

UNIVERSITY OF
SOUTHERN INDIANA[®]

Pott College of Science,
Engineering, and Education

**TRI-STATE
SCIENCE AND
ENGINEERING
FAIR**

2026

USI.edu/stem



CountryMark.



- Animal Sciences
- Behavioral and Social Sciences
- Chemistry
- Earth and Environmental Sciences
- Energy: Physical and Chemical
- Engineering
- Mathematics
- Medicine and Health Sciences
- Microbiology and Molecular/Cellular Biology
- Physics and Astronomy
- Plant Sciences
- Robotics, Computers and Systems Software



Schedule of Events

Thursday, March 12, 2026

- 12:00 PM – 4:00 PM Participants Check-in and Set up Project Displays (Carter Hall)
- 4:00 PM – 5:00 PM Judges' Preview (Carter Hall)
- 5:00 PM – 5:30 PM Judges Orientation and Dinner (UC2217)
- 5:30 PM – 6:00 PM Grade-Level and Special Awards Judges Meet to Discuss Strategy for Judging Exhibits
- 6:00 PM – 8:00 PM Judging (Students at Displays)

Friday, March 13, 2026

- 9:00 AM – 12:00 PM Carter Hall Open for Public Exhibition

Monday, March 16, 2026

- 6:00 PM – 7:00 PM Awards Ceremony (USI Performance Center)

2026 OFFICIALS

Fair Director

Allison Grabert

Director

SwISTEM Resource Center
University of Southern Indiana

Assistant Fair Director

Paige Walling

SwISTEM Services Supervisor

SwISTEM Resource Center
University of Southern Indiana

Special Thanks to the Fair Sponsors and Contributors

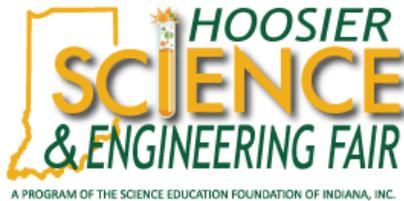
The Tri-State Science and Engineering Fair would not be possible without the support of area individuals, businesses, foundations, and schools. Special thanks to every individual listed in this program, including the students who have worked so hard to bring their projects to this fair.

Many support the Tri-State Science and Engineering Fair financially while others volunteer time and services. The Tri-State Science and Engineering Fair would not be successful without each contribution. On behalf of all the students in this competition: ***"Thank you!"***

We are always looking for ideas to enhance the science and engineering education experiences of area children. If you or your organization would like to help increase awareness and interest in STEM careers for a new generation of young scientists, please contact Dr. Allison Grabert (812-228-5019; afgrabert@usi.edu), Director, Tri-State Science and Engineering Fair, 8600 University Boulevard, Evansville, IN 47712. Your innovative ideas and involvement are encouraged.

Sponsors

Special thanks to our sponsors for providing major financial contributions and services to assure a well-organized Tri-State Science and Engineering Fair. Their generous support demonstrates a strong commitment to education and the future of our children and communities.



Awards

SENIOR DIVISION GRAND AWARDS AND HONORABLE MENTIONS (GRADES 9 – 12)

A Grand Award winner will be selected at each Senior Division grade level – 9th grade, 10th grade, 11th grade, and 12th grade. Each Grand Award winner will receive a medallion and \$200.00.

Two Senior Division Honorable Mention Award winners in each grade will receive a medallion and \$100.00.

Up to ten Senior Division exhibitors, along with their teacher or sponsor, will be invited to participate in the Hoosier State Science and Engineering Fair. Eligible students will represent the Tri-State Science and Engineering Fair in a competitive state judging event with additional awards and prizes. The Senior Division Hoosier State Science and Engineering Fair, sponsored by the Science Education Foundation of Indiana (SEFI), will be held in-person on Saturday, March 28, 2026, at IU Indianapolis.

In addition, SEFI sponsors a Hoosier Delegation to participate in the Regeneron International Science and Engineering Fair (ISEF) which will be held in Phoenix, AZ on May 9 – May 15, 2026. Exhibitors advancing from the Tri-State Science and Engineering Fair have an opportunity to compete for Hoosier Delegation positions at the Hoosier Science and Engineering Fair. ISEF paperwork must be completed and correct to be competitive at the Hoosier Science and Engineering Fair.

JUNIOR GRAND AWARDS AND HONORABLE MENTIONS (GRADES 6 – 8)

A Grand Award winner will be selected at each Junior Division grade level – 6th grade, 7th grade, and 8th grade. Each Grand Award winner will receive a medallion and \$100.00.

Two Junior Division Honorable Mention Award winners in each grade will receive a medallion and \$50.00

Up to ten Junior Division exhibitors, along with their teacher or sponsor, will be invited to participate in the Hoosier State Science and Engineering Fair. Eligible students will represent the Tri-State Science and Engineering Fair in a competitive state judging event with additional awards and prizes. The Junior Division Hoosier State Science and Engineering Fair, sponsored by the Science Education Foundation of Indiana (SEFI), will be held on Saturday, March 28, 2026, at IU Indianapolis.

ELEMENTARY GRAND AWARD WINNERS (GRADES K – 5)

One Grade 4-5 Grand Award winner will receive a medallion and \$50, and two Grade 4-5 Honorable Mention Award winners will receive a medallion and \$25.

One Grades K – 3 Elementary Grand Award winner will receive a medallion and \$50, and two Grade K-3 Honorable Mention Award winners will receive a medallion and \$25.

The Grade 4-5 Grand Award winner, along with their teacher or sponsor, will be invited to participate in the Hoosier State Science and Engineering Fair. This student will represent the Tri-State Science and Engineering Fair in a competitive state judging event with additional awards and prizes. The Junior Division Hoosier State Science and Engineering Fair, sponsored by the Science Education Foundation of Indiana (SEFI), will be held on Saturday, March 28, 2026, at IU Indianapolis.

National Awards and Recognition Contributors

American Psychological Association

Certificate of Award for Outstanding Research in Psychological Science and free APA student membership

Association for Women Geoscientists

Certificate of Merit for a project that exemplifies high standards of innovation and scientific excellence in Geoscience by a Female Student

Citadel | Citadel Securities Innovation Prize

\$100 Award and Certificate of Merit for a project that exemplifies ingenuity and innovation through their project idea, goals, and/or design, and demonstrate creatively about how to solve problems. One award for a Junior Division Project and one award for a Senior Division Project

GENIUS Olympiad Award

Invitation to compete in the Global Environmental Issues Olympiad for Senior Division projects focusing on environmental issues

National Aeronautics and Space Administration

Earth System Science Award for the Project Offering the Greatest Insight into Earth's Interconnected Systems, and invitation to a webinar with a NASA Scientist

National Oceanic and Atmospheric Administration

Taking the Pulse of the Planet Award Certificate of Merit and NOAA lapel pin

Office of Naval Research (United States Navy & Marine Corps)

Four Naval Science Junior Division Award Certificates of Merit and Medallion and Two \$50.00 Senior Division Awards and Medallion

Regeneron Biomedical Award

Senior Division Award of \$375 for Best Biomedical, Biochemistry, Biomedical Engineering, or Cellular & Molecular Biology Project

Ricoh Americas Corporation

Ricoh Sustainable Development Award Certificate for Research That Offers the Greatest Potential for Sustainable Development

Society for In Vitro Biology

Certificate of Merit for Ability and Creativity in In Vitro Biology for 11th Grade Students

Stockholm Junior Water Prize

Senior Division Award Certificate of Merit for Excellence for a Water-Related Project

Thermo Fisher Scientific Junior Innovators Challenge

An invitation to compete in the Thermo Fisher Junior Innovators Challenge. 10% of Middle School projects will be selected, and prize winners at the National Competition can receive up to \$25,000.

United States Air Force

Four certificates of merit and awards packages for outstanding projects with Air Force applicability

United States Metric Association

Certificate of merit and USMA Membership for a project with an outstanding use of the Metric System

Yale Science and Engineering Association

Certificate of Merit for Most Outstanding 11th Grade Exhibit in Science, Technology, Engineering or Mathematics

Local Awards and Recognition Contributors

Amcor

*Two \$25 Awards for Outstanding Elementary Division Projects with a Focus on Improving the Environment
Three \$50 Awards for Junior Division Projects with a Focus on Improving the Environment
Four \$75 Awards for Senior Division Projects with a Focus on Improving the Environment*

American Chemical Society Indiana/Kentucky Border Section

*\$175 Award for Best Senior Project & Certificate of Merit
\$75 Award for Best Junior Project & Certificate of Merit*

Cindy Deloney-Marino and Anthony Marino Award for the American Society for Microbiology

*\$100 Award for Best Senior Project in Microbiology
\$100 Award for Best Junior Project in Microbiology*

CenterPoint Energy

One \$100 Award for an Outstanding Senior Division Energy-Focused Project

CountryMark Refining and Logistics

*Two \$25 Awards for Outstanding Elementary Division Engineering or Earth Science-Related Projects
Three \$50 Awards for Outstanding Junior Division Engineering or Earth Science-Related Projects
Four \$75 Awards for Outstanding Senior Division Engineering or Earth Science-Related Projects*

Dr. and Mrs. Jonathan S. Lowrey

Two \$75 Awards for Best Projects in Biochemistry and Chemistry & Certificate of Merit

Dr. Jeffery Seyler Memorial Award

*One \$50 Award for Best Chemistry Project in the Elementary Division & Certificate of Merit
One \$50 Award for Best Chemistry Project in the Junior Division & Certificate of Merit*

Mesker Park Zoo and Botanic Gardens

*Two Behind the Scenes Tours for Best Junior Division Project in Animal Sciences or Plant Sciences
Two Behind the Scenes Tours for Best Senior Division Project in Animal Sciences or Plant Sciences*

University of Southern Indiana College Achievement Program

\$50 Award for Best Senior Behavioral Science Project & Certificate of Merit

University of Southern Indiana Food and Nutrition Department

Gift Basket and Certificate of Merit for Best Project with a Food or Nutrition Focus

University of Southern Indiana Department of Kinesiology and Sport

Certificate of Merit for Outstanding Project with a Sports Theme and 4 free tickets to a USI Sporting Event

University of Southern Indiana Pott College of Science, Education, and Engineering

Up to Three One Year, Non-Renewable \$1500 Scholarship for Students Majoring in Science, Engineering, Math, or Kinesiology at the University of Southern Indiana.

Volunteer Judges

Special thanks to our generous volunteer judges for sharing their time and expertise with the Tri-State Science and Engineering Fair exhibitors!*

Mr. Abraham Abu-hussein
Mr. Juzar Ahmed
Dr. Zulfikar Ali
Ms. Alison Allred
Mr. Michael Andrews
Ms. Jamie Baker
Dr. Nicole Becklinger
Mr. Michael Blum
Mr. Clyde Bruner
Mrs. Twyala Carner
Dr. Mark Creager
Mr. Lucas Davids-Badger
Mr. Hayden Deem
Mr. Ryan Eckels
Mr. Dave Ellert
Mx. Bunny Ely
Dr. Brandon Field
Mr. Zavier Gibson
Mr. Adam Gilles
Dr. Michelle Gogel

Mr. Fred Hassman
Mr. Tom Heckman
Dr. Priya Hewavitharanage
Mr. Christopher Hogue
Mrs. Erin Hollinger
Mrs. Shelley Houser '91
Dr. Rick Hudson
Ms. Kathleen Irwin
Dr. Jason Langley
Mr. Angel Lopez
Mrs. Leisa Lowrey
Dr. Jonathan Lowrey
Dr. Jacob Lutter
Mrs. Natalie Macaulay
Dr. Tony Maria
Dr. Timothy Mattison
Dr. Ryan McCann
Mr. Matthew McConnell
Mr. Joseph Motz
Dr. Swateja Nimkar

Dr. Janell Pycior
Mr. Evan Rebar
Dr. Erin Reynolds
Mr. Chris Robinson
Dr. James Sanders
Dr. Alex Schmitt
Mr. Braden Schroeder
Mr. Carl Schultz
Dr. Christopher Sedlacek
Ms. Priyal Sharma
Mr. Ryan Snyder
Mr. Matt Stewart
Ms. Kaelie Titzer
Mrs. Paige Walling
Dr. Ken Walsh
Dr. Elizabeth Wilkins
Mr. Ryan Williams
Mrs. Pam Wilson
Dr. Jean Zelenko

**Judges registered at time of print.*

Participating Teachers/Adult Sponsors

*Special thanks to Tri-State educators and parents
for serving as mentors to area students.*

Amrita Khurana	Tri-State Region Home Schools
Amy Whetstone (Hickey)	Evansville Day School
Christopher Fifer	North Middle School (Henderson, KY)
Donna Folz	St. Philip School
Jill Valentine	New Tech Institute
Karen Burke	Mount Vernon Jr High School
Kimberly Engbers	Holy Rosary School
Maggie Arabia	Holy Rosary School
Melanie Potts	Marrs Elementary School
Michael Kelley	New Tech Institute
Natalie Macaulay	North Elementary School
Pamela Swader	Heritage Hills High School
Sara Killebrew Sabo	Castle North Middle School
Sarah Harmon	Castle North Middle School
Shelly Aull	Castle High School
Steve Mintner	Castle High School
Susan Crump	Castle North Middle School
Swati Muchalambkar	Tri-State Region Home Schools
Tracey Hayden	Signature School Inc.
Tracy Post	Castle North Middle School

ELEMENTARY DIVISION: GRADES K – 3

PLEASE NOTE: Student names and project titles are presented in the program as submitted by the students on their online registration forms.

EE001

Egg Osmosis

Trent Engbers, II

Grade: 3

Judging Time: 6:00 - 6:45 p.m.

EE002

Fizzical Reaction: Investigating Acid-Base Reactions in Bath Bombs

Aneel Khurana

Grade: 3

Judging Time: 6:00 - 6:45 p.m.

ELEMENTARY DIVISION: GRADES 4 – 5

PLEASE NOTE: Student names and project titles are presented in the program as submitted by the students on their online registration forms.

LE001

A Solar Showdown Dark Vs. Light Bottles

Jailyn Burton

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE002

What Water Does Cress Grow Longer In?

Walker Gamage

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE003

Bump, Set, Bounce

Teleigh Guth

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE004

Morning or Night? Which Makes Plants Grow Right?

Andersen Helming

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE005

Optimizing Luminosity Thresholds for Stellar Detection in Nebular Imagery

Arjun Khurana

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE006

What Moisturizer is best for dry skin?

Emerson Macaulay

Grade: 4

Judging Time: 6:00 - 7:00 p.m.

LE007

The Disappearing Act of Water

Meera Patel

Grade: 4

Judging Time: 6:00 - 7:00 p.m.

LE008

Ready, Set, Fly

Sam Schneider

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE009

Batting the Distance

Gunner Sholders

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE010

Soap Studies

Sophie Spohn

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE011

Saving Apples

Seton Tekoppel

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE012

Fishing Line Experiment

Jase Vogel

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

LE013

The Competition of Cups

Paige West

Grade: 5

Judging Time: 6:00 - 7:00 p.m.

JUNIOR DIVISION: GRADE 6

PLEASE NOTE: Student names and project titles are presented in the program as submitted by the students on their online registration forms.

JD601

Dogs have favorite colors

Julia Arnold & Kylee Pruiett

Grade: 6

Judging Time: 7:00 - 8:00 p.m.

JD602

Natural Water Filtration

Oliver Bergman & Jaxxon Holder

Grade: 6

Judging Time: 6:00 - 7:00 p.m.

JD603

Whose Mouth is Dirtier?

Aubreigh Carter & Berkley Rhoads

Grade: 6

Judging Time: 7:00 - 8:00 p.m.

JD604

Different soil types and the affect on growing bean plants

Donnie Engbers

Grade: 6

Judging Time: 6:00 - 7:00 p.m.

JD605

Can Fire Form Mini Tornadoes

Axton Gee & Chase Farrar Eli Burns

Grade: 6

Judging Time: 7:00 - 8:00 p.m.

JD606

Caffeine Craze

Tara Gibbs & Wyatt Frank

Grade: 6

Judging Time: 6:00 - 7:00 p.m.

JD607

Breaking Bread

Ansley Grant

Grade: 6

Judging Time: 7:00 - 8:00 p.m.

JD608

Light Bulb Efficiency test

Ethan Hale

Grade: 6

Judging Time: 6:00 - 7:00 p.m.

JD609

Bacteria Growth

Hyleigh Harter, Kamilah Kennada, & Taylor Scheller

Grade: 6

Judging Time: 7:00 - 8:00 p.m.

JD610

Does Man-Made or Natural Liquids give you better energy?

Owen Phillips & Easton Bone

Grade: 6

Judging Time: 6:00 - 7:00 p.m.

JD611

Rust Nails

Olivia Rasche

Grade: 6

Judging Time: 7:00 - 8:00 p.m.

JD612

Are Fingerprints Inherited?

Camby Schmidt & Iyla Toker

Grade: 6

Judging Time: 6:00 - 7:00 p.m.

JD613

Does color affect memory?

Evelyn Tekoppel & Cora Schnarre

Grade: 6

Judging Time: 7:00 - 8:00 p.m.

JD614

What Food Are Red Harvester Ants Most Attracted To?

Teresa Shockley & Ruby Niemeier

Grade: 6

Judging Time: 6:00 - 7:00 p.m.

JD615

Is the Five Second Rule A Myth

Mallory Wildeman & Emma Carl

Grade: 6

Judging Time: 6:00 - 7:00 p.m.

JUNIOR DIVISION: GRADE 7

PLEASE NOTE: Student names and project titles are presented in the program as submitted by the students on their online registration forms.

JD701

How temperature affects borax crystals?

Joseph Allen & Elijah Liley

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD702

Operation: Drinkable

Arav Arora

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD703

How Does the Speed of Your Blood Flow Affect Your Medication?

Railyn Ashby & Sophia Brown

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD704

Do Video Game Players Have Faster Reaction Time Than Normal?

Alexander Aude, Myles Brown, & Luke Robertson

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD705

Adverse Agriculture

Emmett Aull

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD706

Can visualization improve sports performance

Cooper Belt & Kycen Langley

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD707

How Do Weather Conditions Affect Fossilization?

Lanie Brown & Grace Ruark

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD708

Water Filtrations

Charleigh Brown, Kynzlee Floyd, & Aryionni Runnells

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD709

Does Chemotherapy Affect Healthy Cells?

Addie Burnett & Brandy Rhye

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD710

Swimsuit Showdown

Brooklyn Cooper & Sadie Smith

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD711

What Shampoo is Better

Kolton Cottingham & Judah Butler

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD712

From Fresh to Fuzzy

Kylee Craig & Savannah Cox

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD713

Which Toothpaste Removes Coffee Stains Off of Teeth the Best.

Kendall Davis & Edie Grogan

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD714

The Crest Clean Off

Hattie Dye & Allyson Grimes

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD715

HOW SUGAR AFFECTS TEETH

Levi Eblen & Silas Dickinson

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD716

Who Let the Dogs Out?

Mackenzie Flores & Emily Shappell

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD717

How Different Drinks Can Hurt Your Teeth And Tooth Enamel .

Logan Floyd & Cooper Druin

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD718

Does Bean Seed Orientation Affect Plant Growth Rate?

Gemma Greenwell

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD719

Does it make the cut? Or more importantly, protect it?

Josie Hall

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD720

What Goes Up Must Come Down

Elizabeth Hume

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD721

What Mental Disorders Do To The Body

Sophie Kennedy

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD722

Egg-Cellent Substitutes

Libby Kirkland

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD723

Quality is Key

Josiah Koranchie-Boah

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD724

Does Color Blindness Affect Food Choice

Xavien Kyle & Rex Taylor

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD725

Which Sweetener Dissolves Fastest In Water

Naomi Liggett

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD726

Ice Ice Baby

Olivia Long

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD727

Fruit Battery

Brinkley Lottes & Katelin Weber

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD728

How Sleep Affects Memory

Rhett Mclean & Malakyah Sipper

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD729

Bacteria Battle

Claire Morris

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD730

The Glucose Gap

Morgan Nord

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD731

Dyeing to Grow

Falak Patel

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD732

The Great Descent

Aryan Patel & Nived Gupta

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD733

Crystal AM Radio

Landon Powell

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD734

Heart Rate Variability and Physical Performance

Vayda Powers & Khloe Cottingham

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD735

Does How You Sit Affect You?

Avery Rager

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD736

What natural material soaks up the most oil?

June Reyher & Lilly Folz

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD737

Split Second Science

Jordyn Ricketts

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD738

Testing the Skin

Ella Rodway & Linda Obannon

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD739

How Does the Pollution in the Ohio River Kill

Fish?

Ayden Sanders & Hayden Fenwick

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD740

Bok Choy Bonanza

Anderson Seavers

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD741

Motor Motion

Sloane Sensenbrenner

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD742

Electrical Energy Drinks

Cruz Sergesketter & Jillien Stowe

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD743

How Does Your Body Digest Acetaminophen?

Hunter Sheffer & Kamri Nicholson

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD744

How Do Different SPF Sunscreens Affect How Much You Will Burn?

Cali Shults & Natalie Wood

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD745

Is Green Concrete As Durable?

Charlie Siders & Drake Phipps

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD746

Fizzy Dreams

Alyvia Siniard

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD747

The Effect of Acid Rain On Rock.

Eli Smithhart & Kollyn Burkeen

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD748

Does The Angle of a Wing Affect The Lift Developed in The Wind?

Brilee Stevens

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD749

How do different soils and materials affect the growth of crops?

Mason Stewart & Robert Wiles

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD750

Mandela Effect: How Memory Tricks the Mind

Savannah Stewart & Kira Long

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD751

Chromatic Recall

Taylee Tanner

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD752

Social Sound

Annamaria Teoh-Malfatti

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD753

Cooking with the Sun

Mariah Wahl & Jessalynn Vaughn

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD754

What background noise do people work best with?

Winnie Wargel

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD755*Family Fingerprints*

Eden Warner & Ellie Young

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD756*Music Vs Sleep*

Erin Wilder & Cora Wildeman

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD757*Does the Size of a Migratory Bird Effect the Migratory Path?*

Rawlin Williams & Jesse Buley

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JD758*What Floats Your Boats?*

Aiden Zimmer & Sadie Valiant

Grade: 7

Judging Time: 6:00 - 7:00 p.m.

JD759*How Wet Is Too Wet?*

Sydney Zirkelbach

Grade: 7

Judging Time: 7:00 - 8:00 p.m.

JUNIOR DIVISION: GRADE 8

PLEASE NOTE: Student names and project titles are presented in the program as submitted by the students on their online registration forms.

JD801*Tick, Tock, Turn Blue!*

Jeremy Adu-Gyamfi

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD802*Puzzle of Priming*

Prisha Bahuva & Saanvi Jondhale

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD803*The Power of Flour*

Autumn Beuschel

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD804*Fantastic Fiber*

Manasi Bhagwat & Havi Yogi

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD805*Picky Paws*

Jaylin Bonesteel

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD806*Heart On Overdrive: How Energy Drinks Affect Heart Rate*

Emma Brinkley & Mariya Ratley

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD807*Carbon Crazy*

Varun Chandar & Akarsh Maurya

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD808*Deer Eat Nuts*

Barrett Collins

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD809*How Pure is School Water?*

Lucia Corley

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD810

Catalyst Conundrum

Cora Curtis

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD811

Ph Levels Affecting Dissolubility

Alexia Eckert

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD812

Bioplastic Creations

Adam Elkhali

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD813

GO PLANES SOAR!

Muhammad Farooq

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD814

The Heat is On!

Emma Firestone

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD815

Soaking Soil

Shubham Goel & Vedant Mamidala

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD816

Dye Removal

Mandeep Gora & Jaytra Das

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD817

Which Container Gives the Best Insulation

Samuel Green

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD818

Colostrum vs Creatine

Jax Greene & Griffin Ellison

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD819

Memory Mix-Up

Claire Gross & Saylor Guertzini

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD820

Got Depth? A Visual Perception

Shelby Hamilton & Jensyn David

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD821

Karate Kicks!

Greyson Hodges

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD822

Do you snooze, or do you lose?

Liam Hohl

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD823

Operation Air

Ilyas Jaffery & Cong Dinh

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD824

Thick or Thin: How Silicon Thickness Affects E-Skin

Hariharan Jaikanesh

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD825

Spinning Into the Future

Luke Jarvis & Salem Hemaida

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD826

Crystal Chaos!

Geoffrey Jerger

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD827

There's Something In the Water

Lincoln Joiner

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD828

*Seeing Infection Before It Starts : Color-
Changing pH Response Bandages*

Gargi Kancharla

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD829

Sail to Victory!

Noah Kim

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD830

How sunlight affect bean plants growth?

sotaro kita

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD831

Distraction vs Reaction

Emma Lengacher & Neerja Khadilkar

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD832

Too Salty to Grow?

Danae Lu

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD833

Absorbed with Integrity

Jayden Malan

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD834

Race to Melt

Ellie Meinschein & Kenslee Harker

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD835

Blue Memory

Ashlyn Monroe & Dahlia Wade

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD836

Designed to Perform

James Moran

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD837

*In what type of liquid, Sprite, coffee, tap water,
or orange juice does ice last the longest?*

Payton Neal

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD838

The Ripple Effect

Maliya Newman & Ellery O'Neil

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD839*Death in the Air*

Inchara Patil

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD840*Varying Velocity*

Silas Quirey

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD841*Emergency Filters*

Shrika Reddy & Charlotte Huber

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD842*Cheerios: Do They Really Lower Cholesterol?*

Harper Riggs

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD843*A Shocking Look at Fruits and Veggies*

Scarlett Rignall

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD844*Teeing up The Truth New vs. Old*

Nolan Roudenbush

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD845*Thermal Throwdown*

Yaseen Sassi

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD846*Salted Peas*

Grayson Schnitker & Kyler Averett

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD847*Shocking Sweeteners*

Clayton Seavers

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD848*Jumping Through Light*

Georgia Shaw-Pullen

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD849*Insulation Inspection*

Aazan Shazhad

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD850*Crops with Hydrogel Drops*

Jessica Sisson & Pranitha Reddy Mandha

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD851*Got Glucose?*

Eden Staat

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD852*Buzz Brains and Buttons*

Hallie Stanfill & Hailey Schnell

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD853*Cold Feet Warm Thoughts*

Eli Tarter

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD854*Rad-ish Stems*

Chloe Trabant

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD855

Rethink Your Drink!

Lucille Trapp & Charlyze Libbert

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD856

Rays To Watts

Latham Wagner & Eli Wells

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

JD857

Shun the Sun

Christina Yang & Sonya Weyer

Grade: 8

Judging Time: 7:00 - 8:00 p.m.

JD858

Radishes and Insecticide?

Emma Yu

Grade: 8

Judging Time: 6:00 - 7:00 p.m.

SENIOR DIVISION: GRADE 9

PLEASE NOTE: Student names and project titles are presented in the program as submitted by the students on their online registration forms.

SD901

Accelerating Perfusion in Chronic and Diabetic Wounds: A Closed-Loop Isothermal Regulation System via a Flexible Additively Manufactured Matrix

Ayan Arora

Grade: 9

Judging Time: 6:00 - 8:00 p.m.

SD902

Hannah Freeman

"Berry" Full of Antioxidants

Grade: 9

Judging Time: 6:00 - 8:00 p.m.

SD904

How Much Vitamin C is In Different Types of Orange Juice?

Adeline Klueh

Grade: 9

Judging Time: 6:00 - 8:00 p.m.

SD905

How Phone Notifications Impact Students' Typing Performance

Beren Uluc

Grade: 9

Judging Time: 6:00 - 8:00 p.m.

SENIOR DIVISION: GRADE 10

PLEASE NOTE: Student names and project titles are presented in the program as submitted by the students on their online registration forms.

SD1001

Geothermal energy

Tyler Carson

Grade: 10

Judging Time: 6:00 - 8:00 p.m.

SD1002

Medium-Term Solar Flare Forecasting and Active Region Monitoring Using Multi-Modal Machine Learning

Jonathan Davis & Zaid Abuhassan

Grade: 10

Judging Time: 6:00 - 8:00 p.m.

SD1003

Need a Hand

Gavin Mitchell & Kaden Powell

Grade: 10

Judging Time: 6:00 - 8:00 p.m.

SD1004

Machine Learning Discovers Universal Drag Laws for Nonlinear Projectile Motion

Naren Raghavan

Grade: 10

Judging Time: 6:00 - 8:00 p.m.

SD1005

Can Humans Tell The Difference Between AI Images and Real Images?

Hannah Schlachter & Skyelynne Stewart

Grade: 10

Judging Time: 6:00 - 8:00 p.m.

SD1006

Simulating the Orbital Dynamics of Lagrange Points

Xavier Schrage

Grade: 10

Judging Time: 6:00 - 8:00 p.m.

SD1007

Reactions of Cats to Different Colored Lazer Pointers

Audrey Troth

Grade: 10

Judging Time: 6:00 - 8:00 p.m.

SENIOR DIVISION: GRADE 11

PLEASE NOTE: Student names and project titles are presented in the program as submitted by the students on their online registration forms.

SD1101

Surface-Mediated Emission Suppression in Solid Biomass Fuels Using Low-Cost Mineral Additives for Safer Cooking Practices

Janelle Addo

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1102

The Effect of artificial sweeteners on Lactobacillus acidophilus and its effects on the female endocrine system

Aiza Farooq

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1103

Color my Memory Project

Eva Gildersleeve

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1104

An In Vitro Analysis of Omega-3 and Omega-6 Fatty Acids on Lactobacillus acidophilus Growth

Jaini Haria

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1105

Polyurethane Microcellulose Coatings for Enhancing Mechanical Fatigue Resistance in PZT Piezoelectric Strips

Kodi Lau

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1107

Tetracyclines: A Study on how Oral Antibiotic Acne Medications affect S. epidermidis

Alexa Meunier & Sahana Veeraraghavan

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1108

Effects of High-Sucrose Diet on Yorkie-Induced Eye Overgrowth and Developmental Timing in Fruit Flies (Drosophila melanogaster)

Niranjan Nambiar

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1109

Quantitative Modeling of Expected Functional Genomic Harm for Optimization of CRISPR-Based Immune Editing Strategies

Noma Ohonba

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1110

Bulletproof Shutter

Abby Palmer & Peyton Petticord

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1111

The Inhibition of Putrefaction Through Flavonoid Supplementation and Glucose Deprivation

Adrika Saha

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1112

Can Mushrooms Keep It Cool?

Samantha Shrull

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1113

Plastics Effects on Natural Waters

Brayden Thompson & Kadynce Ulrich

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1114

Cu Later: Balancing Copper Ion Release and Antibacterial Performance of Copper Alloys Against Escherichia coli K-12

Sylas White

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1115

An Evaluation of Water Conductivity and Ionic Content as an Indicator of Eastern Hellbender Population Decline

Elena Woodard

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SD1116

Evolution of Carnivores

Xander Barlow & Derrick Mays

Grade: 11

Judging Time: 6:00 - 8:00 p.m.

SENIOR DIVISION: GRADE 12

PLEASE NOTE: Student names and project titles are presented in the program as submitted by the students on their online registration forms.

SD1201

The Efficacy of a .45 Long Colt Round

Evan Decker & Dorian Dillion-Lee

Grade: 12

Judging Time: 6:00 - 8:00 p.m.

SD1202

DermEquity: Worst-Case Stress Testing and Influence-Based Bias Attribution for Medical AI Deployment

Kris Lau, Alex Mi, & Angie Xiu

Grade: 12

Judging Time: 6:00 - 8:00 p.m.

SD1203

How Does Your Daily Performance Affect Your REM Sleep?

Alivia Williams

Grade: 12

Judging Time: 6:00 - 8:00 p.m.