

# EXPLORE HERRETT:



S.T.E.A.M.  
Camp-In  
2018

# EXPLORE HERRETT: S.T.E.A.M. Camp-In

(Formally Science Camp-In)

March 9, 2018

## Registration Form

**\*\*REGISTRATION DEADLINE: February 24, 2018\*\***

**PLEASE TYPE OR PRINT LEGIBLY**

Camper's Name: \_\_\_\_\_ Grade: \_\_\_\_\_ (3,4,5) Age: \_\_\_\_\_

Guardian's Name: \_\_\_\_\_ Primary Phone: \_\_\_\_\_

Secondary Phone: \_\_\_\_\_ Additional Contact Name & Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Town of Residence: \_\_\_\_\_ School: \_\_\_\_\_

Special needs: \_\_\_\_\_

First & Last Names of Friends to Sleep Beside: \_\_\_\_\_

### Workshops:

T-Shirt Youth:  6-8  10-12  14-16  18-20  
Sizes: Adult:  Large

**Each student group consists of two classes.**

\_\_\_ A Spark in the Air  
& Dangerous Art Ahead!

\_\_\_ The Microscopic World  
& Edible DNA

\_\_\_ Cool, Hot, & Colorful Chemistry  
& Makerspace!

\_\_\_ 3,2,1 Blastoff!  
& Full Steam Ahead!

\_\_\_ Birds, Beaks, and Bottles  
& Dynamic Volcanoes

\_\_\_ Sun Prints! &  
& Reptile Wranglin'

\_\_\_ Honey, I Shrunk the Solar System  
& Cool, Hot, & Colorful Chemistry

\_\_\_ Out of this World Art  
& Code: Robot

**Space limited: 1<sup>st</sup> come, 1<sup>st</sup> served**  
**Parents Note:** If your child and a friend wish to sleep in the same group, please write the friend's name on the registration form. In order to place children with their friends we must know now! No changes will be made on the night of the camp-in!

Workshops: Please mark choices in order of preference, 1-8. As a class fills, a child will be placed into their 2<sup>nd</sup>, 3<sup>rd</sup>, & following choice. Each child will attend 1 pair of classes.

### Questions?

Call Kindy Combe at

208-732-6664

or email

kcombe@csi.edu

Send check with registration to:

**CSI: S.T.E.A.M. Camp-in**

Herrett Center

P.O. Box 1238

Twin Falls, Idaho 83303

Cost for S.T.E.A.M. Camp-In: \$50.00 per child.

Check-In: 3/9/18 at 6:00 PM.

When we receive your registration and payment, we will send you a confirmation form with instructions.

**Refunds will not be given.**

## **WORKSHOP DESCRIPTIONS**

### **3, 2, 1, Blast Off!**

Participants build and launch their very own water bottle rocket constructed from 2-liter soda bottles, tennis balls, and wood fins. Newton's Laws of motion, which govern rocket flight, are discussed, enlightening the students on what makes their rockets, and NASA's, lift off the pad and reach for the sky and beyond.

### **Birds, Beaks, and Bottles**

Participants will examine preserved birds to identify different beak types and hypothesize on diet. Students will be given different beak types to participate in a feeding frenzy to see who can survive. Owl pellets will be examined and dissected to learn about what the owls have been eating. Students will make a bird feeder out of a plastic bottle so they can continue their observations of birds after they return home.

\*This workshop requires dissecting a real owl pellet and handling real animal bones.

### **Code: Robot**

Participants will learn the basics of coding and how to program a robot to manipulate the world around them.

### **Cool, Hot, and Colorful Chemistry**

Participants will get to do different hands-on experiments in one of CSI's chemistry labs. Experiments include writing with invisible ink, extracting DNA from Strawberries, and making slime. The workshop leaders will also do several exciting chemistry demonstrations!

### **Dangerous Art!**

Participants in this workshop will create acid rain using dihydrogen oxide\* and sodium chloride\*\*. Students will use then make artworks featuring creepy creatures using synthetic fibers as an applicator\*\*\*. Students will also conduct other water-based experiments.

\*Water                    \*\*Salt                    \*\*\*Painting with brushes, salt, and watercolors

### **Dynamic Volcanos**

Participants will learn all about volcanos and how they work through videos, experiments and other activities. Students will have the chance to create their own mini volcanos which will all erupt together at the end of the workshop!

### **Edible DNA!**

Participants will extract real DNA from household ingredients that they can look at under a microscope. They will then build their very own edible DNA models using candy! Students will learn that DNA is everywhere, in all living things.

### **Full Steam Ahead!**

Pop-pop boats, put-put boats, puf-puf boat– whatever they have been called around the world, these toy steam boats have kept kids entertained for over a hundred years! Participants will have a chance to create their own steam boat and try it out while learning about the science behind its motion.

\*Participants will handle lit tea candles

### **Honey, I Shrunk the Solar System**

Appreciate the vast scale of the Solar System and the relative size of its major components. Hands-on activities include making Play-Doh 1:8,000,000,000 scale models of the planets and placing them at their proper distances from a scale sun.

### **Makerspace!**

Participants will get in an introduction to CAD (computer-aided design) and 3D printing.

### **The Microscopic World**

Participants will learn how microscopes work and then use them to look at living and non-living objects under different magnifications. Students will then get to create their own microscope slides of such things as living protozoans, cheek cells, insect parts and more! Students will get to examine their slides under multiple magnifications.

### **Out of this World Art**

Nebulae are some of the most beautiful phenomena in the universe and come in a wide variety of colors and designs. Participants will be able to learn what possible elements make the different colors in the nebulae and create their own nebulae in a slightly messy, but very fun art project.

### **Reptile Wranglin'!**

Participants will get a chance to meet some of the Herrett Center's most interesting objects: our reptiles! Participants will learn how to tell a snake from a lizard, what kinds of snakes live in Idaho, and how to properly handle a reptile.

\*Live snakes will be present during this workshop.

### **A Spark in the Air**

Participants will "play" with air pressure and static electricity. Prepare for some bright sparks and loud bangs. You will be shocked and blown away!

### **Sun Prints!**

Participants become part the Sun Print photographic process by collecting objects and exposing them, using UV light, on top of hand-coated, chemically light-sensitive surfaces. The results are beautiful blue photographic impressions!