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SCIENCE OLYMPIAD



Western Illinois University Regional (Div. C) Awards





MAURICE G. KELLOGG

SCIENCE EDUCATION CENTER

TEACHING, PROFESSIONAL DEVELOPMENT, AND SERVICE

Since 1987 the Science Education Center has hosted the Western Illinois University Regional Science Olympiad competition. Approximately 15-20 junior high/middle schools and high schools participate in this event. School teams compete in science events which requires students to demonstrate their knowledge in science content and science process skills as well as scientific technological process and skills.

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Already thinking about 2023?



- Please check the Western Illinois University Regional Science Olympiad website every periodically for updates to the February 25, 2023 tournament.
- Please visit the rest of the WIU Science Center Website. Virtual science museum, Rocket Club, The Rock and Mineral Room, Science Resources and Workshops.
- If you or your students would like to purchase Science Olympiad gear, check out our new virtual store.



2022 WIU Regional Schools/Teams (C-Division)

- Canton High School (Coach: Lynn Isbell)
- Dunlap High School (Coach: Sarah Lueschow)
- Farmington Central High School (Coach: Jeff Weyers & Trish Fields)
- Lewistown Junior-Senior High School (Coaches: Gina Simpson & Wendy Johnson)
- Liberty High School (Coaches: Rochelle Luaders & Stephanie Hodgson)
- Macomb Senior High School (Coach: Thomas Johnson)
- Mercer County High School (Coaches: Cindy Simpson & Matthew Simpson)
- Rochester High School (Coaches: Molly Godar & Rhonda Goad)
- Western High School (Coach: Misti McCallister)

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Thank you to ALL involved in ISO!

- Thank you to all Coaches and Event Supervisors!
- Thank you to ISO! (Michele Chapman, Joe Simmons, Heather Rocen, Don Powers & other State Organizers)
- Thank you to Student TEAMS and all those who participated!
- Thank you to Western Illinois University faculty and staff!



Release of Final Scores & Point Totals for Division C Teams:

After the Awards Presentation, Tournament scores will be published in Avogadro and should include what is below.

- Final Results Handout
- Results Grid
- Raw Scores Results Grid
- Results by Team Group Grid



Mailing of Medals and Trophies

Team coaches need to contact Sebastian (SP-Szyjka@wiu.edu) and make arrangements to either have awards mailed to a school or home address or pick them at the School of Education office located in Horrabin Hall Room 115. Please indicate how many total medals are estimated for your team for all events after you review the results.

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And Now...The Presentation of Division-C Awards!




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Anatomy & Physiology C-Division

DESCRIPTION: Participants will be assessed on their understanding of the anatomy and physiology for the human **Nervous, Sense Organs, and Endocrine** systems.

-  1. Dunlap HS
-  2. Rochester High School
-  3. Liberty High School
-  4. Macomb Senior High School

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Astronomy C-Division

DESCRIPTION: Teams will demonstrate an understanding of **Variability of Low & Mid-Mass Stars.**

 1. Rochester High School

 2. Mercer County High School

 3. Liberty High School

 4. Farmington Central High School

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Bridges C-Division

DESCRIPTION: Teams will design and build a Bridge (Structure) meeting requirements specified in these rules to achieve the highest structural efficiency.



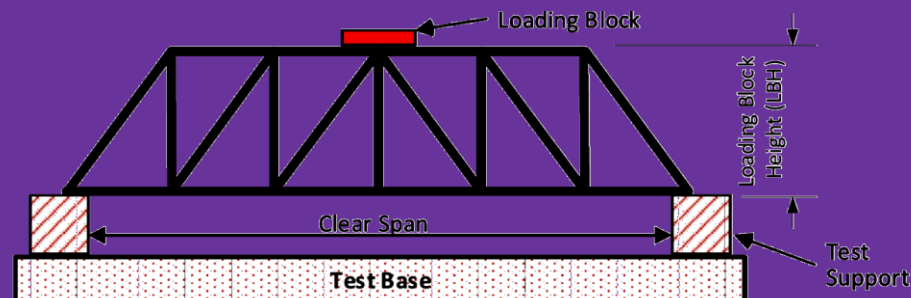
1. Liberty High School



2. Farmington Central High School



3. Macomb Senior High School



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Cell Biology C-Division

DESCRIPTION: This event integrates content knowledge and process skills in the areas of cell biology and cellular biochemistry.



1. Canton High School



2. Farmington Central High School



3. Western High School



4. Macomb Senior High School

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Chemistry Lab C-Division

DESCRIPTION: Teams will complete one or more tasks and answer a series of questions involving the science processes of chemistry focused in the areas of Aqueous Solutions and Oxidation/Reduction.



1. Dunlap HS



2. Canton High School



3. Farmington Central High School



4. Liberty High School

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Code Busters C-Division

DESCRIPTION: Teams will cryptanalyze and decode encrypted messages using cryptanalysis techniques for historical and modern advanced ciphers.



1. Rochester High School



2. Lewistown Junior-Senior High School



3. Canton High School

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Detector Building C-Division

DESCRIPTION: Teams will build a durable Conductivity Device that will accurately measure and display both voltage and concentrations of NaCl in parts per million (ppm) from 0 to 5000 ppm of different water samples.

 1. Macomb Senior High School

 2. Lewistown Junior-Senior High School

 3. Farmington Central High School

 4. Liberty High School

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Disease Detectives C-Division

DESCRIPTION: Participants will use their investigative skills in the scientific study of disease, injury, health, and disability in populations or groups of people.

 1. Rochester High School

 2. Canton High School

 3. Lewistown Junior-Senior High School

 4. Liberty High School

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Dynamic Planet C-Division

DESCRIPTION: Students will use process skills to complete tasks related to Earth's fresh waters.



1. Canton High School



2. Farmington Central High School



3. Rochester High School



4. Mercer County High School

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Environmental Chemistry C-Division

DESCRIPTION: This event will focus on fresh water (e.g., residential, industrial or natural), The Clean Water Act (1972 & 1977 – certain pages specified at the end), wastewater operator's certification manual (Indiana March 2018 revision) and its applications, and various testing of particular analytes using standardized curves (either interpreted or created).

-  1. Lewistown Junior-Senior High School
-  2. Canton High School
-  3. Farmington Central High School
-  4. Mercer County High School

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Experimental Design C-Division

DESCRIPTION: This event will determine the participant's ability to design, conduct, and report the findings of an experiment entirely on-site.

 1. Rochester High School

 2. Farmington Central High School

 3. Macomb Senior High School

 4. Liberty High School

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Forensics C-Division

DESCRIPTION: Given a scenario and some possible suspects, students will perform a series of tests. These tests, along with other evidence or test results, will be used to solve a crime.



1. Liberty High School



2. Lewistown Junior-Senior High School



3. Farmington Central High School



4. Canton High School

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Gravity Vehicle C-Division

DESCRIPTION: Teams design, build, and test one Vehicle and Ramp that uses the Vehicle's gravitational potential energy as its sole means of propulsion to reach a target as accurately as possible.



1. Liberty High School

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It's About Time C-Division

DESCRIPTION: Teams will answer questions related to time and they may construct and bring one non-electrical device to measure time intervals between 10 and 300 seconds.



1. Lewistown Junior-Senior High School



2. Macomb Senior High School



3. Canton High School




4. Liberty High School

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Ornithology C-Division

DESCRIPTION: Participants will be assessed on their knowledge of North American birds.

-  1. Liberty High School
-  2. Rochester High School
-  3. Lewistown Junior-Senior High School
-  4. Canton High School

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Ping Pong Parachute C-Division

DESCRIPTION: Prior to the tournament, teams will design, build, and bring up to three bottle rockets to the tournament to launch a ping pong ball attached to a parachute to stay aloft for the greatest amount of time.



1. Liberty High School



2. Farmington Central High School



3. Lewistown Junior-Senior High School



4. Rochester High School

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Remote Sensing C-Division

DESCRIPTION: Participants will use remote sensing imagery, data, and computational process skills to complete tasks related to climate change processes in the Earth system.



1. Farmington Central High School



2. Canton High School



3. Liberty High School







4. Rochester High School



Rocks and Minerals C-Division

DESCRIPTION: Participants will demonstrate their knowledge of rocks and minerals.

-  1. Macomb Senior High School
-  2. Dunlap HS
-  3. Western High School
-  4. Rochester High School

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Trajectory C-Division

DESCRIPTION: Prior to the competition, teams will design, construct, and calibrate a single device capable of launching projectiles onto a target and collect data regarding device parameters and performance.

-  1. Lewistown Junior-Senior High School
-  2. Liberty High School
-  3. Macomb Senior High School
-  4. Farmington Central High School

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WiFi Lab C-Division

DESCRIPTION: Teams must construct an antenna device prior to the tournament that is designed to transmit a signal at 2.4 GHz and complete a written test on the principles of electromagnetic wave propagation.



1. Macomb Senior High School



2. Rochester High School



3. Farmington Central High School



4. Mercer County High School

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Wright Stuff C-Division

DESCRIPTION: Prior to the tournament teams design, construct, and test free flight rubber-powered monoplanes to achieve maximum time aloft.



1. Lewistown Junior-Senior High School



2. Liberty High School

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Write It, Do It C-Division

DESCRIPTION: One participant will write a description of an object and how to build it. The other participant will attempt to construct the object from this description.

-  1. Rochester High School
-  2. Farmington Central High School
-  3. Macomb Senior High School
-  4. Liberty High School

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Overall Scores for 2022 C-Division

-  1. Liberty High School - 93
-  2. Farmington Central High School - 99
-  3. Lewistown Junior-Senior High School - 109
-  4. Rochester High School - 117





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Thank you for attending! See you Face-to-Face in
2023!

