
Environment & Natural Resources

Director**Sid Parks**

Plaques donated by:

- Best Outdoor Activities Exhibit** – Danvers Lions Club
- Best Natural Resources Exhibit** – McLean County Pheasants Forever
- Best Forestry Exhibit** – McLean County S.W.C.D.
- Best Entomology Exhibit** – In Memory of Elvert & Leota Meyer
- Best Geology Exhibit** – Timeless Clovers Alumni Association
- Best Shooting Sports Exhibit** – Phil and LeAnn Korty

Premiums: A-\$4 B-\$3 C-\$2

Division – Natural Resources and Outdoor Activities(4H20/10)

Check-in 5:30-7:30 p.m. on Tuesday, August 1, in Cloverleaf Hall

Judged at 9 a.m. on Wednesday, August 2, in Cloverleaf Hall

Member will be present for judging.

Superintendent..... Blake Mowery

Rules:

- A. See the Rules & Regulations section (pages 11) for general requirements for Entries and Exhibits. Failure to meet requirements will result in lowering of placing by one grade.
- B. Exhibit should help teach others about the project. The poster or display should be colorful, neat, and reflect your knowledge of the project based on your age.
- C. Unless otherwise noted in class description, exhibit can be from the associated 4-H project manual or other reference. If not from a 4-H manual, be prepared to show references during conference judging. Be able to explain the importance and concept behind the project exhibit.
- D. Exhibit will use no perishable foods, over the counter medicines, or live animals. For safety reasons, remove all hooks from fishing lures or place them in a sealed plastic case.

Classes:

Natural Resources 1: Step Into Nature (50256)

Natural Resources 2: Explore the Natural World (50257)

Natural Resources 3: Blaze the Trail (50258)

Outdoor Adventures (50259): Exhibit a display illustrating an activity completed from the project manual. Exhibit in one of the following areas:

- Outdoor Adventures 1: Hiking Trails**
- Outdoor Adventures 2: Camping Adventures**
- Outdoor Adventures 3: Backpacking Expeditions**

Sportfishing 1: Take the Bait (50260)

Sportfishing 2: Reel in the Fun (50261)

Sport Fishing 3: Cast into the Future (50262)

Wildlife – A (50266)

Wildlife – B (50263)

Earth Treks: Soil Conservation (Not State Fair Eligible)

Prairie Plants of Illinois (Not State Fair Eligible)

Natural Resources/Sportsfishing/Wildlife Innovation Class

(50264): Open to youth who were at least 13 years of age on September 1, 2016 and are enrolled in any Natural Resource, Sportsfishing or Wildlife Project. Demonstrate the skills and knowledge you have gained through the project you have studied. This could be related to, but not limited to habitat construction, maintenance, water quality, fish biology, or involvement with citizen science efforts. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Natural Resources Clover Challenge (50265): See rules on page 76.

Natural Resources Ready4Life Challenge (50266): See rules on page 76.

Division — Geology (4H20/I0)

Check-in 5:30-7:30 p.m. on Tuesday, August 1, in Cloverleaf Hall

Judged at 9 a.m. on Wednesday, August 2, in Cloverleaf Hall

Member will be present for judging.

Superintendent..... Terry Carrigan

Rules:

- A. **See the Rules & Regulations section (pages 11-12) for general requirements for Entries and Exhibits. Failure to meet requirements will result in lowering of placing by one grade.**
- B. Exhibitors may exhibit in Pebble Pups Division 1, Pebble Pups Division 2, and Rock Hounds Division 1 for a **maximum of two years each.**
- C. The size and number of exhibit cases should relate appropriately to the number of specimens displayed for a specific class.
- D. Exhibitor must attach the appropriate project manual for the class exhibited to one of the cases with at least one completed activity for each year enrolled.
- E. Label collection and note where found. Please see project books for suggestions as to labeling exhibit materials.

Classes:

Pebble Pups – Division 1 (50218): Display 8 to 19 rock and mineral specimens including at least three minerals in the collection. Collections may include duplicates that show variation.

Pebble Pups – Division 2 (50219): Display 20 to 29 rock and mineral specimens with a minimum of seven minerals in the collection that exhibit at least seven different points of hardness. Collection may include duplications that show variations.

Rock Hounds – Division 1 (50220): Display 30 to 40 rock and mineral specimens with a minimum of ten minerals in the collection. Rocks should **include at least three igneous, two metamorphic, and three sedimentary groups.**

Rock Hounds – Division 2 (50221): Display up to 50 rock and mineral specimens that have been selected to illustrate a specific theme of the exhibitor's choosing. Be creative. Sample categories should include, but not limited to: industrial minerals and their uses; a specific rock group and the variety that occurs in that group, including some minerals that occur in the environment; select fossils traced through the geologic ages; minerals and their crystal habits; rocks and minerals used in the lapidary arts. **Must show advancement each year of participation.**

Geology Innovation Class (50222): Open to youth who were at least 13 years of age on September 1, 2016 and are enrolled in Geology. Demonstrate the skills and knowledge you have gained through the Geology project. Exhibit may be the result of knowledge gained from project manuals; independent study about Illinois rock(s) and mineral(s), interaction with geology professionals; and/or individual exploration in the area of geology. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Geology Clover Challenge (50223): See rules on page 76.

Geology Ready4Life Challenge (50224): See rules on page 76.

Division — Entomology General (4H20/10)

Check-in 5:30-7:30 p.m. on Tuesday, August 1, in Cloverleaf Hall

Judged at 9 a.m. on Wednesday, August 2, in Cloverleaf Hall

Member will be present for judging.

Superintendent.....Terry Carrigan

Rules:

- A. See the Rules & Regulations section (pages 11-12) for general requirements for Entries & Exhibits. Failure to meet requirements will result in lowering of placing by one grade.
- B. The size and number of exhibit cases should relate appropriately to the number of insects displayed for a specific class.
- C. Cases are to be no deeper than 4". Note – exhibits MAY be placed upright for display.
- D. Exhibitor must accurately label the collection.
- E. Exhibitor must attach the appropriate project manual for the class exhibited to one of the cases with at least one completed activity for each year enrolled

Classes:

Entomology 1 (50183): *Teaming with Insects 1* – Exhibit 15 or more species representing four or more orders.

Entomology 2 (50184): *Teaming with Insects 2* – Exhibit 30 or more species representing eight or more orders.

Entomology 3 (50185): *Teaming with Insects 3* – Exhibit 60 or more species representing twelve or more orders.

Entomology Display, Other (50186): Exhibit any activity or display related to Entomology that does not fit into Entomology Classes 1, 2 or 3 above. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Entomology Clover Challenge (50187): See rules on page 76.

Entomology Ready4Life Challenge (50188): See rules on page 76.

Division — Entomology Beekeeping (4H20/10)

Check-in 5:30-7:30 p.m. on Tuesday, August 1, in Cloverleaf Hall

Judged at 9 a.m. on Wednesday, August 2, in Cloverleaf Hall

Member will be present for judging.

Superintendent..... Terry Carrigan

Rules:

- A. Create an exhibit that shows the public what you learned in the beekeeping project this year.
- B. No bee hives may be exhibited. (Honey water content will be measured.)
- C. Fill level: the honey should be filled to the jar shoulder, not over, nor under.
- D. Chunk honey should go in a wide-mouth jar, preferably one specially made for chunk honey (see beekeeping catalogs). Be careful to distinguish “chunk honey” (comb in jar) from “cut comb” (comb only in box).
- E. Honey exhibited (including chunk, cut comb, and comb) must be collected since the previous year fair.

Classes:

Beekeeping 1 (50380): Exhibit an educational display for one (1) of the following:

1. Flowers Used to Make Honey. Display pressed flowers from ten (10) different Illinois plants that bees use for making honey.
2. Uses of Honey and Beeswax.
3. Setting Up a Bee Hive.
4. Safe Handling of Bees.
5. Equipment needed by a Beekeeper.

Beekeeping 2 (50381): Exhibit one (1) of the following:

1. Extracted Honey: Three (3) 1# jars, shown in glass, screw-top jars holding 1 # of honey each.
2. Chunk honey (comb in jar): Three (3) 1# jars (wide-mouth glass jars).
3. Cut-comb honey: Three (3) 1# boxes (boxes are usually 4 ½” x 4 ½”).
4. Working with Honey Bees. Present a topic from your manual to teach fairgoers about working with honey bees. Use your knowledge and creativity to display this information on a poster or in a notebook.

Beekeeping 3 (50382): Exhibit three (3) of the four (4) kinds of honey listed below (#1-4) or prepare an educational display about honey bees or beekeeping.

1. Extracted Honey: Three (3) 1# jars (glass)
2. Chunk Honey (comb in a jar): Three (3) 1# jars (wide-mouth glass)
3. Cut-comb Honey: Three (3) 1# boxes (boxes are usually 4 ½” x 4 ½” in size).
4. Comb Honey- 3 sections (honey built by bees in frames of wood commonly called “sections” (boxes are usually 4 ½” x 4 ½” in size) or
5. Prepare an educational display about honey bees or beekeeping.

Beekeeping Ready4Life Challenge (50384): See rules on page 76.

Division— Forestry (4H20/10)

Check-in 5:30-7:30 p.m. on Tuesday, August 1, in Cloverleaf Hall

Judged at 9 a.m., Wednesday, August 2, in Cloverleaf Hall

Member will be present for judging.

Superintendent..... Jackie Kraft

Rules:

- A. **See the Rules & Regulations section (pages 11) for general requirements for Entries & Exhibits. Failure to meet requirements will result in lowering of placing by one grade.**
- B. Exhibit any product or display illustrating an activity from the book. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Classes:

Forests of Fun 1: Follow the Path (50212)

Forests of Fun 2: Reach for the Canopy (50213)

Forests of Fun 3: Explore the Deep Woods (50124)

Forestry Clover Challenge (50215): See rules on page 76.

Forestry Ready4Life Challenge (50216): See rules on page 76.

Division — Shooting Sports(4H20/10)

Superintendent.....Phil Korty

Assistant Superintendent.....Paul Phillips

Shooting Sports Poster (Not State Fair Eligible)

Check-in 5:30-7:30 p.m. on Tuesday, August 1, in Cloverleaf Hall

Judged at 9 a.m. on Wednesday, August 2, in Cloverleaf Hall

Member will be present for judging.

Rules:

- A. See the Rules & Regulations section, page 11, for general requirements for Entries and Exhibits. Failure to meet requirements will result in lowering of placing by one grade.
- B. No live ammunition, actual firearms or parts of firearm that could be reassembled should be included. Any manufactured part of a sporting arm may not be displayed.
- C. No human silhouette targets should be displayed.
- D. Poster must be based on an activity or lesson from the associated *Shooting Sports Member Record Book*. The Show Director for Environment and Natural Resources must approve exceptions prior to check-in.
- E. In order to exhibit at the fair, each exhibitor must attend at least one county level workshop in the appropriate discipline.
- F. All exhibits should be posters only (no displays). Exhibits deemed to be inappropriate will not be allowed to show at the fair.
- G. Exhibitors may enter one poster in each Shooting Sports Exhibit class:

Classes:

Air Rifle Exhibit: Refer to the *4-H Rifle Member Record Book* for exhibit ideas.

Archery Exhibit: Refer to the *4-H Archery Member Record Book* for exhibit ideas.

Shotgun Exhibit: Refer to the *4-H Shotgun Member Record Book* for exhibit ideas. Member must be at least 12 years old to exhibit in this class.

Pistol Exhibit: Refer to the *4-H Pistol Member Record Book* for exhibit ideas.

Shooting Sports Match

Rules:

- A. See the Rules & Regulations section (pages 11) for general requirements for Entries and Exhibits. Failure to meet requirements will result in lowering of placing by one grade.
- B. In order to participate in a Shooting Sports Match, each exhibitor must attend at least two county level workshops in the appropriate discipline. EXCEPTIONS—To participate in the shotgun match, participants must successfully complete both Level 1 *and* Level 2 workshops. Participants must have completed at least one Level 2 workshop within the current 4-H year. To participate in the Advanced Air Rifle match participants must have completed (two) six week sessions.
- C. Shooting Sports Match follows the State 4-H Shooting Sports Rule Books.
- D. Participants may compete in multiple classes within the Shooting Sports category.
- E. A, B, and C ratings will be determined at the time of the competition based on conditions and the overall scores in each class. Place ribbons will be awarded in lieu of Best of Class and Reserve Best of Class ribbons. The number of place ribbons awarded will be based on the number of participants in each class.
- F. Match dates, times, and locations are subject to change. The McLean County Extension office will notify registered participants of any change.

Air Rifle and Pistol Match – The Air Rifle and Pistol Match will be held from 8 a.m.-5 p.m. on Saturday, July 8 at Central Illinois Precision Shooting. Each exhibitor will register online for a time slot to shoot at: <http://web.extension.illinois.edu/lmw/register/>. The time slots will by 8 a.m., 10 a.m., noon, 2 p.m. and 4 p.m.

Archery Match – The Archery Match will held at 6:15 p.m. on Tuesday, July 11 at the McLean County Fairgrounds West Expo Building. For Match 1 and 2 may use equipment provided by 4-H or their own compound bow as long as the bow does not have sights or counterweights.

Archery Match 1: Participants may use equipment provided by 4-H or their own compound bow as long as the bow does not have sights or counterweights.

Class 1: Ages 8-14

Class 2: Ages 15-18

Archery Match 2: Participant's Equipment: Participant's equipment may include sights and counterweights.

Shotgun Match – The Shotgun Match will be held on Saturday, July 8 at Darnall's Gunworks and Ranges. The first class will begin at 9 a.m. Participants must successfully complete both Level 1 *and* Level 2 workshops in order to compete in this class.

Match 1: Ages 12-14

Match 2: Ages 15-18