate people on bees, beekeeping, and products of the hive, as well as motivating new generations to get into sustainable, natural beekeeping.

SCOTT FISHER

You probably call him "The Weatherman", but he's the chief meteorologist from FOX 7 right here in Austin. He forecasts the weather on TV, and also at all the UT Football and Basketball games.

Weather and Story Telling

Students will learn about the radar and how it works to forecast the weather. I'll also show you some things I do at work.

STEAM Day Artists Roster

BEN APPL, CERAMICIST & INSTRUCTOR AT ACC

In this hands-on workshop, students will work with artist and THES parent, Ben Appl, to paint and glaze small pendants that will be made and fired using the Raku firing process! CAUTION: HOT!

AIMEE BLASÉ, GRAPHIC DESIGN

Learn the principles of visual communication and how it uses the art of typography, illustration and photography to get a message across to the public.

LESLIE BONNELL, FABRIC & SEWING ARTIST & INSTRUCTOR

Learn to make your own fabric covered buttons with crafty maker Leslie Bonnell. Choose from lots of fun fabric prints, make your button, and turn it into a cool fridge magnet, ponytail holder, pin or finger ring.

MELISSA BOWMAN, SEWING CRAFTS

Learn some sewing basics to do a fun project that you will can take home!

TIM DERRINGTON, ARCHITECT

Ever wondered how a building or house is created? You start with an idea and work with an architect who helps to map out that vision for you through design and planning. Come help “build” something together with local architect, Tim Derrington.

VALENTINA DORSA, PAINTER

As an artist and mother I like to use materials that are all around us and easy to get hold of. Come experiment with masking tape, sharpie, spray paint and acrylic sprays to create wonderful abstract art pieces of your own!

SOO LEE-SPAW, POTTER & PRINTMAKER

Learn about paper and printmaking with a fun hands-on project made with objects that you can easily find around your home. Get inky with Soo to make a plate and pull a print to take home!

KATE MEEHAN, THEATRE

Learn all about theatre masks and movement workshop that are both fun for kids and adults!

ALLISON ORR, CHOREOGRAPHER AND FOUNDER OF FORKLIFT DANCE COMPANY

Learn the building blocks of dance-making. In this workshop, Allison Orr, will show you how to make your own one-of-a-kind solo dance. Leave the workshop with your own dance ready to perform for an audience.

**Khristián Méndez Aguirre, MFA Candidate in Performance as Public Practice, UT
Department of Theatre and Dance**

The Sound of the Forest, the Sound of the Jungle.

Using sounds made with our voices, bodies and objects, we will learn about how different animals communicate. We will then make our own performance/composition to mimic how a forest or a jungle might sound, and why their sounds are important to their health.

DREA PETERS, LOCAL WEAVER & INSTRUCTOR AT HILL COUNTRY WEAVERS

Learn all about weaving and using your own loom where you will be able to make a wall hanging made in this workshop to take home!