



RBSEF, Inc. Presents the
**73rd Reading-Berks Science and
Engineering Fair**

Hybrid through STEMWizard
and Albright College
March 10, 2025 – March 13, 2025

RBSEF 2025 Awards Ceremony
at Albright College
March 13, 2025 6:00 pm



Principal Sponsor



READING-BERKS SCIENCE AND ENGINEERING FAIR

ORGANIZED-1952

Incorporated as RBSEF, Inc. – January 2003

FOUNDED BY:

THE READING CHEMISTS' CLUB

In 1952

SUPPORTING ORGANIZATIONS:

THE SCIENCE TEACHERS OF READING AND BERKS
COUNTY

From 1957

AND

THE READING CHAPTER
PENNSYLVANIA SOCIETY OF PROFESSIONAL ENGINEERS

From 1972

Special Thanks To:

Broadcom Foundation

Reading Eagle

Governor Mifflin FBLA Club

Witzel Sound Solutions

Zach Gore – STEMWizard Support

SCHEDULE OF EVENTS

Monday, March 10, 2025

6:00 PM - 8:00 PM PROJECT DISPLAY SETUP

Tuesday, March 11, 2025

8:00 AM - 3:00 PM JUDGING OF EXHIBITS

1:00 PM - 3:00 PM STUDENT INTERVIEWS

Wednesday, March 12, 2025

8:00 AM - 9:00 PM FAIR OPEN TO PUBLIC

Thursday, March 13, 2025

8:00 AM - 4:00 PM FAIR OPEN TO PUBLIC

8:00 AM – 4:00 PM STUDENTS PICK UP PROJECTS

6:00 PM AWARDS PROGRAM

Introductory Remarks

Greg Przyjemski, President, RBSEF, Inc.

Karen Campbell, Albright Vice President of the School of Professional
Studies

Presentation of Awards

Deanna Witzel, RBSEF Fair Director

Friday, March 14, 2025

7:00 AM – 8:30 AM STUDENTS PICK UP PROJECTS

**(All exhibits to be removed by 8:30 am.
Unclaimed projects will be discarded.)**

FINANCIAL CONTRIBUTORS 2025

\$10,000 Contributor – Principal Sponsor

Broadcom Foundation

\$2,500 Contributors – Gold Sponsor

Carpenter Technology

\$1,000 Contributors – Silver Sponsors

Mitsubishi Chemical Advanced Materials

Schatz Electric

\$500 Contributors – Bronze Sponsors

Amy and Steven Bright

Brentwood

World Electronics

\$250 Contributors – RBSEF Supporters

Aftan Engineering, LLC

Ashley Furniture Industries, Inc.

Masthof Press & Bookstore

Firefly Bookstore

JPMS Manufacturing, LLC

PhytogenX, Inc.

Solar Innovations

Traffic Planning and Design, Inc.

UGI Utilities, Inc.

RBSEF Donors

Levan Machine & Truck Equipment

Security Service Company

L.B. Long, Inc.

Perry Township Game Association

HOW TO CONTRIBUTE

Any corporation or individual wishing to join in supporting the Reading-Berks Science and Engineering Fair may send a contribution to:

RBSEF, Inc.,
PO Box 13314
Reading, PA 19612

or at <https://rbsef.com/donate>

RBSEF, Inc. is a non-profit corporation whose sole purpose is the operation of the science fair.

The Reading-Berks Science and Engineering Fair is incorporated as RBSEF, Inc.

RBSEF, Inc. has an IRS 501 C3 tax exemption. Your charitable contribution may be eligible for a full tax deduction under the rules of the Internal Revenue Service.

CATEGORY AWARDS

The decisions of the judges reflect their desire to recognize exhibitors who have displayed outstanding science and engineering projects. The award guidelines may be changed at the discretion of the award donor or the judges in order that deserving students may be recognized.

Senior Division - 9th through 12th grades

Honorable mentions in each of the nine classifications will receive a certificate. First through fourth place winners will receive medals. The Grand Champion, the Champion and the Reserve Champion will each receive a plaque. The Grand Champion and the Champion will be eligible to participate in the Regeneron International Science and Engineering Fair taking place the week of May 10 – 16, 2025 in Columbus, OH.

The Grand Champion, Champion, and the Reserve Champion are selected from the top projects in the Senior Division. The ISEF Committee Members determine the winners.

Junior Division - 6th through 8th grades

Each grade, 6th through 8th, have a Natural Science Category and a Physical Science Category and will receive the following:

Honorable mentions will be awarded certificates.

First through fifth place winners will receive medals and will receive Thermo Fisher Junior Innovators Challenge awards and invitations to compete in the 2025 Thermo Fisher Junior Innovators Challenge (JIC) national competition.

The Junior Division Champion is selected from the top Natural and Physical division projects in each grade and will receive a plaque.

SPECIAL AWARDS

The special awards are judged and presented by the following professional, technical, and civic organizations, and corporations.

Altrusa International of Reading

A \$100 award to one girl and one boy in the Junior Division who have accrued the second highest number of points in natural or physical science.

American Association of University Women, Reading Branch

AAUW supports the science programs and the Science Fair event by donating a cash award for a ranked girl in the Senior (\$200) and Junior (\$100) Division that has shown talent and originality in the demonstration of an area of science.

American Psychological Association

One certificate and 1-year Complimentary Student Membership recognizing outstanding research in psychological science under the category of behavioral and social sciences, or any category related to psychology (e.g., animal sciences, biomedical and health sciences, translational medical science).

American Society of Civil Engineers Reading Branch

Two \$125 awards in the Senior Division for outstanding projects in Civil, Structural, Environmental, or Geothermal Engineering, or related sciences.

Apparatus Award

A \$100 award for the project which best utilizes student-built apparatus and methodology. Sponsored by Dr. William Heffner

ASM Lehigh Valley Chapter

Three \$100 awards, Junior Division; and a \$200 award, Senior Division, will be given for best projects exhibiting understanding and knowledge of the physical sciences, materials and metallurgy.

ASME - Anthracite Lehigh Valley Section

\$100 awards in Junior and Senior Divisions to a project implementing engineering principles that best demonstrates a contribution to the benefit of humanity.

Association for Women Geoscientists

An award certificate and an honorary AWG membership for the current year to girls and young women (including cis-gender, transgender, gender fluid and non-binary persons) whose projects, in the opinion of the judges, exemplify high standards of innovativeness and scientific excellence in the geosciences and/or Earth sciences.

ATA Martial Arts Sports Science Award

Two (2) \$250 prizes (one for each division) - Awarded to projects that either have an element or a main focus on sports science (including but not limited to physiology, psychology, anatomy, biometrics, biomechanics, and biokinetics).

Berks Building Trades Project Skills Awards

A \$250 award in the Mathematics & Computer Science category to projects that represent skill and craft by the student in performing the project.

Berks County Conservation District

A \$500 award for the project which best represents the organization's mission: Encouragement and instruction of the wise stewardship of the soils and waters of Berks County so that present and future generations may have healthy land on which to live and clean water for drinking and recreation". The award money will be given to the student in July at the annual Scholarship and Awards dinner, Monday, July 28, 2025.

Berks County Dental Society

Awards of \$200, one each in the Junior and Senior Divisions, for outstanding exhibits in the field of dentistry.

Berks County Medical Society

Awards of \$100, \$75, \$50 in the Senior Division and \$75 in the Junior Division for outstanding projects in the medical and health field.

Berks Technical Institute - Innovation Award

\$100 Award to be issued to a Senior Division project demonstrating innovation in the Dental, Medical, IT Support, Electrical or HVAC related fields.

Berks Western Telecom

Two Awards of \$50 to a project that contains a technology aspect.

Brian Wentling Memorial

A \$100 award to the highest-ranking boy or girl in Junior Division Natural Science. The award will be presented after the Junior Division category awards.

Broadcom Foundation - Coding with Commitment Award

The Broadcom Coding with Commitment is recognition of a project by a 6th, 7th or 8th grade student, preferably from a Title I school or an underrepresented group, participating in any category and who combines:

1. STEM Knowledge and
2. Basic Coding/Computation in the project's research, design, or development, and
3. Expresses Passion for helping or improving his/her/their community Prize Elements
 - Public recognition at Broadcom Foundation-sponsored competitions and showcases, with the receipt of a formal award certificate from the Broadcom Foundation, and
 - \$250, and
 - Raspberry Pi Pico Kit

Code Relief, LLC

Two \$50 awards to Muhlenberg School District students (Middle School if possible) for the most engaging and creative model or backboard that convey a clear understanding of their chosen topics.

Conrad Weiser Lions Club

Eight \$50 awards. \$50 each to four Conrad Weiser High School and four Conrad Weiser Middle School students whose projects best show application to Lions Club vision of helping others.

Diocese of Allentown

A \$30 award to the highest-ranking girl from a parochial school in the Junior Division, and an environmental science and technology award of \$30 will be given in the Junior Division or Senior Division to a student from a parochial school.

East Penn Manufacturing Excellence in STEM Award

Awards of \$125, one each in the Junior and Senior Divisions, for outstanding projects dealing with batteries or energy storage.

Entech Engineering, Inc.

Three awards of \$50 in the Junior Division and one \$100 award in the Senior Division for projects which display creative concepts and could lead to useful inventions.

Frank D. Herron Memorial Award

In memory of the long-time director of the Reading-Berks Science and Engineering Fair, two awards of \$75 each for the most unusual projects exhibited.

Fraternal Order of Police, Lodge #9, of the City of Reading

The Sgt. Donald Matz Award of \$1000 for the most outstanding project in forensics or chemistry.

IBEW Local Union 743 International Brotherhood of Electrical Workers Awards

Two \$250 awards for projects from either Senior or Junior divisions that incorporate electricity in a safe, knowledgeable, and interesting way. Sponsored by the Electricians Local 743.

Junior Division Sports Equipment Award

Mike & Rose Gerhart present two \$50 awards in the Junior Division for a project that incorporates sports equipment to test the hypothesis. Presented by Mike and Rose Gerhart.

Lehigh Valley Section of the American Chemical Society

A \$250 award to the winner of the Chemistry Division. A \$250 award to the best project using chemistry in the Junior Division. The award will be presented after the Senior Division category awards are presented.

Lemelson Early Inventor Prize

In partnership with The Lemelson Foundation, the Society is offering a \$100 award and certificate to a 6th-8th grade inventor creating an invention that represents a promising solution to a real-world problem. Inventions can be devices, or they can take the form of novel methods or processes (for example, inventing a carbon sequestration process or creating a biomarker to detect disease).

Mohnton - Cumru Lions Club

Five \$100 awards to Governor Mifflin students whose project best show application to supporting community.

NASA Earth System Science Award

Certificate and Invitation to a Webinar with NASA Scientist presented to the student whose project offers the greatest insight into the earth's interconnected systems. The different spheres that make up our Earth system are the atmosphere, lithosphere, hydrosphere, cryosphere (snow and ice), and biosphere.

National Oceanic and Atmospheric Administration (NOAA)

NOAA's "Taking the Pulse of the Planet" Award

A Letter of Congratulation and an Award Certificate for the project 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.

Penn State Berks, Science Division

Three awards of \$100 each for the Best Projects in Agricultural Science, Biological Science, and Physical Science. One award of \$50 for best use of data and statistics.

Project Excellence Award Sponsored by Organization Management Services

Organization Management Services presents a \$150 award to Senior and a \$100 award to Junior Division students for exhibits that demonstrate project excellence through appropriate use of project notebook, well written project report, thought out project display, and proper use of the scientific process. Sponsored by Organizational Management Services.

Reading Bakery Systems

(1) \$100 award for the most complex exhibit involving food science.

(1) \$100 award for the most unusual exhibit involving food science.

Reading Science Center

Award to the most unique project or approach and student enthusiasm in the 6th grade Junior Division. Awards of one (1) Family Membership for one year as well as a science kit from the Reading Science Center.

Regeneron Biomedical Science Award

Regeneron Biomedical Science Award to be awarded to Senior Division.

This award will provide a \$375 award and a certificate to an exceptional student scientist who not only demonstrates an impressive command of biomedical science and research but also embodies Regeneron's core values and behaviors, known as The Regeneron Way, which are reflected in the award selection criteria.

Ricoh Sustainable Development Award

Certificate to student, whose outstanding project addresses issues of environmental responsibility and sustainable development and incorporates principles & technical innovations that offer the greatest potential for increasing our ability to grow environmentally friendly & socially responsible businesses.

Reading Musical Foundation: For the Love of Music

The Reading Musical Foundation (RMF) is proud to sponsor two awards recognizing outstanding student projects that explore the intersection of music and science. These awards celebrate innovative research in areas such as acoustics, music technology, and the impact of music on the mind and body. By supporting young scholars in their musical and scientific pursuits, RMF encourages creativity and a deeper understanding of music's role in our world.

\$100 each in Senior and Junior Divisions.

Schatz Electric

An award of \$250 presented in memory of Harold Bucks for projects that display practical use of electrical or electromechanical devices. An award of \$250 presented in honor of Al Happ, Instructor, Berks Career & Technology Center, for projects that display practical use of electrical or electromechanical devices.

Scoboria Family

A \$200 award to the winner of the Physics Division. Three awards in the junior division, One in each grade in the Junior Division (6th, 7th, & 8th) for the best Physics Project.

Senator Judy Schwank

Awards of \$50, one each in the Senior and Junior Divisions, for outstanding exhibits in agriculture, horticulture, plant science, or related fields.

Society for In Vitro Biology

The Society for In Vitro Biology (SIVB) provides one (1) award and Membership in SIVB at each Regional/State ISEF Competition. It is intended that this recognition be awarded to the most outstanding 11th grade student exhibiting in the areas of plant or animal in vitro biology or tissue culture. In addition, it is possible that the recipient will be contacted by our society and invited to submit an abstract of their work to our annual meeting.

TExpL® Momentum Maker Awards

The TExpL® Momentum Maker Awards celebrate student research projects that showcase creativity and innovative thinking with a strong connection to solving real world issues in their field of research. These awards recognize the power of ideas and exploration, valuing the ingenuity of the students work. This award grants students a sponsorship opportunity to attend one week of the TExpL® Momentum Makers Summer Program at Alvernia University.

- 2 TExpL® Innovative Momentum Maker Awards (one for Middle School, One for High School)
- 1 TExpL® Innovative Momentum Maker Medical Science Award
- 1 TExpL® Innovative Momentum Maker Culinary Science Award
- 1 TExpL® Innovative Momentum Maker Entrepreneur Award

U.S. Metric Association

Certificate and 1 Year of Membership to the US Metric Association for a research project that expresses measurements in the SI is an ideal candidate for this award. All reported measurements, including calculations, data, graphs, and conclusions should be expressed exclusively and accurately using the SI.

United States Air Force

Four award packages to students for best exhibits in mathematics, science and engineering. The award packages include a sling pack, Power Bank, USB Flash Memory Drive, USB Car Charger, and Official AF Certificate.

Valley Forge Chapter, Pennsylvania Society of Professional Engineers

Scott G. Daelhousen Engineer's Award

Awards of \$300 to the Grand Champion and \$200 to the Champion. The Grand Champion award is funded by the Scott G. Daelhousen Engineer's Award endowment and distributed by the Berks County Community Foundation.

Waldesruh - The Most Innovative Project Award

Award 1: A project that demonstrates ingenuity and creative thinking.

Award 2: A project that creatively addresses the problem of climate change.

Witzel Sound Solutions

One (1) \$100 Junior Division prize and one (1) \$100 Senior Division prize for the most unique project applying sound/audio concepts (e.g., sound waves, sound pressure, sound production, sound engineering).

Worley

One \$100 award for the Junior Division and one \$100 award for the Senior Division for the most outstanding project investigating anything associated with power generation, distribution, or storage.

Water Environment Federation / Stockholm Junior Water Prize

1 Certificate - The U.S. SJWP is open to all high school students in 9th -12th grades who have conducted water related science projects and have reached the age of 15 by August 1st of the current competition year. Projects should be aimed at enhancing the quality of life through improvement of water quality, water resource management, or water and wastewater treatment.

Yale Science and Engineering Association

Preliminary Certificate to the most outstanding 11th grade project exhibiting in the areas of Science, Technology, Engineering, and Mathematics. In extraordinary cases it may be awarded to a 10th or 12th grade project.

CATEGORY EXHIBITS

<u>DIVISION</u>	<u>CLASSIFICATION</u>	<u>CODE</u>
SENIOR - 9th - 12th Grades	Behavioral and Social Sciences	BS
	Botany	BO
	Chemistry	CH
	Earth and Environment	EE
	Engineering	EN
	Mathematics and Computers	MC
	Medicine and Health	MH
	Physics and Astronomy	PA
	Zoology	ZO
	JUNIOR - 6th - 8th Grades	Natural Science
Physical Science		6P, 7P, 8P

CATEGORY EXHIBITS LISTED BY SCHOOL

Conrad Weiser High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Horack, Allie	Managing Lactose Intolerant Symptoms Using Galacto-Oligasaccharide	MH001
Miller, Finnegan	Evaluation of Pleurotus Ostreatus in the Presence of Plastic	EE003
Mortland, Cambria	When Do Transposons Most Commonly Affect Kernels of Zea Mays?	BO002
Neider, Scarlet	The Effect of Cornstarch Levels on Feather Based Bioplastic Formulas	EE002
Nutter, Cami	Preventing Infection in Tissue Culture Firefly Chrysanthemums	BO003
Rice, Sawyer	Brew-tiful Kombucha: The Birth of a SCOBY	CH001
Rice, Rowan	Juglans Nigra and Castanea Mollissima Endocarps as Microplastic Filter Media	EE005
Robinson, Brady	Exploring Nanoparticles and Chemo Drugs for Targeted Cell Toxicity	MH004
Yudiski, Edmund	How Manipulation Can Affect Perception of Sweet and Sour Foods	BS004

Conrad Weiser Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Baker, Jackson	The Effects of Wires Gauge on Electricity Speed	8P004
Bartolo, Mason	The Effect Temperature Has on Yeast Activity in Bread	8N031
Bender, Colin	A Comparison of Electrolyte Levels in Different Sports Drinks to Orange Juice	8P003
Berger, Georgina	Who Is Better at Math, Males vs Females?	6N015
Brant, Gwyneth	Limestone vs Acidity Treatments in Neutralizing pH in Water	8P013
Bruno, Kayleigha	The Effect of Age on Tastebuds	8N002
Capretti, Montgomery	The Effect of Music on Sports	7N032
Christman, Nathan	How Can Soccer Shot Accuracy Be Improved after a Month of Practice?	7N006
Ciemiewicz, Connor	The Efficiency of Zeppelins When Using Different Materials	7P012
Cohen, Anderson	The Effect of Noise Cancellation Material on Decibel Readings	7P002
Dawson, Liam	How Does Parachute Shape Impact the Rate of Descent?	8P001
Dickman, Penelope	Branching Out: The Impact of Live Christmas Trees on Indoor Air Quality	6N020
Esterly, Brixton	Are Mood Rings Accurate in Reading Emotions?	6P020

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Ferchalk, Jonah	The Effect of Video Games and Reading on the Ability to Focus	6N003
Fessler, Macey	Extrovert vs Introvert - Who Has the Better Memory?	8N035
Fisher, Josh	Effect of Different Types of Music on Efficiency and Accuracy in Test Takers	7N014
Flores, Aydyn	How Does the Amount of Salt Affect Plant Growth?	8N008
French, Declan	The Effect of Bullying on Middle School Students Mental Health	7N001
French, Ariadne	How Does TikTok Affect Middle School Aged Girls Grades?	7N004
Gainer, Gauge	What Type of Quartz Produces the Most Electricity?	6P017
Gehret, Connor	Does Color Affect the Way People Perceive Taste?	6N018
Geise, Eric	Does Age Affect the Choice of Hydration Drink?	6N004
George, Lillian	What Gluten Free Flour Tastes the Best When Making Cookies?	6N014
Gravitt, Austin	Does Playing a Sport Affect Speed?	6N002
Guziak, Grayson	Bridge the Gap: Testing Shapes for Maximum Stability	6P010
Harbach, Elliott	Why are Certain Patterns Non-complementary in Fashion?	7N019
Himmelberger, Evan	Effectiveness of Antibacterial Soap and Handwashing	8N005
Hix, Journey	How do Different Music Genres Affect Memory Using Different Volumes?	7N016
Joseph, Elica	The Effect of House Blue LED Lights on a Persons Sleep	8N010
Keller, Derek	How Will Different Flowerpot Materials Affect a Plant's Growth?	8N030
Kennedy, Michael	Effect of 100 Day Overload/Underload Training on Batted Baseball Exit Velocity	8P002
Kertsman, Alecsey	Music's Effect on Physical Task Work	7N013
Kirlin, Chloe	Rock Candy Crystal Making	6P016
Klitsch, Laura	Screen Time Affecting Sleep	7N015
Kofsky, Ava	The Effect of Temperature on the Lifespan of a Battery	8P005
Kofsky, Savannah	Fresh Focus: Investigating Effects of Mints on Concentration and Test Scores	6N007
Kramlich, Kolby	The Effect of Weather on a Football in Motion	8P034
Krick, Alexis	The Effects of Rock Salt Runoff from Roads into Nearby Creeks	8N016
Lall, David	The Effectiveness of Gx Sweat Patches vs Self-Calculated Sweat Rate	8N034
Lefler, Bryant	The Effect of Listening to Music While Running	8N013
Lefler, Grayson	What is the Best Way to Recharge a Magnet?	6P002
Little, John	What Shell Color Makes the Best Bouncy Egg?	6P003
Lopez, Sophia	What Color Toys Do Cats Like the Best and Play with the Most?	6N013
Marburger, Abby	The Effect of Different Hand/Finger Placement on a Bowling Ball	8P033
Masi, Peyton	How Video Games Affect a Person's Tolerance to Pain	8N029
Mazurek, Steven	1-Piece 2022 BBCOR Baseball Bat vs 3-Piece 2023 BBCOR Baseball Bat	7P001
McCoy, Noah	The Effect of Softener on Fire Retardant Clothing	8P029
Meeks, Conner	Which Part of Your Foot is Best in Order to Score a Goal in Soccer?	6P006
Meredith, Liam	What Type of Lettuce Works Best with Hydroponics	8N007
Metzger, Emma	The Effectiveness of Miniature Donkey Waste Paper as a Paper Alternative	7P004
Miller, Piper	Fruit Dehydration Affects Sugar Concentration and Preservation of Various Fruit	8N001
Miller, Tyce	Forms of Blood When Dropped from Different Heights	8P010
Miller, Caden	Effects of Lure Type and Color on Fish Attractiveness	7N018
Miller, Ian	How Much Do Running Spikes Increase Speed?	8P028
Misiti, Chiara	The Effect of Different Insulation Materials on Sound Insulation	8P012
Morales, Lilly	How Do Wax Type, Wick Type, Colors, and Scents Affect Candle Burn Time?	7P003
Morris, Camryn	Investigating the Effects of Sportswear on Drag in Competitive Swimming	7P005
Nadirov, Emilia	Effect of Combustion of Paper Types on Amount of Particulate Pollution	7P011
Nakonecznyj, Nathan	The Effect of Bowling Ball Mass on Pin Displacement	8P008

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Nakonecznyj, Madelyn	What Food Would a Bearded Dragon Like Best?	6N017
Oberlin, Sophia	Hands Down - Is It a Step in the Right Direction?	6N009
Owsiany, Sophi	The Effect of Baking Powder on Baked Goods	8P009
Paine, Brayden	What Is More Water Efficient: Using a Dishwasher or Hand Washing?	6P008
Perkins, Juliet	Which Types of Flour Grow the Most Mold?	7N021
Petersheim, Ava	Does Adding Sugar to Plants Help Germination?	6N010
Petersheim, Aubrey	The Smile Experiment: The Effect Chocolate Has on Humans	6N011
Pinnell, Hannah	The Effect of Chromatography on Markers and How it Can Tell Quality	8P074
Pinnell, Abigail	The Correlation Between Coarse Rock Tumbling Grit and Crystal Luster	8P075
Polak, Ewelina	The Safety and Effectiveness of Whitening Strips	8N012
Rathman, Dylan	The Effect of Cleaning Supplies on Bacteria Growth on a Water Fountain Nozzle	8N026
Reyes Lebron, Alanis	Does Gender Affect Reaction Time?	8N011
Rhyder, Haylee	The Effects of Different Percentages of Niacinamide of the Sebum of the Skin	8N003
Rice, Ilina	The Effect of Music on Studying and Subject Retention	8N004
Robison, Luke	Which Tennis Racket Has the Best Accuracy, Diadem or Wilson?	6P007
Sassaman, Liam	Which Gender Has a Faster Reaction Time?	6N006
Schott, Liam	The Speed and Accuracy of Physical Keyboards Versus an Onscreen-Keyboard	8N009
Schweigert, Kieran	Gatorade vs Water: The Science of Hydration After Running	6N005
Sellers, Cooper	The Method of Invertebrate Utilization on Attracting Fish	7N002
Shaffer, Brooke	Antibacterial and Stain-Removal Properties of Organic vs Traditional Soaps	7N003
Shesniak, Emmalie	The Accuracy of the MBTI Test	8N014
Slani Mcguire, Brody	Light Pollution Affects Eastern Screech Owls	7N045
Skipper, Brayden	What is the Best Battery Brand for a Flashlight in the Cold?	8P072
Speicher, Cole	Jumping to New Heights: Vertical Jump	6N008
Stankiewicz, Deziree	The Effect of Compost Composition on Plant Growth	7N017
Stern, Gianna	The Effect of Growing Plants With Different Liquids	8N032
Stoy, Kellen	Fueling the Future: The Power of Hydrogen	8P011
Strine, Kinsley	Age Effect on Speaking Speed	7N020
Strine, Kellen	The Effect of Age on Reaction Time	8N028
Strine, Carter	Citrus Fruits and Light	8P031
Summers, Morgan	Toothpaste Brands and How they Perform Against Bacteria	8N015
Sweigart, Ella	Seeing the Light: A Tech-Color Solution for Color Blindness!	6P001
Troutman, Kyra	The Effect on Watercolor Paint from Different Substances	8P032
Ulrich, Kamryn	How Different Beverages Affect Your Teeth	6N012
Unger, Baron	The Effects of Different Chemicals on a Glow Stick	7P006
Weir, Zoey	The Pawfect Pet Personality Match: Dogs, Cats, and You	6N016
Yeung, Tivian	The Effect of Different Temperament Combinations on Collaborative Work	7N005

Fleetwood High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Sonon, Erin	Phenanthroline/Metal Phenanthroline Compound Toxicity on Crithidia Parasites	CH006

Governor Mifflin High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Bausher, Lou	Balancing Salinity Levels Using Natural Materials	EE007
Diaz, Isaiah	The Effect of Different Genres of Music on Concentration	BS008
Drenning, Harmony	Placebo Effect and Test Performance	BS006
Lally, Savannah	The Effect of Lotion Cost on Skin Softness	MH002
Mershon, Zaden	The Effect of Extraction Method on the Yield and Quality of Herbal Extracts	CH008
Overley, Jaxon	The Effect of Social Media on Attention Span and Verbal Memory	BS007
Rutcosky, Kelby	The Effect of Inorganic and Organic Fertilizers on Plant Growth	BO004
Zifra, Mia	Influence of Sensory Characteristics of Dog Toys on Behavior/Engagement	ZO002

Holy Guardian Angels

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Achenbach, Leah	Memory Maturity	8N050
Cobos, Yamilee	Which Breads Mold the Fastest	8N052
Coley, Alexandra	Which Cheese Molds the Fastest	8N049
Flynn, Dina	Absolute Rose	8N045
Giron, Esteliane	Symphony of the Heart and Mind	7N043
Glessner, Madelyn	Fizzy Science	8P051
Kazimierowicz, Maximilian	How Temperature Affects Plant Growth	8N046
Keller, Avery	Bites And Behavior	8N047
Kimma, Brady	Should Flushable Wipes Go Down the Pipes	7P028
Kopp, Elijah	Soil vs Compost	7N041
Munoz, Kimberly	Elephant Toothpaste Yeast vs Iodine	8P054
Najarian, Parker	What Gas Makes a Ball Bounce the Best?	8P050
Nguyen, Jason	Testing The Limit of a Water Filter	8P056
Rubert, Elaine	Tap Water vs Aloe Water	8N048
Rundle, Marcus	What Metals Attract to Magnets	7P029
Sauer, Michael	The Measure of Electromagnetic Radiation	7P027
Schearer, Alison	VKTRY vs DEFEAT	8P049
Schmeck, Mikaela	What Will Stop Apples from Browning	8N051
Sullivan, Shayla	Energizer vs Duracell	8P053
Taimanglo, Evan	Let's Throw the Pearl	7P030
Thompson, Giavanna	Hydrophilic Alchemy	8P055
Zavala-Salas, Elias	Organic vs Inorganic	7N042
Zellers, Alexandra	Baking Sheet Shenanigans	8P052

Immaculate Conception Academy

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Carver, Ethan	Does the Temperature of a Baseball Affect the Game's Outcome?	8P047
Clemente, Gabriella	Social Media's Influence on Adolescent Anxiety	8N043
Crozier, Madysyn	The Best Kind of Water for Plants	7N037
Hine, Mackenzie	Gene Jenga	7N036
Leininger, Matthew	Measuring Strength/Direction of Current Using Homemade Galvanometer	7P025
Luck, Gabriella	Marine Biodegradable Straws vs Paper Straws	8P046
North, Isabella	Running Palooza	7N039
Pike, MaryKate	What Flies Farther, an Aluminum or Wooden Arrow?	8P048
Scarbinsky, Isabella	Which Moisturizers Work Best for the Skin?	8N042
Shuman, Teagan	Savor the Flavor	7N038

LaSalle Academy

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Cartin, Penelope	You Need to Calm Down	8N018
Debiec, Maeve	Dusty Dusty	6P019
Dobson IV, Thomas	Do Molecules Move Faster in Warm Water?	7P033
Draper, Kohen	How Does Wireless Power Transmission Work?	8P006
Esterly, Lilly	5 Second Rule	8N044
Gable, Will	Reality Check: AI or Real Images	7N040
Gibbons, Emily	Does Heat Protectant Actually Work?	8P059
Gontarz, Ainsley	321...Blast Off	6P011
Hoke, Madison	How High Can You Jump?	8N053
Karwejna, Sarah	Spot the Difference	8N065
Kuebler, Emily	Breaking the Bridges	6P014
Kutzer, Zoey	DNA Fruit Extraction	7N008
Leininger, Jett	3 . . 2 . . 1 . . Blast Off	6P013
Manidis, Quinn	Automatic Pill Dispenser	7P026
McClure, Reese	Will It Fade?	6P021
McNear, Madi	The Uncanny Valley	8N054
Morrissey, Tessa	Ice Ice Baby	8P019
Morrissey, Quinn	Got Gas?	6P018
Reali, Alyssa	What's in a Puff?	7N007
Reinard, Juliana	A Bloody Investigation	8P007
Reinard, Kyrill	Learning to Code in Python	6P015
Rodriguez, Emma	Ahh! My Hand!	8N006
Rogers, Teagan	The Painter's Partner	7P007
Romeo, Anthony	Oxi-Clean + Sunlight versus Grass Stains	7P031
Skalski, Fiona	Cloudy With a Chance of Acid	7N049
Stonaha, Sonya	Trashbot 1.0: Natures Janitor	6P012
Zabala, Alina	How Do Plants Adapt to Different Temperatures?	8N056
Zhingre-Kelly, Suannabelle	Invest More Get More	8N019

Muhlenberg High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Brady, Blake	What are the Effects of UV Light on Chemical Compounds	CH009
Carbajal, Leonardo	C.A.S. (Counter Atrophy Suit)	EN003
Chopra, Sanaya	Illuminating Comprehension: How Light Affects Reading	BS002
Davis, Salem	Magnet Movers	EN006
De Los Santos, Ashley	Wandering Minds Think Alike	BS001
Dieter, Morgan	Invisible Invaders: Microplastics in Our Recreational Areas	EE006
Djevharian, Noah	A Wind-Wind Solution	EN005
Dominguez, Jessica	Making Plant Pots Out of Polystyrene	EN004
Eckert, Tyler	Kitchen Oils Matter	CH007
Evans, Samson	Lepomis Macrochirus Fish Scales as Biological Indicators of Stream Health	EE001
Markwood, David	illumiLOGIC: Redefining Illumination through Multi-Sensor Integration	EN001
Quezada, Jayden	Does Modern Music on Trombone Help Memory?	BS005
Rosario, Ariel	Winning A Gold Medal: The Capacity of Reinforcement Learning	MC002
Vy, Lily	Of Course We're the Problem	EE008
Wagner, Quinn	BioVolt: Replacing the Zinc-Air Battery with Biodegradable Materials	CH003

Muhlenberg Junior High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Alston, Alexis	The Ph Dance! Bacteria & Acidity in a Two Step	8N057
Alston, Aaliyah	Goldfish Growth Rate	8N059
Bangura, Aliyah	Are You Seeing What I'm Seeing	8N055
Baylor, Olivia	Pillow Power Protection	7N046
Castaneda Reyes, Kira	Does Heat Protectant Protect Your Hair or Are You Paying for the Brand Name?	8P066
Djevharian, Laura	A-MAZING CRABS	8N058
Evans, Alexis	Tasting Colors?	6N019
Faust, Layla	Chicken Body Murder	8P061
Flowers, Melyah	Sniffing Out Solutions	8P064
Hausman, Evan	Eye Witnessing The Influence	8N064
Heckler, Autumn	Gather by the Fire	8P065
Hobbs, Liam	Magnetohydrodynamics: A Demonstration	7P035
Holland, Leah	Make Your Own Shampoo and Test How It Performs	8P063
Kohl, Ian	It's Getting Hot in Here so Insulate Your Walls	8P071
Maftai, Lukas	Beyond the Boil: Can Filtration Substitute Boiling Water?	8P060
Mendoza, Sierra	Rapidly Decay with the Help of Red Worms!	8N060
Padilla - Peralta, Gabriela	"Sugary Fruit, Does It Change?"	8P069
Padilla Peralta, Rafelina	SAY CHEESE!	7P036
Stettler, Ella	How High Can You Sing?	8N061
Wyland, Bronson	Pop, Pop, Popping into Popcorn	7P034
Yoder, Austin	It's Falling	8P067

Sacred Heart School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Brunner, Gemma	Vitamin C in Hot Water	7N050
Hauser, Anthony	Magnetic Damping	8P016

Saint Catharine of Siena School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Bajwa, Simrat	From Crime to Conviction: The Psychological Forces That Shape Justice	7N009
Bowman, Kellen	Which Duct Tape Is the Best	7P038
D'Angelo, Joseph	Keep It Fresh	8N027
Kieffer, Emma	Bath Bombs in Different Liquids!	7P009
Kozak, Emma	Broccoli's Vitamin C: Does Cooking Change It?	7N010
LaRosse, Nora	Ingredient Showdown: Putting Expensive and Cheap Options to the Test	7N011
Lin, Selina	Dissolve and Conquer: The Battle of Dissolution Rates	8N022
McDevitt, John	Seeing and Believing	7N012
Mckeone, Jack	Which Fat Works the Best in Cookies	8N025
Miller, Samuel	Which Beverage Has the Highest Electrolyte Content?	7N048
Oswald, Vaughn	Plastic Drop Test	8P027
Tanaka, Kirra	Those Aren't Meant to Bend!	8P026
Vu, Khoa	How the Weight and Drag Affect Heavier Than Air Flight	7P010
Walton, Alice	Name Brand vs Generic Brand Foods	8N023
Wisniewski, Sara	Colors in Your Life	8N024

St. Ignatius Loyola School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Beetel, Madeynn	Does the Nose Know	7N028
Bradley, Paige	Too Hot? Too Cold? Just Right? The Effects of Temperature on Luna Moths	7N026
Casimir, Jaden	Which Kind of Water is the Healthiest	8N062
Freed, Ava	The Effects of Friction	8P015
Giannotti, Miranda	What Can Extend the Life of Fresh Cut Flowers?	7N024
Grejduš, Chase	How Does UV Light Affect the Vitamin C Contents in Plants?	8N037
Gross, Sabrina	Evaluation of Dishwashing Methods	8N038
Kolson, Jocelyn	When We Munch Does Our Heart Beat a Bunch?	7N023
Langumas, Jasper	Which Beverages Have the Most Amount of Carbonation?	8P057
Lanza, Joshua	Can Transmissions Affect How Fast a Solar Powered Car Goes?	8P045
Lanza, Joseph	What Age Group Has the Fastest Reaction Time?	8N040
Loper, Gabriella	Staying Cool in the Summer: Does the Color of Your Shirt Matter?	8P068
Mills, Keira	What Methods Keep Fruit Fresh?	8P058
Motley, Goldie	American vs European Snacks	8P017
Napoli, Izzy	Which Perfume Lasts the Longest?	7P019
Newswanger, Delaney	Is Salt or Sugar Better in the Production of Ice Cream?	8P073
O'Donnell, Nora	To Grow or Not to Grow	7N031
Perate, Dominic	Can Plants Grow with Different Liquids	8N017
Purfield III, Joey	Making Eggs Float	7P013
Reimels, Anna	Does Color Affect Memory?	7N027
Roberts, Franki	Does Gum Help You Concentrate	8N041

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Stringer, Sullivan	The Effect of Disinfectants on Bacterial Growth	8N039
Strock, Ben	The Science of Walking Robots	7P020
Tarantino, Mia	That's Unusual!	7N035
Zudie, Loveline	The Effects of Drinks on Teeth	7N030

The King's Academy

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Didenko, Dana	Correlation Between Facial Symmetry and Perceived Attractiveness	BS003
Hansley, Kylee	Rocking The Boat	6P004
Heath, Loraina	Surface Tension	8P039
Lydon, Jayden	Gyro Speed On	6P005
McCaffrey, Abby	Exploring the Effects of Club Shaft Flex on Carry Distance	PA002
Paino, Abbie	Battle of the Brews	BO001
Reyes, Raymond	Dissolution Dynamics: Size vs Time	8P038
Weaver, Cassidy	High, Higher, Highest; What is the Best Food for Yeast?	6N001
Yost, Brielle	Sunkissed, Not Sunburnt	8P037

Wilson High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Aman, Tyler	How a Building's Shape Influences Wind Loads	EN002
Ferenchick, William	Shrimp-Wrap: Compostable Chitosan Bioplastic Composite	CH005
Sinha, Anika	Synthesized Gold Nanoparticles with BSA and Tryptophan as Capping Agents	MH003
Wu, Selina	Chemical Precipitation	CH002
Xie, Julia	Carbon Footprint of Recycling vs Rejuvenation of Lithium Battery	EE004

Wilson Southern Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Aman, Violet	Layers of Defense: How Spacing Affects Whipple Shield Performance	6P022
Barreto, Gianna	Does Weather Affect Mood?	8N021
Bravo Rivera, Falicity	Effect of Carbonation on pH in Liquids	8P042
Deiningner, Morgan	Does the Eye Know What the Hand is Doing?	8N020
Glaze, Ashton	The Effect of Mass on Airplane Flight	8P040
Graber, Conner	Elevation vs Batting Average	8P022
Hothi, Jasnoor	Snack Attack: How your Favorite Treats Spike Your Blood Sugar!	7N044
Magcamit, Rob	The Effect of Light Color on Solar Cell Resistance	8P043
Mensah, Gabrielle	Effect of Temperature on Vibration of Strings	8P025
Minnich, Jessica	Voltage Production in Common Objects	8P041
Murray, Lillian	To Drink or Not to Drink? - That is the Question	8P023
Oyewole, Bukunmi	Types of Memorization	8N033
Pettit, Nataliyah	Guardians from the Sun: Natural Products vs UV Radiation Products	8P020
Roberts, Elliott	How Does Temperature Affect Circuit Speed?	8P035
Salamov, Jacob	Eroding Earth	8P021
Sanchez-Nieves, Onixiram	Unmasking the Invisible: Which Method Reveals the Most Detailed Fingerprints?	8P014
Sims, Zhaneah	The Effect of Temperature on Hair Structure	8P044

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Tennis-Speller, Arabela	Nose Knows: How Age Impacts Our Olfactory Abilities	8N036
Wentz, Brooke	Grind and Shine: Exploring the Effect of Grit on Tumbling Time for Rocks	8P024

Wilson West Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Machuzick, Estelle	Factors That Affect Yeast Growth	8N063

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Wilson Southern Middle School

Cockrum, Cindy

Wilson West Middle School

Melograna, Joseph

Science Fair Participants by Project

Junior Division

Number	Student Name	School
<u>6th Grade Natural Science</u>		
6N001	Weaver, Cassidy	The King's Academy
6N002	Gravitt, Austin	Conrad Weiser Middle School
6N003	Ferchalk, Jonah	Conrad Weiser Middle School
6N004	Geise, Eric	Conrad Weiser Middle School
6N005	Schweigert, Kieran	Conrad Weiser Middle School
6N006	Sassaman, Liam	Conrad Weiser Middle School
6N007	Kofsky, Savannah	Conrad Weiser Middle School
6N008	Speicher, Cole	Conrad Weiser Middle School
6N009	Oberlin, Sophia	Conrad Weiser Middle School
6N010	Petersheim, Ava	Conrad Weiser Middle School
6N011	Petersheim, Aubrey	Conrad Weiser Middle School
6N012	Ulrich, Kamryn	Conrad Weiser Middle School
6N013	Lopez, Sophia	Conrad Weiser Middle School
6N014	George, Lillian	Conrad Weiser Middle School
6N015	Berger, Georgina	Conrad Weiser Middle School
6N016	Weir, Zoey	Conrad Weiser Middle School
6N017	Nakonecznyj, Madelyn	Conrad Weiser Middle School
6N018	Gehret, Connor	Conrad Weiser Middle School
<u>6th Grade Physical Science</u>		
6P001	Sweigart, Ella	Conrad Weiser Middle School
6P002	Lefler, Grayson	Conrad Weiser Middle School
6P003	Little, John	Conrad Weiser Middle School
6P004	Hansley, Kylee	The King's Academy
6P005	Lydon, Jayden	The King's Academy
6P006	Meeks, Conner	Conrad Weiser Middle School
6P007	Robison, Luke	Conrad Weiser Middle School
6P008	Paine, Brayden	Conrad Weiser Middle School
6P010	Guziak, Grayson	Conrad Weiser Middle School
6P011	Gontarz, Ainsley	LaSalle Academy
6P012	Stonaha, Sonya	LaSalle Academy
6P013	Leininger, Jett	LaSalle Academy
6P014	Kuebler, Emily	LaSalle Academy
6P015	Reinard, Kyrill	LaSalle Academy
6P016	Kirlin, Chloe	Conrad Weiser Middle School
6P017	Gainer, Gauge	Conrad Weiser Middle School
6P018	Morrissey, Quinn	LaSalle Academy
6P019	Debiec, Maeve	LaSalle Academy
6P020	Esterly, Brixton	Conrad Weiser Middle School
6P021	McClure, Reese	LaSalle Academy
6P022	Aman, Violet	Wilson Southern Middle School

7th Grade Natural Science

7N001	French, Declan	Conrad Weiser Middle School
7N002	Sellars, Cooper	Conrad Weiser Middle School
7N003	Shaffer, Brooke	Conrad Weiser Middle School
7N004	French, Ariadne	Conrad Weiser Middle School
7N005	Yeung, Tivian	Conrad Weiser Middle School
7N006	Christman, Nathan	Conrad Weiser Middle School
7N007	Reali, Alyssa	LaSalle Academy
7N008	Kutzer, Zoey	LaSalle Academy
7N009	Bajwa, Simrat	Saint Catharine of Siena School
7N010	Kozak, Emma	Saint Catharine of Siena School
7N011	LaRosse, Nora	Saint Catharine of Siena School
7N012	McDevitt, John	Saint Catharine of Siena School
7N013	Kertsman, Alecsey	Conrad Weiser Middle School
7N014	Fisher, Josh	Conrad Weiser Middle School
7N015	Klitsch, Laura	Conrad Weiser Middle School
7N016	Hix, Journey	Conrad Weiser Middle School
7N017	Stankiewicz, Deziree	Conrad Weiser Middle School
7N018	Miller, Caden	Conrad Weiser Middle School
7N019	Harbach, Elliott	Conrad Weiser Middle School
7N020	Strine, Kinsley	Conrad Weiser Middle School
7N021	Perkins, Juliet	Conrad Weiser Middle School
7N023	Kolson, Jocelyn	Saint Ignatius Loyola School
7N024	Giannotti, Miranda	Saint Ignatius Loyola School
7N026	Bradley, Paige	Saint Ignatius Loyola School
7N027	Reimels, Anna	Saint Ignatius Loyola School
7N028	Beetel, Madeynn	Saint Ignatius Loyola School
7N030	Zudie, Loveline	Saint Ignatius Loyola School
7N031	O'Donnell, Nora	Saint Ignatius Loyola School
7N032	Capretti, Montgomery	Conrad Weiser Middle School
7N035	Tarantino, Mia	Saint Ignatius Loyola School
7N036	Hine, Mackenzie	Immaculate Conception Academy
7N037	Crozier, Madysyn	Immaculate Conception Academy
7N038	Shuman, Teagan	Immaculate Conception Academy
7N039	North, Isabella	Immaculate Conception Academy
7N040	Gable, Will	LaSalle Academy
7N041	Kopp, Elijah	Holy Guardian Angels
7N042	Zavala-Salas, Elias	Holy Guardian Angels
7N043	Giron, Estelianie	Holy Guardian Angels
7N044	Hothi, Jasnoor	Wilson Southern Middle School
7N045	Slani Mcguire, Brody	Conrad Weiser Middle School
7N046	Baylor, Olivia	Muhlenberg Junior High School
7N048	Miller, Samuel	Saint Catharine of Siena School
7N049	Skalski, Fiona	LaSalle Academy
7N050	Brunner, Gemma	Sacred Heart School

7th Grade Physical Science

7P001	Mazurek, Steven	Conrad Weiser Middle School
7P002	Cohen, Anderson	Conrad Weiser Middle School
7P003	Morales, Lilly	Conrad Weiser Middle School
7P004	Metzger, Emma	Conrad Weiser Middle School
7P005	Morris, Camryn	Conrad Weiser Middle School
7P006	Unger, Baron	Conrad Weiser Middle School
7P007	Rogers, Teagan	LaSalle Academy
7P009	Kieffer, Emma	Saint Catharine of Siena School
7P010	Vu, Khoa	Saint Catharine of Siena School
7P011	Nadirov, Emilia	Conrad Weiser Middle School
7P012	Ciemiewicz, Connor	Conrad Weiser Middle School
7P013	Purfield III, Joey	Saint Ignatius Loyola School
7P019	Napoli, Izzy	Saint Ignatius Loyola School
7P020	Strock, Ben	Saint Ignatius Loyola School
7P025	Leininger, Matthew	Immaculate Conception Academy
7P026	Manidis, Quinn	LaSalle Academy
7P027	Sauer, Michael	Holy Guardian Angels
7P028	Kimma, Brady	Holy Guardian Angels
7P029	Rundle, Marcus	Holy Guardian Angels
7P030	Taimanglo, Evan	Holy Guardian Angels
7P031	Romeo, Anthony	LaSalle Academy
7P033	Dobson IV, Thomas	LaSalle Academy
7P034	Wyland, Bronson	Muhlenberg Junior High School
7P035	Hobbs, Liam	Muhlenberg Junior High School
7P036	Padilla Peralta, Rafelina	Muhlenberg Junior High School
7P038	Bowman, Kellen	Saint Catharine of Siena School

8th Grade Natural Science

8N001	Miller, Piper	Conrad Weiser Middle School
8N002	Bruno, Kayleigha	Conrad Weiser Middle School
8N003	Rhyder, Haylee	Conrad Weiser Middle School
8N004	Rice, Iliana	Conrad Weiser Middle School
8N005	Himmelberger, Evan	Conrad Weiser Middle School
8N006	Rodriguez, Emma	LaSalle Academy
8N007	Meredith, Liam	Conrad Weiser Middle School
8N008	Flores, Aydyn	Conrad Weiser Middle School
8N009	Schott, Liam	Conrad Weiser Middle School
8N010	Joseph, Elica	Conrad Weiser Middle School
8N011	Reyes Lebron, Alanis	Conrad Weiser Middle School
8N012	Polak, Ewelina	Conrad Weiser Middle School
8N013	Lefler, Bryant	Conrad Weiser Middle School
8N014	Shesniak, Emmalie	Conrad Weiser Middle School
8N015	Summers, Morgan	Conrad Weiser Middle School
8N016	Krick, Alexis	Conrad Weiser Middle School
8N017	Perate, Dominic	Saint Ignatius Loyola School
8N018	Cartin, Penelope	LaSalle Academy
8N019	Zhingre-Kelly, Suannabelle	LaSalle Academy

8N020	Deininger, Morgan	Wilson Southern Middle School
8N021	Barreto, Gianna	Wilson Southern Middle School
8N022	Lin, Selina	Saint Catharine of Siena School
8N023	Walton, Alice	Saint Catharine of Siena School
8N024	Wisniewski, Sara	Saint Catharine of Siena School
8N025	Mckeone, Jack	Saint Catharine of Siena School
8N026	Rathman, Dylan	Conrad Weiser Middle School
8N027	D'Angelo, Joseph	Saint Catharine of Siena School
8N028	Strine, Kellen	Conrad Weiser Middle School
8N029	Masi, Peyton	Conrad Weiser Middle School
8N030	Keller, Derek	Conrad Weiser Middle School
8N031	Bartolo, Mason	Conrad Weiser Middle School
8N032	Stern, Gianna	Conrad Weiser Middle School
8N033	Oyewole, Bukunmi	Wilson Southern Middle School
8N034	Lall, David	Conrad Weiser Middle School
8N035	Fessler, Macey	Conrad Weiser Middle School
8N036	Tennis-Speller, Arabela	Wilson Southern Middle School
8N037	Grejdus, Chase	Saint Ignatius Loyola School
8N038	Gross, Sabrina	Saint Ignatius Loyola School
8N039	Stringer, Sullivan	Saint Ignatius Loyola School
8N040	Lanza, Joseph	Saint Ignatius Loyola School
8N041	Roberts, Franki	Saint Ignatius Loyola School
8N042	Scarbinsky, Isabella	Immaculate Conception Academy
8N043	Clemente, Gabriella	Immaculate Conception Academy
8N044	Esterly, Lilly	LaSalle Academy
8N045	Flynn, Dina	Holy Guardian Angels
8N046	Kazimierowicz, Maximilian	Holy Guardian Angels
8N047	Keller, Avery	Holy Guardian Angels
8N048	Rubert, Elaine	Holy Guardian Angels
8N049	Coley, Alexandra	Holy Guardian Angels
8N050	Achenbach, Leah	Holy Guardian Angels
8N051	Schmeck, Mikaela	Holy Guardian Angels
8N052	Cobos, Yamilee	Holy Guardian Angels
8N053	Hoke, Madison	LaSalle Academy
8N054	McNear, Madi	LaSalle Academy
8N055	Bangura, Aliyah	Muhlenberg Junior High School
8N056	Zabala, Alina	LaSalle Academy
8N057	Alston, Alexis	Muhlenberg Junior High School
8N058	Djevharian, Laura	Muhlenberg Junior High School
8N059	Alston, Aaliyah	Muhlenberg Junior High School
8N060	Mendoza, Sierra	Muhlenberg Junior High School
8N061	Stettler, Ella	Muhlenberg Junior High School
8N062	Casimir, Jaden	Saint Ignatius Loyola School
8N063	Machuzick, Estelle	Wilson West Middle School
8N064	Hausman, Evan	Muhlenberg Junior High School
8N065	Karwejna, Sarah	LaSalle Academy

8th Grade Physical Science

8P001	Dawson, Liam	Conrad Weiser Middle School
8P002	Kennedy, Michael	Conrad Weiser Middle School
8P003	Bender, Colin	Conrad Weiser Middle School
8P004	Baker, Jackson	Conrad Weiser Middle School
8P005	Kofsky, Ava	Conrad Weiser Middle School
8P006	Draper, Kohen	LaSalle Academy
8P007	Reinard, Juliana	LaSalle Academy
8P008	Nakonecznyj, Nathan	Conrad Weiser Middle School
8P009	Owsiany, Sophi	Conrad Weiser Middle School
8P010	Miller, Tyce	Conrad Weiser Middle School
8P011	Stoy, Kellen	Conrad Weiser Middle School
8P012	Misiti, Chiara	Conrad Weiser Middle School
8P013	Brant, Gwyneth	Conrad Weiser Middle School
8P014	Sanchez-Nieves, Onixiram	Wilson Southern Middle School
8P015	Freed, Ava	Saint Ignatius Loyola School
8P016	Hauser, Anthony	Sacred Heart School
8P017	Motley, Goldie	Saint Ignatius Loyola School
8P019	Morrissey, Tessa	LaSalle Academy
8P020	Pettit, Nataliyah	Wilson Southern Middle School
8P021	Salamov, Jacob	Wilson Southern Middle School
8P022	Graber, Conner	Wilson Southern Middle School
8P023	Murray, Lillian	Wilson Southern Middle School
8P024	Wentz, Brooke	Wilson Southern Middle School
8P025	Mensah, Gabrielle	Wilson Southern Middle School
8P026	Tanaka, Kirra	Saint Catharine of Siena School
8P027	Oswald, Vaughn	Saint Catharine of Siena School
8P028	Miller, Ian	Conrad Weiser Middle School
8P029	McCoy, Noah	Conrad Weiser Middle School
8P031	Strine, Carter	Conrad Weiser Middle School
8P032	Troutman, Kyra	Conrad Weiser Middle School
8P033	Marburger, Abby	Conrad Weiser Middle School
8P034	Kramlich, Kolby	Conrad Weiser Middle School
8P035	Roberts, Elliott	Wilson Southern Middle School
8P037	Yost, Brielle	The King's Academy
8P038	Reyes, Raymond	The King's Academy
8P039	Heath, Loraina	The King's Academy
8P040	Glaze, Ashton	Wilson Southern Middle School
8P041	Minnich, Jessica	Wilson Southern Middle School
8P042	Bravo Rivera, Falcicy	Wilson Southern Middle School
8P043	Magcamit, Rob	Wilson Southern Middle School
8P044	Sims, Zhaneah	Wilson Southern Middle School
8P045	Lanza, Joshua	Saint Ignatius Loyola School
8P046	Luck, Gabriella	Immaculate Conception Academy
8P047	Carver, Ethan	Immaculate Conception Academy
8P048	Pike, MaryKate	Immaculate Conception Academy
8P049	Schearer, Alison	Holy Guardian Angels

8P050	Najarian, Parker	Holy Guardian Angels
8P051	Glessner, Madelyn	Holy Guardian Angels
8P052	Zellers, Alexandra	Holy Guardian Angels
8P053	Sullivan, Shayla	Holy Guardian Angels
8P054	Munoz, Kimberly	Holy Guardian Angels
8P055	Thompson, Giavanna	Holy Guardian Angels
8P056	Nguyen, Jason	Holy Guardian Angels
8P057	Langumas, Jasper	Saint Ignatius Loyola School
8P058	Mills, Keira	Saint Ignatius Loyola School
8P059	Gibbons, Emily	LaSalle Academy
8P060	Maftai, Lukas	Muhlenberg Junior High School
8P061	Faust, Layla	Muhlenberg Junior High School
8P063	Holland, Leah	Muhlenberg Junior High School
8P064	Flowers, Melyah	Muhlenberg Junior High School
8P065	Heckler, Autumn	Muhlenberg Junior High School
8P066	Castaneda Reyes, Kira	Muhlenberg Junior High School
8P067	Yoder, Austin	Muhlenberg Junior High School
8P068	Loper, Gabriella	Saint Ignatius Loyola School
8P069	Padilla - Peralta, Gabriela	Muhlenberg Junior High School
8P071	Kohl, Ian	Muhlenberg Junior High School
8P072	Skipper, Brayden	Conrad Weiser Middle School
8P073	Newswanger, Delaney	Saint Ignatius Loyola School
8P074	Pinnell, Hannah	Conrad Weiser Middle School
8P075	Pinnell, Abigail	Conrad Weiser Middle School

Senior Division

Number	Student Name	School
<u>9th-12th Grades Botany</u>		
BO001	Paino, Abbie	The King's Academy
BO002	Mortland, Cambria	Conrad Weiser High School
BO003	Nutter, Cami	Conrad Weiser High School
BO004	Rutcosky, Kelby	Governor Mifflin High School
<u>9th-12th Grades Behavioral and Social Sciences</u>		
BS001	De Los Santos, Ashley	Muhlenberg High School
BS002	Chopra, Sanaya	Muhlenberg High School
BS003	Didenko, Dana	The King's Academy
BS004	Yudiski, Edmund	Conrad Weiser High School
BS005	Quezada, Jayden	Muhlenberg High School
BS006	Drenning, Harmony	Governor Mifflin High School
BS007	Overley, Jaxon	Governor Mifflin High School
BS008	Diaz, Isaiah	Governor Mifflin High School
<u>9th-12th Grades Chemistry</u>		
CH001	Rice, Sawyer	Conrad Weiser High School
CH002	Wu, Selina	Wilson High School
CH003	Wagner, Quinn	Muhlenberg High School
CH005	Ferenchick, William	Wilson High School
CH006	Sonon, Erin	Fleetwood High School
CH007	Eckert, Tyler	Muhlenberg High School
CH008	Mershon, Zaden	Governor Mifflin High School
CH009	Brady, Blake	Muhlenberg High School
<u>9th-12th Grades Earth and Environment</u>		
EE001	Evans, Samson	Muhlenberg High School
EE002	Neider, Scarlet	Conrad Weiser High School
EE003	Miller, Finnegan	Conrad Weiser High School
EE004	Xie, Julia	Wilson High School
EE005	Rice, Rowan	Conrad Weiser High School
EE006	Dieter, Morgan	Muhlenberg High School
EE007	Bausher, Lou	Governor Mifflin High School
EE008	Vy, Lily	Muhlenberg High School
<u>9th-12th Grades Engineering</u>		
EN001	Markwood, David	Muhlenberg High School
EN002	Aman, Tyler	Wilson High School
EN003	Carbajal, Leonardo	Muhlenberg High School
EN004	Dominguez, Jessica	Muhlenberg High School
EN005	Djevharian, Noah	Muhlenberg High School
EN006	Davis, Salem	Muhlenberg High School

9th-12th Grades Mathematics and Computers

MC002 Rosario, Ariel Muhlenberg High School

9th-12th Grades Medicine and Health

MH001 Horack, Allie Conrad Weiser High School
MH002 Lally, Savannah Governor Mifflin High School
MH003 Sinha, Anika Wilson High School
MH004 Robinson, Brady Conrad Weiser High School

9th-12th Grades Physics and Astronomy

PA002 McCaffrey, Abby The King's Academy

9th-12th Grades Zoology

ZO002 Zifra, Mia Governor Mifflin High School

SUMMARY OF ENTRIES BY CATEGORY

6N	20
6P	21
7N	44
7P	26
8N	65
8P	70
BO	4
BS	8
CH	9
EE	8
EN	6
MC	1
MH	4
PA	1
ZO	1
Total Entries	287

RBSEF PAST AWARD WINNERS

- 1953
1 - Virgil Ponzoli - Central Catholic - Earth-Space
2 - Joseph Drylewski - Central Catholic - Zoology
3 - Harvey Plowfield, Jr. - Wyomissing - Physics
- 1954
1 - Malcolm Eidle - Kutztown
- 1955
1 - David L. Klemmer - Reading High - Zoology
- 1956
1 - John Braun - Central Catholic - Chemistry
- 1957
1 - Raymond Bowman - Reading High - Physics
- 1958
1 - Kerry Weinhold - Reading High - Physics
2 - Priscilla Hendricks - Governor Mifflin
3 - Dolores A. Napiecek - Central
- 1959
1 - George F. Post - Central - Zoology
2 - Catharine Gallagher - Mt. St. Michaels
3 - Marguerite Costigan - Kutztown
- 1960
1 - George F. Post - Central Catholic
2 - Paula Buskey - Central Catholic
3 - Barry W. Ache - Reading High - Botany
- 1961
1 - Kermit F. Crossland - Central Catholic - Chemistry
2 - Jacob Snyder - Oley Valley - Zoology
3 - Dale Stoltzfus - C.E. Cole
- 1962
1 - Bruce D. Pomeroy - Central Catholic - Physics
2 - James Berger - Exeter - Zoology
3 - Kathleen Bryniaski - Central Catholic
- 1963
1 - Barbara M. Descoteaux - Mt. St. Michaels - Bio Chemistry
2 - John Stofko - Central Catholic - Physics
3 - Janine Phillips - Schuylkill Valley - Physical Science
- 1964
1 - Ronald Polinski - Central Catholic - Applied Science
2 - Suzanne Garszcynski - Central Catholic - Chemistry
3 - Janine Phillips - Schuylkill Valley - Physical Science
- 1965
1 - Ronald J. Polinski - Central Catholic - Grand Champ Boy - Zoology
1 - Cheryl L. Leddy - Central Catholic - Grand Champ Girl - Chemistry
2 - Daniel M. Webber, Jr. - Central Catholic - Physics
2 - Nancy Noone - Central Catholic - Applied Science
- 1966
1 - James Simpson - Central Catholic - Zoology
1 - Antoinette Tyrrell - Central Catholic - Physics
2 - Daniel Weber - Central Catholic - Physics
2 - Suzanne Radka - Central Catholic - Applied Science
- 1967
1 - Bradley Auge - Governor Mifflin - Zoology
1 - Suzanne Radka - Central Catholic - Applied Science
2 - David L. Wagner - Holy Name - Physics
2 - Kathleen Rose - Central Catholic - Physics

- 1968
 1 - Bradley Auge - Governor Mifflin - Med./Health
 2 - Randall Heffelfinger - Oley - Chemistry
 3 - Maryann Zanis - Holy Name - Zoology
- 1969
 1 - Richard Harris - Central Catholic - Med/Health
 2 - Maryann Zanis - Holy Name - Zoology
 3 - Steven Peter - Boyertown - Earth-Space
- 1970
 1 - Leonard Smolinski - Central Catholic - Physics
 2 - Patricia Culp - Holy Name - Zoology
 3 - Richard Harris - Central Catholic - Med/Health
- 1971
 1 - R. Richard Harris - Central Catholic - Med./Health
 2 - Jeffrey Green - Reading High - Chemistry
 3 - Robert Skrocki - Central Catholic - Earth-Space
- 1972
 1 - Maria Porcaro - Central Catholic - Med/Health
 2 - David Embree - Muhlenberg - Physics
 3 - Anton Kapp - Holy Name - Botany
- 1973
 1 - Anton Kapp - Holy Name - Botany
 2 - Thomas P. Hafer - Central Catholic - Med/Health
 3 - Dennis Lorah - Boyertown - Chemistry
- 1974
 1 - Paul Embree - Muhlenberg - Physics
 2 - Dennis P. Lorah - Boyertown - Chemistry
 3 - Richard H. Ebright - Muhlenberg - Zoology
- 1975
 1 - Richard Ebright - Muhlenberg - Zoology
 2 - Paul Embree - Muhlenberg - Physics
 3 - Thomas Smithgall - Holy Name - Med/Health
- 1976
 1 - Richard A. Ebright - Muhlenberg - Zoology
 2 - Paul M. Embree - Muhlenberg - Physics
- 1977
 1 - Richard H. Ebright - Muhlenberg - Zoology
 2 - Paul Embree - Muhlenberg - Physics
 3 - Brad S. Rachman - Muhlenberg - Botany
- 1978
 1 - James K. McCarthy - Muhlenberg - Earth-Space
 2 - David J. Eshelman - Exeter - Med/Health
 3 - Raffaella Torchia - Holy Name - Botany
- 1979
 1 - Kirk Mathews - Central Catholic - Physics
 2 - David Eschelman - Exeter - Chemistry
 3 - Gregory Henry - Reading High - Zoology
- 1980
 1 - James Linton - Reading High - Botany
 2 - Kirk Mathews - Central Catholic - Physics
 3 - Michael Swank - Reading High - Zoology
- 1981
 1 - Andrew Fraley - Wilson - Math & Computers
 2 - Helen Rozzi - Central Catholic - Chemistry
 3 - Michael Swenk - Reading High - Botany
- 1982
 1 - Christopher L. Fraley - Wilson - Math & Computers
 2 - Stephen L. Rozzi - Central Catholic - Physics
 3 - Timothy R. Valentino - Reading High - Chemistry

- 1983
 1 - Christopher Fraley - Wilson - Math & Computers
 2 - Christopher Russo - Central Catholic - Physics
 3 - Jennifer Emkey - Holy Name - Med./Health
- 1984
 1 - Jennifer Emkey - Holy Name - Med/Health
 2 - Christopher Fraley - Wilson - Math & Computers
 3 - Michele Swope - Holy Name - Botany
- 1985
 1 - Michele Swope - Holy Name - Botany
 2 - Christopher Fraley - Wilson - Math & Computers
 3 - Heather Shimp - Holy Name - Earth-Space
- 1986
 1 - David Haile - Holy Name - Zoology
 2 - Steven Litvin - Wilson - Math & Computers
 3 - Michele Swope - Holy Name - Physics
- 1987
 1 - Steven Litvin - Wilson - Physics
 2 - David Haile - Holy Name - Zoology
 3 - Melissa Wall - Muhlenberg - Chemistry
- 1988
 1 - Steven Litvin - Wilson - Physics
 2 - Sharon Pilarski - Holy Name - Med/Health
 3 - Anne Wert - Daniel Boone - Earth-Space
- 1989
 1 - Sharon Pilarski - Holy Name - Med./Health
 2 - Michael Thompson - Central Catholic - Zoology
 3 - Daniel Cherrie - Oley - Physics
- 1990
 1 - Lawrence Moore - Governor Mifflin - Zoology
 2 - Stephen Kelley - Governor Mifflin - Physics
 3 - Theresa Helms - Holy Name - Med/Health
- 1991
 1 - George Gumbrell - Boyertown - Physics
 2 - Lawrence Moore - Governor Mifflin - Zoology
 3 - Peter A. Daley - Wilson - Physics
- 1992
 1 - Michael Rhoades - Oley
 2 - Peter Daley - Wilson
 3 - Stephen Kelley - Governor Mifflin
- 1993
 1 - Michael Rhoads - Oley
 2 - Peter Daley - Wilson
 3 - Gregory Emkey - Holy Name
- 1994
 1 - Gregory Emkey - Holy Name
 2 - Derek Robinson - Wilson
 3 - Nicholas Warischalk - Reading Central Catholic
- 1995
 1 - Gerry Lee - Wilson
 2 - Joshua Himmelberger - Hamburg
 3 - Stephen Emkey - Holy Name
- 1996
 1 - Joshua Himmelberger - Hamburg
 2 - Stephen Emkey - Holy Name
 3 - Michael Nieman - Oley Valley
- 1997
 1 - Brett DePoister - Reading Central Catholic
 2 - Joshua Himmelberger - Hamburg
 3 - Stephen Emkey - Holy Name

1998 1 - Brett DePoister - Reading Central Catholic
 2 - Jesse Belanger - Oley Valley
 3 - Kristina Sanford - Wilson

1999 1 - Jeff Payne - Wilson
 2 - Kyle Usbeck - Wilson
 3 - Stacey Blanck - Exeter

2000 1 - Kyle Usbeck - Wilson
 2 - Jeff Payne - Wilson
 3 - Dan Vroman - Exeter

2001 1 - Katie Sanford - Wilson
 2 - Kyle Usbeck - Wilson
 3 - Bradford James Brizek - Conrad Weiser

2002 1 - Jeffrey Pawlikowski - Conrad Weiser
 2 - Katie Sanford - Wilson
 3 - Nickolas Timpe - Home School

2003 1 - Denise Gardner - Conrad Weiser
 2 - Kathryn Sanford - Wilson
 3 - Nickolas Timpe - Home School

2004 1 - Thomas Trudel - Muhlenberg
 2 - Kathryn Sanford - Wilson
 3 - Peter Littlefield - Oley Valley

2005 1 - Hilary Peterson - Conrad Weiser
 2 - Thomas Trudel - Muhlenberg
 3 - Matthew Gardner - Conrad Weiser

2006 1 - Kimberly Larrabee - Reading
 2 - Alex Youst - Conrad Weiser
 3 - Jon Rittle - Conrad Weiser

2007 1 - Alex Quaintance - Muhlenberg
 2 - Christopher Zimmerman - Muhlenberg
 3 - Nicholas Showalter - Conrad Weiser

2008 1 – Christopher Zimmerman – Muhlenberg
 2 – Rachel Bigos – Holy Name
 3 – Ryan Moraski – Conrad Weiser

2009 1 – Seth Fisher – The King's Academy
 2 – Vincent Zampelli – Conrad Weiser
 3 – John Keller – The King's Academy

2010 1 – John Keller – The King's Academy
 2 – Gregory Scanlon – Holy Name HS
 3 – Miranda Haslam – The King's Academy

2011 1 – Matthew Weidner – Brandywine HS
 2 – Miranda Haslam – The King's Academy
 3 – Aubrie Potteiger – Muhlenberg Middle

2012 1 – Matthew Weidner – Brandywine HS
 2 – Andrew Przyjemski – Governor Mifflin HS

	3 – Grant Bayer – Tulpehocken HS
2013	1 – StepHanie Keller – Conrad Weiser HS 2 – Megan Campbell – Conrad Weiser HS 3 – Catharine Scoboria – Berks Catholic HS
2014	1 – Andrew Przyjemski – Governor Mifflin HS 2 - Matthew Weidner – Brandywine HS 3 - Catharine Scoboria – Berks Catholic HS
2015	1 - Andrew Przyjemski – Governor Mifflin HS 2 – Marlin Thomas – Governor Mifflin HS 3 – Kayla Petersen - The King’s Academy
2016	1 - Alexa Schneck – Conrad Weiser HS 2 - Joseph Gresoi – Conrad Weiser HS 3 – Boatram Nguyen – Berks Catholic HS
2017	1 – Lacie Pichler – Conrad Weiser HS 2 – Baotram Nguyen – Berks Catholic HS 3 – Rosalie Brunner - Conrad Weiser HS
2018	1 – Rini Kaneria - Conrad Weiser HS 2 – Nikita Patel - Conrad Weiser HS 3 – Madison Bright - Conrad Weiser HS
2019	1 – Joseph Walker – Berks Catholic HS 2 – Abigail Atkins – Berks Catholic HS 3 – Ellie Chibirka - Conrad Weiser HS
2020	1 – Krishna Nayek – Wilson HS 2 – Selia Werth – Conrad Weiser HS 3 – Holden Rice - Conrad Weiser HS
2021	1 – Holden Rice – Conrad Weiser HS 2 – Erin Horack – Conrad Weiser HS 3 – Brady Moyer - Conrad Weiser HS
2022	1 – SriGouri Oruganty – Muhlenberg HS 2 – Lindsey Preston – Conrad Weiser HS 3 – Holden Rice – Conrad Weiser HS
2023	1 – Paige Hinkle – Wilson HS 2 – Kamella Gechter – Conrad Weiser HS 3 – Matthew Ferez – Daniel Boone HS

2024

- 1 – Sindura Sridhar – Wilson HS
- 2 – Paige Hinkle – Wilson HS
- 3 – Tyler Ferez – Daniel Boone HS

Reading-Berks
SCIENCE 
 **ENGINEERING**

Fair