

THE 57th ANNUAL OZARKS SCIENCE & ENGINEERING FAIR

HAMMONS STUDENT CENTER
MISSOURI STATE UNIVERSITY

April 4, 2017 – April 6, 2017



2017 WINNERS

Sponsored By:

Missouri State University – College of Natural & Applied Sciences
Missouri State University Foundation
Associated Electric Cooperative, Inc.
Schneider Foundation
Cheryl & Rodney Wrinkle



MASTER OF CEREMONIES

MICHELLE NORNGREN
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:
ELEMENTARY FAIR:

MEMBERS AT LARGE:
PLACEMENT AWARDS:
SPECIAL AWARDS:
VOLUNTEERS:

WEBMASTERS:

SOCIAL NETWORKING:

MICHELLE NORNGREN
KEN MCCRORY
LACEY GEIGER
HANNAH JULIAN
SAMANTHA COOPER
BEN DALTON
MICHELLE NORNGREN
SUE MCCRORY
DENISE VINTON
SUE MCCRORY
DENISE VINTON
SUE MCCRORY
MICHELLE NORNGREN



SCIENTIFIC REVIEW COMMITTEE

DR. TOM TOMASI, CHAIR
DR. PAUL SCHWEIGER, 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: Cheryl and Rodney Wrinkle, Schneider Foundation & Associated Electric Cooperative, Inc. - includes plaques & trip to the Intel International Science & Engineering Fair for the Grand Prize Winners.)

GRAND PRIZE

Olivia Kline

Establishment of a Permanent Cell Line of the Native Pollinator *Bombus impatiens*:

Applications in Entomology, Animal Science, and Nosema Research

Chris Reeves, Camdenton High School

GRAND PRIZE

Kelli Alford

Phototactic Response of *Orconectes virilis*

Chris Reeves, Camdenton High School

1st ALTERNATE

Tara Poole

Transgenerational Effects of E-Liquid and Nicotine on *C. elegans*

Chris Reeves, Camdenton High School

2nd ALTERNATE

Vincent Khor

The Effects of Extraocular Blue-Enriched LEDs on Human Reaction Time

Chris Reeves, Camdenton High School

JUNIOR DIVISION GRAND PRIZE WINNERS

(Plaque to each Junior Grand Prize Winner & Teacher)

GRAND PRIZE

Kurtis Lammers

Effect of Coatings on Moving Through Sea Water

Timothy Hayes, Immaculate Conception

ALTERNATE

Lauryn Justiss

What Materials Can Block a Wi-Fi Signal?

Miriam Jump, St. Joseph Catholic Academy

MAJOR SPONSORS

MISSOURI STATE UNIVERSITY – COLLEGE OF NATURAL & APPLIED
SCIENCES

MISSOURI STATE UNIVERSITY FOUNDATION

ASSOCIATED ELECTRIC COOPERATIVE, INC.

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CHERYL AND RODNEY WRINKLE

2017 AWARDS AND SPONSORS

AMERICAN CHEMICAL SOCIETY – OZARKS
CHAPTER
AMERICAN METEOROLOGICAL SOCIETY
AMERICAN PSYCHOLOGICAL
ASSOCIATION
THE AMERICAN SOCIETY OF
MAMMALOGISTS
THE ASM MATERIALS EDUCATIONAL
SOCIETY
BAKER CHAIR OF INSURANCE/GAMMA
IOTA SIGMA
THE LAWRENCE E. BANKS, JR., MEMORIAL
AWARD
BROADCOM MASTERS
THE IRENE BRUNNER MEMORIAL AWARD
GREATER OZARKS AUDUBON SOCIETY
GREENE COUNTY RESOURCE
MANAGEMENT
INTEL
MASTER NATURALISTS
MISSOURI DEPARTMENT OF
CONSERVATION
MISSOURI SOCIETY OF PROFESSIONAL
ENGINEERS, OZARKS CHAPTER
MISSOURI STATE UNIVERSITY COLLEGE OF
NATURAL & APPLIED SCIENCES
MISSOURI STATE UNIVERSITY
DEPARTMENT OF BIOLOGY
MISSOURI STATE UNIVERSITY
DEPARTMENT OF GEOGRAPHY,
GEOLOGY, PLANNING, AND
GEOSPATIAL SCIENCE

MISSOURI STATE UNIVERSITY
DEPARTMENT OF PHYSICS,
ASTRONOMY, AND MATERIALS
SCIENCE
THE LOU & NADINE MOORE MEMORIAL
AWARD
NATIONAL AERONAUTICS AND SPACE
ADMINISTRATION
NATIONAL OCEANIC & ATMOSPHERIC
ADMINISTRATION
OZARKS SCIENCE & ENGINEERING FAIR
THE MARY JEAN PLASTER MEMORIAL
AWARD
THE ROBERT W. PLASTER MEMORIAL
AWARD
REGENERON SCIENCE TALENT SEARCH
RICOH CORPORATION
THE REGIONAL FAIR DIRECTOR EMERITUS
“SYLVIA SPEAR” AWARD
SCHNEIDER FOUNDATION
THE JAMES K. TICE MEMORIAL TEACHER
AWARD
UNITED STATES AIR FORCE
UNITED STATES METRIC ASSOCIATION
UNITED STATES NAVY
WOMEN IN SCIENCE
YALE SCIENCE & ENGINEERING
ASSOCIATION

THE 2017 JUNIOR DIVISION



PLACEMENT AWARD WINNERS!

JUNIOR DIVISION PLACEMENT AWARDS

BEHAVIORAL AND SOCIAL SCIENCES

- 1st Place: Taigan Calhoun
Effects of Music on
Memory
Aleth Rogers
Norwood R-1
- 2nd Place: Ariana Garnica
Which Font is Most
Memorable?
Lynn Vogel
St. Agnes
- Alyssa Harrington
Effect of Exposure/Time
Under a Blanket on CO²
Levels
- 3rd Place: Jada Jones
Annabel Stenger
How Fast Can Your Heart
Race?
Rob Powers
The Summit
- Sabrina Thornhill
Stroop Effect
Taylor Blankenship
Mountain Grove
- 4th Place: Calla Yearta-Sothorn
Are You Less Beautiful
Than You Think?
Rob Powers
The Summit
- Madison James
Bryce Tiff
Gender Effect on Short
Term Memory
Kailey Bridges
Marshfield Junior High

BIOCHEMISTRY

- 1st Place: Giacomo Pennella
Ground Beef and Fat
Lynn Vogel
St. Agnes
- 2nd Place: Ashton Contreras
Maggots and Meat
Aleth Rogers
Norwood R-1

BIOCHEMISTRY (cont.)

- 3rd Place: Haylie Garrison
Manure and Biomass
Ryan Curtis
Manes Elementary
- ## BOTANY
- 1st Place: Kami Housman
Kailey Taylor
Tomato, Tomahto: Effects
of Liquids
Aaron Tillman
Marshfield Junior High
- 2nd Place: Alexus Walker
The Effects of the Type of
Water on Plant Growth
Ryan Curtis
Manes Elementary
- 3rd Place: Braeden Bounds
Little Cotyledon That
Could
April Thompson
Pleasant View
- 4th Place: Audrey James
The Effects of Water Type
on the Height of Marigolds
Aleth Rogers
Norwood R-1

CHEMISTRY

- 1st Place: Katlynn Ritchie
Coke and Mentos
Taylor Blankenship
Mountain Grove
- 2nd Place: Easton Siwek
The Battery Test
Montye Mickelson
Forsyth
- Grayci Keeling
The Effect of Temperature
on LED Light Brightness
Aleth Rogers
Norwood R-1
- 3rd Place: Kylee Bradshaw
Does Cooking Fruits
Affect the Vitamin C
Levels?
Aleth Rogers
Norwood R-1

CHEMISTRY (cont.)

- 3rd Place: Katelyn Germer
Pill Absorption
Taylor Blankenship
Mountain Grove
- 4th Place: Drue Coen
The Fizz in Soda
Montye Mickelson
Forsyth
- Willis Bearden
Color Symphony
Montye Mickelson
Forsyth

COMPUTER SCIENCE

- 1st Place: Lauryn Justiss
What Materials Can Block
a Wi-Fi Signal?
Miriam Jump
St. Joseph Academy
- 2nd Place: Vanessa Lampley
Encephalons Hacked
Aaron Tillman
Marshfield Junior High

EARTH & SPACE

- 1st Place: Justin Chadwell
Purification Method on
Water Quality
Aleth Rogers
Norwood R-1
- 2nd Place: Cameron Kelly
How Do Plants Affect
Erosion?
Aleth Rogers
Norwood R-1
- 3rd Place: Adrian Thomas
Do Warmer Seas Make
Stronger Hurricanes?
Taylor Blankenship
Mountain Grove

ENGINEERING

- 1ST Place: Cassie Chadwell
Yeti or Not?
Aleth Rogers
Norwood R-1

JUNIOR DIVISION PLACEMENT AWARDS

ENGINEERING (cont.)

2nd Place: Jalen Drake
The Effect of Type of
Material on Air Resistance
Aleth Rogers
Norwood R-1

3rd Place: Baylee Nungesser
The Effect of Type of
Shop Rag on Absorbency
Aleth Rogers
Norwood R-1

4th Place: Ashlyn Grier
Daylon Kanengieter
Let It Rip
Kailey Bridges
Marshfield Junior High

ENVIRONMENTAL

1st Place: Morgan McClain
Vegetation Filtration
Timothy Hayes
Immaculate Conception

2nd Place: Sierra Cornelison
Effect of Starch Plants on
Homogenous Ethanol
Production
Aleth Rogers
Norwood R-1

3rd Place: Tyden Ramey
Shapes Saving Trees
Kailey Bridges
Marshfield Junior High

4th Place: Tyler Rockwood
Killer Cleaners
Kailey Bridges
Marshfield Junior High

MEDICINE & HEALTH

1st Place: Max McGowan
The Effect of a Power FX
Bracelet on Arm
Resistance
Aleth Rogers
Norwood R-1

2nd Place: Kayla Rumley
Electrolyte Challenge:
Orange Juice vs. Sports
Drink
Miriam Jump
St. Joseph Academy

MEDICINE & HEALTH (cont.)

3rd Place: Brooklyn Crawford
Harper Coltrane
Ruff Wounds
Aaron Tillman
Marshfield Junior High

4th Place: August Thoms
Smile (If You Want To)
Aaron Tillman
Marshfield Junior High

MICROBIOLOGY

1st Place: Evan Kilmer
Cleaners That Inhibit
Bacterial Growth
Lynn Vogel
St. Agnes

2nd Place: Madison Rues
Five Second Rule
Investigation
Lynn Vogel
St. Agnes

3rd Place: Paige Beggs
Do Antibacterial Wipes
Disinfect Shopping Cart
Handles?
Aleth Rogers
Norwood R-1

PHYSICS

1st Place: Kurtis Lammers
Effect of Coatings on
Moving Through Sea
Water
Timothy Hayes
Immaculate Conception

2nd Place: Christopher Edwards
The Effect of Amount of
Fletching on Arrows'
Flight Velocity
Aleth Rogers
Norwood R-1

3rd Place: Logan Crum
Hayden Curley
Spinning the Ball
Kailey Bridges
Marshfield Junior High

PHYSICS (cont.)

4th Place: Garrett Davault
Type of Nut vs. Energy
Produced
Aleth Rogers
Norwood R-1

ZOOLOGY

1st Place: Katie Rumpfelt
The Effect of Different
Kinds of Bird Seed on
Consumption
Ryan Curtis
Manes Elementary

2nd Place: Emily Sinning
Effect of Daylight Length
on Egg Production
Aleth Rogers
Norwood R-1

3rd Place: Noah Whiten
Oyster Shells Make the
Difference
Ryan Curtis
Manes Elementary

4th Place: Alexander Coulter
Determining the Influence
of Pollinator Habitat on
Honey Production
Miriam Jump
St. Joseph Academy

THE 2017 SENIOR DIVISION



PLACEMENT AWARD WINNERS!

SENIOR DIVISION PLACEMENT AWARDS

BEHAVIORAL AND SOCIAL SCIENCES

- 1st Place: Vincent Khor
The Effects of
Extraocular Blue-
Enriched LEDs on
Human Reaction Time
Chris Reeves
Camdenton
- 2nd Place: Kelli Alford
Phototactic Response
of *Orconectes virilis*
Chris Reeves
Camdenton
- 3rd Place: Autumn Reeves
Ovulatory Signaling
Using Visual Cues
Chris Reeves
Camdenton
- 4th Place: Molly Jones
Assessing Gender
Differences in Sound
Cognizance
Tara Bonebrake
Greenwood Lab

BIOCHEMISTRY

- 1st Place: Jacob Kassing
Ethanol Production
from Grass
Tara Bonebrake
Greenwood Lab
- 2nd Place: Katlyn Dedmon
Ibuprofen and Worms
Tabitha Shaver
Hartville
- 3rd Place: Zach Flanders
Effect of Caffeine on
Ants
Tara Bonebrake
Greenwood Lab

BOTANY

- 1st Place: Mercedes Hanlon
Exploring the Potential
of the Use of Plant-
Extracted Essential
Oils
Chris Reeves
Camdenton

CHEMISTRY

- 1st Place: Drew Van Hook
Superhydrophobic
Coating for Anti-Icing
of Power Lines
Chris Reeves
Camdenton
- 2nd Place: Cooper Short
Superhydrophobic
Coating for Circuit
Boards
Chris Reeves
Camdenton
- 3rd Place: Lee Kitchem
Biomass Derived
Fuels
Chris Reeves
Camdenton
- 4th Place: Kenneth Khor
Arsenic Doped ZnO to
Replace TiO₂ for Solar
Cells
Chris Reeves
Camdenton

COMPUTER SCIENCE

- 1st Place: David Wells
Space From Shadow:
Derivation of Lunar
Crater Geometry
Using Earth-Based
Observations
Jeffrey Wells
Glendale
- 2nd Place: Paxton Poole
Mobile Approach to
Track the Safety of
Your Child via Geo-
fencing Through the
Application of Big
Mother
Chris Reeves
Camdenton
- 3rd Place: Anshul Soni
Statistical Analysis of
Nutritional Value and
Cost of Store Bought
Replacement and Fast
Foods
Tara Bonebrake
Greenwood Lab

COMPUTER SCIENCE (cont.)

- 4th Place: Katelyn Lee
Phalange Prints
Tabitha Shaver
Hartville

ENGINEERING

- 1st Place: Pierce Taylor
The Effects of Varying
LED Arrays on the
Efficiency of a Light
Fidelity Network
Chris Reeves
Camdenton
- 2nd Place: Zane Foulk
The Application of the
Triboelectric Effect in
Different Motions to
Determine the Most
Efficient Method of
Harvesting Static
Electricity
Chris Reeves
Camdenton
- 3rd Place: Michael Radlund
The Use of an
Engineered Uniformed
Pinning System for
Tornado Resistant
Residential
Construction
Chris Reeves
Camdenton

- 4th Place: Drew Ellefsen
Exploring the Potential
Application of
Polymeric Aerogels for
Use in Reducing the
Acoustic Signature
Created by an Airfoil
Chris Reeves
Camdenton

ENVIRONMENTAL

- 1ST Place: Grace Hall
A Comparison of
Enzymatic Carbon and
Nitrogen Utilization
Capacity of Microbial
Communities Exposed
to *Lespedeza*
cuneata and *virginica*
Chris Reeves
Camdenton

SENIOR DIVISION PLACEMENT AWARDS

ENVIRONMENTAL (cont.)

- 2nd Place: Austin Collins
Oscar Stephens
William Craig
Carbon Scrubbing
Wind Turbine
Lindsay Dunning
Marion C. Early
- 3rd Place: Joshua Harmon
Exploring the Potential
of Standoff Detection
of Hazardous Material
Soil Contaminations
with Hyperspectral
Imaging of Vegetation
Chris Reeves
Camdenton
- 4th Place: Mikayla Allen
The Effect of
Environmental Toxins
on Amyotropic Lateral
Sclerosis
Adrick Miller
Thayer

MEDICINE AND HEALTH

- 1ST Place: Tara Poole
Transgenerational
Effects of E-Liquid and
Nicotine on *C. elegans*
Chris Reeves
Camdenton
- 2nd Place: Emily Zaretsky
The Feasibility Of A
Side-Glow Fiber Optic
Nitrogen Doped
Titanium Dioxide-
Silicon Dioxide Photo-
catalyst For Fecal
Waste Applications
Chris Reeves
Camdenton
- 3rd Place: Brenden Barbour
Analysis of Heart Rate
Variability to Detect
Type I Diabetes
Chris Reeves
Camdenton

MICROBIOLOGY

- 1st Place: Kallie Davis
Microcystis aeruginosa
Growth and Toxin
Production
Chris Reeves
Camdenton
- 2nd Place: Noah Taylor
Fuel Cells From Waste
Tabitha Shaver
Hartville
- 3rd Place: Emily Abdalla
Bacterial Growth in
Pools
Tara Bonebrake
Greenwood Lab

ZOOLOGY

- 1st Place: Olivia Kline
Establishment of a
Permanent Cell Line of
the Native Pollinator
Bombus impatiens:
Applications in
Entomology, Animal
Science, and Nosema
Research
Chris Reeves
Camdenton
- 2nd Place: River Wise
Biological Inventory of
Invertebrate Fauna of
Bridal Cave
Chris Reeves
Camdenton
- 3rd Place: Ashlynn Dickenson
What Makes the Calf
Grow Faster: Milk
Replacement or Whole
Milk?
Tabitha Shaver
Hartville

**THE 2017
JUNIOR & SENIOR
DIVISION**



**SPECIAL AWARD
WINNERS!**

SPECIAL AWARDS

AMERICAN CHEMICAL SOCIETY – OZARKS CHAPTER

\$50 Cash Award

Junior Division: Katlynn Ritchie
Mountain Grove

Senior Division: Cooper Short
Camdenton

AMERICAN METEOROLOGICAL SOCIETY

Certificate of Award

Junior Division: Adrian Thomas
Mountain Grove

AMERICAN PSYCHOLOGICAL ASSOCIATION

Certificate of Award

Senior Division: Vincent Khor
Camdenton

THE AMERICAN SOCIETY OF MAMMOLOGISTS

Certificate of Award

Junior Division: Elijah Bloom
Mountain Grove

THE AMERICAN SOCIETY FOR METALS MATERIALS EDUCATION FOUNDATION

Medallion, Award Certificate

Senior Division: Drew Ellefson
Camdenton

BAKER CHAIR OF INSURANCE/GAMMA IOTA SIGMA AWARD

\$50 Cash & Certificate of Achievement

Senior Division: Michael Radlund
Camdenton

BROADCOM MASTERS

*Certificate of Award and Advancement in
National Level Competition with awards up to
\$25,000*

Junior Division: Taigan Calhoun
Norwood R-1

Giacomo Pennella
St. Agnes

Kami Housman
Marshfield Junior High

Kailey Taylor
Marshfield Junior High

Katlynn Ritchie
Mountain Grove

Lauryn Justiss
St. Joseph Academy

Justin Chadwell
Norwood R-1

Cassie Chadwell
Norwood R-1

Morgan McClain
Immaculate Conception

Max McGowan
Norwood R-1

Evan Kilmer
St. Agnes

Kurtis Lammers
Immaculate Conception

Katie Rumpfelt
Manes Elementary

THE IRENE BRUNNER MEMORIAL AWARD

\$25 Cash Award & Certificate

Junior Division: Lauryn Justiss
St. Joseph Academy

Kayla Rumley
St. Joseph Academy

GREATER OZARK AUDUBON SOCIETY "ENVIRONMENTAL AWARENESS AWARD"

*One Year Membership in the National
Audubon Society & Field Guide*

Junior Division: John Brown
St. Agnes

Senior Division: Leland Whitman
Camdenton

GREENE COUNTY RESOURCE MANAGEMENT "GROUNDWATER GUARDIAN" AWARD

Certificate and Bonus Item

Junior Division: Morgan McClain
Immaculate Conception

INTEL EXCELLENCE IN COMPUTER SCIENCE AWARD

\$200 Cash Award & Certificate

Senior Division: David Wells
Glendale

INTEL INTERNATIONAL SCIENCE AND ENGINEERING FAIR AWARD

Certificate and Trip to INTEL ISEF

Senior Division: Olivia Kline
Camdenton

Kelli Alford
Camdenton

MASTER NATURALISTS ENVIRONMENTAL AWARD

\$50 Cash

Junior Division: Alexander Coulter
St. Joseph Academy

Senior Division: Olivia Kline
Camdenton

SPECIAL AWARDS

MISSOURI DEPARTMENT OF CONSERVATION "CONSERVATION AWARD"

DVDs, Field Guides, and Materials

Junior Division: Alexander Coulter
St. Joseph Academy

Conservation CD, DVD, and Books

Senior Division: River Wise
Camdenton

Olivia Kline
Camdenton

MISSOURI SOCIETY OF PROFESSIONAL ENGINEERS, OZARKS CHAPTER, "FUTURE ENGINEER" AWARD

Cash Award

Junior Division: Ashlyn Grier
Marshfield Junior High

Daylon Kanengieter
Marshfield Junior High

Gavin McGraw
Norwood R-1

Senior Division: Pierce Taylor
Camdenton

Michael Radlund
Camdenton

MISSOURI STATE UNIVERSITY COLLEGE OF NATURAL AND APPLIED SCIENCES GRAND PRIZE AWARD

\$50 Cash Award

Junior Division: Kurtis Lammers
Immaculate Conception

Senior Division: Olivia Kline
Camdenton

Kelli Alford
Camdenton

MISSOURI STATE UNIVERSITY DEPARTMENT OF BIOLOGY

\$1,000 Work Study Award; Certificate to student and Plaque to Teacher

Senior Division: Grace Hall
Camdenton

MISSOURI STATE UNIVERSITY DEPARTMENT OF GEOGRAPHY, GEOLOGY, PLANNING AND GEOSPATIAL SCIENCE AWARD

Subscription to National Geographic Magazine

Junior Division: Cameron Kelly
Norwood R-1

MISSOURI STATE UNIVERSITY DEPARTMENT OF PHYSICS, ASTRONOMY, AND MATERIALS SCIENCE

Book and Certificate of Award

Junior Division: Jason Rumpfelt
Manes Elementary

Christopher Edwards
Norwood R-1

Kurtis Lammers
Immaculate Conception

MISSOURI STATE UNIVERSITY SCHOLARSHIP AWARD

\$1,000 Scholarship to each Senior Division First Prize Winner if they decide to attend Missouri State University full-time (if the winning category project is a team, the scholarship is shared).

Senior Division: Vincent Khor
Camdenton

Jacob Kassing
Greenwood Lab

Mercedez Hanlon
Camdenton

Drew Van Hook
Camdenton

David Wells
Glendale

MISSOURI STATE UNIVERSITY SCHOLARSHIP AWARD (cont.)

Senior Division: Pierce Taylor
Camdenton

Grace Hall
Camdenton

Tara Poole
Camdenton

Kallie Davis
Camdenton

Olivia Kline
Camdenton

LOU & NADINE MOORE MEMORIAL AWARD

\$50 Cash Award to the top Junior Division projects covering Education or Special Needs

Junior Division: Michaela Bledsoe
Marshfield

Katie Smith
Marshfield

Michea Eyeran
St. Agnes

NASA EARTH SCIENCE AWARD

Certificate

Junior Division: Morgan McClain
Immaculate Conception

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AWARD

Letter, Certificate of Award, and NOAA Medallion

Senior Division: Drew Van Hook
Camdenton

SPECIAL AWARDS

REGENERON SCIENCE TALENT SEARCH

Opportunity to Advance to National Competition with awards up to \$150,000

Senior Division: Kallie Davis
Camdenton

Drew Van Hook
Camdenton

Jacob Kassing
Greenwood Lab

Olivia Kline
Camdenton

Grace Hall
Camdenton

RICOH CORPORATION SUSTAINABLE DEVELOPMENT AWARD

Certificate of Award

Senior Division: Austin Collins
Marion C. Early

Oscar Stephens
Marion C. Early

William Craig
Marion C. Early

SCHNEIDER FOUNDATION

\$200 Cash & Certificate

Junior Division: Morgan McClain
Immaculate Conception

Katie Rumpfelt
Manes Elementary

Lauryn Justiss
St. Joseph Academy

Taigan Calhoun
Norwood R-1

Katlynn Ritchie
Mountain Grove

SCHNEIDER FOUNDATION (cont.)

\$500 Cash & Certificate

Senior Division: Drew Van Hook
Camdenton

Grace Hall
Camdenton

Pierce Taylor
Camdenton

Olivia Kline
Camdenton

Tara Poole
Camdenton

UNITED STATES AIR FORCE

Certificate of Award, Sling Pack, Powerbank Charger, Dog Tag USB Drive; Dual USB Car Charger

Senior Division: Drew Ellefsen
Camdenton

Kenneth Khor
Camdenton

David Wells
Glendale

Pierce Taylor
Camdenton

UNITED STATES METRIC ASSOCIATION

Certificate of Award

Senior Division: Kallie Davis
Camdenton

UNITED STATES NAVAL SCIENCE AWARD

Certificate, Medallion

Junior Division: Kurtis Lammers
Immaculate Conception

Lauryn Justiss
St. Joseph Academy

Justin Chadwell
Norwood R-1

Morgan McClain
Immaculate Conception

UNITED STATES NAVAL SCIENCE AWARD (cont.)

Medallion, Certificate, and \$50 Cash Award

Senior Division: Kallie Davis
Camdenton

Vincent Khor
Camdenton

Drew Van Hook
Camdenton

Pierce Taylor
Camdenton

WOMEN IN SCIENCE

Certificate of Award and \$25 Gift Certificate

Junior Division: Lauryn Justiss
St. Joseph Academy

Senior Division: Tara Poole
Camdenton

YALE SCIENCE & ENGINEERING ASSOCIATION AWARD

Certificate of Award

Senior Division: Drew Van Hook
Camdenton

THE ROBERT W. PLASTER MEMORIAL EXCELLENCE IN TEACHING AWARD

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

Chris Reeves
Camdenton High School

THE MARY JEAN PLASTER MEMORIAL EXCELLENCE IN TEACHING AWARD

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

Aleth Rogers
Norwood R-1

THE REGIONAL FAIR DIRECTOR EMERITUS "SYLVIA SPEAR MEMORIAL AWARD"

\$25 Cash to a First Time Teacher

Kailey Bridges
Marshfield Junior High

SPECIAL AWARDS

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:

Ryan Curtis
Manes Elementary

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:

Tara Bonebrake
Greenwood Laboratory School

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 2017 are:

Aleth Rogers
Norwood R-1

Lynn Vogel
St. Agnes

Aaron Tillman
Marshfield Junior High

Taylor Blankenship
Mountain Grove

Miriam Jump
St. Joseph Catholic Academy

Timothy Hayes
Immaculate Conception

Ryan Curtis
Manes Elementary

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 2017 are:

Chris Reeves
Camdenton High School

Tara Bonebrake
Greenwood Laboratory School

Jeffery Wells
Glendale High School

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 2017 is:

Timothy Hayes
Immaculate Conception

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 2017 is:

Chris Reeves
Camdenton High School

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 2017 is:

Chris Reeves
Camdenton High School

Thank You

The Ozarks Science & Engineering Fair Foundation and Steering Committee would like to recognize those volunteers, both individuals and organizations, without whom this event would not be possible. This week alone, over 350 hours of volunteer time and effort were donated – our deepest thanks and appreciation especially to the following:

- Richard Burton's CIS 200 Students
- Citizenship and Service Learning Students
- Dr. Kathy Nordyke
- Dr. Courtney Pham's QBA Students
- Dr. Jill Black's Students
- Kappa Sigma, Mu-Rho Chapter
- Alpha Kappa Lambda, Beta Psi Chapter
- Dr. Lisa Reece's Chemistry Students
- Residence Life, Housing, and Dining Services
- STEM LLC Students
- Lacey Geiger's CIS 200 Students

In addition, approximately 70 judges from local colleges, companies and organizations donated their time and expertise Tuesday evening to judge the over 250 projects at this year's Fair. We cannot recognize them all by name, but their efforts are greatly appreciated.

We would also like to extend a very special Thank You to Rick Hale and the crew at Copy Products for their generous loan of a copier for the duration of the Fair, and Mike Murphy of the College of Natural and Applied Sciences' Electronic Support Services for the loan of printers for the duration of the Fair.

Finally, we especially want to acknowledge the generous donation contributed by Associated Electric Cooperative, Schneider Foundation, and Cheryl and Rodney Wrinkle toward the substantial travel expenses incurred by the Senior Division Grand Prize Winners for travel to the 2017 International Science & Engineering Fair on May 14 to May 19, 2017, in Los Angeles, CA.

Volunteers are the lifeblood of an event of this magnitude. Without you, we could not continue the Fair's tradition of excellence. Thank you!