

65<sup>th</sup> Annual  
**Southeast Missouri Regional Science Fair**  
**AWARDS CEREMONY**  
**Tuesday, March 9, 2021 – 6 p.m.**  
Virtual - Cape Girardeau, Missouri

## **Junior Division Winners**

### **JUNIOR ANIMAL SCIENCES & EARTH AND PLANETARY SCIENCE**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Lily	Coy	Immaculate Conception School: Jackson, MO	First
Sylvia	Kester	Immaculate Conception School: Jackson, MO	Second
Clare	Maloney	St. Joseph Catholic, Farmington	Third
Meredith	Williams	St. Joseph Catholic, Farmington	Third

### **OVERALL BEST IN JUNIOR ANIMAL SCIENCES & EARTH AND PLANETARY SCIENCE**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Lily	Coy	Immaculate Conception School: Jackson, MO

### **JUNIOR BEHAVIORAL AND SOCIAL SCIENCES**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Cora	Burford	Immaculate Conception School: Jackson, MO	First
Lyla	Martin	Immaculate Conception School: Jackson, MO	Second
Thomas	Patterson	Qulin Middle School	Second
Taylor	Schreckenber	Leopold R-III School District	Third
Nicholas	Gaeta	St. Vincent de Paul: Cape Girardeau, MO	Third

### **OVERALL BEST IN JUNIOR BEHAVIORAL AND SOCIAL SCIENCES**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Cora	Burford	Immaculate Conception School: Jackson, MO

## **JUNIOR BIOCHEMISTRY, CELLULAR AND MOLECULAR BIOLOGY, & MICROBIOLOGY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Madison	Massa	Leopold R-III School District	First
Hailey	Henderson	Immaculate Conception School: Jackson, MO	First
Lily	Carr	Immaculate Conception School: Jackson, MO	Second
Kate	Rubel	Immaculate Conception School: Jackson, MO	Third
Gasya	Berberian	Immaculate Conception School: Jackson, MO	Third
Grayson	Maurer	St. Vincent de Paul: Cape Girardeau, MO	Third

## **OVERALL BEST IN JUNIOR BIOCHEMISTRY, CELLULAR AND MOLECULAR BIOLOGY, & MICROBIOLOGY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Madison	Massa	Leopold R-III School District

## **JUNIOR CHEMISTRY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Alyssa	Jurgens	St. Vincent de Paul: Cape Girardeau, MO	First
Aidyn	O'Daniel	Immaculate Conception School: Jackson, MO	Second
Adyson	Seabaugh	Immaculate Conception School: Jackson, MO	Second
Audrey	Koetting	Immaculate Conception School: Jackson, MO	Third
Samantha	Schoolman	St. Vincent de Paul: Cape Girardeau, MO	Third
Lolah	Wunderlich	Immaculate Conception School: Jackson, MO	Third

## **OVERALL BEST IN JUNIOR CHEMISTRY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Alyssa	Jurgens	St. Vincent de Paul: Cape Girardeau, MO

## **JUNIOR COMPUTER SCIENCE, ENERGY AND TRANSPORTATION, & ENGINEERING**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Samuel	Criddle	Immaculate Conception School: Jackson, MO	First
Kolton	Johnson	Immaculate Conception School: Jackson, MO	Second
Audrey	Abt	St. Joseph Catholic, Farmington	Second
Trenton	Schumacker	Immaculate Conception School: Jackson, MO	Third
Parker	Lemmons	St. Vincent de Paul: Cape Girardeau, MO	Third

## **OVERALL BEST IN JUNIOR COMPUTER SCIENCE, ENERGY AND TRANSPORTATION, & ENGINEERING**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Samuel	Criddle	Immaculate Conception School: Jackson, MO

## **JUNIOR ENVIRONMENTAL MANAGEMENT AND SCIENCES**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Elizabeth	Buchheit	Immaculate Conception School: Jackson, MO	First
Christian	Armstrong	St. Vincent de Paul School Cape Girardeau MO	Second
Ethan	Casey	St. Vincent de Paul School Cape Girardeau MO	Second
Kiya	Wade	St. Joseph Catholic, Farmington	Second
Aidan	Miller	Qulin Middle School	Third

## **OVERALL BEST IN JUNIOR ENVIRONMENTAL MANAGEMENT AND SCIENCES**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Elizabeth	Buchheit	Immaculate Conception School: Jackson, MO

## **JUNIOR MEDICINE AND HEALTH SCIENCES**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Zane	Morgan	Qulin Middle School	First
Alexis	Parson	Qulin Middle School	Second
Presley	Pfeiffer	St. Vincent de Paul: Cape Girardeau, MO	Second
Cade	Arnold	Bernie School District	Third
Gabrielle	Rubel	Immaculate Conception School: Jackson, MO	Third

## **OVERALL BEST IN JUNIOR MEDICINE AND HEALTH SCIENCES**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Zane	Morgan	Qulin Middle School

## **JUNIOR PHYSICS AND ASTRONOMY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Abigail	Spooler	Immaculate Conception School: Jackson, MO	First
Blake	DeBrock	Immaculate Conception School: Jackson, MO	First
Gabe	Jones	Immaculate Conception School: Jackson, MO	Second
Macie	Botsch	Bernie School District	Second
John Paul	Alipala	Immaculate Conception School: Jackson, MO	Third
Carson	Golden Koppeis	St. Joseph Catholic, Farmington	Third
Kevin	O'Hara	St. Joseph Catholic, Farmington	Third

## **OVERALL JUNIOR PHYSICS AND ASTRONOMY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Abigail	Spooler	Immaculate Conception School: Jackson, MO

## **JUNIOR PLANT SCIENCES**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Joshua	Horrell	Leopold R-III School District	First
Wil	Seiler	Leopold R-III School District	Second
Addie	Gardner	St. Vincent de Paul School Cape Girardeau MO	Second
Abby	Martin	St. Vincent de Paul: Cape Girardeau, MO	Second
Aubrey	Keran	Immaculate Conception School: Jackson, MO	Third
Alex	Cummings	St. Joseph Catholic, Farmington	Third
Brayden	Diaz	St. Joseph Catholic, Farmington	Third

## **OVERALL BEST IN JUNIOR PLANT SCIENCES**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Joshua	Horrell	Leopold R-III School District

# Senior Division Winners

## **SENIOR ANIMAL SCIENCES, COMPUTERSCIENCE, EARTH AND PLANETARY SCIENCE, ENGINEERING, ENVIRONMENTAL MANAGEMENT, PHYSICS AND ASTRONOMY, & PLANT SCIENCE**

First Name	Last Name	School	Place
Tate	Friedrich	Jackson High School	First
Emma	Shields	Jackson Senior High School	Second
Logan	Bruns	Jackson Senior High School	Third

## **OVERALL BEST IN SENIOR ANIMAL SCIENCES, COMPUTERSCIENCE, EARTH AND PLANETARY SCIENCE, ENGINEERING, ENVIRONMENTAL MANAGEMENT, PHYSICS AND ASTRONOMY, & PLANT SCIENCE**

First Name	Last Name	School
Tate	Friedrich	Jackson High School

## **SENIOR BEHAVIORAL AND SOCIAL SCIENCES & MEDICINE AND HEALTH**

First Name	Last Name	School	Place
Lillian	Hoffman	Jackson High School	First
Reagan	Newell	Jackson High School	Second
Bailey	O'Neal	Jackson High School	Third

## **OVERALL BEST IN SENIOR BEHAVIORAL AND SOCIAL SCIENCES & MEDICINE AND HEALTH**

First Name	Last Name	School
Lillian	Hoffman	Jackson High School

## **SENIOR BIOCHEMISTRY, CELLULAR AND MOLECULAR BIOLOGY & MICROBIOLOGY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Mallorie	Coffee	Jackson High School	First
Riley	O'Neal	Jackson High School	Second
Lilly	Bridges	Bernie School District	Third

## **OVERALL BEST IN SENIOR BIOCHEMISTRY, CELLULAR AND MOLECULAR BIOLOGY & MICROBIOLOGY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Mallorie	Coffee	Jackson High School

## **SENIOR CHEMISTRY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>	<b>Place</b>
Eli	Jones	Jackson High School	First
Hiren	Parekh	Saxony Lutheran High School	First
Megan	Maddox	Portageville High School	Second
Jayse	Scherer	Portageville High School	Third

## **OVERALL BEST IN SENIOR CHEMISTRY**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Eli	Jones	Jackson High School

# Special Awards

## American Meteorological Society

The American Meteorological Society will be providing two certificates of Outstanding Achievement to students for creative scientific endeavor in the areas of atmospheric and related oceanic and hydrologic sciences.

**RECIPIENT: Hadley Dowell and Kate O'Hara  
St. Joseph Catholic, Farmington**

## American Psychological Association

The American Psychological Association (APA) Education Directorate will award one certificate recognizing outstanding research in psychology science under the category of behavioral and social sciences or any category related to psychology (e.g., animal sciences, biochemistry, computer science, environmental science, medicine & health).

**RECIPIENT: Bailey O'Neal  
Jackson High School**

## ASM Materials Education Foundation

The ASM Materials Education Foundation's Most Outstanding Exhibit in Materials Science will award a ribbon and certificate to the best materials engineering project. Ribbon and official certificate will be forwarded directly to the recipient in July or August.

**RECIPIENT: Blake DeBrock  
Immaculate Conception School, Jackson**

## Association for Women Geoscientists

The Association for Women Geoscientists (AWG) will be providing an Award Certificate to the female student whose exhibit exemplifies high standards of innovativeness and scientific excellence in geosciences. Special consideration will be given to projects that increase the public awareness of the geosciences, illustrate the interdisciplinary nature of the geosciences, or promote the sensitivity to the earth as a global system.

**RECIPIENT: Clare Maloney  
St. Joseph Catholic, Farmington**

### **Cape Girardeau Area Engineers Club**

The Cape Girardeau Area Engineers Club will be providing Cash Gift to the best junior (\$50) and senior (\$100) engineering exhibits.

**JUNIOR RECIPIENT: Samuel Criddle  
Immaculate Conception School, Jackson**

**SENIOR RECIPIENT: Tate Friedrich  
Jackson High School**

### **Lemelson Early Inventor Prize**

The 2021 Lemelson Early Inventor Prize, sponsored by the Lemelson Foundation, will provide a \$100 award and a certificate to a young inventor creating a promising solution to real world problems. Only grades 6<sup>th</sup> – 8<sup>th</sup> projects are eligible. Once the student returns documentation to Society for Science & the Public, the award check will be returned to them.

**RECIPIENT: Gabe Jones  
Immaculate Conception School, Jackson**

### **Mu Alpha Theta**

Mu Alpha Theta (National High School and Two-Year College Mathematics Honor Society) will provide one award to the individual or group project (9-12<sup>th</sup> grade) demonstrating the most challenging, original, thorough, and creative investigation of a problem involving mathematics accessible to a High School student. *(This project does not necessarily have to be entered in the Mathematics category).*

**RECIPIENT: Logan Bruns  
Jackson High School**

### **NASA EARTH System Science Award**

This award will go to the one individual whose project offers the greatest insight into earth's interconnected systems. The project should incorporate studies of different components of Earth systems, their interactions and their evolution over time.

**RECIPIENT: Hadley Dowell and Kate O'Hara  
St. Joseph Catholic, Farmington**



## **National Oceanic and Atmospheric Administration (NOAA)**

### **“Taking the Pulse of the Planet Award”**

This award will go to the one project (Junior or Senior division) selected from among all the general award categories whose research emphasizes NOAA’s mission of Science, Service and Stewardship: *“To understand and predict changes in climate, weather, oceans, and coasts; to share that knowledge and information with others; and to conserve and manage coastal and marine ecosystems and resources.”*

**RECIPIENT: Emma Shields  
Jackson High School**

## **Office of Naval Research - (U.S. Navy/ U.S. Marine Corps)**

The Office of Naval Research is committed to supporting Science, Technology, Engineering and Mathematics (STEM) initiatives and programs, and will recognize two students (Grade 9-12) with a Certificate of Achievement, Medallion and an Award Letter (redeemable with TMT Group, Inc. for gift cards valued at \$50). Five students in the Junior Division will be recognized with a Certificate of Achievement and Medallion only.

**Senior Recipient #1: Hiren Parekh, Saxony Lutheran High School**  
**Senior Recipient #2: Eli Jones, Jackson High School**

**Junior Recipient #1: Lily Coy, Immaculate Conception School**  
**Junior Recipient #2: Max LeGrand, St. Vincent de Paul, Cape Girardeau**  
**Junior Recipient #3: Clare Maloney, St. Joseph Catholic, Farmington**  
**Junior Recipient #4: Samuel Criddle, Immaculate Conception School**  
**Junior Recipient #5: Elizabeth Buchheit, Immaculate Conception School**

## **Ricoh Sustainable Development Award**

This award will go to the one (individual) or team project, selected from among all the general award categories for their outstanding efforts in addressing issues of environmental responsibility and sustainable development in their science and engineering project.

**RECIPIENT: Elizabeth Buchheit  
Immaculate Conception School, Jackson**

## **Society for In Vitro Biology**

The Society for In Vitro biology will provide one award to the most outstanding 11<sup>th</sup> grade student exhibiting in the areas of plant or animal in vitro biology or tissue culture.

**RECIPIENT: Emma Shields  
Jackson High School**

### **Southeast HEALTH Teacher Award**

Southeast HEALTH will provide a \$100 cash award to the top teachers as designated by the judges at the fair.

**RECIPIENT #1: Leanne Thele, Jackson High School**  
**RECIPIENT #2: John England, St. Joseph Catholic, Farmington**  
**RECIPIENT #3: Cliff Lankheit, Immaculate Conception School**

### **U.S. Agency for International Development (USAID)**

The U.S. Agency for International Development (USAID) will be providing a certificate to the most outstanding project with relevance to solving an important global development challenge.

**RECIPIENT: Charlotte Sparks**  
**Jackson High School**

### **U.S. Metric Association**

The U.S. Metric Association will be providing a certificate to a student whose project involves quantitative measures and which best uses the SI metric system for those measures.

**RECIPIENT: Logan Bruns**  
**Jackson High School**

### **U.S. Stockholm Junior Water Prize**

The Stockholm Junior Water Prize will be presented to a student, grade 9-12, with a science project aimed at enhancing the quality of life through the improvement of water quality, water resource management, or water and wastewater treatment. Student will then be eligible to enter the state Stockholm Junior Water Prize competition.

**RECIPIENT: Emma Shields**  
**Jackson High School**

### **Yale Science and Engineering Association**

The Yale Science & Engineering Association, Inc. will recognize the most outstanding 11<sup>th</sup> grade project exhibiting in the areas of Chemistry, Computer Science, Engineering, or Physics. *(A formal award certificate, suitable for framing and a pewter medallion will be forwarded directly to the recipient #1 by the end of September.)*

**RECIPIENT #1: Hiren Parekh**  
**Saxony Lutheran High School**

**RECIPIENT #2: Tate Friedrich**  
**Jackson High School**

## **BROADCOM MASTERS**

The Broadcom MASTERS (Math, Applied Science, Technology and Engineering for Rising Stars) is a competition for 6-8<sup>th</sup> grade students who participate in an SSP-affiliated fair. The top 10% of students competing here today have the honor of continuing their science fair journey by applying to compete in the Broadcom MASTERS. Broadcom MASTERS finalists will compete for more than \$100,000 in prizes, including a top prize of \$25,000 and scholarships for STEM summer camps. From the entrants, the Top 300 MASTERS will be selected, followed by 30 finalists. Additionally, each of the finalists' schools receive \$1,000.

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Audrey	Abt	St. Joseph Catholic, Farmington
Christian	Armstrong	St. Vincent de Paul School Cape Girardeau MO
Macie	Botsch	Bernie School District
Elizabeth	Buchheit	Immaculate Conception School: Jackson, MO
Cora	Burford	Immaculate Conception School: Jackson, MO
Lily	Carr	Immaculate Conception School: Jackson, MO
Ethan	Casey	St. Vincent de Paul School Cape Girardeau MO
Lily	Coy	Immaculate Conception School: Jackson, MO
Samuel	Criddle	Immaculate Conception School: Jackson, MO
Blake	DeBrock	Immaculate Conception School: Jackson, MO
Addie	Gardner	St. Vincent de Paul School Cape Girardeau MO
Hailey	Henderson	Immaculate Conception School: Jackson, MO
Joshua	Horrell	Leopold R-III School District
Kolton	Johnson	Immaculate Conception School: Jackson, MO
Gabe	Jones	Immaculate Conception School: Jackson, MO
Alyssa	Jurgens	St. Vincent de Paul: Cape Girardeau, MO
Sylvia	Kester	Immaculate Conception School: Jackson, MO
Abby	Martin	St. Vincent de Paul: Cape Girardeau, MO
Lyla	Martin	Immaculate Conception School: Jackson, MO
Madison	Massa	Leopold R-III School District
Zane	Morgan	Qulin Middle School
Aidyn	O'Daniel	Immaculate Conception School: Jackson, MO
Alexis	Parson	Qulin Middle School
Thomas	Patterson	Qulin Middle School
Presley	Pfeiffer	St. Vincent de Paul: Cape Girardeau, MO
Adyson	Seabaugh	Immaculate Conception School: Jackson, MO
Wil	Seiler	Leopold R-III School District
Abigail	Spooler	Immaculate Conception School: Jackson, MO
Kiya	Wade	St. Joseph Catholic, Farmington

## **BEST GROUP**

**RECIPIENTS: Christian Armstrong and Ethan Casey, St. Vincent de Paul, Cape Girardeau, MO**

## **OVERALL JUNIOR LIFE SCIENCE**

Recognition will be given to the project deemed best overall in the junior division from among the Junior Life Sciences.

**RECIPIENT: Elizabeth Buchheit, Immaculate Conception School**

## **OVERALL JUNIOR PHYSICAL SCIENCE**

Recognition will be given to the project deemed best overall in the junior division from among the Junior Physical Sciences.

**RECIPIENT: Abigail Spooler, Immaculate Conception School**

**DR. E. LAWRENCE BAHN MEMORIAL FUND** will be awarded to a student who is participating in the current Regional Science Fair and is a senior from an approved public, parochial, or private school within the boundaries of the Southeast Missouri Regional Science Fair. The student must declare his/her sincere intention of enrolling as a full-time student at Southeast Missouri State University. The recipient will be chosen by satisfying the above criteria and accumulating points in the Science Fairs. The student will not receive the award if he or she does not enroll at Southeast the next Fall semester.

**RECIPIENT: Mallorie Coffee, Jackson High School**

**Regeneron Biomedical Science Award** will be awarded to one project of a high school student in the 9th, 10th, 11th, or 12th grade in the areas of Biochemistry, Biomedical & Molecular Biology, Cellular & Molecular Biology, Computational Biology & Bioinformatics, Microbiology, or Translational Medical Science. The project should incorporate the following:

- Lead With Science: Demonstrate command of and passion for science
- Take On Big Ideas: Exemplify traits of a driven thinker
- Make It Happen: Demonstrate flexibility and a continuous learner mindset
- Be Great Together: Embodies traits of an inspiring leader
- Do What's Right: Embody a drive to use science for good

Once the awardee returns documentation to Society for Science & the Public, a \$500 award check will be returned to them.

**RECIPIENT: Hiren Parekh  
Saxony Lutheran High School**

### **ISEF Winners**

The three top senior division exhibits will participate in the 2021 Virtual Regeneron International Science and Engineering Fair.

**RECIPIENT #1: Mallorie Coffee, Jackson High School**

**RECIPIENT #2: Eli Jones, Jackson High School**

**RECIPIENT #3: Hiren Parekh, Saxony Lutheran High School**