

SCHEDULE OF EVENTS

Tuesday, March 17, 2015

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

Wednesday, March 18, 2015

9:00 AM 4:00 PM TEACHERCONDUCTED TOURS FOR SCHOOLS

6:00 PM 7:00 PM FAIR OPEN TO PUBLIC

7:30 PM AWARDS PROGRAM

Introductory Remarks

Robert Novak, President, RBSEF, Inc.

Andrea Chapdelaine, Ph.D.,
Provost and Vice President for Academic Affairs
Albright College

Russell Reber
Vice President of Quality, Technical and Customer Service
Carpenter Technology Corp

Presentation of Awards

Michael P. Gerhart, Fair Director

Thursday, March 19, 2015

9:00 AM 4:00 PM TEACHERCONDUCTED TOURS FOR SCHOOLS

4:00 PM - 8:00 PM REMOVE PROJECTS

ALL EXHIBITS MUST BE REMOVED BY 8:00 PM

Note: Albright has another activity in the gym on Friday and any unclaimed projects will be moved to the dumpster.

FINANCIAL CONTRIBUTORS 2015

\$5,000 Contributor – Principal Sponsor
Carpenter Technology Corporation

\$1,000 Contributors - Division Sponsors

American Geotech Inc.
Schatz Electric, Inc
University of the Sciences

\$500 Contributors-Division Co-Sponsors

Bob and Joanne Novak

Any corporation or individual wishing to join in supporting the Reading-Berks Science and Engineering Fair may send a contribution to RBSEF, Inc. in care of Robert Novak, Carpenter Technology Corporation, PO Box 14662, Bldg 54, Reading, PA 19612-4662. 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.

Special thanks to Carpenter Technology for continuing to provide major financial support of the science fair.

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 eight classifications will receive badges and ribbons. First through fourth place winners will receive medals. The Grand Champion, the Champion and the Reserve Champion will each receive a plaque and a rosette. The Grand Champion and the Champion will be eligible to participate in the INTEL International Science and Engineering Fair to be held in Pittsburgh, Pennsylvania, May 10-15, 2015.

The Grand Champion, Champion and the Reserve Champion will be selected from the top projects in the Senior Division. The Assistant Fair Directors will determine the winners.

Junior Division 6th through 8th grades. Honorable mentions will be awarded badges and ribbons. First through fifth place winners will receive medals. Junior Division students in 1st to 5th place will receive Broadcom Masters awards and invitations to compete in the 2015 Broadcom Masters national competition.

All exhibitors whose entries were accepted by the registration deadline will receive certificates for their participation in the Reading-Berks Science and Engineering Fair.

SPECIAL AWARDS

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

Alliance to the Berks County Dental Society

For exhibits that are outstanding and relevant to dental awareness. Awards not to exceed \$150 total in the Junior and Senior Divisions.

Altrusa Club of Reading

A \$50 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

A \$100 award in the Senior Division, and a \$50 award in the Junior Division, to high ranking girls.

American Geotech, Inc.

A \$100 award to the winner of the Engineering Division. The Award will be presented after the Senior Division category Awards are presented.

American Meteorological Society

Certificates of outstanding achievement for two exhibits in the field of meteorology.

American Psychological Association

A certificate for outstanding research in psychology.

American Society of Civil Engineers

Two \$100 awards in the Senior Division for outstanding projects in Civil, Structural, Environmental, or Geothermal Engineering, or related sciences.

ASM International - Lehigh Valley Chapter

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

ASM Materials Education Foundation

A certificate and medallion for the best materials engineering project.

Assistive Technology Committee

A gift card for \$50 for the best Junior or Senior Division project related to a disability.

Association for Women Geoscientists

An award certificate is presented to a female student whose project exemplifies the high standards of innovativeness and scientific excellence in the geosciences.

Atlantic Energy Concepts

Awards of \$50 to Junior and Senior projects which best demonstrate exceptional commitment to reducing the use of natural resources by business through conservation and the use of energy efficient technology.

Berks Photographic Society

A \$75 award in the Senior Division and a \$75 award in the Junior Division for the best use of photography in a project.

Berks County Amateur Astronomy Society

An award of \$25 in the Junior Division for an outstanding astronomy related project.

Berks County Conservation District

A \$250 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".

Berks County Dental Society

Awards of \$100, 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 County Pharmacists Association

Four \$50 awards for outstanding exhibits in the field of pharmaceutical science, two each in the Junior or Senior Divisions.

Berks Western Telecom, Inc.

Awards of \$50 in the Senior and Junior Divisions for projects which display the best form of communication.

Brentwood Industries

Up to three awards of \$100 in each of the Junior and Senior Divisions for outstanding projects in the field of water or plastics.

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.

Code Relief LLC

Two \$25 awards in the Junior Division for the most creative display board presentation or model.

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.

Entech Engineering

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.

First Group Health Care, Ltd.

Awards up to \$500 for outstanding exhibits in the field of medicine, Junior or Senior Division.

Frank D. Herron Award

In memory of the long-time director of the Reading-Berks Science and Engineering Fair, two awards of \$50 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.

Genius Olympiad (Oswego State University of New York)

Two awards to students in grades 8-12 who identify a problem and a solution in either: 1. ecology and biodiversity, 2. environmental quality, 3. resources and energy, 4. human ecology. These students advance to the international competition at SUNY Oswego.

Intel Corporation

Award certificate and \$200 to the most outstanding computer science project in the Math & Computers Division.

I-SWEEP (International Sustainable World Energy, Engineering, & Environmental

Project Olympiad)

Awarded to the Senior division project which best displays environmental sustainability and innovation. The winner is invited to compete in the World I-SWEEP in Houston, TX in May.

Lehigh Valley Chapter of the American Chemical Society

A100 award to the winner of the Chemistry Division. The award will be presented after the Senioe Division category awards are presented.

Met Ed

A certificate and award to one Junior and one Senior Division student with the best energy related project.

Microsemi Corporation

One award of \$1,000 for the best Senior Division use of engineering. A second award of \$1,000 for best use of communications or medical technology in the Senior Division. A third award of \$500 to the 8th Grade Champion.

Mu Alpha Theta

A certificate for the best investigation of a problem involving high school mathematics.

National Oceanic and Atmospheric Administration (NOAA)

A medallion and a certificate for research to understand and predict changes in earth's environment and conserve coastal and marine resources.

Office of Naval Research

Achievement certificates and \$50 gift certificates to students with outstanding exhibits in the Senior Division, and certificates to selected students in the Junior Division.

Optical Society of America

A \$50 award for the project which makes the best use of optics.

Penn State Berks. Engineering and Technology Programs

Awards for outstanding projects involving the building of a device. The awards will be gift certificates of \$50 in the Senior Division and two of \$25 in the Junior Division. Another \$50 gift certificate awarded to the best Senior Division Project related to Mechanical Engineering.

Penn State Berks. Science Division

Three awards of \$100 for the best projects in agricultural science, biological science and physical science. One award of \$50 for outstanding use of data and statistics.

Penn State Berks. Summer Camps

One commuter scholarship to each of the following summer camps for related projects:

Senior Division (grades 9 to 12): Discovering Forensic Science Camp, Discovering Engineering Camp, and Discovering Computers and Cyber Security Camp.

Junior Division (grades 6 to 8): You Be the Chemist Camp, Junior Nittany Crime Investigative Service Camp, Science and Technology Camp, and Youth Architect – Building Blocks of Design Camp.

Pennsylvania BioGENEius Challenge

Awards to three or more Senior Division students for research in biotechnology – using knowledge of biological systems to advance the production of goods and services. These students advance to a statewide BioGENEius competition.

Reading Alloys, part of AMETEK

Awards of \$200, \$100 and \$50 for projects displaying understanding and knowledge of metallurgy, materials and physical sciences.

Reading Area Community College

Two \$25 awards will be given at each grade level in the Junior Division. Prizes will be provided by the Nanoscience Technology Program.

Reading Area Community College

One freshman (100 level) course scholarship (3 or 4 credits) for a meritorious project in the Senior Division. The scholarship is provided by the Foundation for RACC.

Reading Chapter, Pennsylvania Society of Professional Engineers

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.

Reading Hospital

Awards of \$125 each to a Senior Division project and a Junior Division project that best demonstrates Advancing Health, Transforming Lives.

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.

Senator Judy Schwank Award

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

Tier Environmental Services

Two \$100 awards to science fair competitors who best show interest in environmental stewardship and sustainability.

United States Air Force

Awards to Senior and Junior Division students for best exhibits in mathematics, science and engineering.

United States Metric Association

A certificate to the student whose project involves a significant amount of quantitative measurement and which best uses the SI metric system for these measurements.

United States Public Health Service

A certificate from the Surgeon General for the student with the best project promoting healthy living.

Water Environment Federation

Three certificates for the best projects related to water quality and water resource management.

Albright College

Albright College is pleased to offer \$3,000 peryear renewable scholarships to the Champion, Grand Champion and Reserve Champion in the ReadingBerks Science and Engineering Fair.

These scholarships are offered to these persons if they decide to enroll at Albright College as incoming freshmen students and if they meet the following conditions:

1. The student is accepted for admission to Albright College under the college's regular admissions policies and procedures.
2. The student applies for financial aid according to the college's policies and procedures.
3. The student is determined to have financial need.
4. Renewal of the scholarship will be made each year for Albright attendance if the student meets all academic qualifications and if the student applies for financial aid according to the college's renewal procedures and again is determined to have financial need.

All persons eligible for these scholarships should contact Albright College for details about applying for admission and financial aid. We look forward to working with you to make an Albright education possible.

Special Thank You to Albright College

Albright College has been home to the Reading-Berks Science and Engineering fair for most, if not all, of our 63 year history. For one week in March, Albright provides the facilities at the Bollman Center and allows us to transform the building from a sports center to a science center. Albright College has been our strongest supporter and we owe the college many thanks.

Thank you, Albright College, Staff and Students.

Bob Novak
President – RBSEF, Inc.

2015 SPECIAL AWARDS' JUDGES

Alliance to Berks County Dental Society
Barbara Ciabattoni
Debbie Auchter

Berks County Conservation District
Kevin Witmier
Jeff Overstreet

American Association of University Women
Marganeto Fuoco

Berks County Dental Society
Barbara Ciabattoni
Debbie Auchter

ASM International, Lehigh Valley Chapter
Greg DelCorso
Tom Balliett

Berks County Medical Society
Dr. Eve Kimbal

Assistive Technology Committee
Dr. Henry Ansell

Brentwood Industries
Jim Perlow
Bill Miller

Berks County Amateur Astronomy Society
Barbara Geigle
Matt Flatt

First Group Health Care, Ltd
Dr. Fern McMillen

Frank D. Herron Award

Verna Herron

Kathy McCann Evans

Microsemi Corporation
George Terefenko

Reading Hospital
Dr. Charles Barbera

Office of Naval Research
LCDR Brian Sparks

Schatz Electric
Jeff Schatz

Optical Society of America
Bill Heffner

Senator Judy Schwank Award
David Sanford

Penn State Berks, Engineering and Technical
Programs
Terry Speicher
Rungan Nathan

RBSEF Special Award Judges:
Katie Amaral
Brian Buerke
Karl Hiester
Karl Peterson
Lisa Peterson
Andrew Romberger
Mark Smith

Penn State Berks Science Division
Penn State Berks Faculty

Reading Area Community College

CATEGORY EXHIBITS

SENIOR DIVISION

9th 12th Grades

CLASSIFICATION

CODE

| | |
|-----------------------|----|
| Botany | BO |
| Chemistry | CH |
| Earth/Space Sciences | ES |
| Engineering | EN |
| Mathematics/Computers | MC |
| Medicine/Health | MH |
| Physics | PH |
| Zoology | ZO |

JUNIOR DIVISION

6th 8th Grades

Natural Science
Physical Science

6N, 7N, 8N
6P, 7P, 8P

CATEGORY EXHIBITS LISTED BY SCHOOL

Antietam Middle-Senior High School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|---------------------|---|------------------|
| Chamberlain, Macy | What Brand and Type of Kids Vitamin Dissolves Fastest | 7N432 |
| Goodman, Owen | Which Toothpaste is the Most Effective | 7N438 |
| Kerchner, Katherine | Fruit Battery | 7P442 |
| Wentling, Nicholas | Microwave Heating vs. Stove Top Heating | 7P455 |

Berks Catholic High School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|---------------------|--|------------------|
| Andreyo, Luke | Does Rake Angle Affect Performance of an F1 Car? | PH077 |
| Apsokardu, Erin | Does Touch Communicate Emotion? | MH076 |
| Arquisola, Jacob | Signal Strength of Wi-Fi as Affected by Materials | MC096 |
| Avadanian, Marissa | Heat 'em up! | MH095 |
| Balistrere, Nicole | Do Leaf Veins Divide At The Same Angle? | BO051 |
| Banco, Mary | Will Multitasking Affect Efficiency? | MH097 |
| Buerke, Patrick | Can Opaque Hulls Be Made Transparent | PH073 |
| Carroll, Ryenne | How Do Artificial Sweeteners Affect Mealworms? | ZO055 |
| Cebulski, Emily | Does Surface Temperature Affect Fingerprint Clarity? | CH075 |
| Cole, Edward | Wild Birds' Responses to Different Colored Bird Feeders | ZO061 |
| Coralnick, Jacob | No Flex Zone | PH081 |
| DeMarco, Victoria | Eyewitness Testimony: Guilty or not Guilty | MH112 |
| Deviney, Patrick | Over Which Color Does the Bird Hover | ZO054 |
| Doran, Delaney | Glow with the Flow: The Bioluminescence of Algae | BO057 |
| English, Will | Future of Fuel | CH454 |
| Fares, Maya | Bacterial Resistance | MH049 |
| Ferrante, Ryan | Feeling Better Yet? | MH262 |
| Gaffney, Molly | Do Frequency and Pitch of a Resonating Glass Change? | PH065 |
| Golembiewski, | What Cleaning Method Is the Most Effective? | CH052 |
| Grieco, Meghan | Do Men and Women See Things Differently? | MH050 |
| Hawkins, Katie | Does Pre-Germination Increase the Rate of Plant Growth? | BO063 |
| Himmelberger, Shae | Does Kitchen Utensil Material Affect Bacterial Growth? | MH074 |
| Lavanga, Elizabeth | Can Gel Electrophoresis Be Used to Separate Dyes in Forensics? | CH071 |
| Metz, John | What Metals Efficiently Boost the Range of Wi-Fi Signals? | EN116 |
| Miller, Taylor | Color, Packaging... Does it Matter? | MH084 |
| Mitchell, Christina | A Study of Gender Stereotypes in Children. | MC088 |
| Nguyen, Baotram | Utilizing Choline Chloride and Urea as a Novel Ionic Liquid | CH060 |
| Schuetz, Justin | How Pollutants Filter Through Different Types of Soil | ES118 |
| Stewart, Timothy | Medieval Siege Machine | PH080 |
| Szymborski-Pratt, | Which Type of Karate Kick Executes the Most Force? | PH092 |
| Tarquino, Elizabeth | All About that Base | MH098 |
| Tokars, Benjamin | The Effects of Carbon Dioxide on Aquatic Plant Life | BO064 |

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| Torres, Soleil | Effects of Green Tea on Oral and Periodontal Health | MH093 |
| Vu, Courtney | Algae: Future's Fuel? | ES130 |
| Wittmeyer, Kaylin | Which Flipturn Is the Fastest? | PH099 |

Berks Christian School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|----------------|---|------------------|
| Quay, Sean | The Effect of Fertilizer on Bean Plant Growth | BO265 |
| Reid, Hunter | Screaming Gummy Bear | 8P006 |
| Wilson, Nicole | The Effect of Fertilizer on Bean Plant Growth | BO278 |

Conrad Weiser HS

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|-------------------|--|------------------|
| Aulenbach, Kayla | Discovering Evolution through the Brassicaceae Family | BO441 |
| Frasch, Madalyn | Bacteria Counts in Treated and Untreated Water Sources | MH354 |
| Getz, Madi | Analyzing the Effect of Road Salt on Creek Salinity | CH353 |
| Lagerman, Makayla | The Presence of Wolbachia in Drosophila Melanogaster | MH430 |
| Moore, Tyler | Analysis of Endotoxic Activity through the Cooking Process | MH114 |
| Paskowski, Elise | An Analysis of Ocean Acidification and Marine Organisms | ZO403 |

Governor Mifflin Intermediate School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|------------------|----------------------------------|------------------|
| Baldwin, Jack | Why Does Salt Melt Ice? | 6N079 |
| Hofmann, Mark | Building a Better Gauss Rifle | 6P110 |
| Reynolds, Amanda | Stress | 6N115 |
| Wert, Nathaniel | Household Item Rust Removal Test | 6P137 |

Governor Mifflin Middle School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|----------------|----------------------------------|------------------|
| Clipman, Noah | Last Bridge Standing | 7P181 |
| Knox, Hannah | Does eye color effect eye sight? | 8N174 |

Governor Mifflin Senior High School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|----------------------|---|------------------|
| Abellard, Rachael | Say What?! Musicians Hear Better? | MH299 |
| Adametz, Joseph | The Effect of Bat Material on Bat Performance | PH208 |
| Ahearn, Emma | The Effect of Fertilizer Application Rate on Plant Growth | BO221 |
| Angstadt, | The Effect of Texting on Finger Dexterity | MH223 |
| Arevalo, Isabella | The Effect of the Type of Water on Dissolved Oxygen Levels | BO364 |
| Attardi, Vanessa | The Effect of Vasoconstriction or Osmosis on Finger Wrinkling | MH339 |
| Bachman, Olivia | The Effect of Fertilizer on Plant Height | BO211 |
| Barto, Josh | Effect of Household Liquids pH Levels on Plant Growth | BO225 |
| Bennethum, Christian | Effect of Musical Stimuli on Memory Formation and Recall | MH453 |
| Bhokal, Ammit | The Effect of Color on Memory | MH337 |
| Blanchard, Austin | The Effect of Citrus Fruit Type on Vitamin C Content | CH239 |
| Blandford, Cameron | How Smoke Affects Plant Health | BO341 |
| Boggs, Brendan | The Effect of Polymer Permeability on Evaporation | CH212 |

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| Brower, Elias | The Effect of Water pH on Sunflower Growth Rate | BO237 |
| Brown, Jessica | The Effect of Music Genre On Test Performance | MH232 |
| Conner, Jonas | The Effect of Height & Weight on Balance Efficiency | MH187 |
| Crowley, Bryonna | The Effect of Soda Type on pH Level | CH234 |
| Curtis, Gwendolyn | The Effect of Oil on Dissolved Oxygen in Water | ES368 |
| Dauberman, Joshua | The effect of Coils on Battery Power | PH236 |
| Davis, Nicholas | Magnetism and its Effects on Electrons | PH365 |
| DeFeo, Sophia | The Effect of Specialized Stain Removers on Stains | CH231 |
| Del Vecchio, Justin | The Effect of Pitching Windups on the Speed of a Baseball | PH357 |
| Dennis, Claire | Chew on This | CH333 |
| Dreisbach, Alyssa | Ice Baby | CH387 |
| Ernst, Natalie | The Effect of Microwave Radiation on Plant Height | BO384 |
| Fink, Kellie | The Effect of Paper Color on Test Scores | MH240 |
| Frederick, Danny | The Effect of Bridge Design on Carrying Capacity | EN244 |
| Gagne, Gwendylan | The Effect of Occlusion on the Ability to Perform Physical Tasks | MH197 |
| Garman, Allison | Fruit vs. Gum; the Effect of Mint on Concentration | MH350 |
| Gelman, Jared | The Effect of Various Substances on the Melting Rate of Ice | CH202 |
| Goodman, Lewis | The Effect of Fertilizer on Tomato Plants | BO229 |

Governor Mifflin Senior High School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|-----------------------|---|------------------|
| Gruber, Jenna | The Effect of Developer on Different Colors of Hair | CH344 |
| Halligan, Jessica | The Effect of Household Cleaners on Stains | CH233 |
| Hartman, Kyra | The Effect of Everyday Liquids on Your Teeth | MH338 |
| Hausmann, Sierra-Rose | The Effect of High School Romantic Relationships on Grades | MH334 |
| Hawk, Sam | The Effect of Earthworms on Plant Growth in Different Stages | BO200 |
| Heffner, Hannah | The Effect of Music Genre on Test Performance | MH218 |
| Hepburn, Lauren | The Effect of Smell on Taste | MH329 |
| Hofmann, Thomas | Effect of Ammonium Chloride on Acid Chloride Electroplating Solution | CH220 |
| Horst, Elijah | The Effects of Various Liquids When Heated at Different Temperatures | PH330 |
| Jagadesan, Suhana | Adipose Inhibitors and the Ability of Acetyl CoA to Limit Cervical Cancer | MH404 |
| Johnson, Rachel | The Effect Of Acid On The Preservation of Food | MH383 |
| Kapoor, Ritik | Effect of the Amount of Water at Different Stages of Plant Growth | BO428 |
| Kerr, Sarah | The Effect Of Distractions On Reaction Time | MH206 |
| Kitsch, Will | The Urbanization of Poultry | ZO235 |
| Kostello, Kailee | The Effect of Hair Dye on Hair Strength | MH189 |
| Kraft, Evan | The Effect of Density on How High a Golf Ball Bounces | PH201 |
| Kugler, Sierra | The Effect of Cell Phones on Reaction Time | MH204 |
| Latshaw, Samantha | The Effect of Different Wavelengths on Plant Growth | BO199 |
| Leibowitz, Lauren | Effect of Right Brained or Left Brained on Memory and Logical Reasoning | MH388 |
| Leisey, Alexa | Effect of Natural vs. Artificial Light with Fertilizer on Plant Growth | BO195 |
| Lubic, Lauren | The Effect of Breakfast Consumption on Test Scores | MH209 |
| Lush, Jade | Effect of Sugars on Carbon Dioxide Production During Fermentation | CH193 |
| Mangan, Tim | Aerodynamics, Friction and Potential Energy Effects on Pinewood Derby | PH207 |
| Max, Simon | The Effect of Salts on the Deterioration of Concrete | CH196 |

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| Mcalvage , Felicia | Tie-dye master | CH363 |
| McBryan, Hayley | The Effect of Whitening Toothpaste on Teeth Enamel | MH227 |
| McCurley, Corinne | The Effect of Common Distractions on Memory | MH377 |
| McMahon, Logan | The Effect of Deep Breathing on Blood Pressure | MH205 |
| Mech, Trevor | Effect of Different Sugars on Drosophila Melanogaster | ZO385 |
| Miller, Anthony | The Effect Of Water Purity On Plant Growth | BO335 |
| Mitchell, Margaret | The Effect of Population Density on Plant Growth | BO210 |
| Mohn, Lydia | Backyard Birdfeeding | ZO386 |
| Molfetta, Lauren | The Effect of Temperature on the Activity of Invertase | MH294 |
| Musser, Seth | Effect of USB Chargers on the Time It Takes to Charge a Device | EN369 |
| Myers, Benjamin | The Effect of Air Pressure on the Distance a Soccer Ball Travels | PH379 |
| Naugle, Malia | The Effect of Sleep Time on Hands on Activities | MH194 |
| Nelson, Maxwell | The Effect of Dilatant Non-Newtonian Fluid on Bullet Penetration | PH362 |
| Nyce, Tim | The Effect of Antacids on Acid pH Neutralization | CH219 |
| Ohlinger, Grace | The Effect of Colored Light on Plant Growth | BO001 |
| Osborne, Katelyn | The Effect of Color on Memory | MH241 |
| Osgood, Schuyler | Natural vs. Synthetic Repellent Effect on Drosophila Melanogaster | ZO056 |
| Panase, Caitlyn | Blindfold Balance | MH296 |
| Payne, Hailey | The Effects of Different Feed Types on Moisture | CH361 |
| Perez, Alex | The Effect of Different Types of Music on Human Reflexes | MH228 |
| Phillippi, Aaron | The Effect of Dish Detergent on pH, Nitrogen, and Phosphorus Levels in Soil | ES191 |
| Poblete, Jose | Animal Input Reaction | ZO327 |
| Przyjemski, Andrew | Recirculating Air Purification Enclosure | EN053 |
| Ramsbottom, Hannah | The Effect of the Amount of Social Media Use on a Person's Loneliness | MH340 |
| Robledo- Valencia, | Activities on Cognitive Abilities | MH378 |
| Roman, Kayle | The Effects of Tupperware on Lettuce | ES380 |
| Rouleau, John | The Effect of Music Volume on Memorization | MH382 |
| Scheirer, Morgan | The Effect of Music on Memory | MH222 |

Governor Mifflin Senior High School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|-------------------|--|------------------|
| Schweitzer, Amber | The Effect of Calcium on Soil Levels on Plant Height | BO257 |
| Shaylor, Nicole | Foil and Plastic and Baggies...Oh, My! | MH336 |
| Sinclair, Jessica | A Pony's Favorite Treat | ZO298 |
| Smith, Callum | The Effects of Light Exposure on the Quality of Sleep | MH424 |
| Spang, Zoey | The Effect of Animal Feces on Plant Growth | BO224 |
| Stanislawczyk , | The Effects of Technology use on One's Ability to Multitask | MH370 |
| Strohl, Lindsey | The Effect of Food Color on Appeal/Appetite | MH343 |
| Sweigart, Molly | The Effect of Soil to Sand Ratio on the Growth of Radish Plants | BO389 |
| Tarakci, Jonathan | The Effect of Fertilizer on Plant Growth | BO328 |
| Taylor, Jessie | The Effect of Various Food Items on Energy Availability (Calories) | CH238 |
| Teson, Sara | The Effect of Different Genres of Music on Memory | MH226 |
| Thomas, Marlin | Effect of Intertidal Zonal Habitats on the Health of Crassostrea Virginica | ZO203 |
| Thompson, Anna | The Effect of Movie Scene Intensity on Human Response Time | MH230 |
| Underwood, Cailin | The Effect of Radiation on Seed Germination | BO192 |

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| Updegraff, Tristan | The Effect Of Golf Ball Brand On The Distance The Ball Will Travel | PH190 |
| Walmer, Benjamin | Effect of Weather on the Human Mind | MH381 |
| Waltz, Emma | The Effect of Soil Types on Freezing | ES248 |
| Weiss, Cecelia | The Effect of Density of Fudge Based on Cooling | CH406 |
| Werner, Anna | The Effect of Beverages on the Enzymatic Browning of Apples | CH342 |
| Werner, Jordan | Aggressiveness in Cats from Catnip | ZO331 |
| Witmoyer, Emily | The Effect of Age on the Stroop Effect Results | MH242 |
| Woolwine, Trevor | The Effect of Suit Type on a Male 22.86 Meter Swim Time | PH198 |
| Yochimowitz, Luke | The Effect of High-frequency Noises on Ability to Hear | MH300 |

Holy Guardian Angels

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|-------------------|--|------------------|
| Baney , Philip | Which Brand of Broadhead Results in the Most Humane Kill? | 8P067 |
| Botch, Veronica | How do Drinks Containing Acids Affect the Enamel of Teeth? | 7N105 |
| Christ, Farren | What is the Bacterial Content of Milk? | 7N102 |
| Davis, Julia | Baking Soda vs. Baking Powder | 8N078 |
| Glembocki, Rachel | What Effect does Cinnamon Have on E. Coli Growth? | 7N106 |
| Goerner, Nara | Does the Pitch Angle of the Roof Affect the Durability of the Shingles? | 8P059 |
| Hertzog, William | Which Types of Curtains Keep a Room the Warmest? | 7P103 |
| Johnson, Alyssa | Does the Temperature of a Surface Affect the Clarity of a Fingerprint? | 8P434 |
| Kinyo, Ethan | Do Aquatic Plants in Water Affect the Acidity Level of the Water? | 8N070 |
| Lala, Sarah | Does the Type of Grip on a Robotic Hand Affect the Ability to Grasp Objects? | 8P058 |
| Malinowski, Quinn | Which Skin Moisturizer is Most Effective? | 7P101 |
| Midouhas, Amara | Preventing Needle Drop | 7N109 |
| Miranda, Angelee | Keeping the Cold Out | 8P066 |
| Porcaro, Dante | Does the Size of Gusset Plates Effect the Weight a Bridge Can Carry? | 7P107 |
| Robertson, Meg | How Sweet is it? Glucose Content as Bananas Ripen | 8N082 |
| Rosenberger, | Which Metal is Most Resistant to Corrosion? | 7P104 |
| Siteman, Danielle | Does Caliber Affect the Size of the Impact Site? | 8P062 |
| Stoney, Ethan | Is Multitasking Effective? | 8N134 |

Immaculate Conception Academy

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|-----------------|--|------------------|
| Adams, Riley | Do Good Arrows get Good Reviews? | 7P398 |
| Beck, Mary | Does Whitening Toothpaste Really Work? | 7N318 |
| Conlon, Joey | The Science of Swish | 7P399 |
| D'Elia, Madison | How do Materials Flow? | 8P426 |

Immaculate Conception Academy

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|--------------------|-------------------------------------|------------------|
| Deviney, Courtney | Music and Heart Rate | 7N320 |
| DiGuglielmo, Tre | What Type of Bat Hits the Farthest? | 6P395 |
| Dinnocenti, John | Vitamins- Friends or Foe? | 8N375 |
| Donnelly, Nicholas | What Soundproofing is the Best? | 8P348 |

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|-----------------------|---|-------|
| Eichenlaub , Aiden | Perpetual Energy | 7P437 |
| Ferrante, Jennifer | Do You See What I See? | 6N394 |
| Givens, Mackenzie | What are You Really Sharing? | 7N313 |
| Goodrich, Peyton | How Hot is Hot? | 6N396 |
| Herb, Kaleigh | Pretty and Bacteriaful | 7N325 |
| Irey, Drew | Are There Personality Differences Between Dog and Cat Lovers? | 6N397 |
| Kase, Vivian | Is it the Beat or is it the Beat? | 7N326 |
| Kasperowicz, Jacob | Zoom Zoom | 6P391 |
| Kurtas, Gabriella | Erosion | 6N393 |
| Leonhardt, George | Got Gas! | 8N349 |
| Lobaugh, Austin | The Electrolyte Challenge | 7N324 |
| McGee, Beppy | Brick Quake | 6P392 |
| O'Neill, Michael | Getting Grounded | 8P376 |
| Reber, Aiden | Shooting Stars | 7P293 |
| Scicchitano, Samantha | How Bright is Your Smile? | 8N346 |
| Twaddell, Morgan | What Nail Polish Remover Works the Best? | 6N390 |
| Walker, Joey | Earthquakes...Which bridge will Survive? | 7P316 |
| Yerger, Jordan | Right Handed vs. Left Handed. How Good is Your Memory? | 7N400 |

LaSalle Academy

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|---------------------|--|------------------|
| Barbon, Madalyn | Durability of Cement in the Elements | 8P158 |
| Battista, Paul | The Potato Clock | 6P347 |
| Belville, Dale | Water Affects on Mustard Plants | 6N246 |
| Burrows, Brooke | Water Salinity | 6P247 |
| Coccia, Gina | To Bake or to Wait | 6P243 |
| Davis, Kayla | Is Rinsing Enough? | 8P184 |
| Ferreira, Julia | Sugar High | 7N177 |
| Fowler , Jase | Saving Money Thru Materials | 7P173 |
| Frisina, Mariella | Grease Relief | 6P217 |
| Gabrick, Ethan | Liquids Liquids Go Away | 6P276 |
| Good, Lauren | Can Taylor Swift Make You Smarter? | 6N359 |
| Good, Hiiary | Pen Verses Keyboard | 8N358 |
| Hagan, Lauren | Power Of Peppermint | 7N182 |
| Heck, Emily | For More Distance | 7P148 |
| Horn, Laura | What's in the Bottle? | 8P188 |
| Hyneman, Lucas | Herbicides | 6N270 |
| Keiper, Ryan | Is Profefsional Graffiti Remover Worth it? | 7P178 |
| Kobularcik, Brigham | Fight For White | 7N263 |
| Metz, Jason | The Power of Sound | 8P172 |
| Rollins, Josh | Which Battery Lasts the Longest? | 8P171 |
| Schuetz, Michael | Power of Produce | 6P275 |
| Sell, Darren | Let's Bust Rust | 6P216 |
| Shaffer, Evan | What's Blocking The Wi-Fi? | 7P180 |
| Silver, Matthew | Burning Biofuels | 8P166 |

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| Slusser, Jasmine | Does Temperature Change the Durability of Plastic? | 8P157 |
| Stahovich, Joshua | Shaped for Success | 6P264 |
| Stahovich, Daniel | Rising to the test | 7N183 |

LaSalle Academy

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|--------------------|----------------------------------|------------------|
| Stone, Mark | What's in Your Water? | 8N185 |
| Vance, Megan | Can You See Me... Now | 6P214 |
| Vu, Kaylie | Algae, Too Much of a Good Thing? | 7N179 |
| Wails, Lauren | The Stroop Effect | 8N186 |
| Zablit, Christelle | Waste to Energy | 6P245 |

Muhlenberg High School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|-----------------|--|------------------|
| O'Keefe, Nolan | Getting a Grip on Robotics | MC127 |
| Ruales, Richard | Using "Coastal Dams" to Provide a Sustainable Potable Water Source | EN111 |

Muhlenberg Middle School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|-----------------------|---|------------------|
| Button, Madison | Dominant Hand: More Sensitive? | 7P360 |
| Carmello, Caldonia | What's in Your Soil? | 8N407 |
| DeCisco, Michael | Crystal Growth | 8N277 |
| Dunsky, Alexia | What Happened to the Ice Caps? | 8P435 |
| Kopetsky, Jared | Proof is in the Prints | 7N366 |
| Landrum, Avery | Leaf Chromatography: The Colors of Autumn | 7N367 |
| Neukirch, Emma | Could we Live on Mars? | 8N120 |
| O'Keefe, Megan | Elodea - The Slicker Picker Upper? | 8N175 |
| Ortiz, Sadelynn | Which Water Will Work? | 7N433 |
| Schlegel, Mackenzie | Facts or Flatulence | 8P129 |
| Schleinkofer, Alexis | Old Fashion Weather Predictions | 7N410 |
| Sharp, Gabe | Blast Furnace: Gettin' Piggy with Iron | 8P128 |
| Trubilla, Christopher | Rock on! | 8P297 |
| Yeager, Dakota | Aspirin's Effect on Plant Growth | 7N372 |

Oley Valley Middle School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|------------------|---|------------------|
| Gilbert, Brynn | Forensics: Why Splatter Matters | 8P094 |
| Gilbert, Chloe | Ultraviolet Beads: Igneous vs Bleak | 8P138 |
| Jackson, William | Wi-Fi 2.0: Which Angle of Parabolic Reflector is Best? | 6P026 |
| Lang, Casey | How Long Does it Take for Different Types of French Fries to Mold? | 7N027 |
| Liskey, Ethan | The Make Up of Pottery | 6N048 |
| Mader, Audrey | Does the Placebo Effect Have an Effect on Someone's Sense of Taste? | 8N046 |
| Matteoli, Alyssa | Memory Madness | 6N022 |
| Mauger, Curt | Does Acid Rain Affect Aquatic Species? | 8N295 |
| Sheetz, Ryan | What Ratio of Ingredients Makes The Best Marshmallows? | 7P025 |

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| Turoscy, Gabriel | Conductivity of Liquids | 8P047 |
| Ulrich, Alysha | Green Products: Friend or Foe? | 8N069 |

Sacred Heart School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|--------------------|----------------------------------|------------------|
| Butler, Olivia | Child Proof Lids | 7P420 |
| Emkje, Lucas | The Speed of Skateboard Bearings | 7P423 |
| Landau, Hannah | Balance and Vision | 7N419 |
| Masangcay, Francis | What's Up with Drag? | 8P416 |
| Maurer, Andrew | Think Fast | 7N422 |
| McCann, Maggie | What a Sticky Situation | 7P418 |
| Morelli, Matthew | Smile--Real or Fake | 7N421 |

Sacred Heart School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|---------------------|---|------------------|
| Sichler, Adam | Hydroponic Lettuce and Magnetism | 8N413 |
| Stevens, Kierstyn | How Much is too Much--Tension and the Petella | 8N417 |
| Witmer, Gianna | Aroma and Taste | 8N414 |
| Wittmeyer, Harrison | Speed Check | 8P415 |

Saint Catharine of Siena School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|-----------------------|---|------------------|
| Donato, Patrick | The Effects of Light on Heat | 8P018 |
| Dougherty, Daniele | How Sweet It Is! Your Food's Sugary Secrets | 8N032 |
| Franey, Lily | The Power of Suggestion | 8N031 |
| Geishauser, Eleni | How Long Does it Take for Water to Freeze? | 7P011 |
| Grams, Jack | How Does Temperature Affect A Magnet's Range? | 7P014 |
| Griffin, Reese | Which Bridge Type can Withstand the Most Weight? | 8P023 |
| Kostival, Rachel | From Trash to Gas | 8N019 |
| Lavanga, Christian | Can Sodium Bicarbonate be Used as a Flame Retardant in Paint? | 7P004 |
| Leskusky, Gabe | Generic or Name? | 7N012 |
| Menden, Shawn | How Deep Does a Building Need to be to Have a Strong Foundation? | 8P021 |
| Nguyen, Thientrinh | Which Mouthwash Kills the Most Oral Bacteria? | 7N009 |
| Nguyen, Christian | Mud Power | 7N028 |
| Partsch, Mackenzie | The Great Chocolate Chip Cookie Experiment | 6N345 |
| Prisk, Kara | Which Swimsuit Fabric is the Most Durable? | 7P010 |
| Purcell, William | How Does Temperature Affect Battery Life? | 7P015 |
| Ream, Marissa | The Effect of Vinegar on the Curdling Rate of Milk | 7N013 |
| Simms, Maya Angela | Music to Their Ears? | 8N020 |
| Sirgey, Lauryn | Death Rays: What Duration of UVB Light Effects Bacterial Growth? | 8N017 |
| Wahl, Aidan | Age and Memory | 8N024 |
| Wasielewski, Caroline | Exploring Nanotechnology- Fold, Roll & Stack Your Way to Super-Strong Materials | 8P033 |

Saint Ignatius Loyola School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|----------------|--------------|------------------|
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|----------------------|---|-------|
| Babiarz, David | Which Soda Rots Teeth the Most? | 7P305 |
| Balash, Colin | How Does Air Pressure Affect the Distance a Ball Travels? | 7P307 |
| Berry, Olivia | Mentos-The Fresh Maker | 7P132 |
| Birmingham, Ann | Music Memorization | 7N271 |
| Brubaker, James | What is the Tipping Point? | 7P302 |
| Brubaker, Julie | Is Your Clock Wrong? | 8N285 |
| Chibirka, Ellie | What Type of Truss Bridge is the Strongest: the Warren, the Pratt, or the Howe? | 8P352 |
| Corbacio, Mia | Which Deodorant Lasts the Longest Under Heat? | 8P288 |
| Fioravante, Nicholas | Which Fabric is the Most Flammable? | 8P351 |
| Firestone, Felicity | The Cold Never Bothered Me Anyway | 7N272 |
| Fishburn, Declan | Which Brand of Gum Lasts the Longest? | 7P312 |
| Fitzgerald, Sydney | What Brand and Flavor of Gum Lasts the Longest? | 7P311 |
| Gordos, Andrew | Do Vitamins Completely Dissolve in the Human Body? | 7N265 |
| Hassler, Sarah | Think Before You Drink | 7P306 |
| Helms, Margo | Beggars and Choosers | 7N373 |
| Henshaw, Adam | Which Waterproofing Spray Seals in Water the Best? | 8P280 |
| Horace, Emily | Which Bat is Better, Composite or Aluminum? | 7P269 |
| Hornickle, James | Which Type of Citrus Fruit Produces the Most Electricity? | 8P284 |
| Kenny, Michael | Does the Labeling of Water Bottles Affect People's Preference? | 7P356 |
| Kirwan, Jacqueline | Mean & Green | 7N308 |
| Kresse, Justin | Barefoot or Boots? | 7P314 |
| Logozzo, Francesca | Texture Tones | 7P315 |

Saint Ignatius Loyola School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|--------------------|---|------------------|
| Manderbach, Sydney | Is Smiling Contagious? | 7N304 |
| Marx, Ethan | Does the Nose Know Taste? | 7N309 |
| Miller, Mia | Which Nail Polish Lasts the Longest? | 7P317 |
| Neidert, Stephen | What Material Obstructs Wi-Fi the Most? | 8P279 |
| Nguyen, Thanhbinh | Male Pheromone Spray; Do They Work? | 8N282 |
| Nguyen, Sara | What's the Best Temperature That Affects Crystal Growth? | 8N286 |
| Painton, Jacob | Does Technology Affect Short-term Memory? | 7N319 |
| Painton, Luke | Does Temperature Affect the Growth Rate of Crystals? | 8N290 |
| Patrick, Dylan | What Fishing Bait Works Best? | 8N281 |
| Pfromm, Alexander | What Materials Affect Wi-Fi Signals? | 7P355 |
| Pichardo, Bella | Fingerprints | 7N273 |
| Pickard, Julia | Does Foundation Promising to Match Every Skin Tone Really Work? | 7N322 |
| Pilliod, Henry | Which Type of Grass is Best for the Environment? | 7N267 |
| Ruffing, Megan | How to Shoot the Perfect Shot | 7P268 |
| Rugh, Kayla | Sun Colors | 7P323 |
| Sauselen, Brianna | The Paper Towel Police | 7P266 |
| Scanlon, Luke | Does Colored Lighting Affect the Cognitive Ability of Elderly People? | 8N249 |
| Scanlon, Brad | Can Human Motion Produce Electricity? | 8P287 |
| Schlouch, Johnny | Will Freezing a Candle Affect its Burn Time? | 8P289 |
| Stauffer, Shane | What Swimsuit has the Least Drag? | 8P283 |

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|-------------------|---|-------|
| Stewart, Ben | Which Liquid Melts Ice Fastest? | 7P303 |
| Towle, Evan | Do Active Video Games Include Exercise? | 7P274 |
| Turczynski, Chase | How Much Sugar is Really in Soda? | 7P310 |

Saint Peter School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|---------------------|--|------------------|
| Gruber, Syre | Where are the Greatest Areas of Bacterial Growth in a School Building? | 8N252 |
| Hernandez, Charleen | The Effect of Various Types of Water on Plant Growth | 8N253 |
| Pendos, Gabriela | Which Cutting Board will Have More Bacteria? | 8N291 |
| Rosario, Ceydi | Which is the Best Antiseptic Against Mouth Bacteria? | 8N255 |
| Stankiewicz, Kaela | Which Environment has a Greater Effect on Banana Ripening? | 8N254 |

The King's Academy

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|--------------------|--|------------------|
| Billig, Hannah | Electricity and Water | 7P083 |
| Deemer, Halee | How Do You Take Your Tea? | 6P408 |
| Deemer, Ciara | Filter Frenzy: A Study of the Effectiveness of Filter Material | 7N090 |
| Fick, Alicia | Colors That Pop: A Study of Factors That Influence Dying Fabric | 7P087 |
| Gong, Janice | Shine The Light: A Study of Room Comfort | PH133 |
| Himmelberger, Alli | Sugar Shock! | 7N452 |
| Hodges, John | Vertical Farming: A Study of L.E.D. vs. Fluorescent Light Sources | BO126 |
| Holt, Emma | I'm so Fontcy: A Study Font Type and Memory Recall | 7N089 |
| Houser, Jillian | Floating Eggs | 6P411 |
| Mathias, Jared | Examining the Trash Pile: A Study of Decomposition | ES123 |
| Neiswender, Leah | Soak It Up: Using Hair to Clean Up Oil Spills | ES136 |
| Ngo, Phuong | Be Still My Heart: A Study of the Effects of Green Tea on Daphnia's Heart Rate | MH125 |
| Olugbodi, | Denitrification Station: A Comparative Study of Water Denitrification | ES443 |
| Petersen, Kayla | Break it Down: A Study of Bioplastics | ES122 |
| Petrosky, Mariah | Pendulums | 6P409 |
| Robinson, Alexis | The Turning Point: A Study of Physics and Dance | PH121 |
| Rowles, Mark | Let it Roll! Color Edition | 7P086 |
| Siahmeng, Jenny | Let It Flow: The Study of Water Flow | PH124 |

The King's Academy

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|----------------|---|------------------|
| Yeagle, Luke | What's Killing Your Wi-Fi?: A Study of Building Materials' Influence on Wi-Fi Signals | MC427 |
| Yocum, Luke | Gears vs. Torque | 6P412 |

Tulpehocken Junior - Senior High School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|------------------|--|------------------|
| Blankenbiller, | Can a Person Become Better at Dribbling During Field Hockey? | MH044 |
| Burns, Rebecca | Does Green Light Affect the Metamorphosis of Painted Lady Butterflies? | ZO040 |
| Emerich, Coty | How is the Velocity of a Bullet Effected by Barrel Length? | PH035 |
| Etchberger, Cody | Do Different Amounts of Propellant Make a Potato Fly Faster? | EN038 |
| Gordon, Darian | Will a Calcium Deficient Diet Effect Egg Shell Strength? | ZO131 |

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|---------------------|---|-------|
| Hartranft, Brittany | Does the Angle of Blood Spatter Affect the Droplets? | PH042 |
| Jurasinski, Priya | Does The SPF Level Affect Skin Damage? | MH034 |
| Keegan-Smith, | If Voltage is Increased DNA Will Move Faster | CH045 |
| Ludwig, Jonathan | Do Violent Video Games Cause Aggression in Players? | MH037 |
| McGinty, Kylie | Baking Alternatives : Basic Ingredients vs Healthier Alternatives | MH451 |
| Mohn, Chad | Which Crop Erosion Tactic is the Most Effective? | ES043 |
| Sealer, Hannah | Are Women Better at Remembering? | MH041 |
| Thomas, Ryan | Are Certain Brands of Duct Tape Stronger? | PH039 |
| Torres, Dominic | How Do You Make a Perfect Cheesecake? | CH036 |

Wilson High School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|---------------------|---|------------------|
| Abreu, Yailin | Hair Loss | CH447 |
| Aiman, Molly | Are Fingerprints Inherited or Are They Randomly Chosen? | MH153 |
| Baldwin, Nolan | What Affects Swim Speeds? | PH163 |
| Bean, Michael | Eliminating Vehicle Fires | EN446 |
| Bonargo, Micayla | Is the Perfect Bat Really "Perfect"? | PH213 |
| Breslin, Liam | Skate Surface's | PH151 |
| Chmielewski, Marc | Bulletproof Blanket | EN161 |
| Cincinnati , Paige | Foot on the Brake vs. Foot on the Gas | MH146 |
| Cowsette, Camille | Facial Expressions vs. Polygraph Which Is More Reliable? | ZO431 |
| Davis, Ethan | Goggle Drag Analysis | PH445 |
| Den Otter, Jasper | Color vs. Academic Performance | MH141 |
| Dhurairaj, Puvin | Frequencies vs Temperature | PH405 |
| Edelman, Kyle | How Accurate Can a Cricket Tell the Temperature? | ZO401 |
| Eshbach, Nicholas | Tulpehocken Creek Fishing Conditions Variation | ZO215 |
| Garcia, Christopher | The Creation of Meta-Humans | CH168 |
| Goncea, Isabella | The Best Chocolate-Chip Cookies | CH162 |
| Goodrow, Jason | Nitrous Oxide | CH156 |
| Grayson, Megan | It does Matter, Look at the Spatter (BPA Part 2) | PH002 |
| Kauffman, Samantha | Extracting and Measuring the Iron in Cereal and How it Affects Cost | CH169 |
| LaManna, Joshua | AC "Leap of Faith" | PH143 |
| Lewis, Chelsea | Wifi Strength | MC164 |
| Martin, Hope | Mummification | CH159 |
| McArdle, Marlayna | Miracle Berries pH | CH160 |
| McDonald , Kailey | How Different Bathing Suits Effect Swimming Times | PH149 |
| McGovern, Hannah | Flow Rate | PH259 |
| McKemy, Elle | Clementines | CH261 |
| Merolillo, Savannah | Accents | MH251 |
| Minnich, Nicole | Harmful Algae Blooms in the Chesapeake Bay | BO450 |
| Murray, Evan | The Right Bridge Design | EN436 |
| Nuskey, Brooke | Boiling Water | CH152 |

Wilson High School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|----------------|--------------|------------------|
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|-------------------|--|-------|
| OShea, Molly | Fingerprint Similarity | CH142 |
| Owens, Rachael | Baby Imprinting | MH170 |
| Patel, Jaimin | How Does Temperature Affect the Glow of Luminol? | CH449 |
| Powell, Jocelyn | Predators vs. Prey | ZO144 |
| Ramsey, Caroline | Concussion Testing and the Holes that Can be Found | MH145 |
| Rapplee, Sophia | Which is Better? | MH150 |
| Rivera, Antonio | Biomass to Biogas | CH425 |
| Rohrbach, Madison | Inovation Helmet | EN140 |
| Sanger, Lindsay | How does Personality Affect Interests? | MH444 |
| Schuchman, Peter | Drones and PTSD. | MH147 |
| Scott, Munjeh | The Movement of Sound Waves | CH154 |
| Serban, Andreea | Plant Analysis | BO139 |
| Small, Rachel | Perception of Self vs. How Others See You | MH374 |
| Steiner, Emily | Science Fair | PH155 |
| Turner, Samantha | Facial Symmetry | MH250 |
| Weitzel, Alli | Parametric | PH448 |
| Worcheck, Liam | The Physics of Powersliding | PH167 |
| Woronko, Sarah | Does Room Format Effect Acoustics? | PH258 |
| Yu, Lauren | Technological Radiation | PH117 |

Wilson Southern Middle School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|------------------|---|------------------|
| Fratis, Josh | How Much Vitamin C is in Different Types of Orange Juice? | 7P256 |
| Martinez, Daniel | The \$1000 Saver | 6P292 |

Wilson West Middle School

| <u>Student</u> | <u>Title</u> | <u>Exhibit #</u> |
|--------------------|---|------------------|
| Agrawal, Shreya | Power from Produce | 7N068 |
| Bhusari, Sanchita | Plant Life with Light Bulbs | 6N176 |
| Cunningham, Travis | How to Stay Hydrated During An Apocalypse | 8N301 |
| Fallon, Jonathan | How Much Plants Does a Fish Really Need? | 6N371 |
| Klein, Kathryn | Which Side of the Brain Draws the Best? | 6N429 |
| Mendoza, Karen | Molecular Gastronomy: Fruit Juice Spaghetti | 6P108 |
| Nayak, Krishna | Effectiveness of an Antacid Tablet | 7P029 |
| Patel, Veraj | Impact of Size on Electric Propulsion | 6N260 |
| Shah, Amaya | The Effect of Different Amounts of Nano Silver on Pepper Plants | 6N085 |
| Umer, Shahzaib | Endothermic & Exothermic Reactions | 7P402 |
| Vanino, Adam | Deflated Footballs vs Inflated Footballs | 7P440 |

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Audrey Smeltzer-Schwab

Muhlenberg Middle School

Dana Gilbert

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Kathy Lynn Lavanga

Saint Ignatius Loyola School

Berry Kelly

Saint Peter School

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The King's Academy

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Susan Weidenheimer

Wilson High School

Joe Melograna

Gay Wentzel

Wilson Southern Middle School

Pamela J. Carley

Beth Hartman

Wilson West Middle School

Tim Fick

Steve Rhoades

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Junior Division

6th Grade Natural Science

| | | |
|-------|-------------------|--------------------------------------|
| 6N022 | Alyssa Matteoli | Oley Valley Middle School |
| 6N048 | Ethan Liskey | Oley Valley Middle School |
| 6N079 | Jack Baldwin | Governor Mifflin Intermediate School |
| 6N085 | Amaya Shah | Wilson West Middle School |
| 6N115 | Amanda Reynolds | Governor Mifflin Intermediate School |
| 6N176 | Sanchita Bhusari | Wilson West Middle School |
| 6N246 | Dale Belville | LaSalle Academy |
| 6N260 | Veraj Patel | Wilson West Middle School |
| 6N270 | Lucas Hyneman | LaSalle Academy |
| 6N345 | Mackenzie Partsch | Saint Catharine of Siena School |
| 6N359 | Lauren Good | LaSalle Academy |
| 6N371 | Jonathan Fallon | Wilson West Middle School |
| 6N390 | Morgan Twaddell | Immaculate Conception Academy |
| 6N393 | Gabriella Kurtas | Immaculate Conception Academy |
| 6N394 | Jennifer Ferrante | Immaculate Conception Academy |
| 6N396 | Peyton Goodrich | Immaculate Conception Academy |
| 6N397 | Drew Irey | Immaculate Conception Academy |
| 6N429 | Kathryn Klein | Wilson West Middle School |

6th Grade Physical Science

| | | |
|-------|-------------------|--------------------------------------|
| 6P026 | William Jackson | Oley Valley Middle School |
| 6P108 | Karen Mendoza | Wilson West Middle School |
| 6P110 | Mark Hofmann | Governor Mifflin Intermediate School |
| 6P137 | Nathaniel Wert | Governor Mifflin Intermediate School |
| 6P214 | Megan Vance | LaSalle Academy |
| 6P216 | Darren Sell | LaSalle Academy |
| 6P217 | Mariella Frisina | LaSalle Academy |
| 6P243 | Gina Coccia | LaSalle Academy |
| 6P245 | Christelle Zablit | LaSalle Academy |
| 6P247 | Brooke Burrows | LaSalle Academy |
| 6P264 | Joshua Stahovich | LaSalle Academy |
| 6P275 | Michael Schuetz | LaSalle Academy |
| 6P276 | Ethan Gabrick | LaSalle Academy |
| 6P292 | Daniel Martinez | Wilson Southern Middle School |
| 6P347 | Paul Battista | LaSalle Academy |
| 6P391 | Jacob Kasperowicz | Immaculate Conception Academy |
| 6P392 | Beppy McGee | Immaculate Conception Academy |
| 6P395 | Tre DiGuglielmo | Immaculate Conception Academy |
| 6P408 | Halee Deemer | The King's Academy |
| 6P409 | Mariah Petrosky | The King's Academy |

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|--|---------------------|------------------------------------|
| 6P411 | Jillia Houser | The King's Academy |
| 6P412 | Luke Yocum | The King's Academy |
| <u>7th Grade Natural Science</u> | | |
| 7N009 | Thientrinh Nguyen | Saint Catharine of Siena School |
| 7N012 | Gabe Leskusky | Saint Catharine of Siena School |
| 7N013 | Marissa Ream | Saint Catharine of Siena School |
| 7N027 | Casey Lang | Oley Valley Middle School |
| 7N028 | Christian Nguyen | Saint Catharine of Siena School |
| 7N068 | Shreya Agrawal | Wilson West Middle School |
| 7N089 | Emma Holt | The King's Academy |
| 7N090 | Ciara Deemer | The King's Academy |
| 7N102 | Farren Christ | Holy Guardian Angels |
| 7N105 | Veronica Botch | Holy Guardian Angels |
| 7N106 | Rachel Glembocki | Holy Guardian Angels |
| 7N109 | Amara Midouhas | Holy Guardian Angels |
| 7N177 | Julia Ferreira | LaSalle Academy |
| 7N179 | Kaylie Vu | LaSalle Academy |
| 7N182 | Lauren Hagan | LaSalle Academy |
| 7N183 | Daniel Stahovich | LaSalle Academy |
| 7N263 | Brigham Kobularcik | LaSalle Academy |
| 7N265 | Andrew Gordos | Saint Ignatius Loyola School |
| 7N267 | Henry Pilliod | Saint Ignatius Loyola School |
| 7N271 | Ann Birmingham | Saint Ignatius Loyola School |
| 7N272 | Felicity Firestone | Saint Ignatius Loyola School |
| 7N273 | Bella Pichardo | Saint Ignatius Loyola School |
| 7N304 | Sydney Manderbach | Saint Ignatius Loyola School |
| 7N308 | Jacqueline Kirwan | Saint Ignatius Loyola School |
| 7N309 | Ethan Marx | Saint Ignatius Loyola School |
| 7N313 | Mackenzie Givens | Immaculate Conception Academy |
| 7N318 | Mary Beck | Immaculate Conception Academy |
| 7N319 | Jacob Painton | Saint Ignatius Loyola School |
| 7N320 | Courtney Deviney | Immaculate Conception Academy |
| 7N322 | Julia Pickard | Saint Ignatius Loyola School |
| 7N324 | Austin Lobaugh | Immaculate Conception Academy |
| 7N325 | Kaleigh Herb | Immaculate Conception Academy |
| 7N326 | Vivian Kase | Immaculate Conception Academy |
| 7N366 | Jared Kopetsky | Muhlenberg Middle School |
| 7N367 | Avery Landrum | Muhlenberg Middle School |
| 7N372 | Dakota Yeager | Muhlenberg Middle School |
| 7N373 | Margo Helms | Saint Ignatius Loyola School |
| 7N400 | Jordan Yerger | Immaculate Conception Academy |
| 7N410 | Alexis Schleinkofer | Muhlenberg Middle School |
| 7N419 | Hannah Landau | Sacred Heart School |
| 7N421 | Matthew Morelli | Sacred Heart School |
| 7N422 | Andrew Maurer | Sacred Heart School |
| 7N432 | Macy Chamberlain | Antietam Middle-Senior High School |
| 7N433 | Sadelynn Ortiz | Muhlenberg Middle School |

| | | |
|-------|-------------------|------------------------------------|
| 7N438 | Owen Goodman | Antietam Middle-Senior High School |
| 7N452 | Alli Himmelberger | The King's Academy |

7th Grade Physical Science

| | | |
|-------|----------------------|---------------------------------|
| 7P004 | Christian Lavanga | Saint Catharine of Siena School |
| 7P010 | Kara Prisk | Saint Catharine of Siena School |
| 7P011 | Eleni Geishauser | Saint Catharine of Siena School |
| 7P014 | Jack Grams | Saint Catharine of Siena School |
| 7P015 | William Purcell | Saint Catharine of Siena School |
| 7P025 | Ryan Sheetz | Oley Valley Middle School |
| 7P029 | Krishna Nayak | Wilson West Middle School |
| 7P083 | Hannah Billig | The King's Academy |
| 7P086 | Mark Rowles | The King's Academy |
| 7P087 | Alicia Fick | The King's Academy |
| 7P101 | Quinn Malinowski | Holy Guardian Angels |
| 7P103 | William Hertzog | Holy Guardian Angels |
| 7P104 | Michaela Rosenberger | Holy Guardian Angels |
| 7P107 | Dante Porcaro | Holy Guardian Angels |
| 7P132 | Olivia Berry | Saint Ignatius Loyola School |
| 7P148 | Emily Heck | LaSalle Academy |
| 7P173 | Jase Fowler | LaSalle Academy |
| 7P178 | Ryan Keiper | LaSalle Academy |
| 7P180 | Evan Shaffer | LaSalle Academy |
| 7P181 | Noah Clipman | Governor Mifflin Middle School |
| 7P256 | Josh Fratis | Wilson Southern Middle School |
| 7P266 | Brianna Sauselen | Saint Ignatius Loyola School |
| 7P268 | Megan Ruffing | Saint Ignatius Loyola School |
| 7P269 | Emily Horace | Saint Ignatius Loyola School |
| 7P274 | Evan Towle | Saint Ignatius Loyola School |
| 7P293 | Aiden Reber | Immaculate Conception Academy |
| 7P302 | James Brubaker | Saint Ignatius Loyola School |
| 7P303 | Ben Stewart | Saint Ignatius Loyola School |
| 7P305 | David Babiarz | Saint Ignatius Loyola School |
| 7P306 | Sarah Hassler | Saint Ignatius Loyola School |
| 7P307 | Colin Balash | Saint Ignatius Loyola School |
| 7P310 | Chase Turczynski | Saint Ignatius Loyola School |
| 7P311 | Sydney Fitzgerald | Saint Ignatius Loyola School |
| 7P312 | Declan Fishburn | Saint Ignatius Loyola School |
| 7P314 | Justin Kresse | Saint Ignatius Loyola School |
| 7P315 | Francesca Logozzo | Saint Ignatius Loyola School |
| 7P316 | Joey Walker | Immaculate Conception Academy |
| 7P317 | Mia Miller | Saint Ignatius Loyola School |
| 7P323 | Kayla Rugh | Saint Ignatius Loyola School |
| 7P355 | Alexander Pfromm | Saint Ignatius Loyola School |
| 7P356 | Michael Kenny | Saint Ignatius Loyola School |
| 7P360 | Madison Button | Muhlenberg Middle School |

| | | |
|-------|---------------|-------------------------------|
| 7P398 | Riley Adams | Immaculate Conception Academy |
| 7P399 | Joey Conlon | Immaculate Conception Academy |
| 7P402 | Shahzaib Umer | Wilson West Middle School |
| 7P418 | Maggie McCann | Sacred Heart School |
| 7P420 | Olivia Butler | Sacred Heart School |
| 7P423 | Lucas Emkje | Sacred Heart School |

7th Grade Physical Science

| | | |
|-------|--------------------|------------------------------------|
| 7P437 | Aiden Eichenlaub | Immaculate Conception Academy |
| 7P440 | Adam Vanino | Wilson West Middle School |
| 7P442 | Katherine Kerchner | Antietam Middle-Senior High School |
| 7P455 | Nicholas Wentling | Antietam Middle-Senior High School |

8th Grade Natural Science

| | | |
|-------|----------------------|---------------------------------|
| 8N017 | Lauryn Sirgey | Saint Catharine of Siena School |
| 8N019 | Rachel Kostival | Saint Catharine of Siena School |
| 8N020 | Maya Angela Simms | Saint Catharine of Siena School |
| 8N024 | Aidan Wahl | Saint Catharine of Siena School |
| 8N031 | Lily Franey | Saint Catharine of Siena School |
| 8N032 | Daniele Dougherty | Saint Catharine of Siena School |
| 8N046 | Audrey Mader | Oley Valley Middle School |
| 8N069 | Alysha Ulrich | Oley Valley Middle School |
| 8N070 | Ethan Kinyo | Holy Guardian Angels |
| 8N078 | Julia Davis | Holy Guardian Angels |
| 8N082 | Meg Robertson | Holy Guardian Angels |
| 8N120 | Emma Neukirch | Muhlenberg Middle School |
| 8N134 | Ethan Stoney | Holy Guardian Angels |
| 8N174 | Hannah Knox | Governor Mifflin Middle School |
| 8N175 | Megan OKeefe | Muhlenberg Middle School |
| 8N185 | Mark Stone | LaSalle Academy |
| 8N186 | Lauren Wails | LaSalle Academy |
| 8N249 | Luke Scanlon | Saint Ignatius Loyola School |
| 8N252 | Syre Gruber | Saint Peter School |
| 8N253 | Charleen Hernandez | Saint Peter School |
| 8N254 | Kaela Stankiewicz | Saint Peter School |
| 8N255 | Ceydi Rosario | Saint Peter School |
| 8N277 | Michael DeCisco | Muhlenberg Middle School |
| 8N281 | Dylan Patrick | Saint Ignatius Loyola School |
| 8N282 | Thanhbinh Nguyen | Saint Ignatius Loyola School |
| 8N285 | Julie Brubaker | Saint Ignatius Loyola School |
| 8N286 | Sara Nguyen | Saint Ignatius Loyola School |
| 8N290 | Luke Painton | Saint Ignatius Loyola School |
| 8N291 | Gabriela Pends | Saint Peter School |
| 8N295 | Curt Mauger | Oley Valley Middle School |
| 8N301 | Travis Cunningham | Wilson West Middle School |
| 8N346 | Samantha Scicchitano | Immaculate Conception Academy |
| 8N349 | George Leonhardt | Immaculate Conception Academy |

| | | |
|-------|-------------------|-------------------------------|
| 8N358 | Hiiary Good | LaSalle Academy |
| 8N375 | John Dinnocenti | Immaculate Conception Academy |
| 8N407 | Caldonia Carmello | Muhlenberg Middle School |
| 8N413 | Adam Sichler | Sacred Heart School |
| 8N414 | Gianna Witmer | Sacred Heart School |
| 8N417 | Kierstyn Stevens | Sacred Heart School |

8th Grade Physical Science

| | | |
|-------|----------------------|---------------------------------|
| 8P006 | Hunter Reid | Berks Christian School |
| 8P018 | Patrick Donato | Saint Catharine of Siena School |
| 8P021 | Shawn Menden | Saint Catharine of Siena School |
| 8P023 | Reese Griffin | Saint Catharine of Siena School |
| 8P033 | Caroline Wasielevski | Saint Catharine of Siena School |
| 8P047 | Gabriel Turoscy | Oley Valley Middle School |
| 8P058 | Sarah Lala | Holy Guardian Angels |
| 8P059 | Nara Goerner | Holy Guardian Angels |
| 8P062 | Danielle Siteman | Holy Guardian Angels |
| 8P066 | Angelee Miranda | Holy Guardian Angels |
| 8P067 | Philip Baney | Holy Guardian Angels |
| 8P094 | Brynn Gilbert | Oley Valley Middle School |
| 8P128 | Gabe Sharp | Muhlenberg Middle School |
| 8P129 | Mackenzie Schlegel | Muhlenberg Middle School |
| 8P138 | Chloe Gilbert | Oley Valley Middle School |
| 8P157 | Jasmine Slusser | LaSalle Academy |
| 8P158 | Madalyn Barbon | LaSalle Academy |
| 8P166 | Matthew Silver | LaSalle Academy |
| 8P171 | Josh Rollins | LaSalle Academy |
| 8P172 | Jason Metz | LaSalle Academy |
| 8P184 | Kayla Davis | LaSalle Academy |
| 8P188 | Laura Horn | LaSalle Academy |
| 8P279 | Stephen Neidert | Saint Ignatius Loyola School |
| 8P280 | Adam Henshaw | Saint Ignatius Loyola School |
| 8P283 | Shane Stauffer | Saint Ignatius Loyola School |
| 8P284 | James Hornickle | Saint Ignatius Loyola School |
| 8P287 | Brad Scanlon | Saint Ignatius Loyola School |
| 8P288 | Mia Corbacio | Saint Ignatius Loyola School |
| 8P289 | Johnny Schlouch | Saint Ignatius Loyola School |
| 8P297 | Christopher Trubilla | Muhlenberg Middle School |
| 8P348 | Nicholas Donnelly | Immaculate Conception Academy |
| 8P351 | Nicholas Fioravante | Saint Ignatius Loyola School |
| 8P352 | Ellie Chibirka | Saint Ignatius Loyola School |
| 8P376 | Michael O'Neill | Immaculate Conception Academy |
| 8P415 | Harrison Wittmeyer | Sacred Heart School |
| 8P416 | Francis Masangcay | Sacred Heart School |
| 8P426 | Madison D'Elia | Immaculate Conception Academy |

8P434
8P435

Alyssa Johnson
Alexia Dunsky

Holy Guardian Angels
Muhlenberg Middle School

Senior Division

Botany

| | | |
|-------|-------------------|-------------------------------------|
| BO001 | Grace Ohlinger | Governor Mifflin Senior High School |
| BO051 | Nicole Balistrere | Berks Catholic High School |
| BO057 | Delaney Doran | Berks Catholic High School |
| BO063 | Katie Hawkins | Berks Catholic High School |
| BO064 | Benjamin Tokars | Berks Catholic High School |
| BO126 | John Hodges | The King's Academy |
| BO139 | Andreea Serban | Wilson High School |
| BO192 | Cailin Underwood | Governor Mifflin Senior High School |
| BO195 | Alexa Leisey | Governor Mifflin Senior High School |
| BO199 | Samantha Latshaw | Governor Mifflin Senior High School |
| BO200 | Sam Hawk | Governor Mifflin Senior High School |
| BO210 | Margaret Mitchell | Governor Mifflin Senior High School |
| BO211 | Olivia Bachman | Governor Mifflin Senior High School |
| BO221 | Emma Ahearn | Governor Mifflin Senior High School |
| BO224 | Zoey Spang | Governor Mifflin Senior High School |
| BO225 | Josh Barto | Governor Mifflin Senior High School |
| BO229 | Lewis Goodman | Governor Mifflin Senior High School |
| BO237 | Elias Brower | Governor Mifflin Senior High School |
| BO257 | Amber Schweitzer | Governor Mifflin Senior High School |
| BO265 | Sean Quay | Berks Christian School |
| BO278 | Nicole Wilson | Berks Christian School |
| BO328 | Jonathan Tarakci | Governor Mifflin Senior High School |
| BO335 | Anthony Miller | Governor Mifflin Senior High School |
| BO341 | Cameron Blandford | Governor Mifflin Senior High School |
| BO364 | Isabella Arevalo | Governor Mifflin Senior High School |
| BO384 | Natalie Ernst | Governor Mifflin Senior High School |
| BO389 | Molly Sweigart | Governor Mifflin Senior High School |
| BO428 | Ritik Kapoor | Governor Mifflin Senior High School |
| BO441 | Kayla Aulenbach | Conrad Weiser HS |
| BO450 | Nicole Minnich | Wilson High School |

Chemistry

| | | |
|-------|-----------------------|----------------------------------|
| CH036 | Dominic Torres | Tulpehocken Junior - Senior High |
| CH045 | Courtney Keegan-Smith | Tulpehocken Junior - Senior High |
| CH052 | Caroline Golembiewski | Berks Catholic High School |

| | | |
|-------|--------------------|----------------------------|
| CH060 | Baotram Nguyen | Berks Catholic High School |
| CH071 | Elizabeth Lavanga | Berks Catholic High School |
| CH075 | Emily Cebulski | Berks Catholic High School |
| CH142 | Molly OShea | Wilson High School |
| CH152 | Brooke Nuskey | Wilson High School |
| CH154 | Munjeh Scott | Wilson High School |
| CH156 | Jason Goodrow | Wilson High School |
| CH159 | Hope Martin | Wilson High School |
| CH160 | Marlayna McArdle | Wilson High School |
| CH162 | Isabella Goncea | Wilson High School |
| CH168 | Christopher Garcia | Wilson High School |

Chemistry

| | | |
|-------|-------------------|-------------------------------------|
| CH169 | Samantha Kauffman | Wilson High School |
| CH193 | Jade Lush | Governor Mifflin Senior High School |
| CH196 | Simon Max | Governor Mifflin Senior High School |
| CH202 | Jared Gehman | Governor Mifflin Senior High School |
| CH212 | Brendan Boggs | Governor Mifflin Senior High School |
| CH219 | Tim Nyce | Governor Mifflin Senior High School |
| CH220 | Thomas Hofmann | Governor Mifflin Senior High School |
| CH231 | Sophia DeFeo | Governor Mifflin Senior High School |
| CH233 | Jessica Halligan | Governor Mifflin Senior High School |
| CH234 | Bryonna Crowley | Governor Mifflin Senior High School |
| CH238 | Jessie Taylor | Governor Mifflin Senior High School |
| CH239 | Austin Blanchard | Governor Mifflin Senior High School |
| CH261 | Elle McKemy | Wilson High School |
| CH333 | Claire Dennis | Governor Mifflin Senior High School |
| CH342 | Anna Werner | Governor Mifflin Senior High School |
| CH344 | Jenna Gruber | Governor Mifflin Senior High School |
| CH353 | Madi Getz | Conrad Weiser HS |
| CH361 | Hailey Payne | Governor Mifflin Senior High School |
| CH363 | Felicia Mcalvage | Governor Mifflin Senior High School |
| CH387 | Alyssa Dreisbach | Governor Mifflin Senior High School |
| CH406 | Cecelia Weiss | Governor Mifflin Senior High School |
| CH425 | Antonio Rivera | Wilson High School |
| CH447 | Yailin Abreu | Wilson High School |
| CH449 | Jaimin Patel | Wilson High School |
| CH454 | Will English | Berks Catholic High School |

Engineering

| | | |
|-------|-------------------|-------------------------------------|
| EN038 | Cody Etchberger | Tulpehocken Junior - Senior High |
| EN053 | Andrew Przyjemski | Governor Mifflin Senior High School |
| EN111 | Richard Ruales | Muhlenberg High School |
| EN116 | John Metz | Berks Catholic High School |
| EN140 | Madison Rohrbach | Wilson High School |
| EN161 | Marc Chmielewski | Wilson High School |
| EN244 | Danny Frederick | Governor Mifflin Senior High School |

| | | |
|-------|--------------|-------------------------------------|
| EN369 | Seth Musser | Governor Mifflin Senior High School |
| EN436 | Evan Murray | Wilson High School |
| EN446 | Michael Bean | Wilson High School |

Eearth and Space

| | | |
|-------|-----------------|-------------------------------------|
| ES043 | Chad Mohn | Tulpehocken Junior - Senior High |
| ES118 | Justin Schuetz | Berks Catholic High School |
| ES122 | Kayla Petersen | The King's Academy |
| ES123 | Jared Mathias | The King's Academy |
| ES130 | Courtney Vu | Berks Catholic High School |
| ES136 | Leah Neiswender | The King's Academy |
| ES191 | Aaron Phillippi | Governor Mifflin Senior High School |

Eearth and Space

| | | |
|-------|----------------------|-------------------------------------|
| ES248 | Emma Waltz | Governor Mifflin Senior High School |
| ES368 | Gwendolyn Curtis | Governor Mifflin Senior High School |
| ES380 | Kayle Roman | Governor Mifflin Senior High School |
| ES443 | Oluwaloseyi Olugbodi | The King's Academy |

Math and Computers

| | | |
|-------|--------------------|----------------------------|
| MC088 | Christina Mitchell | Berks Catholic High School |
| MC096 | Jacob Arquisola | Berks Catholic High School |
| MC127 | Nolan O'Keefe | Muhlenberg High School |
| MC164 | Chelsea Lewis | Wilson High School |
| MC427 | Luke Yeagle | The King's Academy |

Medicine and Health

| | | |
|-------|------------------------|----------------------------------|
| MH034 | Priya Jurasinski | Tulpehocken Junior - Senior High |
| MH037 | Jonathan Ludwig | Tulpehocken Junior - Senior High |
| MH041 | Hannah Sealer | Tulpehocken Junior - Senior High |
| MH044 | Michaela Blankenbiller | Tulpehocken Junior - Senior High |
| MH049 | Maya Fares | Berks Catholic High School |
| MH050 | Meghan Grieco | Berks Catholic High School |
| MH074 | Shae Himmelberger | Berks Catholic High School |
| MH076 | Erin Apsokardu | Berks Catholic High School |
| MH084 | Taylor Miller | Berks Catholic High School |
| MH093 | Soleil Torres | Berks Catholic High School |
| MH095 | Marissa Avadanian | Berks Catholic High School |
| MH097 | Mary Banco | Berks Catholic High School |
| MH098 | Elizabeth Tarquinio | Berks Catholic High School |
| MH112 | Victoria DeMarco | Berks Catholic High School |
| MH114 | Tyler Moore | Conrad Weiser HS |
| MH125 | Phuong Ngo | The King's Academy |
| MH141 | Jasper Den Otter | Wilson High School |
| MH145 | Caroline Ramsey | Wilson High School |
| MH146 | Paige Cincinnati | Wilson High School |

| | | |
|-------|-----------------|-------------------------------------|
| MH147 | Peter Schuchman | Wilson High School |
| MH150 | Sophia Rappleye | Wilson High School |
| MH153 | Molly Aiman | Wilson High School |
| MH170 | Rachael Owens | Wilson High School |
| MH187 | Jonas Conner | Governor Mifflin Senior High School |
| MH189 | Kailee Kostello | Governor Mifflin Senior High School |
| MH194 | Malia Naugle | Governor Mifflin Senior High School |
| MH197 | Gwendylan Gagne | Governor Mifflin Senior High School |
| MH204 | Sierra Kugler | Governor Mifflin Senior High School |
| MH205 | Logan McMahon | Governor Mifflin Senior High School |
| MH206 | Sarah Kerr | Governor Mifflin Senior High School |
| MH209 | Lauren Lubic | Governor Mifflin Senior High School |
| MH218 | Hannah Heffner | Governor Mifflin Senior High School |
| MH222 | Morgan Scheirer | Governor Mifflin Senior High School |

Medicine and Health

| | | |
|-------|--------------------------|-------------------------------------|
| MH223 | Christopher Angstadt | Governor Mifflin Senior High School |
| MH226 | Sara Teson | Governor Mifflin Senior High School |
| MH227 | Hayley McBryan | Governor Mifflin Senior High School |
| MH228 | Alex Perez | Governor Mifflin Senior High School |
| MH230 | Anna Thompson | Governor Mifflin Senior High School |
| MH232 | Jessica Brown | Governor Mifflin Senior High School |
| MH240 | Kellie Fink | Governor Mifflin Senior High School |
| MH241 | Katelyn Osborne | Governor Mifflin Senior High School |
| MH242 | Emily Witmoyer | Governor Mifflin Senior High School |
| MH250 | Samantha Turner | Wilson High School |
| MH251 | Savannah Merolillo | Wilson High School |
| MH262 | Ryan Ferrante | Berks Catholic High School |
| MH294 | Lauren Molfetta | Governor Mifflin Senior High School |
| MH296 | Caitlyn Panase | Governor Mifflin Senior High School |
| MH299 | Rachael Abellard | Governor Mifflin Senior High School |
| MH300 | Luke Yochimowitz | Governor Mifflin Senior High School |
| MH329 | Lauren Hepburn | Governor Mifflin Senior High School |
| MH334 | Sierra-Rose Hausmann | Governor Mifflin Senior High School |
| MH336 | Nicole Shaylor | Governor Mifflin Senior High School |
| MH337 | Ammit Bhogal | Governor Mifflin Senior High School |
| MH338 | Kyra Hartman | Governor Mifflin Senior High School |
| MH339 | Vanessa Attardi | Governor Mifflin Senior High School |
| MH340 | Hannah Ramsbottom | Governor Mifflin Senior High School |
| MH343 | Lindsey Strohl | Governor Mifflin Senior High School |
| MH350 | Allison Garman | Governor Mifflin Senior High School |
| MH354 | Madalyn Frasch | Conrad Weiser HS |
| MH370 | Andrew Stanislawczyk | Governor Mifflin Senior High School |
| MH374 | Rachel Small | Wilson High School |
| MH377 | Corinne McCurley | Governor Mifflin Senior High School |
| MH378 | Javier Robledo- Valencia | Governor Mifflin Senior High School |
| MH381 | Benjamin Walmer | Governor Mifflin Senior High School |

| | | |
|-------|---------------------|-------------------------------------|
| MH382 | John Rouleau | Governor Mifflin Senior High School |
| MH383 | Rachel Johnson | Governor Mifflin Senior High School |
| MH388 | Lauren Leibowitz | Governor Mifflin Senior High School |
| MH404 | Suhana Jagadesan | Governor Mifflin Senior High School |
| MH424 | Callum Smith | Governor Mifflin Senior High School |
| MH430 | Makayla Lagerman | Conrad Weiser HS |
| MH444 | Lindsay Sanger | Wilson High School |
| MH451 | Kylie McGinty | Tulpehocken Junior - Senior High |
| MH453 | Christian Bennethum | Governor Mifflin Senior High School |

Physics

| | | |
|-------|--------------------|----------------------------------|
| PH002 | Megan Grayson | Wilson High School |
| PH035 | Coty Emerich | Tulpehocken Junior - Senior High |
| PH039 | Ryan Thomas | Tulpehocken Junior - Senior High |
| PH042 | Brittany Hartranft | Tulpehocken Junior - Senior High |
| PH065 | Molly Gaffney | Berks Catholic High School |

Physics

| | | |
|-------|--------------------------|-------------------------------------|
| PH073 | Patrick Buerke | Berks Catholic High School |
| PH077 | Luke Andreyo | Berks Catholic High School |
| PH080 | Timothy Stewart | Berks Catholic High School |
| PH081 | Jacob Coralnick | Berks Catholic High School |
| PH092 | Tristan Szymborski-Pratt | Berks Catholic High School |
| PH099 | Kaylin Wittmeyer | Berks Catholic High School |
| PH117 | Lauren Yu | Wilson High School |
| PH121 | Alexis Robinson | The King's Academy |
| PH124 | Jenny Siahmeng | The King's Academy |
| PH133 | Janice Gong | The King's Academy |
| PH143 | Joshua LaManna | Wilson High School |
| PH149 | Kailey McDonald | Wilson High School |
| PH151 | Liam Breslin | Wilson High School |
| PH155 | Emily Steiner | Wilson High School |
| PH163 | Nolan Baldwin | Wilson High School |
| PH167 | Liam Worcheck | Wilson High School |
| PH190 | Tristan Updegraff | Governor Mifflin Senior High School |
| PH198 | Trevor Woolwine | Governor Mifflin Senior High School |
| PH201 | Evan Kraft | Governor Mifflin Senior High School |
| PH207 | Tim Mangan | Governor Mifflin Senior High School |
| PH208 | Joseph Adametz | Governor Mifflin Senior High School |
| PH213 | Micayla Bonargo | Wilson High School |
| PH236 | Joshua Dauberman | Governor Mifflin Senior High School |
| PH258 | Sarah Woronko | Wilson High School |
| PH259 | Hannah McGovern | Wilson High School |
| PH330 | Elijah Horst | Governor Mifflin Senior High School |
| PH357 | Justin Del Vecchio | Governor Mifflin Senior High School |
| PH362 | Maxwell Nelson | Governor Mifflin Senior High School |
| PH365 | Nicholas Davis | Governor Mifflin Senior High School |

| | | |
|-------|-----------------|-------------------------------------|
| PH379 | Benjamin Myers | Governor Mifflin Senior High School |
| PH405 | Puvin Dhurairaj | Wilson High School |
| PH445 | Ethan Davis | Wilson High School |
| PH448 | Alli Weitzel | Wilson High School |

Zoology

| | | |
|-------|------------------|-------------------------------------|
| ZO040 | Rebecca Burns | Tulpehocken Junior - Senior High |
| ZO054 | Patrick Deviney | Berks Catholic High School |
| ZO055 | Ryenne Carroll | Berks Catholic High School |
| ZO056 | Schuyler Osgood | Governor Mifflin Senior High School |
| ZO061 | Edward Cole | Berks Catholic High School |
| ZO131 | Darian Gordon | Tulpehocken Junior - Senior High |
| ZO144 | Jocelyn Powell | Wilson High School |
| ZO203 | Marlin Thomas | Governor Mifflin Senior High School |
| ZO215 | Nicholas Eshbach | Wilson High School |
| ZO235 | Will Kitsch | Governor Mifflin Senior High School |
| ZO298 | Jessica Sinclair | Governor Mifflin Senior High School |
| ZO327 | Jose Poblete | Governor Mifflin Senior High School |
| ZO331 | Jordan Werner | Governor Mifflin Senior High School |

Zoology

| | | |
|-------|------------------|-------------------------------------|
| ZO385 | Trevor Mech | Governor Mifflin Senior High School |
| ZO386 | Lydia Mohn | Governor Mifflin Senior High School |
| ZO401 | Kyle Edelman | Wilson High School |
| ZO403 | Elise Paskowski | Conrad Weiser HS |
| ZO431 | Camille Cowsette | Wilson High School |

Summary of Entries by Category

| | |
|----------------------|------------|
| 6N | 18 |
| 6P | 22 |
| 7N | 46 |
| 7P | 52 |
| 8N | 39 |
| 8P | 39 |
| BO | 30 |
| CH | 39 |
| EN | 10 |
| ES | 11 |
| MC | 5 |
| MH | 73 |
| PH | 38 |
| ZO | 18 |
| Total Entries | 440 |

PAST AWARD WINNERS

- 1953
1 Virgil Ponzoli Central Catholic EarthSpace
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 EarthSpace

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 EarthSpace

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 EarthSpace
 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 | <ul style="list-style-type: none"> 1 Michele Swope Holy Name Botany 2 Christopher Fraley Wilson Math & Computers 3 Heather Shimp Holy Name EarthSpace |
| 1986 | <ul style="list-style-type: none"> 1 David Haile Holy Name Zoology 2 Steven Litvin Wilson Math & Computers 3 Michele Swope Holy Name Physics |
| 1987 | <ul style="list-style-type: none"> 1 Steven Litvin Wilson Physics 2 David Haile Holy Name Zoology 3 Melissa Wall Muhlenberg Chemistry |
| 1988 | <ul style="list-style-type: none"> 1 Steven Litvin Wilson Physics 2 Sharon Pilarski Holy Name Med/Health 3 Anne Wert Daniel Boone EarthSpace |
| 1989 | <ul style="list-style-type: none"> 1 Sharon Pilarski Holy Name Med./Health 2 Michael Thompson Central Catholic Zoology 3 Daniel Cherrie Oley Physics |
| 1990 | <ul style="list-style-type: none"> 1 Lawrence Moore Governor Mifflin Zoology 2 Stephen Kelley Governor Mifflin Physics 3 Theresa Helms Holy Name Med/Health |
| 1991 | <ul style="list-style-type: none"> 1 George Gumbrell Boyertown Physics 2 Lawrence Moore Governor Mifflin Zoology 3 Peter A. Daley Wilson Physics |
| 1992 | <ul style="list-style-type: none"> 1 - Michael Rhoades - Oley 2 - Peter Daley - Wilson 3 - Stephen Kelley - Governor Mifflin |
| 1993 | <ul style="list-style-type: none"> 1 - Michael Rhoads - Oley 2 - Peter Daley - Wilson 3 - Gregory Emkey - Holy Name |
| 1994 | <ul style="list-style-type: none"> 1 - Gregory Emkey - Holy Name 2 - Derek Robinson - Wilson 3 - Nicholas Warischalk - Reading Central Catholic |
| 1995 | <ul style="list-style-type: none"> 1 - Gerry Lee - Wilson 2 - Joshua Himmelberger - Hamburg 3 - Stephen Emkey - Holy Name |
| 1996 | <ul style="list-style-type: none"> 1 - Joshua Himmelberger - Hamburg 2 - Stephen Emkey - Holy Name 3 - Michael Nieman - Oley Valley |
| 1997 | <ul style="list-style-type: none"> 1 - Brett DePoister - Reading Central Catholic 2 - Joshua Himmelberger - Hamburg 3 - Stephen Emkey - Holy Name |
| 1998 | <ul style="list-style-type: none"> 1 - Brett DePoister - Reading Central Catholic 2 - Jesse Belanger - Oley Valley 3 - Kristina Sanford - Wilson |
| 1999 | <ul style="list-style-type: none"> 1 - Jeff Payne - Wilson 2 - Kyle Usbeck - Wilson 3 - Stacey Blanck - Exeter |
| 2000 | <ul style="list-style-type: none"> 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 |

The most common answer students give to why they did a science fair project is “My teacher made me do it”. Along the way a few will learn that they actually like science and engineering. A few more will discover they are good enough to compete with other talented students from around the world. A few win awards at International.

Thank you to the parents, teachers, sponsors, judges, Albright College, Carpenter Technology Corp., and especially the RBSEF staff who once again accomplished one of the best science fairs in the country without a single meeting.

Bob Novak – President – RBSEF, Inc.