

# ENGINEERING- WELDING DAY

Friday, July 28, 2023

Agricultural Engineering Building – OSU Campus  
Chris Tkach, Assistant Superintendent

**LOCATION- NOT AT THE FAIRGROUNDS**, Please report to The Ohio State University Agricultural Engineering Building located at 590 Woody Hayes Dr. Columbus, OH 43210 Directions: Exit Rt. 315 at Lane Ave., go east to the first stop light (Fyffe Rd), then turn left at Woody Hayes Dr, make a left into the facility from Woody Hayes Dr.

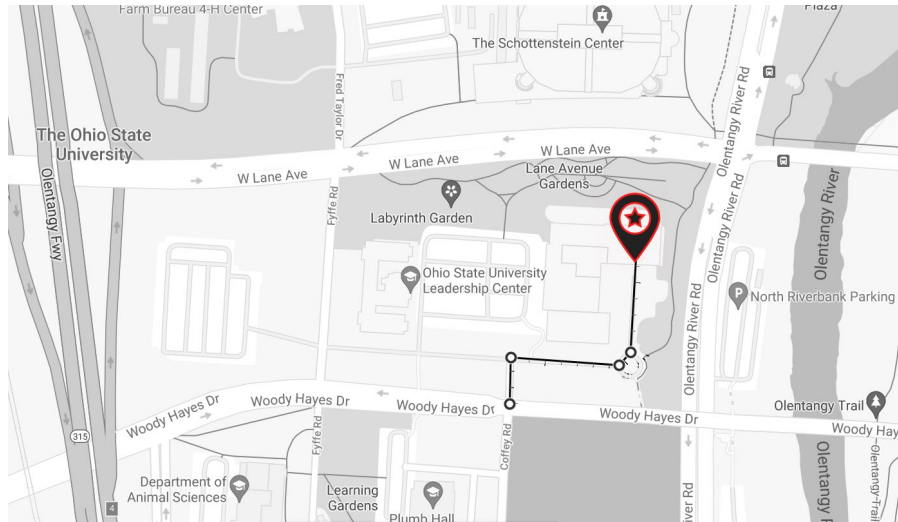


Figure 1. Event Location

## PLEASE NOTE:

- Parents will have a designated seating area.
- This will be an outdoor event; judging will take place in the covered courtyard of the Agricultural Engineering Building.
- On site, participants will need to produce a weld sample. To participate, individuals must wear closed-toe leather shoes and long pants. Welding jackets, gloves, and helmets will be provided, but participants may also bring their own personal protective equipment (PPE).
- All youth will receive a participation ribbon, awards will be presented at 4:15pm.

## GENERAL GUIDELINES

### 1. Age of Participants:

- 4-H Age unless noted in specific class guidelines

### 2. Participation Guidelines:

- Counties may be represented by two individuals with a maximum of one participant in each class. It is highly recommended that each county sends two individuals for representation.
- All welding on projects exhibited must be completed using Shielded Metal Arc Welding (SMAW), commonly referred to as stick welding.
- Winners of any class in 2022 are not eligible to participate in the same class in 2023.

### 3. Type of Evaluation: Skill-a-Thon

- Participants will have a personal interview evaluation with a judging team
- Judging team will evaluate participant on the following basis:
  - Completed project book
  - On-site interview
  - A quiz based upon welding & 4-H knowledge
  - A sample welded on site
  - A welding project from project book
  - A second welding project of their own design (or book for the J-1 class)

#### 4. Participant **MUST bring**:

- Two welding projects.
- Registration information provided to you by your County 4-H Educator.
- Completed project book showing involvement in and progress through completion of their project goals.
- Closed-toe leather shoes and long pants. Welding jackets, gloves, and helmets will be provided, but participants may also bring their own personal protective equipment (PPE).

#### **CLASSES**

J-1 Welding- **For welding projects that would have to fit in an imaginary box 6 ft. x 6 ft. x 3 ft.**  
Every participant shall bring and exhibit two welding projects: one will be from the recommended projects in the 4-H project book *Arcs and Sparks* and the other will be one of their own design that will be no bigger than 6 ft. x 6 ft. x 3 ft.

J-2 Welding (Bigger Weldment) - **For welding projects that are bigger than 6 ft. x 6 ft. x 3 ft.**  
In this class, participants will follow and meet all requirements and criteria listed for J-1, except for size of the optional design project. **This class is for larger dimension projects. It is preferred that projects be no larger than 8 ft. x 8 ft. and 20 ft.**

#### **PLEASE NOTE:**

- The project from the *Arcs and Sparks* book will be evaluated for conformance to the drawings including weld sizes and locations.
- Alternate materials are acceptable, for example ¼ x 3" stock in lieu of ¼ x 2", but it should be cut to the same length and fitted in conformance with the drawing.
- While the judges may be impressed by massive projects, they award points for welding quality. Do not grind your final welds or hide the beads under heavy paint as the judges won't be able to award points for great weld beads if they can't see them.

#### **AWARDS AND SPONSORS**

1. All participants will receive a participation award sponsored by the Ohio State Fair.
2. The top 20% of each class will receive "Outstanding of the Day" awards sponsored by the Ohio State Fair.
3. The top individual from classes J-1 and J-2 will be recognized with an award
4. In each class, the best individual from each of five age divisions (8-10, 11-12, 13-14, 15-16, &17-18) will be recognized. Each will receive a prize.

#### **4-H WELDING DAY PARTICIPATION SCHEDULE**

*Please report to the registration desk not more than 15 minutes before your county is scheduled.*

The exact schedule of participation will depend on the number reporting at any one time. Members should bring registration information provided by their County 4-H Professional to the registration area in the Agricultural Engineering Building.

9:00 a.m.:	Clark, Delaware, Fairfield, Fayette, Pickaway
9:30 a.m.	Ashland, Franklin, Licking, Logan, Madison, Marion
10:00 a.m.	Allen, Champaign Morrow, Muskingum, Union
10:30 a.m.	Coshocton, Crawford, Greene, Hardin, Hocking, Holmes
11:00 a.m.	Knox, Miami, Montgomery, Perry, Richland, Ross
11:30 a.m.	Athens, Clinton, Guernsey, Hancock, Shelby, Vinton, Wyandot,
1:00 p.m.	Highland, Huron, Jackson, Medina, Morgan, Pike, Seneca, Stark, Summit
1:30 p.m.	Auglaize, Belmont, Tuscarawas, Warren, Wayne, Wood,
2:00 p.m.	Butler, Carroll, Clermont, Darke, Erie, Hamilton, Harrison, Lorain
2:30 p.m.	Monroe, Noble, Paulding, Portage, Preble, Putnam, Sandusky, Van Wert, Washington
3:00 p.m.	Adams, Ashtabula, Brown, Columbiana, Cuyahoga, Defiance, Fulton, Gallia, Geauga, Henry, Jefferson, Lake, Lawrence
3:30 p.m.	Lucas, Mahoning, Meigs, Mercer, Ottawa, Scioto, Trumbull, Williams
4:15 p.m.	Award ceremony