

# Program Guide

## Invention Jamboree

October 13 – 15, 2023

Lake of the Ozarks Scout Reservation



*“Become an Inventor for Life”*



BOY SCOUTS OF AMERICA®  
GREAT RIVERS COUNCIL



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## Invention Jamboree 2023

# Invention Jamboree Program Overview

The Invention Jamboree is a program that allows scouts from all over the USA to get a chance to exercise creativity with a variety of tools and technologies unique to the Sinqfield Invention Lab and the Lake of the Ozarks Scout Reservation.

Taking advantage of the Reservation's unique features. Scouts attending the Jamboree can get hands-on experience with everything from 3-D printers and aerial drones to welding and woodworking equipment at the Jamboree's participatory Invention Stations.

The main activity of the Jamboree will be the Invention Stations, which will be grouped into three "paths" named after famous Missouri inventors George Washington Carver, Edwin Hubble, and James Ferguson.

Each path has its own theme and will include four stations, letting Scouts participate in activities including robotics, welding, blacksmithing, woodworking, graphic design, shooting, climbing, flying radio-controlled drones, conducting search-and-rescue operations using geospatial mapping, and more.

All groups also will spend time in the reservation's Sinqfield Invention Lab, which serves as the center of the council's Invention Campus and Invention Scout program and offers access to equipment including 3-D printers, computer-controlled C&C machines, laser engravers, and more.



*George Washington Carver is Missouri's most well-known inventor. Born on January 1st, 1864, in Diamond, Missouri, Carver would go on to redefine the agricultural industry. Carver is most famous for his groundbreaking research on plant biology, where he developed new uses for alternative crops. Over his lifetime, Carver would invent hundreds of products from peanuts and sweet potatoes (milk, plastic, paint, dyes, postage stamp glue, and synthetic rubber among others) derived). Carver's emphasis on using alternative crops helped improve the lives of farmers and sharecroppers in the South. In addition to his inventing background, Carver was also a dedicated conservationist. Carver was inducted into the National Inventors Hall of Fame in 1990.*

### *Path A: George Washington Carver*

| <b>PATH A</b> | <b>Group 1</b>                         | <b>Group 2</b>                         | <b>Group 3</b>                         | <b>Group 4</b>                         |
|---------------|--|--|--|--|
| Session 1     | Shooting                               | Invention Lab                          | Blacksmith                             | Search & Rescue/<br>Geospatial Mapping |
| Session 2     | Invention Lab                          | Blacksmith                             | Search & Rescue/<br>Geospatial Mapping | Shooting                               |
| Session 3     | Blacksmith                             | Search & Rescue/<br>Geospatial Mapping | Shooting                               | Invention Lab                          |
| Session 4     | Search & Rescue/<br>Geospatial Mapping | Shooting                               | Invention Lab                          | Blacksmith                             |

## Invention Jamboree 2023



The most famous space telescope in the world was named after this Missouri born gentleman, Edwin Hubble. Born on November 20th, 1889, in Marshfield, Missouri, Hubble would become one of the most important astronomers in the history of the world; walking among the ranks of Copernicus, Galileo, and Kepler. His most important contribution to science was his observation that “the recessional velocity of a galaxy increases with its distance from Earth”. In other words, the universe is continually expanding. This property became known as “Hubble’s Law,” and has provided the basis of which modern astronomers analyze the galaxy.

### Path B: Edwin Hubble

| Path B    | Group 1               | Group 2               | Group 3               | Group 4               |
|-----------|-----------------------|-----------------------|-----------------------|-----------------------|
| Session 1 | Invention in Climbing | Invention Lab         | Welding               | Robotics              |
| Session 2 | Invention Lab         | Welding               | Robotics              | Invention in Climbing |
| Session 3 | Welding               | Robotics              | Invention in Climbing | Invention Lab         |
| Session 4 | Robotics              | Invention in Climbing | Invention Lab         | Welding               |



*James Ferguson was born in Wakenda, Missouri in 1934. He would go on to the University of Missouri, graduating with a degree in physics in 1956. After graduating, he began to experiment and develop liquid crystals. Soon he invented the first twisted-nematic liquid crystal display, better-known as LCD. In 1968 he started his own company called ILIXCO, which manufactured LCDs. Within a few years, many electronics including digital watches, television screens, computer monitors, and calculators used LCDs. For his discovery, he was inducted into the National Inventors Hall of Fame in 1998. By the end of his career, Ferguson had over 150 American patents and over 500 foreign patents.*

### Path C: James Ferguson

| PATCH C   | Group 1       | Group 2       | Group 3       | Group 4       |
|-----------|---------------|---------------|---------------|---------------|
| Session 1 | Drones        | Invention Lab | Woodworking   | Design        |
| Session 2 | Invention Lab | Woodworking   | Design        | Drones        |
| Session 3 | Woodworking   | Design        | Drones        | Invention Lab |
| Session 4 | Design        | Drones        | Invention Lab | Woodworking   |

## Invention Jamboree 2023

# Evening Program (Open Lab)

Open to all Scouts & Adults, 8pm-11:30pm @ Invention Lab

Please join us for our Open Lab program in the evening. This program is open to all Scouts & Adults. We will be running 3 stations for our evening program: electronic invention bulb soldering station, vaquform station, & the electronic breadboard station. This program is optional. This program is a chance for Scouts who were not able to experience the above programs in their paths to experience them; as well as a chance for adults to participate in the cool activities that their Scouts participated in during the day.

# OA Cracker Barrel

Open to all OA Members, 8:30pm-10pm @ Deck of Invention Lab

If you are a member of the Order of the Arrow, please join us for the OA Cracker Barrel. All active members of any Lodge are invited. The cracker barrel will begin at 8:30pm on the deck of the Invention Lab.

# Schedule of Events

## Friday, October 13, 2023

|                    |                 |
|--------------------|-----------------|
| 5:00 pm - 10:00 pm | Friday Check-In |
| 11 pm              | Lights Out      |

## Saturday, October 14, 2023

|                     |   |
|---------------------|---|
| 6:00 am – 8:00 am   | Breakfast on own at campsites               |
| 7:00 am – 8:15 am   | Saturday Check-In                           |
| 8:15 am             | Opening Ceremony (Flags)                    |
| 8:30 am – 10:00 am  | Rotation 1 (Activity Shirt)                 |
| 10:15 am – 11:45 am | Rotation 2 (Activity Shirt)                 |
| 12:00 pm – 1:00 pm  | Lunch (provided)                            |
| 1:15 pm – 2:45 pm   | Rotation 3 (Activity Shirt)                 |
| 3:00 pm – 4:30 pm   | Rotation 4 (Activity Shirt)                 |
| 6:00 pm – 7:00 pm   | Dinner (provided)                           |
| 7:15 pm – 7:45 pm   | Closing Ceremony and Awards (Field Uniform) |
| 8:00 pm – 11:30 pm  | Open Lab (Scouts and Adults invited)        |
| 8:30 pm – 10:00 pm  | OA Cracker Barrel (All OA Members Invited)  |
| 12:00 am            | Lights Out                                  |

## Sunday, October 15, 2023

|                    |  |
|--------------------|--|
| 8:00 am – 11:00 am | Breakfast on own at campsites and Pack-up & Departures |
|--------------------|--|

## Invention Jamboree 2023

# Check-In

1. Friday Check-in
  - Please arrive between 5:00 pm and 10:00 pm.
  - Units will check-in at the welcome center, where they will receive schedules, maps, and other program information.
  - You will also receive your group assignments based from the path chosen during registration.
  - **Please make sure to follow the signs and parking staff at check-in.**
2. Saturday Check-ins
  - Please arrive between 7:00 am and 8:00 am
  - Units will check-in at the welcome center, where they will receive schedules, maps, and other program information.
  - You will also receive your group assignments based from the path chosen during registration.
  - **Please make sure to follow the signs and parking staff at check-in.**

# Camping

1. Units will be assigned campsites on arrival. We will be utilizing the following campsites: Backer, Iroquois, Chippewa, McHenry, Seton, Clark, Lewis, Osage, Cherokee, and Sioux. (Please refer to the map for reference). Each campsite is fitted with firepits, shelters, and latrines. Please bring your own tents & sleeping gear.
2. There are 5 shower houses & restrooms located around camp: Show & Do, Program Building, the Siquelfield Invention Lab, Cherokee Shower House, and the Welcome Center/Pool Area. The Program Building and Siquelfield Invention Lab showers are single showers and unisex.
3. Units will be allowed to drive their camp trailer into the campsites during arrival and check-in Friday and Saturday (Trailers may be parked in campsites, however all vehicles, including towing vehicles, must be moved out of camp and parked in a designated parking lot by the start of program Saturday).
4. There are fire pits at each campsite. In addition, there are fire barrels in each shelter. Units may bring their own firewood and charcoal. You can also purchase charcoal. Please contact Dennis Kerns if you need to purchase charcoal.

# Meals

1. Attendees will be provided with only two meals, lunch & dinner on Saturday.
2. Units and attendees will need to provide their own breakfast. We recommend bringing a continental breakfast. Please bring cooking gear, etc. if applicable.
3. All meals provided (Lunch & Dinner on Saturday) will be distributed from 2 places: in front of the Invention Lab and in front of the Program Building (please see map).
4. If you are a special dietary, your meals will be distributed from in front of the invention lab.

## Invention Jamboree 2023

# Additional Information

Trading Post: The Trading Post will be open! Get camping gear, t-shirts, snacks, and more!

Overnight Accommodations: If you are not planning on camping but would like to stay overnight, there are a few options available near camp:

- Lake House Inn (closest to camp, 245 S Main St Laurie, MO 65038) - (573) 374-7744
- Water's Edge Motel (about 20 minute drive from camp, 25587 MO-5, Gravois Mills, MO 65037) - (573) 372-2201

Remember to bring a camp chair!





# Invention Jamboree 2023

Map Updated  
Jan 11, 2023



- Sinquefield Invention Campus**
- Sinquefield Skills/Trades Lab
  - Sinquefield Invention Lab
  - Sinquefield Blacksmith & Welding Lab
  - Sinquefield Woodworking Lab

**KEY**

|  |                              |
|--|------------------------------|
|  | HIKING TRAIL (Marking Color) |
|  | GRAVEL ROAD                  |
|  | ONE WAY GRAVEL ROAD          |
|  | PAVED ROAD                   |
|  | Shelter                      |
|  | Campsite                     |
|  | Laundry & Charging Stations  |
|  | Showers & Toilets            |
|  | Building                     |
|  | Heinkel Medical Lodge        |
|  | Gaga Ball Pit                |
|  | Hammock Village              |
|  | Climbing Tower               |
|  | FRONT GATE                   |

500 FEET  
Buildings and Deer Not to Scale

**Driving**

**Directions**

**LOTOSR Welcome Center**  
525 Camp Hohn Drive  
Gravois Mills, MO 65037  
(573) 374-5761  
<https://LOTOSR.org>

**LOTOSR Virtual Camp Tour**

**LOTOSR Event Calendar & Registrations**