THE 66th ANNUAL OZARKS SCIENCE & ENGINEERING FAIR

HAMMONS STUDENT CENTER MISSOURI STATE UNIVERSITY

April 2 through April 4, 2024

2024 WINNERS



Missouri State University - College of Natural & Applied Sciences
Missouri State University Foundation
Schneider Foundation
Cheryl Wrinkle



MASTER OF CEREMONIES

MICHELLE BREWER
EXECUTIVE DIRECTOR
OZARKS SCIENCE & ENGINEERING FAIR

DR. TAMERA JAHNKE, DEAN
COLLEGE OF NATURAL AND APPLIED SCIENCES
MISSOURI STATE UNIVERSITY
PRESENTER OF AWARDS



STEERING COMMITTEE MEMBERS

EXECUTIVE DIRECTOR: DISPLAY & SAFETY: PLACEMENT AWARDS: SPECIAL AWARDS: VOLUNTEERS: MARKETING: MICHELLE BREWER TOM TOMASI SAMANTHA COOPER DENISE VINTON HELLEN AKINYI RYNE EMERICK



SCIENTIFIC REVIEW COMMITTEE

DR. TOM TOMASI, CHAIR
DR. MIRZA BABUR, MICROBIOLOGY
BRIAN HIGH, CHEMISTRY
DR. CARLY YADON, HUMAN BEHAVIOR
DR. MICHAEL PFANDER, DVM, NONHUMAN VERTEBRATES



SENIOR DIVISION GRAND PRIZE WINNERS & ALTERNATES

(Grand Prize Awards Sponsored by: MSU College of Natural & Applied Sciences, Schneider Foundation & Cheryl Wrinkle. - includes plaques & trip to the Regeneron International Science & Engineering Fair for the Grand Prize Winners.)

GRAND PRIZE Joseph Tietze

Novel Application of Toroidal Propellers on

Single Propeller Fixed-Wing Aircraft

Lebanon High School

Ryne Emerick

GRAND PRIZE Nathan Wu

Detecting Early Melanoma Cancer via Machine

Learning

Greenwood Lab School

Kristy Gilmore

ist ALTERNATE Keith Bass

Implementation of a Proportional-Integral-

Derivative (PID) Controller-emulating

Feedforward Neural Network to Improve the Success Confidence of Autonomous Attitude

Control for Low-Orbit Satellites

Camdenton High School

Andrew Fecteau

2nd ALTERNATE Rylan Archer

Ionic Thrust: Manipulation of Electro-

Hydrodynamics

Lebanon High School

Ryne Emerick

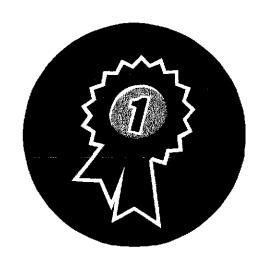
IUNIOR DIVISION GRAND PRIZE WINNERS

(Plaque to each Junior Grand Prize Winner & Teacher)

GRAND PRIZE Sania Rehman

Facial Expression Recognition using Machine Learning to predict Emotions Scholars at Central Elicia Ligon

THE 2024 JUNIOR DIVISION



PLACEMENT AWARD WINNERS!

Behavioral and Socia	Behavioral and Social Sciences		
Honorable Mention			
Clara Satterwhite	JR-BEH-0376	Scholars at Central	
Whitley Dill	JR-BEH-0420	Marshfield R-1	
Emma Morrison	JR-BEH-0420	Marshfield R-1	
Third Place			
Jackson Machin	JR-BEH-0396	Scholars at Central	
Andy Jin	JR-BEH-0407	Scholars at Central	
Second Place			
Ethan Ethridge	JR-BEH-0361	Scholars at Central	
Miho Yoshimatsu	JR-BEH-0399	Scholars at Central	
First Place			
Sania Rehman	JR-BEH-0478	Scholars at Central	

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Biochemistry			Junior
Second Place			
Lyla Naslund	JR-BIO-0472	Camdenton Middle School	
Botany			Junior
Honorable Mention		· · · · · · · · · · · · · · · · · · ·	
Gianna Toth	JR-BOT-0364	Scholars at Central	
Third Place			
Elizabeth Cantrell	JR-BOT-0372	Scholars at Central	
Second Place			
Boston Hartman	JR-BOT-0423	Marshfield R-1	
Archer Hoefer	JR-80T-0423	Marshfield R-1	
First Place			
Jackson Bruns	JR-BOT-0475	Camdenton Middle School	

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Chemistry			Junior
Honorable Mention			
Matney Crawford	JR-CHE-0430	Marshfield R-1	
Abigail Traughber	JR-CHE-0430	Marshfield R-1	
Third Place			
Devin Bhattacharyya	JR-CHE-0391	Scholars at Central	
Second Place			
Spencer Perl	JR-CHE-0500	Norwood R-1	
First Place			
Marion Miller	JR-CHE-0491	Norwood R-1	·

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Computer Science			Junior
Third Place			
Gabriel Colvin	JR-COM-0412	Greenwood Lab School	
Karamjot Singh	JR-COM-0412	Greenwood Lab School	
Second Place			
Micah Christian	JR-COM-0418	Marshfield R-1	
Ethan Hammons	JR-COM-0418	Marshfield R-1	
Adam Abdalla	JR-COM-0471	Greenwood Lab School	
Earth and Planetary S	cience		Junior
Honorable Mention			
Anna Harris	JR-EAR-0421	Marshfield R-1	
Kason Peck	JR-EAR-0421	Marshfield R-1	

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Engineering			Junior
Honorable Mention		# The state of the	
Jackson Henry	JR-ENG-0433	Marshfield R-1	
Russell Johnson	JR-ENG-0433	Marshfield R-1	
Braya Scott	JR-ENG-0479	Camdenton Middle School	
Third Place			
sawyer berkstresser	JR-ENG-0443	Marshfield R-1	
Dylan Sowers	JR-ENG-0443	Marshfield R-1	
Connor Boyle	JR-ENG-0446	Camdenton Middle School	
Second Place			
Noah Clark	JR-ENG-0439	Marshfield R-1	
First Place			
Luke Patton	JR-ENG-0468	Camdenton Middle School	

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Environmental Sciences

Third Place
Linden Even JR-ENV-0401 Scholars at Central

Second Place
Cooper Self JR-ENV-0469 Camdenton Middle School

First Place
Bryson Chadwell JR-ENV-0493 Norwood R-1

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Medicine and Health	Medicine and Health Sciences		
Honorable Mention			
Suhasmukul Santra	JR-MED-0366	Scholars at Central	
Third Place			
Ryan Radlund	JR-MED-0465	Camdenton Middle School	
Second Place			
Charles Boyle	JR-MED-0449	Camdenton Middle School	
First Place			
Zain Rehman	JR-MED-0467	Scholars at Central	

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Microbiology			Junior
Honorable Mention			
Lindsleigh Todd	JR-MIC-0489	Norwood R-1	
Third Place			
Ilyaan Khan	JR-MIC-0413	Greenwood Lab School	
Taaha Khan	JR-MIC-0413	Greenwood Lab School	
Cameron McQueary	JR-MIC-0413	Greenwood Lab School	
Second Place			
Chase Benedick	JR-MIC-0466	Camdenton Middle School	
First Place			·
Maha Babur	JR-MIC-0365	Scholars at Central	

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Physics and Astrono	my		Junior
Honorable Mention			
Graham Heider	JR-PHY-0398	Scholars at Central	
Third Place			
Arrington Knight	JR-PHY-0425	Marshfield R-1	
Carli Massey	JR-PHY-0 42 5	Marshfield R-1	
Second Place			
Brock Jensen	JR-PHY-0429	Marshfield R-1	
Lincoln Perkins	JR-PHY-0429	Marshfield R-1	
First Place			
Ian Johnson	JR-PHY-0470	Camdenton Middle School	

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Zoology			Junior
Third Place			
Greyson Wright	JR-ZOO-0368	Scholars at Central	
Elizabeth Lawson	JR-ZOO-0402	Scholars at Central	
Miranda Vancil	JR-ZOO-0480	Norwood R-1	
Second Place			
Lilly Finch	JR-ZOO-0486	Norwood R-1	
First Place			
Gavin Kurth	JR-ZOO-0459	Camdenton Middle School	

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THE 2024 SENIOR DIVISION



PLACEMENT AWARD WINNERS!

Behavioral and Social	Sciences	Senior
Third Place		
Katelyn Clouse	SR-BEH-0410	Hartville High School
Second Place		
Agata Golubchenko	SR-BEH-0445	The Summit Preparatory School
Biochemistry		Senior
Honorable Mention		
Haley Parker	SR-BIO-0461	Hartville High School
Third Place		
Max Hirschi	SR-BIO-0452	Reeds Spring High School
Connor Love	SR-BIO-0452	Reeds Spring High School

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Botany			Senior
Honorable Mention			
Sophie Evans	SR-BOT-0490	Lebanon High School	
Third Place			
Nicole Johnson	SR-BOT-0460	The Summit Preparatory School	
Second Place			
Kelsey Daugherty	SR-BOT-0448	Lebanon High School	
First Place			
Lindsey Prince	SR-BOT-0482	Lebanon High School	

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Chemistry			Senior
Third Place			
Rielan Frisbie	SR-CHE-0455	Reeds Spring High School	
Violet Hall	SR-CHE-0455	Reeds Spring High School	
Alex Payne	SR-CHE-0455	Reeds Spring High School	
Second Place			
Sadie Rinck	SR-CHE-0499	Lebanon High School	
First Place			
Allison Loughary	SR-CHE-0476	Springfield Central High School	
Computer Science			Senior
First Place			
Nathan W u	SR-COM-0485	Greenwood Lab School	

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Engineering			Senior
Honorable Mention			
Baylee Randolph	SR-ENG-0502	Lebanon High School	
Third Place			
Larry Quade	SR-ENG-0501	Camdenton High School	
Second Place			
Rylan Archer	SR-ENG-0462	Lebanon High School	
First Place			
Joseph Tietze	SR-ENG-0473	Lebanon High School	

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Environmental Sciences		Senior	
Honorable Mention	· · · · · · · · · · · · · · · · · · ·		
Talon Lemoine	SR-ENV-0450	Reeds Spring High School	
Noah Norris	SR-ENV-0450	Reeds Spring High School	
Iain Phillips	SR-ENV-0450	Reeds Spring High School	
Third Place			
Kasey Hicks	SR-ENV-0416	Lebanon High School	
Second Place			
Sean Gallagher	SR-ENV-0415	Strafford Schools	
First Place			
Mary Sellers	SR-ENV-0458	Reeds Spring High School	

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Medicine and Health Sciences		Senior	
Third Place			
Luicie Taylor	SR-MED-0464	Hartville High School	
Second Place			
Jathin Bande	SR-MED-0406	Springfield Central High School	
Ethan Johnson	SR-MED-0406	Springfield Central High School	
First Place			
Olivia McGruder	SR-MED-0444	Lebanon High School	
Microbiology Third Place			Senior
Opal Antoszewski	SR-MIC-0411	Lebanon High School	
Second Place			
Zebediah Bruna	SR-MIC-0498	Lebanon High School	

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Physics and Astronomy

Senior

First Place

Keith Bass

SR-PHY-0503

Camdenton High School

Zoology

Senior

First Place

Elseya Ligon

SR-ZOO-0359

Springfield Central High School

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THE 2024 JUNIOR & SENIOR DIVISION



SPECIAL AWARD WINNERS!

Marion Miller	The effect of fabric softer on flammability.	Norwood R-1
ACS Chemistry Awar	d-Senior Division	
Allison Loughary	An Investigation into the Effectiveness of Fingerprint Fuming	Springfield Central High School
American Psychologi	cal Association	
Agata Golubchenko	Importance of Psychology in Sport: Tools That Will Help Athletes Mental Preparation for Performance	The Summit Preparatory School
American Society of	Mammalogists-Junior Division	
Lilly Finch	The Relationship Between Mineral Blocks and Buil Preference.	Norwood R-1
DoD STEM Leadersh	ip Prize	
Cooper Self	Slick Pistons	Camdenton Middle School
Grand Award - 1st A	lt .	
Keith Bass	Implementation of a Proportional-Integral-Derivative (PID) Controller-emulating Feedforward Neural Network to Improve the Success Confidence of Autonomous Attitude Control for Low-Orbit Satellites	Camdenton High School
Grand Award - 2nd	Alt	
Rylan Archer	Ionic Thrust: Manipulation of Electro-Hydrodynamics	Lebanon High School
Grand Award - Jr		
Sania Rehman	Facial Expression Recognition using Machine Learning to predict Emotions	Scholars at Central
Grand Award - Sr		
Joseph Tietze	Novel Application of Toroidal Propellers on Single	Lebanon High School
Nathan Wu	Propeller Fixed-Wing Aircraft Detecting Early Melanoma Cancer via Machine Learning	Greenwood Lab School
Greater Ozarks Audu	ubon Society-Conservation Award	
Linden Even	The Final Straw	Scholars at Central

Lemelson Early Inver	ntor Prize	
Noah Clark	Automatic Dog Feeder	Marshfield R-1
Lisa Reece Memorial	Award-Junior Division	
Maha Babur	Microbes and Makeup Do different species of bacteria grow on the faces of people who wear makeup then those who dont?	Scholars at Central
Lisa Reece Memorial	Award-Senior Division	
Allison Loughary	An Investigation into the Effectiveness of Fingerprint Fuming	Springfield Central High School
Lou and Nadine Moo	re Memorial Award	
sawyer berkstresser Dylan Sowers	Saving our elders Saving our elders	Marshfie l d R-1 Marshfie ld R- 1
Miles V. Barnhart Exc	cellence in Science and Engineering Award	4.44.44.44
Joseph Tietze	Novel Application of Toroidal Propellers on Single Propeller Fixed-Wing Aircraft	Lebanon High School
Nathan Wu	Detecting Early Melanoma Cancer via Machine Learning	Greenwood Lab School
Missouri Department	of Conservation-Junior Division	
Bryson Chadwell	The relationship between rotational grazing and N-P-K found in soil	Norwood R-1
Missouri Department	of Conservation-Senior Division	
Mary Sellers	Educating the Future Generation on Invasive Species	Reeds Spring High Schoo
Missouri State Univer	rsity Scholarship	
Elseya Ligon	Maternal effects on the immune response of Macrochelys temminckii	Springfield Central High Schoo
Olivia McGruder	Effects of Sodium Bicarbonate On Methotrexate Affected	Lebanon High Schoo
Mary Sellers	Livers in Danio rerio: An Embryological study Educating the Future Generation on Invasive Species	Reeds Spring High Schoo
Joseph Tietze	Novel Application of Toroidal Propellers on Single	Lebanon High Schoo
-F	Propeller Fixed-Wing Aircraft	5
Allison Loughary	An Investigation into the Effectiveness of Fingerprint Furning	Springfield Central High Schoo
Lindsey Prince	Unveiling Juglone's Potential:Targeting Sericea lespedeza in Invasive Plant Control	Lebanon High Schoo
Nathan W u	Detecting Early Melanoma Cancer via Machine Learning	Greenwood Lab Schoo

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Keith Bass Implementation of a Proportional-Integral-Derivative

(PID) Controller-emulating Feedforward Neural Network to Improve the Success Confidence of Autonomous

Attitude Control for Low-Orbit Satellites

Camdenton High School

MSPE Winners' Luncheon

temminckii

Olivia McGruder Effects of Sodium Bicarbonate On Methotrexate Affected

Livers in Danio rerio: An Embryological study

Mary Sellers Educating the Future Generation on Invasive Species Rylan Archer Ionic Thrust: Manipulation of Electro-Hydrodynamics Joseph Tietze Novel Application of Toroidal Propellers on Single

Propeller Fixed-Wing Aircraft

Allison Loughary An Investigation into the Effectiveness of Fingerprint

Furning

Lindsey Prince Unveiling Juglone's Potential: Targeting Sericea lespedeza

in Invasive Plant Control

Nathan Wu Detecting Early Melanoma Cancer via Machine Learning Keith Bass Implementation of a Proportional-Integral-Derivative

(PID) Controller-emulating Feedforward Neural Network to Improve the Success Confidence of Autonomous

Attitude Control for Low-Orbit Satellites

Lebanon High School

Reeds Spring High School

Lebanon High School Lebanon High School

Springfield Central High School

Lebanon High School

Greenwood Lab School

Camdenton High School

MSU CNAS Grand Prize Award-Junior Division

Sania Rehman Facial Expression Recognition using Machine Learning to Scholars at Central

predict Emotions

MSU CNAS Grand Prize Award-Senior Division

Joseph Tietze Novel Application of Toroidal Propellers on Single Lebanon High School

Propeller Fixed-Wing Aircraft

Nathan Wu Detecting Early Melanoma Cancer via Machine Learning Greenwood Lab School

MSU Dept of Biology Category Awards

Elseya Ligon Maternal effects on the immune response of Macrochelys Springfield Central High School

temminckii

Kasey Hicks Assessing the Impacts of Lead-Loaded Biochar

Degradation on Caenorhabditis elegans Population

Growth

Luicie Taylor The Effects of Artificial Sweeteners on the Lifespan of

Drosophila melanogaster

Lindsey Prince Unveiling Juglone's Potential: Targeting Sericea lespedeza

in Invasive Plant Control

Zebediah Bruna **Enhancing EPS Degradation Through Probiotic**

Supplementation of Zophobas Morio

Hartville High School Lebanon High School

Lebanon High School

Lebanon High School

MSU Dept. of Biology Category Awards-Junior Division

Maha Babur

Microbes and Makeup Do different species of bacteria

grow on the faces of people who wear makeup then

those who dont?

Suhasmukul Santra

Elucidating the Effects of Blood Types on Immunity and

the Ability to Fight Infectious Diseases Better

Gavin Kurth Cooper Self Jackson Bruns Crayfish mystery Slick Pistons

Earth's Invisible Farmers

Scholars at Central

Scholars at Central

Camdenton Middle School Camdenton Middle School

Camdenton Middle School

MSU Dept. of Biology Work Study Award

Zebediah Bruna

Enhancing EPS Degradation Through Probiotic

Supplementation of Zophobas Morio

Lebanon High School

NASA Earth System Science Award

Sean Gallagher

The effect of magnetic fields on hydrogen gas production

rates from high-efficiency solar-powered water electrolysis with sodium hydroxide electrolyte.

Strafford Schools

NOAA Taking the Pulse of the Planet Award

Zebediah Bruna

Enhancing EPS Degradation Through Probiotic

Supplementation of Zophobas Morio

Lebanon High School

Regeneron Biomedical Science Award

Ethan Johnson Jathin Bande RAMDS: Retrieval Augmented Medical Diagnosis System RAMDS: Retrieval Augmented Medical Diagnosis System

Springfield Central High School Springfield Central High School

Ricoh Sustainable Development Award

Lindsey Prince

Unveiling Juglone's Potential: Targeting Sericea lespedeza

in Invasive Plant Control

Lebanon High School

Schneider Award - Junior Division

Ian Johnson Jackson Bruns Take Me Out to the Ballpark

Earth's Invisible Farmers

Sania Rehman

Facial Expression Recognition using Machine Learning to

predict Emotions

Marion Miller

The effect of fabric softer on flammability.

Bryson Chadwell The relationship between rotational grazing and N-P-K

found in soil

Camdenton Middle School Camdenton Middle School

Scholars at Central

Norwood R-1

Norwood R-1

Schneider Award - Senior Division

Elseya Ligon

Maternal effects on the immune response of Macrochelys

temminckii

Olivia McGruder

Effects of Sodium Bicarbonate On Methotrexate Affected

Livers in Danio rerio: An Embryological study

Springfield Central High School

Lebanon High School

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Mary Sellers Joseph Tietze Educating the Future Generation on Invasive Species

Novel Application of Toroidal Propellers on Single

Propeller Fixed-Wing Aircraft

Allison Loughary

An Investigation into the Effectiveness of Fingerprint

Fumino

Reeds Spring High School

Lebanon High School

Springfield Central High School

Smith Glynn Callaway Foundation-Junior Division

Maha Babur

Microbes and Makeup Do different species of bacteria

grow on the faces of people who wear makeup then

those who dont?

Charles Boyle

Smile Bright With Pearly Whites

Zain Rehman

Heart Disease Prediction through Ensemble Learning

Scholars at Central

Camdenton Middle School

Techniques with Hyper Parameter Tuning

Sania Rehman

Facial Expression Recognition using Machine Learning to

predict Emotions

Marion Miller

The effect of fabric softer on flammability.

Norwood R-1

Scholars at Central

Scholars at Central

Smith Glynn Callaway Foundation-Senior Division

Ethan Johnson Jathin Bande RAMDS: Retrieval Augmented Medical Diagnosis System RAMDS: Retrieval Augmented Medical Diagnosis System

Olivia McGruder

Effects of Sodium Bicarbonate On Methotrexate Affected Livers in Danio rerio: An Embryological study

Lebanon High School

The Summit Preparatory School

Springfield Central High School Springfield Central High School

Agata Golubchenko

Importance of Psychology in Sport: Tools That Will Help

Athletes Mental Preparation for Performance

Allison Loughary

An Investigation into the Effectiveness of Fingerprint

Fuming

Zebediah Bruna

Enhancing EPS Degradation Through Probiotic

Springfield Central High School Lebanon High School

Society for In Vitro Biology

Zebediah Bruna

Enhancing EPS Degradation Through Probiotic

Supplementation of Zophobas Morio

Supplementation of Zophobas Morio

Lebanon High School

Stan Howell Memorial Award

Jackson Bruns

Earth's Invisible Farmers

Lindsey Prince

Unveiling Juglone's Potential:Targeting Sericea lespedeza

in Invasive Plant Control

Camdenton Middle School Lebanon High School

Thermo Fisher Scientific Junior Innovators Challenge

Maha Babur

Microbes and Makeup Do different species of bacteria grow on the faces of people who wear makeup then

Scholars at Central

those who dont?

Gavin Kurth

Crayfish mystery

Zain Rehman

Heart Disease Prediction through Ensemble Learning

Camdenton Middle School Scholars at Central

Techniques with Hyper Parameter Tuning

Luke Patton Ian Johnson Improving the Tools of Ignorance Take Me Out to the Ballpark

Camdenton Middle School Camdenton Middle School Camdenton Middle School

Jackson Bruns

Earth's Invisible Farmers

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Sania Rehman

Facial Expression Recognition using Machine Learning to

predict Emotions

Marion Miller

The effect of fabric softer on flammability.

Bryson Chadwell

The relationship between rotational grazing and N-P-K

found in soil

Scholars at Central

Norwood R-1 Norwood R-1

U.S. Agency for International Development (USAID)

Sadie Rinck

Feasibility of Lithium Sulfate and Other Concentrations in

Place of Liquid Electrolytes in a Lithium Battery

Lebanon High School

U.S. Metric Association

Luke Patton

Improving the Tools of Ignorance

Camdenton Middle School

United States Air Force-Junior division

Russell Johnson Jackson Henry Wind powered generator Wind powered generator

Propeller Fixed-Wing Aircraft

Marshfield R-1

Marshfield R-1

United States Air Force-Senior division

Joseph Tietze

Novel Application of Toroidal Propellers on Single

Lebanon High School

Keith Bass

Implementation of a Proportional-Integral-Derivative

(PID) Controller-emulating Feedforward Neural Network to Improve the Success Confidence of Autonomous

Attitude Control for Low-Orbit Satellites

Camdenton High School

Women in Science-Junior Division

Maha Babur

Microbes and Makeup Do different species of bacteria grow on the faces of people who wear makeup then

those who dont?

Scholars at Central

Women in Science-Senior Division

Kelsey Daugherty

Unveiling Salicylic Acid's Potential: Enhancing Tomato Plant Resilience Against Meloidogyne incognita Race 3 Lebanon High School

Yale Science and Engineering Association

Keith Bass

Implementation of a Proportional-Integral-Derivative (PID) Controller-emulating Feedforward Neural Network to Improve the Success Confidence of Autonomous

Attitude Control for Low-Orbit Satellites

Camdenton High School

TEACHER AWARDS

THE ROBERT W. PLASTER MEMORIAL EXCELLENCE IN TEACHING AWARD

\$1,000 Cash Award and a certificate to the Teacher with the most Placement Awards in the Senior Division

> Ryne Emerick Lebanon High School

THE MARY JEAN PLASTER MEMORIAL EXCELLENCE IN TEACHING AWARD

\$1,000 Cash Award and a certificate to the Teacher with the Most Placement Awards in the Junior Division

> Elicia Ligon Scholars at Central

THE SYLVIA SPEAR MEMORIAL AWARD

\$50 Cash and a certificate to a First Time Teacher

> Christian Madsen Greenwood Lab Schools

THE JAMES K. TICE MEMORIAL TEACHER AWARD

This award of \$250 cash and a certificate has been established in memory of James K. Tice, whose constant support and encouragement of Missouri's teachers and students changed so many lives.

Mr. Tice served for many years as a teacher, principal and superintendent of K-12 schools. Even after he retired from public education, Mr. Tice continued his tireless dedication to improving educational opportunities for everyone. He was devoted to creating learning communities, by integrating current and emerging technologies into the classroom.

Mr. Tice was our coach, teacher, mentor, surrogate parent, and friend. He never failed to say "I appreciate you". It is our hope that the recipient of this award also hears "We appreciate you".

The recipient of this year's award is:

Aleth Rogers Norwood R-1

THE LAWRENCE E. BANKS, JR., MEMORIAL TECHNOLOGY FOR TEACHERS AWARD

This award of \$250 cash and a certificate has been established in memory of Lawrence E. Banks, Jr., the former Dean of the Missouri State University College of Natural and Applied Sciences and a long-time friend and supporter of the Fair.

Dr. Banks was dedicated to education in the state of Missouri and was a strong proponent of innovative educational projects at the K-12 level as well as higher education. In 2000, he received the Science Teachers of Missouri Distinguished Service Award in recognition of his tireless support and commitment to science education.

In memory of Dr. Banks' enthusiasm and interest in technology, the recipient of this award is encouraged to integrate technology in their classroom.

The recipient of this year's award is:

Jennifer Cramer Stoutland Schools

OZARKS SCIENCE & ENGINEERING FAIR JUNIOR DIVISION TEACHER AWARDS

This Certificate is awarded to the teachers of the Junior Division First Place Category winners. The recipients of the Junior Division Teacher Awards for 2024 are:

Elicia Ligon Central Scholars Amy Larrington Camdenton Middle

Tim Mulford Camdenton Middle Aleth Rogers Norwood R-1

OZARKS SCIENCE & ENGINEERING FAIR SENIOR DIVISION TEACHER AWARDS

This Certificate is awarded to the teachers of the Senior Division First Place Category winners. The recipients of the Senior Division Teacher Awards for 2024 are:

Ryan Emerick Lebanon HS Elicia Ligon Central HS

Kristy Gilmore Greenwood HS Richard White Reeds Spring

Andrew Fecteau Camdenton HS

SCHNEIDER TEACHER RECOGNITION

In recognition of the time, effort, and dedication of our OSEF teachers over and above their regular classroom responsibilities.

\$500

\$750

Andrew Frecteau

Army Larrington

Tim Mulford

Christian Madsen

Aleth Rogers

Kristy Gilmore

Tabitha Shaver Richard White

Jennifer Cramer

Bradley Pulliam

Tara Bonebrake

\$1,000

\$1,250

Ryne Emerick

Elicia Ligon

Keaton Patterson

Aaron Tillman

OZARKS SCIENCE & ENGINEERING FAIR JUNIOR DIVISION GRAND PRIZE TEACHER AWARD

This award of a plaque is awarded to the teacher of the Junior Division Grand Prize student project. The recipient of the OSEF Foundation Junior Division Grand Prize Teacher Award for 2024 is:

Elicia Ligon Scholars at Central

TEACHER AWARDS

OZARKS SCIENCE & ENGINEERING FAIR SENIOR DIVISION GRAND PRIZE ALTERNATES TEACHER AWARD

This award of a certificate is awarded to the teacher(s) of the Senior Division Grand Prize Alternates student projects. The recipients of the OSEF Foundation Senior Division Grand Prize Alternates Teacher Award for 2024 is:

Andrew Fecteau Camdenton High

Ryne Emerick Lebanon High

OZARKS SCIENCE & ENGINEERING FAIR SENIOR DIVISION GRAND PRIZE TEACHER AWARD

This award of a plaque is awarded to the teacher(s) of the Senior Division Grand Prize student projects. The recipients of the OSEF Foundation Senior Division Grand Prize Teacher Award for 2024 is:

Ryne Emerick Lebanon High

Kristy Gilmore Greenwood Lab School