

RBSEF, Inc. Presents the 67th Reading-Berks Science And Engineering Fair

Albright College - Reading, PA

Bollman Center

March 18 – 21, 2019

READING-BERKS SCIENCE AND ENGINEERING FAIR

ORGANIZED-1952 Incorporated as RBSEF, Inc. - January 2003

> Hosted By: ALBRIGHT COLLEGE

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 Dr. Carol Mapes, Kutztown University Harrisburg University Reading Eagle The King's Academy Witzel Sound Solutions WorleyParsons

SCHEDULE OF EVENTS

Monday, March 18. 2019

5:00 PM - 8:00 PM PROJECT DISPLAY SETUP

Tuesday, March 19, 2019

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

Wednesday, March 20, 2019

- 9:00 AM 4:00 PM TEACHER-CONDUCTED TOURS FOR SCHOOLS
- 9:00 AM 6:00 PM FAIR OPEN TO PUBLIC
- 7:30 PM AWARDS PROGRAM Albright Chapel

Introductory Remarks

Gregory Przyjemski, President, RBSEF, Inc.

Karen A. Campbell, Ph.D. Acting Provost and Vice President of Academic Affairs Dean of the Faculty P. Kenneth Nase Chair of Biology

Presentation of Awards

Deanna Witzel, RBSEF Fair Director

Thursday, March 21, 2019

12:00 PM - 8:00 PM PUBLIC VIEWING REMOVE ALL PROJECTS

ALL EXHIBITS MUST BE REMOVED BY 8:00 PM

Note: Any unclaimed projects will be disposed of.

FINANCIAL CONTRIBUTORS 2019

<u>\$5,000 Contributor – Principal Sponsor</u>







\$1,500 Contributors - Gold Sponsors

American Geotech Inc.

\$1,000 Contributors - Division Sponsors

Schatz Electric, Inc Tompkins / VIST Bank UGI Utilities, Inc.

\$500 Contributors-Division Co-Sponsors

East Penn Manufacturing Michael and Rose Gerhart Steven Bright WorleyParsons

\$250 Contributors-RBSEF Supporters

JPMS Manufacturing LLC Traffic Planning and Design, Inc.

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

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 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 Phoenix, AZ May 12 – May 17, 2019.

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

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

Honorable mentions will be awarded badges and ribbons.

First through fifth place winners will receive medals.

Champion selected between the top Natural and Physical division and will receive a plaque.

Junior Division students in 1st to 5th place will receive Broadcom Masters awards and invitations to compete in the 2019 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.

ACV Enviro

Two \$75 awards to science fair competitors who best show interest in environmental stewardship and sustainability.

Alliance to the Berks County Dental Society

Awards up to \$150, one each in the Junior and Senior Divisions, for outstanding exhibits in the field of dentistry.

Altrusa International 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 Branch

A \$200 award in the Senior Division, and a \$100 award in the Junior Division, to high ranking girls.

American Geotech

A \$200 award to the winner of the Engineering Division. The Award will be presented after the Senior Division Category Awards are presented. In addition, \$100 each for outstanding projects in Geology, Environment, and Materials.

American Meteorological Society

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

American Psychological Association

A certificate recognizing outstanding research in psychological science under the category of behavioral and social sciences or any category related to 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.

Apparatus

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, 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 ribbon and certificate recognizing the winner of the best materials engineering project.

Assistive Technology Committee

\$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 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."

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 Nature Society

A \$100 award in the Junior Division, and a \$100 award in the Senior Division for best projects exhibiting understanding and knowledge of the importance of clean water in our streams and drinking water supplies.

Berks Western Telecom, Inc.

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

Berk-Tek

Joe Boscov Award. A \$250 award each in the Senior and Junior Divisions for projects demonstrating outstanding achievement in the fields of Electrical, Mechanical or Chemical Engineering and for advancing these engineering disciplines.

Brenntag Northeast, Inc.

A \$300 and a \$200 award in the Senior Division for outstanding achievement in the field of chemistry and for advancing the chemical profession through connecting chemistry.

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 to Muhlenberg School District students for the most engaging and creative model or backboard that convey a clear understanding of their chosen topics.

Conrad Wiser Lions Club

\$25 each to two Conrad Weiser High School and two 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 Divisions to a student from a parochial school.

East Penn Manufacturing Co.

Awards of \$100, one each in the Junior and Senior Divisions, for outstanding projects dealing with batteries or energy storage.

Element Environmental Solutions

The following four awards are for projects that conveyed a clear understanding of the chosen topics, were enlightening, used good scientific method and were just plain FUN to judge.

\$50 Award for the Junior Division - Natural Science

\$50 Award for the Junior Division - Physical Science

- \$100 Award for the Senior Division Botany, Zoology and any topic in the other classes that apply to more Natural Sciences
- \$100 Award for the Senior Division Chemistry, Earth/Space Sciences, Engineering,

Medicine/Health and any topic in the other classes that apply to more Physical Sciences

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.

Frank Herron Memorial 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 to 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 5) innovation. The students advance to the international competition at SUNY Oswego.

Hamburg Grange #2103

A \$100 Award and Certificate for an outstanding Junior or Senior Division project related to agriculture.

Intel Excellence in Computer Science

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

Lehigh Valley Chapter of the American Chemical Society

A \$100 award to the winner of the Chemistry Division. The award will be presented after the Senior Division category awards are presented.

Lemelson Early Inventor Prize

Awarded to one project of a middle school student that meets the following requirements:

- 1- Identifies problem-solving by identifying a critical problem.
- 2- Applies empathy and STEM knowledge to find a practical solution.
- 3- Displays entrepreneurial thinking by developing a tangible invention.
- 4- Develops an invention to solve a critical societal problem and improve the lives of others.
- 5- Ideally exemplifies environmentally-responsible thinking in their research and creation of the product.

Mµ Alpha Theta

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

Mohnton - Cumru Lions Club

A \$100 award to a Governor Mifflin student in the Senior Division and a \$100 award to a Governor Mifflin student in the Junior Division whose project best show application to supporting community.

NASA Earth System Science

Certificate presented to the student whose project offers the greatest insight into the earth's interconnected systems.

National Oceanic and Atmospheric Administration (NOAA)

"Taking the Pulse of the Planet" Award; A certificate awarded to one Senior Division and one Junior Division 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."

Office of Naval Research

A certificate of achievement and a medallion to students with outstanding exhibits. Senior division projects will also receive a certificate to redeem for a \$50 gift card.

Penn State Berks Continuing Education, Summer Camps

Penn State Berks, STEM Summer Camps

Middle School Camp, for students entering 5th - 8th grades fall of 2019.

One week of camp will be awarded for the following camps, note there is no cash value and no substitutions:

- Movie Making-Storylines & iMovies, June 17-21
- Science of Technology Camp, June 24-28
- Robo Camp, Where Minds Meet Technology, June 24-28
- Engineering for Generation Z Camp, July 15-19
- Jr. Nittany Criminal Investigative Service Camp, July 15-19
- Full STEAM Ahead: Building An Idea into an Invention Camp, July 22-26
- Problem Solvers of Tomorrow Camp, July 22-26
- Body Systems Escape Room Camp, July 29-August 2

High school Camp, for students entering 9th- 12th grades, in the fall of 2019.

One week of camp will be awarded for the following commuter camps, note there is no cash value, no substitutions.

- · Computer and Cyber Security Camp
- Engineering Camp
- Forensic Science Camp
- Science of Location Camp
- Special Investigations Camp

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 the best use of data and statistics.

Project Excellence - Przyjemski Family

\$100 award to Senior and \$50 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.

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 Education Association

Awards up to \$150 to students in the RSD with projects demonstrating an understanding of the scientific method.

Reading Fightin Phils

Award of 6 General Admission Tickets for any 2019 regular season home game to the project that best incorporates sports.

Ricoh Americas Corporation

Certificate presented to the student whose research has demonstrated the principles and technical innovations that offer the greatest potential for sustainable development.

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. Also a \$100 award in the Junior Division 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.

Stockholm Junior Water Prize

Three Regional Certificates to those high school students with the best water-related projects.

Tower Health System

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

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.

Witzel Sound Solutions

One (1) \$75 Junior Division prize and one (1) \$75 Senior Division prize for the most unique project applying sound/audio concepts (e.g. sound waves, sound pressure, sound production, sound engineering).

Yale Science and Engineering Association

Certificate and Medallion to the most outstanding exhibit in Computer Science, Engineering, Physics, or Chemistry.

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 67-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.

RBSEF Board of Directors

2019 SPECIAL AWARDS' JUDGES

ACV Enviro Sharon Thomas Alliance to Berks County Dental Society Jenny Zehner **Debbie Auchter** American Association of University Women, Reading Branch Margaret Fuoco Apparatus Dr. William Heffner Assistive Technology Committee Henry Ansell **Berks County Conservation District** Brian Shields and Jeff Overstreet Berks County Dental Society Dr. Laura Snyder Berks County Medical Society Dr. Eve Kimbal Berks Western Telecom Gary Moulder Conrad Weiser Lions Club Michael Gerhart East Penn Manufacturing Jesse Murphy Element Environmental Solutions Robert A. Pfromm Entech Engineering Pending Fraternal Order of Police, Lodge #9, of the City of Reading **RPD Crime Scene Unit Members** Hamburg Grange #2103 Wayne Campbell Lynn Dietrich

Mohnton - Cumru Lions Club Greg Przyjemski Project Excellence Greg & Cathy Przyjemski Reading Education Association Michele Ehrhart Fred Schlick Scoboria Family Awards Dr. Preston Scoboria Stockholm Junior Water Prize AJ Wilson June Bodnar James Brady Jerry Haimowitz

RBSEF Volenteer Special Award Judges:

Joe Brendlen Brian Buerke Peggy Condon-Vance Bert Eardly Sqt Keith Frantz Elizabeth Kennedy Tom Gavigan **Rose Gerhart** Michael Gerhart Jerry Haimowitz Suhana Jagadesan Dr. Tom Kruksick Dean Miller Craig Nagler Lisa Peterson Karl Peterson Robert A Pfromm Off. Wilfredo Ramirez Lt. Kyle Rentschler Mark Smith Dr. Praveen Veerabhadrappa AJ Wilson

CATEGORY EXHIBITS

DIVISION SENIOR - 9th - 12th Grades	CLASSIFICATION Behavioral and Social Sciences	<u>CODE</u> BS
SENIOR - 911 - 1211 Glades	Botany	BO
	Chemistry	CH
	Earth and Environment	EE
	Engineering	EN
	Mathematics/Computers	MC
	Medicine/Health	MH
	Physics and Astronomy	PA
	Zoology	ZO
JUNIOR - 6th - 8th Grades	Natural Science Physical Science	6N, 7N, 8N 6P, 7P, 8P

CATEGORY EXHIBITS LISTED BY SCHOOL

Antietam Middle-Senior High School

Student	Title	<u>Exhibit #</u>
Coller, Nathaniel	Cabbage Chemistry	7P512
Haas, Autumn	What Drink Stains Human Teeth the Most?	7P515
Hopkins, Naomi	Protecting Hair with Argan Oil and Heat Protectant	7P511
Miller, Austin	Metal, Rust, Soda?	7P516
Storms, Caelyn	Temper, Temper, Temper	7P514

Berks Catholic High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Atkins, Abigail	Concentration of Silver Nanoparticles Most Effective at Inhibiting Bacterial Growth	MH155
Avadanian, Jillian	Dirty Devices	MH383
Buerke, Katherine	Which Form of Biomass Produces More Biogas?	EE080
Emrich, Russell	Treatment of Saccharomyces Cerevisiae with Antifungal Medication	MH105
Femino, Gabby	Botany Battle: Hydroponics Vs. Soil	BO456
Fontana, Gabriella	The Effect of The Ph Of Water on The Height of Plants	BO469
Fries, Eliza	How Clean Are the Streams?	EE158
Frisina, Mariella	Germs on the Run	MH398
Gabriel, Kathryn	Accuracy of Statistical Samples	MC085
Gundersen, Connor	Can Mealworms Dispose of Plastic?	EE348
Hatcher, Megan	Is Algae the Energy Source of The Future?	EE061
Helstrom, Mollie	Comparing Soil Fertility Levels Collected from Different Orchards and Vineyards	EE372
Hyneman, Lucas	Vinegar-Based Herbicides vs. Roundup	EE500
Irey, Drew	Music Taste and You're Personality	BS166
Jung, Hyein	Surface Tension of Different Liquids	CH462
Kraycik, Andela	Hydroponics Versus Soil	BO375
Kurtas, Gabriella	Is All Drinking Water the Same?	CH168
Mirabella, Annaka	Does White Noise Affect Memory?	BS160
Moody, Emma	What Laundry Detergent Has the Strongest Enzymes?	CH074

Partsch, MacKenzie	The Last Straw	EN397
Pickard, Kierra	Blood Sugar Values in Mcadd Subject Vs. Controls	MH165
Piersol, Madeleine	The Effect of Meditation on Heart Rate and Emotional Intelligence	BS442
Piskorski, Thea	Developing a New, Improved Cold/Heat Pack	CH371
Silver, Robert	Plant It! Co2 or Not?	BO118
Vance, Megan	How Does the Locomotive System of The Horse Affect the Estimated Stride Length	n? ZO451
Walker, Joseph	Using a Robot to Simulate How Topography Impacts Tornado Intensity	PA487

Conrad Weiser HS <u>Title</u>

<u>Student</u>

Exhibit #

Student		
Borrell, Brea	Comparison of Tau Protein Expression by Gender: A Drosophila Model	MH004
Brosious, Isabella	Analysis of Cardiomyocytes Coupled with Polymer Constructs And Bioactive Glass	MH012
Carneal, Allison	A Study of the Effects of Chemicals on Algae	EE482
Chibirka, Ellie	Comparison of Withania somnifera and Fluoxetine on C. elegans Behavior	MH505
Clemens, Cameron	Ihc Staining for Identifying Degenerative Cerebral Proteins	MH403
Coleman, Therese	Impacting Water and Soil Retention in Pots with Draining Device	BO486
Donatelli, Mackenzie	Caloric Intake and Output with Fitbit	MH513
Finogle, Hayley	Making EquesHelmets More Effective In Reducing Concussive Forces By Using Closed	EN008
Fox, Madeline	Adolescent Heart Rate Data Analysis: Fitbit Applications	MH377
Guevara, Sarah	Drug and Alcohol Use in Berks County: A Bioinformatic Meta-analysis	BS082
Haynes, Journee	Reducing Skin Infections using Sharklet	MH490
Horack, Erin	Plant Concentrations Influencing Lycorma Delicatula Feeding Habitats	BO420
Johnson, Emily	Adolescent Sleep Data Analysis	MH418
Keeney, Ireland	Prevalence of Lyme Disease Pathogen Borrelia Burgdorferi	MH468
Kefeni, Emnet	An Analysis of the Proliferation of Macrophage Cells when Induced with Sbg	MH010
Kesselring, Rachel	Screening Outcomes of Adolescents Requiring Cardiovascular Follow-Up Testing	MH002
Kimmel, Victoria	Volume and Height Specific Blood Splatter Analysis; Advancing Traditional Methods	BS005
Lall, Sofia	Plastic Microfibers in Our Drinking Water	EE075
Lam, Kimberly	Utilizing Aloe Vera As Antimicrobial Agent Against Escherichia Coli	BO477
Lasher, Ethan	Developing a Biodegradable Smartphone and Accessories	EN001
Lewis, Janay	Therapeutic Animal Behavior Analysis	BS426
Madsen, Julia	Bioactive Glass on Drosophila Melanogaster Appendage Injury	ZO491
McClellan, Joel	Epileptic Seizure Detection from Menthone In Volatile Organic Compounds	CH007
Mendez, Mariah	Analysis of Neural Regeneration When Integrated with Bioactive Glass	MH013
Monroe, Hayeigh	Plastic Microfiber Degradation From 3D Printed Horticulture Devices	EE390
Moyer, Brady	Stem and Primary Cell Line Culture of Lycorma Delicatula	ZO441
Pauley, Efstratia	Fabrication of Organically-based Glass for Pennsylvania Poultry Waste Crisis	EN517
Remp, Gavin	"Gulf War Syndrome" and Its Causes	MH047
Richards, Natalie	Quercus Rubra Extract Inhibits Bacterial Proliferation	EE102
Savoy, William	Exposure of Drosophila to Nitrogenous Atmospheric Conditions Mimicking Exoplanetary	PA006
Schultz, Hannah	Autonomic Dysfunction During Migraine Aura with Fitbit Technology	MH003
Seidel, Madison	New Line Identification Discovered Through Knee Inking System; In-Field Forensic	BS009
Truong, Thomas	Virtual Reality Application Design for Medical Education	MC014
Vida, Laurel	Crispr Cas9 Technology in C2 Complement Deficiency Treatment: A Preliminary Study	MH011
Wagner, Christiana	A Study of Drosophila Imaginal Disc Cells and Bioactive Glass	ZO492
Werth, Selia	The Ability of Manuka Honey and Sodium Bicarbonate to Reduce Cancer Cells	MH466
Wright, Hannah	Bone Morphogenetic Protein 2 Expression In Equus Caballus Osteocytes	EN015

Conrad Weiser Middle School

<u>Student</u>	Title	Exhibit #
Althouse, Alaina	Can Aloe Juice Save Berries from Mold?	8N126
Arnold, Samuel	Effects of Liquids on Plant Growth	6N321
Arnold, James	How to Shoot the Best Foul Shot Hand Form	6N382
Beuca, Jeremiah	Testing Temperature of Batteries	6P364
Bond, Emily	Which Type of Soil Will Grow Plants the Best and Healthiest?	8N127
Bridgman, Kash	Paper Burning Rate: Regular vs. Recycled	7P484
Britton, Courtney	Do Organic Oranges Have More Vitamin C Than Non-Organic Oranges?	7N336
Callahan, Sage	The Effect of Yeast Type on the Rising of Bread	7P229
Chestnut, Emily	The Effect of Air Pressure the Distance a Soccer Ball Travels	6P356
Clabaugh, Colin	Will a Mini Fan Run Longer on Solar or Battery Power?	8P485
Dalesandro, Anna	What Cleaning Product Takes Away the Most Bacteria?	8N053
DeRose, Ryan	Duration for Color Transfer in a White Flower	6N367
Dianna, Trey	Testing the 5 Second Rule	8N088
Dreibelbis, Brandon	How Do Sound Waves Affect a Fire?	8P139
Fabien, Cedric	Powdered Soap or Liquid Soap: What to Use?	6P416
Feliciano, Gisselle	Effects of Liquids on Plant Growth	6N363
Fernandez, Giannah	What Type of Fruit Attracts the Most Fruit Flies?	7N394
Frantz, Abigail	The Effect of Bat Speed on Hitting Distance	7P376
Fraser, Hannah	Get the Stain Out!	6P412
Gechter, Mason	The Ice Cube Melting Lab	6N473
Giffing, Alaina	What's the Pointe?	6P341
Gilfert, Breanna	What Bag Disintegrates the Fastest Paper, Plastic or Reusable Bags?	8N131
Gilmer, Ethan	Tensile Strength of Tapes	6P413
Given, Aislin	How Does Caffeine Effect the Heart Rate of Daphnia?	7N396
Goodwin, Alayna	Which Soda Keeps Its Carbonation the Longest	6P358
Gorney, Raymond	Does Music Evoke Different Feelings?	7P400
Gorski, Aidyn	The Best Basketball Free Throw Stance	6P313
Grabosky, Lauren	What's in Water?	6N415
Gravitt, Emily	What Effect Do Magnets Have on The Growth of A Plant?	8N378
Hancik, Talula	Kool-Aid And You	6P309
Heidel, Xander	How Does the Temperature of a Cell Affect Its Growth	7N391
Hoffa, Alyson	Is Burning Trash an Effective Alternative to Landfills?	8P133
Houck, Emma	What Type of Mouthwash Helps Prevent the Growth of Bacteria the Best?	8N056
Hoyt, Jacob	Discovering Which Soil Plants Grow Best In	8N435
Katzaman, Rachel	What's Poppin'	6P410
Kauffman, James	How Does Voltage Affect the Rpms of a Brushless Dc Motor?	8P157
Kesselring, Lisa	The Relations Between Organic and Non-Organic Sugar Content	7N407
Kiebach, Ashton	Does the Weight of a Paper Airplane Affect Its Distance Traveled?	6P408
Klopp, Jarryd	The Effect of Ball Size on Kicked Ball Velocity	7P350
Knepper, Molly	How Do Ph Levels Affect the Growth of Mold?	8N051
Kreiser, Abriana	Which Paper Towel Brand Is the Strongest?	8P373
Kuennen, Renee	Apples to Apples	8N120
Leopold, Jack	Decreasing Bacteria with Gum	6N409
Leopold, Luke	Which Flavor of Gum Lasts the Longest?	8N055
Line, Evan	Which Cup Keeps Your Drinks Cool the Longest?	8P121
Malik, Armaan	Which Soda Has the Longest Lasting Carbonation?	6P360

Malone, Alex	Does the Mass of An Arrow Affect the Distance It Travels?	6P311
Malone, Leah	What Herb Kills the Most Bacteria?	8N050
	Weeding Out the Lanternfly	6N335
Mason, Kyra	What Drink Stains Teeth Most?	6P312
Matthew, Kayla	How Do Cells Change When Antioxidants Are Added?	8N137
McCollum, Brylee	The Effect of Senses on Accuracy in Soccer When Shooting	7P332
McFadden, Jocelyn	Will Hydroponics Improve Growth of Plants Rather Than Soil?	8N054
McGonigle, Emily	The Effect of Ph On Plant Growth.	7N164
McGonigle, Amber	Which Brand of Candle Burns the Slowest?	8P141
McMahon, Gracie	The Effect of Soda on Tooth Decay	7N226
McNutt, Ryan	Burning Best for BTUs	8N148
Metzger, Ariel	What Drink Stains Your Teeth the Darkest; Coffee, Tea, Or Coca-Cola?	6P349
Miller, Noah	Determining Protein Concentration in Reptile Feeder Insects Using Spectrophotometry	7N259
Miller, Hailey	The Use of Electricity on Plants	8N060
Mock, Elliot	The Process of Molding with Hamburger Buns	7N405
Murphy, Katelyn	Are Green Apples More Acidic Than Red Apples?	8N084
Noll, Adam	How Do Energy Drinks Affect Plant Growth?	8N058
Nye, Kathryn	The Effect of Baking Soda Brand on Cookie Size	7P228
Oliver, Nevahn	What Liquid Rusts Metal the Quickest?	6P315
Paff, MIrabela	The Effects of Lubrication on Various Axle Types	7P406
Pedraza, Kayla	Which Food Consistencies Collect More Bacteria?	8N339
Peers, Leslieann	The Effect of Bioactive Glass Used to Heal Interferon Gamma.	8P128
Perrine, Kayleigh	How Does Temperature Affect the Height a Tennis Ball Bounce?	6P423
Preston, Lindsey	Its Better to Be Safe Than Sorry	8N140
Ramberger, Shaelyn	The Effect of Apple Juice on the Absorbency of Paper Towels	6P414
Raynes, Kathryn	Stains, Stains Go Away	6P433
Reeser, Emma	Effect of Liquid Nicotine on Dictyostelium Discoideum	8N087
Ressler, Sam	How Does Strength and Grain Structure Change in High Carbon Steel?	8P136
Rex, Ethan	What Is the Best Method for Growing Plants Efficiently?	8N343
Rice, Holden	Re-Inventing the Wheel	8P052
Rivera, Tristan	Magnetic Levitation	8P057
Robinson, Abby	How Does Temperature Affect Battery Life	8P129
Rothermel, Adyson	Testing What Antibacterial Soaps Clean the Best	6P357
Ruth, Evan	Does Artificial Light Affect Plant Growth?	8N142
Ruth, Aidan	Does the Salinity Amount Effect the Freezing Point of Liquids?	8P134
Sabold, Owen	Which Type of Vacuum Insulated Cup Is Best at Keeping Ice from Melting?	8P123
Savage, Jada	Do Different Types of Fertilizer Affect the Growth of Tomato Plants?	8N143
Schiding, Tessa	Greener Than Grass	8N059
Schoener, Mackenzie	Which Ice Melting Product Melts Ice in The Shortest Amount of Time?	8P144
Seidel, Julia	Does Ultra Violet Rays Effect Bacterial Growth?	8N048
Sena, Kaiden	How Soil Types Effect Fossilization?	7N402
Shade, Madeline	The Effect of Different Colored Lights on Plant Height	6N337
Shannon, Paige	Changes in Protein Levels in a Drosophila When Concussed	8P138
Shimp, Charlie	Lady Bug Vs Fruit-Based Liquid Lab	6N316
Skipper, Blake	The Effect of Temperature on Bpm	7P399
Smith, Reed	Antacid Science Fair	8P132
Snyder, Brady	Ballistic Penetration	8P016
Snyder, Alex	Hydraulic Lift Lab	8P017

Source Dilou	Food Doopy Poten in Different Storage Meterials	CN 220
Sowers, Riley	Food Decay Rates in Different Storage Materials	6N330
Stein, Andrew	The Effect of Rust on Different Metals	7P404
Steiner, Eva	How Does Agrobacterium Tumefaciens Effect the Growth of Tomato Plants?	8N125
Stoltz, Elliana	Which Cheese Grows Mold the Fastest	8N135
Trevena, Alex	Which Baseball Bat Is Worth It's Price?	6P314
Tulli, Alexander	How Do Different Acids Affect the Rate of Corrosion?	8P049
Weber, Abigail	Which Food Storage Method Keeps Produce the Best	8N081
Weik, Jadyn	Is Brand Name Conditioner Worth the Extra Money?	8P114
Werner, Caleb	Which Type of Wood Is Harder to Break?	8P083
West, Aaron	How a Windmill Works	6P417
Wiggins, Isabel	The Effect of Vinegar, Distilled Purified Water, and Rubbing Alcohol on a Been Se	ed 7N392
Wiggins, Maritza	Which Desalination Process Removes Salts and Minerals Out of Seawater the Be	st?8P124
Yazemboski, Eric	What Are the Ph Effects of Liquid Electrolytes on Voltage in a Wet Cell Voltaic Battery?	7P395
Yonavick, Tyler	Rolling Balls at Different Temperatures Lab	6P340
Yonavick, Andrew	Does the Size of a Parachute Affect Its Time in the Air?	8P122
Zerbe, Kaitlyn	Can Red Cabbage Water Show Which Food Has the Most Acid?	6N422

Governor Mifflin Middle School

<u>Student</u>	Title	Exhibit #
Assemes, Aiden	Testing for Lead in Drinking Water	8N089
Borrilez, Jazmyn	The Study of Skin Tone Bias Throughout Generations	8N086
DeLoretta, Sara	The Effect Different Kinds of Music Has on the Growth of Plants	7N249
Detwiler, Brady	How Placebo and Nocebo Effect Affect People Taste Food	8N113
Friedlander, Ellie	Do Cats Have Dominant Paws?	8N150
Hickey, Clayton	What Is Required for an Image Classifier Ai To Generate A Human-Grade Bitmap?	8P149
Klahr, Emma	Leaky Clues to Dam Design	7P252
Koller, Logan	What Material Blocks Sound the Best?	8P498
Moyer, Paisley	Will You Cheat?	7N342
Rosenbaum, Jillian	The Effect a Swim Cap Has on Your Time	7P286
Stuckert, Carlisle	Drag Racing in Water	7P231

Governor Mifflin Senior High School

Student	Title	Exhibit #
Addis, Andria	The Effect of Golf Club Loft Angles on the Distance the Ball Travels	PA295
Amrani, Elyias	The Effect of Soda on Cut Flowers	BO306
Anders, Caleb	The Effect That Different Pesticides Have on Spinach Plants	BO474
Arevalo, Lilith	Hearing a Human	MH305
Armour, Ian	Can Magnets Be Positioned to Generate Free Energy?	PA236
Beahm, Daniel	The Effects of Road Salt Runoff on the Conductivity of Rabbit Run	CH242
Beilhart, Mia	The Effect of Weight of a Lacrosse Shaft on the Speed of a Shot	PA304
Bentz, Faith	The Effect of Physical Activity on Memory	MH265
Beyer, David	The Effect of Water Depth on Plant Root Growth	BO297
Bickham, Jasmin	The Effect of Chewing Gum on Retention	BS288
Blandford, Caden	The Effect of Temperature on Calories Burned	MH185
Boggs, Maggie	The Effect of Different Electronics and the Amounts of Radiation Emitted	MH183
Boguslowski, Valerie	The Effect of Plant Food on Cut Flowers	BO301
Bonfitto, Lillian	The Study of Aquaponics and Its Effect On Lettuce	BO308

Drupper Michael	Daga Sail Filter Out Dagk Salt in Water	CH294
Brunner, Michael	Does Soil Filter Out Rock Salt in Water	CH294 MH361
Burgos, Kyli Byrd, Emily	The Effect of Gender on Short-Term Memory The Effect of Dissolved Oxygen on Organisms Living in a Stream	EE182
Carl, Renee	The Effect of Different Sugars Being Injected into Radish Plants	BO291
	The Effect of Different Materials on Artificial Intelligence	MC264
Carter, Liya	5	BS192
Coleman, James	The Effects of the Education System on High School Students with Mental Illness	
Collins, Sabryna	The Effect of Different Shades of Honey on Bacterial Growth	MH352
Costello, Cormick	The Effect of Different Plant Cuttings on The Growth of Radish Clones	BO232
Coutz, Caden	The Effect of Weight on I-Beam Integrity	EN225
Coutz, Madeline	The Effect of Gender on Synesthesia Awareness	MH299
Creelman, Karyn	The Effect of Time on Retention on Information	BS194
Cullen, Alexander	The Effect of Different Coverings on Ultraviolet Light	PA239 PA247
Cullen, Samuel	The Effect of Insulation on Noise Pollution	
DeLoretta, Paige	The Exploration of Purification and Filtration of Pond Water	CH237
Dorman, Faye	Cultural Eutrophication	CH362
Engle, Jacob	The Effect of Weight Distribution on the Speed of an Object	PA214
Engle, Cory	Effects of Aerodynamics on Different Shapes.	PA293
Enriquez, Eliza	The Effect of Smell on Food Preferences	MH310
Erb, Liliana	The Effect of Wind Turbine Blade Structure on Amount of Voltage Produced	EN210
Ermold, Annika	The Effect of Sleep on Reaction Times	MH234
Ernst, Colin	The Effect of Microwave Radiation on Plant Growth	BO215
Ernst, Zoey	The Effect of Predator on Betta Fish Reaction	ZO221
Fasig, Serenity	The Effect of Enzymes on Stains' Circumference	CH196
Fiore, Elisa	The Effect of Breakfast on Test Scores	MH217
Foster, Grace	The Effect of Nitrogen And Phosphorus on Bodies of Water	EE268
Gallen, Will	The Effect of Yeast on The Increase in Size And Elasticity of Dough Over Time	CH179
Gerhard, Ben	The Effect of Natural Fertilizers on Philodendron Plants	BO175
Gilbert, Gia	The Effect of Age on Distance of Retinal Blind Spots	MH193
Gockley, Emma	The Effect of Language Implementation on Correct Language Attainment	BS355
Goll, Jacquelyn	The Effect of an Array of a Solar Panel on the Amount of Energy Produced	EN220
Gonzalez, Selina	The Effect of Chapstick on Human Lips	MH243
Greusel, Evan	The Effect of Yeast on Wisconsin Fast Plants	BO223
Griffith, Madison	The Effect of Relaxation Methods on Sleeping	MH365
Grosch, Jocelyn	The Effect of Ph Levels on the Calcium in Chicken Bones	MH184
Hazlett, Callum	The Effect of the Delaware Bay on Kelp Growth	BO263
Heiser, Christina	Does Your Gender Affect the Way You Perceive Images?	MH245
Hill, Austin	The Effect of Hockey Stick Materials on How Fast the Puck Is Shot	PA307
Hipszer, Mya	The Effect of Light on Glow in the Dark Paint	CH275
Hivner, Caleb	The Effect of Thermal Imaging Radiation on Different Surfaces	PA224
Holcomb, Abigail	The Effect of Caffeine on Daphnia Heart Rate	ZO206
Huber, Wyatt	The Effect of Charge and Discharge Times on Energy Storage Systems	CH208
Hubric, Ella	The Effect of Flexibility on Athletic and Non-Athletic People	MH292
Kapoor, Aaryan	The Effect of Video Games on Reaction Time	MH276
Ketz, Cassidy	The Effect of Stain Removers on Fabric Stains	CH230
Klein, Ryan	The Effect of Age on Outfit Preference Related to Approach-Ability	MH233
Kohl, Dylan	The Effect of Different Wrestling Moves on Impact Levels	MH290
Kriebel, Griffin	Effects of Carbon in Plant Soil	BO303
Krzyzanowski, Jordyn	The Effect of Light Color on The Quantity of Paper White Flowers	BO296
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Kuazala Nicolaa	The Effect of Different Axle Lubricants on the Travel Distance of a Matchbox Car	PA285
Kuczala, Nicolas		CH181
Kuriger, Carly Kwiatkowski, Mya	The Detrimental Effects of Acidity and Sugar on Teeth The Effect of Gender on Peripheral Vision Range	MH287
LaBelle, Madison	How Does Diet Affect the Ph Levels in Your Saliva?	MH298
Leaman, Nathan	The Effect of Bat Material on Exit Velocity	PA178
Lockard, Naomi	The Effective of The Human Voice on Time and Direction	BS270
Magdalinski, Mason	The Effect of Different Ph(S) On Gear Efficiency	PA213
Maiers, Mandy	The Effect of Tuning on Heart Rate	MH176
Maples, Alaina	The Effect of Smell on Taste	MH261
May, Reiley	The Effect of The Type of Orange Juice on Vitamin C Concentration	CH173
Melcher, Mackenzie	The Effect of The Concentration of Co2 on the Rate of Photosynthesis	EE174
Michel, Jillian	Using Compostable Materials in Fast Food Restaurants Will Reduce the Impact on Landfills	EE272
Miller, Aubrey	The Effect of Aloe and Vinegar on Strawberries	EE211
Mitchell, Danny	How the Environment Affects Battery Life.	CH289
Mock, Brooke	The Effect of Perception of Taste on Plating Techniques	BS278
Mollica, Stella	The Effect of Stretching on Active Performance	MH190
Morales, Christian	The Effect of Temperature on Conductivity	PA188
Morgalo, Isabella	The Effect of Frequencies on Plant Growth	BO222
Mountz, Logan	The Effect of Upbeat and Slow Rhythms on Memory	MH359
Musser, James	The Effect of Temperature on Tennis Ball Bounce Height	PA273
Myers, Lilly	The Effect of Hugs on Heart Rate	BS216
Opalko, Angela	The Effect of Hydroponics on Spinach Plant Growth	BO279
Oplinger, Hannah	The Effect of Guided Meditation on Heart Rate and Blood Pressure	MH274
Osiris, Suntaya	The Effect of Water on the Absorbency of Paper Towels	CH219
Otu, Sherrise	The Effect of Bismuth Concentration on the Differentiation Between Antacid Products	MH189
Owens, Alexa	The Effect of Aspirin on Plant Growth	BO209
Palange, Hannah	The Effect of Microwave Radiation on Basil Growth	BO260
Patel, Jeel	The Effect of Food Consistency on Blood Glucose Levels	MH212
Pawling, Justin	The Effect of Different Solutions on Colored Markers.	CH240
Petricoin, Joseph	The Effect of Temperature on Perspiration Time	MH186
Portillo, Leslie	The Effect of Music on Concentration	MH218
Quinn, Cassidy	The Effect of Note Taking Techniques on Memorization	MH266
Ramirez, Helena	The Effect of Color on Memory Retention	MH280
Reynolds, Amanda	The Effect of Plant Type on Water Filtration	BO187
Rivera, Kayla	The Effect of Temperature on the Reproduction of Planaria Worms	ZO241
-	r The Effects Of Different Solutions on Stink Bugs	ZO227
-	The Effect of Oil on the Fat Content in French Fries	CH267
Rowe, Lauren	The Effect of Wind on Plant Structure.	EE207
Ruth, Kylie	The Effect of Whitening Toothpaste on Stained Tiles	MH235
Santiesteban, Emilio	The Boiling Point of Different Water	CH300
Schultz, Cassidy	Is the Capacity of Your Memory Affected by Your Age?	MH246
Shamus, Shelby	The Effect of Caffeine on People	MH177
Sharicata Hernandez	, The Effect of Plants on Music/Vibration	EE277
Smith, Emily	The Effect of Hours of Sleep On Alertness/Reaction Time	MH351
Stabolepszy, Tedd	The Effect of Tuning Forks On Heart Rate and Blood Pressure	MH411
	eThe Effect of Compost on the Growth of Basil	BO271
Stauffer, Eliza	The Effect of Solutions on Fruit Fly Mortality	ZO327
Steckiel, Abby	The Effect of Anti-Fungal Agents on Yeast	MH191
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The Effect of Salt on the Conductivity of Water.	CH238
The Effect of Drinks on Tooth Decay	MH269
The Effect of Weight on Bridges	EN180
The Effect of Potatoes on Energy	PA262
The Effect of Nitrogen on Plant Growth	BO354
The Effect of Temperature on the Strength Of Wooden Beam Bridges	EN388
Temperature of Muscles on Speed of Running	MH244
The Effect of Water Turbidity on Water Temperature	EE172
The Effect of Visualization on Foul Shot Rates	BS195
The Effect of Height on Wind Speed	PA302
	The Effect of Drinks on Tooth Decay The Effect of Weight on Bridges The Effect of Potatoes on Energy The Effect of Nitrogen on Plant Growth The Effect of Temperature on the Strength Of Wooden Beam Bridges Temperature of Muscles on Speed of Running The Effect of Water Turbidity on Water Temperature The Effect of Visualization on Foul Shot Rates

Holy Guardian Angels

Student	Title	<u>Exhibit #</u>
Askey, Stephen	How Well Do House Plant Work at Purifying the Air?	8N112
Brenner, Luke	Are Spotted Lanternflies Attracted to Certain Colors	8N119
Christ, Helena	What's the Fizz Factor?	7P146
Coccia, Alyssa	Cleaning Products: Environmentally Friendly Vs. Store Bought	8P094
Emrich, Marli	Does Altering a Composite Softball Bat Provide an Increase in Exit Velocity of a Softball?	7P104
Esterly, Madison	Do Storm Drains Really Work?	8P145
Gattone, Sophia	Is Frequency the Voice of the Universe?	8P147
Hall, Sean	How to Reduce Friction	7P101
Holland, Samantha	Chemical Vs. Organic Fertilizer	7N096
Holland, Sara	Which Breads Mold the Fastest?	7N097
Jarombek, Klaudia	Which Water Source Has the Most Acidity and Which Water Has the Most Water?	7N117
Jimenez, Aryelle	Can Aloe Vera Juice Save Your Strawberries from Mold	7N093
Jones, Olivia	Do Blood Droplets Change at Different Heights?	7P103
Kroenig, Brian	Does Temperature Effect the Rate of Water Absorption in Plants?	8N151
Mejia, Jazmin	Does Greywater Have A Positive or Negative Effect on Plant Growth?	8N100
Murphy, Riley	Which Brand of Children's Flame Resistant Pajamas Is Most Effective?	8P169
Nied, Hannah	Are Fingerprint Patterns Inherited?	8N091
Prechtl, Regan	How Shape Affects Aerodynamic Drag	7P095
Reddy, Bryleigh	Exploring the Effects of Ph on Lead Testing	8P099
Rosa, Olivia	Do Suds Matter?	8P156
Rosa, Noah	Keep It Cool	8P167
Sabatucci, Abigail	Are All Red Flower Pigments the Same?	8P092
Sands, Grace	What Kind of Cheese Grows Mold the Fastest?	7N111

Home School

Student	Title	Exhibit #
Yoder, Aubree	The Reduction of Waste Through Vermicomposting	8N098

Immaculate Conception Academy

Student	Title	<u>Exhibit #</u>
Adams, Rebecca	It's Been A While Can You Remember?	8n453
Bailey, Caitlyn	Tea Light Heating Challenge: Redefined	7P438
Dolena, Charlotte	Aspirin and Plant Growth	7N450

Forkin, Rachel	Dogs:Yuk or Yum?	7N436
Jordan, Luke	Creative Catapults	6P449
Jordan, Zachary	Concussed Cantaloupes	8P455
Kelly, Avery	Testing Blue	8N488
Kurtas, Andrew	Hydroelectricity	8P445
Petras, R.J.	Plant Growth	6N489
Pike, Paul	A Study on Burning Firewood	6P447
Repko, Anthony	Yahtzee Probability	7P440
Schaffer, Sasha	Sugar in Soda	6P448
Schlegel, Daniel	What Broadhead Penetrates the Farthest?	8P454
Serpico, Angela	Just Your Two Senses	8N452
Springer, Lexie	Gender Differences in Fingerprints	6N443
Weidner, Samantha	What Melts Ice the Fastest!	7P463
Yerger, Lauren	How Much Fat Is in Your Diet?	7P439

LaSalle Academy

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Student	<u>Title</u>	<u>Exhibit #</u>
Belville, Isabella	Hit A Dinger	8P470
Boyd, Sydney	Is Insulin Edible?	8N432
Burkey, Michaela	Better than Plastic?	8N457
Cannon, Madison	The Heart of The Matter	8N353
Carola, Isabella	No Pain Plenty of Game!	6N386
Frisina, Madeline	Bend 'Till You Brake	7P458
Hatcher, Emily	Oil Spills Don't Have Control Over Our Lakes	6N434
Keating, Trey	Step Right Up	6P389
Kirwan, Elise	Dna: Crime Fighting Tool for the New Millennium	8N459
Leininger, Joseph	Rise Up	6N475
Maiers, Dalton	How Does Weight Affect a Soapbox Derby Car	8P430
Mider, Brady	Battle of the Batteries	7P437
Olinger, Gianna	Antifungals: Natural Oils Vs. Pharmaceuticals	8N472
Reali, Isabella	Are Microwaves Safe? An Analysis of Microwave Water on Plant Growth	8N461
Schrenk, Matthew	The Skinny on Moisturizers	7N471
Serrano, John	Save the Soil!	7N481
Shick, Gabriela	Who Did it?	7N476
Taylor, Jack	Rocket Science- Does Mass Affect Altitude	6P385
Witmer, Sara	I Got A Fever	7P444
Witmer, Alexander	Rethink Your Drink	8P446
Ziolkowski, Owen	Cookie Monster	6P387

Muhlenberg Middle School

Warnenberg				
<u>Student</u>	Title	Exhibit #		
Fritz, Logan	How to Know if Your Water Is Safe Using P.H.	CH467		
Gantz, Samantha	Volcanoes Create Life	8N460		
Geddio, Jaxon	Hemostasis: Saved by the Clot	8N431		
Gilbert, Dana	Cool Project	8P205		
Kimma, Logan	Electrolyte Challenge: Which Sports Drink Replenishes the Most Electrolytes?	8N379		
Landrum, Asher	Slip Slidin' Away	8P115		

Love, Sarah	What's the Germiest Surface In Your Home?	8N380
Patton, Sean	The Cutting Edge	8P465
Reinhard, Rachel	Rain Rain Go Away	8N374

Reading Northeast Middle School

Student	Title	Exhibit #
Lopez, Enrique	Pneumatic Arm	6P483
Valenzuela, Reybin	Static Electricity	7N506
Vasquez, Alijah	Electric Resistance	7P493

Sacred Heart School

Student	Title	<u>Exhibit #</u>
Armistead, Marvin	Eating Breakfast Vs Not Eating Breakfast	7N424
Changco, Christian	Wind Vs. Shape	8P464
DeCarlo, Rocco	Scent Vs Taste	7N425
Gasperack, Jackson	Which Laundry Detergent Works the Best?	8P318
Maurer, John	Paper Weight	8P323
McCann, Elizabeth	The Proof Is in the Prints	8N325
Munter, Meghan	Does Ionization Affect Bacteria?	7N329
Pakradooni, Claire	Spinning Dizzy	7N427
Vidal, Adriana	Hair Coloring	7N428
Weiger, Kylie	Can Cooked Beans Grow?	8N324

Saint Catharine of Siena School

Student	<u>Title</u>	Exhibit #	
Amey, Dylan	Does Size Matter?	6N072	
Barbera, Nicholas	Viscosity of Household Liquids	7P019	
Batastini, Jacquelyn	What Holo Holds Up?	7P026	
Beaver, Amanda	Music to My Heart.	6N070	
Beaver, Jennifer	I'M Sure You're Dying To Know	8P281	
Dangelo, Sarah	C Is for Cookie Is That Good Enough for Me?	7N020	
Dempster, Joseph	Rockets and Payloads	7P043	
DosSantos Moore,	How Does It Matter? Measure the Spatter!	7P041	
Figueroa, Tristan	Pendulum	7P029	
Franey, Rachel	Plant Some Plants for the Planet	7N031	
Fries, Abbee	It's a Cover Up! Finding the Right Crayon for the Coverage	8P159	
Gilbert, Collin	Which Cereal Gets Soggiest in Milk?	6P073	
Hearing, Eli	Testing Treats - Which Dog Treat Will a Dog Prefer?	7N035	
Hess, William	What Hits It	7P024	
Hess, Celia	The Meltdown! - Which Deicer Melts Ice the Fastest?	7P025	
Impellizzeri, Luke	Truth in Sports Drink Labeling	7P027	
Kintzer, Kyle	Game Time!	7N044	
Kraycik, Lucien	Food Vs. Germs	7N033	
Lutz, Paisley	Chew on It	7N046	
Mace, Maxx	Paw Preference	7N021	
McCartin, Nathan	Microscopic Life in Grass	7N038	

McDevitt, Mary	"Water" You Waiting For!	7P039
McElderry, Megan	Water You Paying For?	7N018
Miller, Logan	Coastline Chaos - The Effects of Wind On Coastline Erosion	7P023
Nerney, Alex	The Stroop Effect - The Effect of Card Positioning on the Stroop Effect	7N034
Nguyen, Kaitlyn	Which Has More Electrolytes: Orange Juice or Sports Drinks?	8P284
Oscar, Alexandra	Is It Worth It for Water?	7N045
Oscar, Edward	Want to Hear Something Juicy?	8P283
Partsch, Grant	May the Force Be with You	6P069
Pena, Gicarlo	What Melts Ice the Fastest?	7P042
Sargent, Brandon	Getting Ready for Winter	7P032
Saylor, Timothy	Hard and Softer	7P028
Schodowski, Estebar	n Stretchy Bands	7P022
Smith, Arabella	Is the Bunny Really Worth the Money?	6P071
Smith, Rowan	Monster Workout	8N282
Stratton, Martha	Only the "Berry" Best!	7N040
Wagner, Payton	Germs - Stop Them with Hand Washing	7N037
Whittaker, Isaiah	Carbonation in Soda	7P030
Wolfe, Madison	Reaction Rates of Ultraviolet Beads	7P036

Saint Ignatius Loyola School

Title	Exhibit #
Can Sun Rays Make Water Potable?	8N251
How an Ad Affects A Stock	8P255
Zit	7N200
Plant V.S. WIFI Router, What Will Win?	7N202
What Color Do You See?	7N345
Do Left or Right Handers Have Better Short Term or Episodic Memories?	8N334
What Do Magnets Do in the World that Make Them So Important?	7P326
The Quickest Way to Cool a Can of Coke	7P401
nThe Effect of UV Rays on Plant Growth	7N331
Does the Combination of Music and Emotions Affect REM Sleep?	8n479
What Cleans a Penny the Fastest?	8P256
Does Your Plant Have a Headache?	7N203
What's in Your Water?	7N346
Which Storage Container Preserves Apples the Longest?	7N344
What Are the Effects of Smoking?	7N322
How Do Water Bottles Stack Up to Our Local Tap Water?	7N198
Nail Polish Longevity	8P254
What Is the Most Chemical Resistant Coating	7P317
Say Goodbye to Brown Apples	8N253
Is the 5 Second Rule True?	7N328
Balloon Powered Cars	7P421
Which Substance Propagates Plant Growth Best?	7N201
Which Melts Faster?	7P338
Can Temperature and Weather Affect A Football	7P333
Do Different Types of Water Affect Plant Growth?	7N319
Does Methyl Cellulose Affect the Melting Rate If Ice Cream?	8P257
	Can Sun Rays Make Water Potable? How an Ad Affects A Stock Zit Plant V.S. WIFI Router, What Will Win? What Color Do You See? Do Left or Right Handers Have Better Short Term or Episodic Memories? What Do Magnets Do in the World that Make Them So Important? The Quickest Way to Cool a Can of Coke In The Effect of UV Rays on Plant Growth Does the Combination of Music and Emotions Affect REM Sleep? What Cleans a Penny the Fastest? Does Your Plant Have a Headache? What's in Your Water? What Storage Container Preserves Apples the Longest? What Are the Effects of Smoking? How Do Water Bottles Stack Up to Our Local Tap Water? Nail Polish Longevity What Is the Most Chemical Resistant Coating Say Goodbye to Brown Apples Is the 5 Second Rule True? Balloon Powered Cars Which Substance Propagates Plant Growth Best? Which Melts Faster? Can Temperature and Weather Affect A Football Do Different Types of Water Affect Plant Growth?

Polinsky, Joseph	Will You Bank the Shot?	7P199
Polinsky, Nicola	Which Substance Is the Best Stain Remover?	7P204
Roberts, Sabrina	Will You Bank the Shot?	7P197
Roberts, Gianna	Does the Amount of Air Inside the Soccer Ball Affect How Far It Goes?	7P320
Thomas, Alexa	Tough Beans - Which Cooking Liquid Slows Softening the Most?	7N381
Ward, Emily	Why Does the Spatter Matter?	8N258

St. Ignatius

<u>Student</u>	Title	<u>Exhibit #</u>
Lutz, Saxtyn	Ailanthus altissima and Lycorma delicatula	7N509
Reali, Victoria	Growing Gummy Bears	8P507

The King's Academy

Student	Title	<u>Exhibit #</u>
Jiang, William	Viscosity Vs. Temperature	CH162
Kulp, Noah	Removing Lead from Soil Using Phytoremediation	EE161
Levan, Sierra	Egg Floatation	6P108
McKim, Paige	Antacids at Work	8P076
Meade, Summer	Days of Evaporation	6P110
Mondelli, Isabella	Baking Up A Storm	6P109
Neiswender, Jacob	Weight for It	8P077
Noel, Chance	Slip Sliding Away	8P079
Rowles, Mark	Bounsanity	PA116
Schnatz, Sarah	Falling Foods	6P107
Snyder, Emily	Ice-Olation Sensation	6P106
Westenhoefer, Evan	Measuring Voltage in Electrolytes	8P078
Xu, Perry	Leidenfrost Effect	CH163

Tulpehocken Junior - Senior High

<u>Student</u>	Title	Exhibit #
Ahner, Ella	Does Moisture Content Affect Carbon Dioxide Production in Compost?	CH067
Barrett, Makayla	Will Seed Germination Be Sped Up after Soaking in Different Substances?	BO064
Bobo, Ashton	Will the Seebeck Effect Be More Effective When the Copper Is Heated or Cooled?	PA066
Boyer, Alyssa	Germination of Ash Tree Seeds	BO065
Ebersole, Kyla	How Does Light Affect the Bioluminescence of a Dinoflagellate?	ZO068
Folk, Amelia	Natural Abiotic Water Filters	CH090
Marous, Madeline	Does Adding Organic Matter to Soil Help It Achieve Adequate Soil Infiltration?	EE062
Sowers, Mackenzi	Can Chlorella Uptake Iron From Water?	CH063
Zielinski, Leah	How Components of Household Cleaning Remedies Effect Escherichia Coli Strain	MH152

Wilson High School

<u>Student</u>	Title	Exhibit #
Goodrich, Jillian	Combating Raw Sewage Spills Using Freshwater Mussels	EE502
Nayak, Krishna	Analyzing the Effect of Ph on Crystal Violet Removal	CH419
Romero, Marjorie	Solar-Powered Water Desalination	EN518

Shah, Amaya	Biochar to Prevent Runoff	EE508
Snyder, Colby	Impact of CFCs on Earth's Ozone Layer	EE370
Xie, Olivia	The Effects of Social Norms on Recycling Behavior in High School	BS499

Wilson Southern Middle School

Student	Title	Exhibit #
Agrawal, Suvrat	Lemon Power	8P368
Aman, Calia	Guinea Pig Food Preferences	6N154
Cramer, Meghan	Radiation: a Constant Presence in Our Everyday Lives	7P347
Santiago, Joshua	The History of Global Warming	6P369
Sridhar, Sindura	DNA Extraction: Strawberries Versus Human	6N248
Tall, Assiatou	Water Purification with Different Soils	8N153
Weber, Joshua	Effects of Electromagnetism	7P170
Xie, Aaron	Investigating Thermal Energy	8P171

Wilson West Middle School

Student	<u>Title</u>	<u>Exhibit #</u>
Hinkle, Paige	Experiments to Determine Factors Affecting Radon Levels and Mitigation Options	6N384
Hinkle, Claire	Predicting Breast Cancer Diagnosis Using Machine Learning	8N366
Nayak, Aditya	A "Salty" Problem	6N478
Patel, Nikita	Endless Food and Electricity	7N393

Wyomissing Junior Senior High School

Student	Title	Exhibit #
Bornstein, McKenzie	Which Nail Polishes Will Last Longer? Glossy vs Gel	CH504
Chen, Benjamin	An Exploration in Music Through Machine Learning	MC510
Jackson, Seychelle	Comparing Expensive Hair Products vs. Cheap Hair Products	CH503
Makdissi, Louna	Are designer Shampoos Worth the Price?	CH501
Stoudt, Nikole	Biodegradable Material	CH494
Welliver, Morgan	Home Cleaners	CH497

Category Award Judges

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Carpenter Technology Boyer Engineering LLC Suburban Testing Labs, Inc. **Civil Engineer** Carpenter Technology, Corp Quadrant EPP Carpenter Technology (retired) **Conrad Weiser Animal Hospital** PDV Associates.& Penn State Lockheed Martin (Retired) ALCON Conrad Weiser SD (retired) Dolan Construction Inc. Penn State Berks Stevens Institute of Tech Student Muhlenburg (Retired) Liberty Environmental Inc. **Engineering Consultant** LSI (Retired) BCIU (Retired) East Penn Manufacturing Alvernia University Teleflex, Inc Albright University Carpenter Technology Twin Valley Schools - Retired Reading SD Volunteer Dr. Stephen Mech Teleflex, Inc Microchip Technology Albright College PSPE **Physical Therapist Keystone Spikes Corporation** St. Catherine's Elementary Sch (Ret.) **DePuy Synthes** Berks County Intermediate Unit Teleflex Medical. Inc.

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Broadcom Limited Quadrant EPP WorleyParsons Albright College AT&T Bell Laboratories, Retired Traffic Planning and Design East Penn Manufacturing Integrated Project Services Reading Area Community College Berks County Conservation Element Environmental Solutions

Penn State College of Medicine Berk Cnty Conservation District (Ret) U of P, PhD Candidate Terraqueous Mgm't & Res Grp WorleyParsons Alvernia University (Retired) Penn State University Conrad Weiser SD (retired) Berks Co Conservation Dist Oneida Research Services Muhlenburg High School

WorleyParsons Microsemi Corp. Penn State University Berks Veterinary Ultrasound Berks County IU Conrad Weiser SD (Retired) Penn State Berks

B. Braun Medical Penn State University, ret Self Employed

Thanks to all of the judges, including those whose names were not available in time to be included here.

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Science Fair Participants by Project Junior Division

Number	Student Name	
6th Grade Natural Science		
6N070	Amanda Beaver	
6N072	Dylan Amey	
6N154	Calia Aman	
6N248	Sindura Sridhar	
6N316	Charlie Shimp	
6N321	Samuel Arnold	
6N330	Riley Sowers	
6N335	Franchesca Marquez	
6N337	Madeline Shade	
6N363	Gisselle Feliciano	
6N367	Ryan DeRose	
6N382	James Arnold	
6N384	Paige Hinkle	
6N386	Isabella Carola	
6N409	Jack Leopold	
6N415	Lauren Grabosky	
6N422	Kaitlyn Zerbe	
6N434	Emily Hatcher	
6N443	Lexie Springer	
6N473	Mason Gechter	
6N475	Joseph Leininger	
6N478	Aditya Nayak	
6N489	R.J. Petras	
6th Grade Phys	ical Science	
6P069	Grant Partsch	
6P071	Arabella Smith	
6P073	Collin Gilbert	
6P106	Emily Snyder	
6P107	Sarah Schnatz	
6P108	Sierra Levan	
6P109	Isabella Mondelli	
6P110	Summer Meade	
6P309	Talula Hancik	
6P311	Alex Malone	
6P312	Kyra Mason	
6P313	Aidyn Gorski	
6P314	Alex Trevena	
6P315	Nevahn Oliver	
6P340	Tyler Yonavick	
6P341	Alaina Giffing	
6P349	Ariel Metzger	
00000		

Emily Chestnut

6P356

School

Saint Catharine of Siena School Saint Catharine of Siena School Wilson Southern Middle School Wilson Southern Middle School Conrad Weiser Middle School Wilson West Middle School LaSalle Academy Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School LaSalle Academy Immaculate Conception Academy Conrad Weiser Middle School LaSalle Academy Wilson West Middle School Immaculate Conception Academy

Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School The King's Academy Conrad Weiser Middle School **Conrad Weiser Middle School**

Number	Student Name
6P357	Adyson Rothermel
6P358	Alayna Goodwin
6P360	Armaan Malik
6P364	Jeremiah Beuca
6P369	Joshua Santiago
6P385	Jack Taylor
6P387	Owen Ziolkowski
6P389	Trey Keating
6P408	Ashton Kiebach
6P410	Rachel Katzaman
6P412	Hannah Fraser
6P413	Ethan Gilmer
6P414	Shaelyn Ramberger
6P416	Cedric Fabien
6P417	Aaron West
6P423	Kayleigh Perrine
6P433	Kathryn Raynes
6P447	Paul Pike
6P448	Sasha Schaffer
6P449	Luke Jordan
6P483	Enrique Lopez
7th Grade Natu	ral Science
7N018	Megan McElderry
7N020	Sarah Dangelo
7N021	Maxx Mace
7N031	Rachel Franey
7N033	Lucien Kraycik
7N034	Alex Nerney
7N035	Eli Hearing
7N037	Payton Wagner
7N038	Nathan McCartin
7N040	Martha Stratton
7N044	Kyle Kintzer
7N045	Alexandra Oscar
7N046	Paisley Lutz
7N093	Aryelle Jimenez
7N096	Samantha Holland
7N097	Sara Holland
7N111	Grace Sands
7N117	Klaudia Jarombek
7N164	Emily McGonigle
7N198	Mackenzie Langdon
7N200	Michael Bradley
7N201	Emmalee Mirabella
7N202	Annalee Brant
7N203	Gabriella Gentile
7N226	Gracie McMahon
7N249	Sara DeLoretta

Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School Wilson Southern Middle School LaSalle Academy LaSalle Academy LaSalle Academy Conrad Weiser Middle School Immaculate Conception Academy Immaculate Conception Academy Immaculate Conception Academy Reading Northeast Middle School

Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Holy Guardian Angels Conrad Weiser Middle School Saint Ignatius Loyola School **Conrad Weiser Middle School** Governor Mifflin Middle School

Number	Student Name	
7N259	Noah Miller	
7N319	Marianna Ott	
7N322	Jenna Krawlzik	
7N328	Abigail McNeil	
7N329	Meghan Munter	
7N331	Benjamin Cunningham	
7N336	Courtney Britton	
7N342	Paisley Moyer	
7N344	Zachary Herman	
7N345	Mary Brubaker	
7N346	Caylyn Hauser	
7N381	Alexa Thomas	
7N391	Xander Heidel	
7N392	Isabel Wiggins	
7N393	Nikita Patel	
7N394	Giannah Fernandez	
7N396	Aislin Given	
7N402	Kaiden Sena	
7N405	Elliot Mock	
7N407	Lisa Kesselring	
7N424	Marvin Armistead	
7N425	Rocco DeCarlo	
7N427	Claire Pakradooni	
7N428	Adriana Vidal	
7N436	Rachel Forkin	
7N450	Charlotte Dolena	
7N400 7N471	Matthew Schrenk	
7N476	Gabriela Shick	
7N481	John Serrano	
7N506	Reybin Valenzuela	
7N509	Saxtyn Lutz	
	•	
7th Grade Physical Science		
7P019	Nicholas Barbera	
7P022	Esteban Schodowski	
7P023	Logan Miller	
7P024	William Hess	
7P025	Celia Hess	
7P026	Jacquelyn Batastini	
7P027	Luke Impellizzeri	
7P028	Timothy Saylor	
7P029	Tristan Figueroa	
7P030	Isaiah Whittaker	
7P032	Brandon Sargent	
7P036	Madison Wolfe	
7P039	Mary McDevitt	
7P041	William DosSantos Moore	
7P042	Gicarlo Pena	
7P043	Joseph Dempster	

Conrad Weiser Middle School Saint Ignatius Loyola School Saint Ignatius Loyola School Saint Ignatius Loyola School Sacred Heart School Saint Ignatius Loyola School Conrad Weiser Middle School Governor Mifflin Middle School Saint Ignatius Loyola School Saint Ignatius Loyola School Saint Ignatius Loyola School Saint Ignatius Loyola School **Conrad Weiser Middle School** Conrad Weiser Middle School Wilson West Middle School Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School **Conrad Weiser Middle School Conrad Weiser Middle School** Sacred Heart School Sacred Heart School Sacred Heart School Sacred Heart School Immaculate Conception Academy Immaculate Conception Academy LaSalle Academy LaSalle Academy LaSalle Academy Reading Northeast Middle School St. Ignatius

Saint Catharine of Siena School Saint Catharine of Siena School

Number	Student Name
7P095	Regan Prechtl
7P101	Sean Hall
7P103	Olivia Jones
7P104	Marli Emrich
7P146	Helena Christ
7P170	Joshua Weber
7P197	Sabrina Roberts
7P199	Joseph Polinsky
7P204	Nicola Polinsky
7P228	Kathryn Nye
7P229	Sage Callahan
7P231	Carlisle Stuckert
7P252	Emma Klahr
7P286	Jillian Rosenbaum
7P317	Kaden Maier
7P320	Gianna Roberts
7P326	Arianna Clemens
7P332	Brylee McCollum
7P333	Bryan Nguyen
7P338	Nicole Morganti
7P347	Meghan Cramer
7P350	Jarryd Klopp
7P376	Abigail Frantz
7P395	Eric Yazemboski
7P399	Blake Skipper
7P400	Raymond Gorney
7P401	Maggie Conlon
7P404	Andrew Stein
7P406	Mirabela Paff
7P421	Cesario Minier
7P437	Brady Mider
7P438	Caitlyn Bailey
7P439	Lauren Yerger
7P440	Anthony Repko
7P444	Sara Witmer
7P458	Madeline Frisina
7P463	Samantha Weidner
7P484	Kash Bridgman
7P493	Alijah Vasquez
7P511	Naomi Hopkins
7P512	Nathaniel Coller
7P514	Caelyn Storms
7P515	Autumn Haas
7P516	Austin Miller
8th Grade Natu	
8N048	Julia Seidel
8N050	Leah Malone
8N051	Molly Knepper

Holy Guardian Angels Wilson Southern Middle School Saint Ignatius Loyola School Saint Ignatius Loyola School Saint Ignatius Lovola School Conrad Weiser Middle School Conrad Weiser Middle School Governor Mifflin Middle School Governor Mifflin Middle School Governor Mifflin Middle School Saint Ignatius Loyola School Saint Ignatius Loyola School Saint Ignatius Loyola School Conrad Weiser Middle School Saint Ignatius Loyola School Saint Ignatius Lovola School Wilson Southern Middle School Conrad Weiser Middle School Saint Ignatius Loyola School Conrad Weiser Middle School Conrad Weiser Middle School Saint Ignatius Loyola School LaSalle Academy Immaculate Conception Academy Immaculate Conception Academy Immaculate Conception Academy LaSalle Academy LaSalle Academy Immaculate Conception Academy Conrad Weiser Middle School Reading Northeast Middle School Antietam Middle-Senior High School

Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School

Number	Student Name
8N053	Anna Dalesandro
8N054	Jocelyn McFadden
8N055	Luke Leopold
8N056	Emma Houck
8N058	Adam Noll
8N059	Tessa Schiding
8N060	Hailey Miller
8N081	Abigail Weber
8N084	Katelyn Murphy
8N086	Jazmyn Borrilez
8N087	Emma Reeser
8N088	Trey Dianna
8N089	Aiden Assemes
8N091	Hannah Nied
8N098	Aubree Yoder
8N100	Jazmin Mejia
8N112	Stephen Askey
8N113	Brady Detwiler
8N119	Luke Brenner
8N120	Renee Kuennen
8N125	Eva Steiner
8N126	Alaina Althouse
8N127	Emily Bond
8N131	Breanna Gilfert
8N135	Elliana Stoltz
8N137	Kayla Matthew
8N140	Lindsey Preston
8N142	Evan Ruth
8N143	Jada Savage
8N148	Ryan McNutt
8N150	Ellie Friedlander
8N151	Brian Kroenig
8N153	Assiatou Tall
8N251	Helen Andreyo
8N253	Maggie McFadden
8N258	Emily Ward
8N282	Rowan Smith
8N324	Kylie Weiger
8N325	Elizabeth McCann
8N334	Estella Burkman
8N339	Kayla Pedraza
8N343	Ethan Rex
8N353	Madison Cannon
8N366	Claire Hinkle
8N374	Rachel Reinhard
8N378	Emily Gravitt
8N379	Logan Kimma
8N380	Sarah Love

Conrad Weiser Middle School Governor Mifflin Middle School Conrad Weiser Middle School Conrad Weiser Middle School Governor Mifflin Middle School Holy Guardian Angels Home School Holy Guardian Angels Holy Guardian Angels Governor Mifflin Middle School Holy Guardian Angels Conrad Weiser Middle School Governor Mifflin Middle School Holy Guardian Angels Wilson Southern Middle School Saint Ignatius Loyola School Saint Ignatius Loyola School Saint Ignatius Loyola School Saint Catharine of Siena School Sacred Heart School Sacred Heart School Saint Ignatius Loyola School Conrad Weiser Middle School Conrad Weiser Middle School LaSalle Academy Wilson West Middle School Muhlenberg Middle School Conrad Weiser Middle School Muhlenberg Middle School Muhlenberg Middle School

Number	Student Name
8N431	Jaxon Geddio
8N432	Sydney Boyd
8N435	Jacob Hoyt
8N452	Angela Serpico
8N453	Rebecca Adams
8N457	Michaela Burkey
8N459	Elise Kirwan
8N460	Samantha Gantz
8N461	Isabella Reali
8N472	Gianna Olinger
8N479	Elyssa Elliott
8N488	Avery Kelly
8th Grade Phys	
8P016	Brady Snyder
8P017	Alex Snyder
8P049	Alexander Tulli
8P052	Holden Rice
8P057	Tristan Rivera
8P076	Paige McKim
8P077	Jacob Neiswender
8P078	Evan Westenhoefer
8P079	Chance Noel
8P083	Caleb Werner
8P092	Abigail Sabatucci
8P094	Alyssa Coccia
8P099	Bryleigh Reddy
8P114	Jadyn Weik
8P115	Asher Landrum
8P121	Evan Line
8P122	Andrew Yonavick
8P123	Owen Sabold
8P124	Maritza Wiggins
8P128	Leslieann Peers
8P129	Abby Robinson
8P132	Reed Smith
8P133	Alyson Hoffa
8P134	Aidan Ruth
8P136	Sam Ressler
8P138	Paige Shannon
8P139	Brandon Dreibelbis
8P141	Amber McGonigle
8P144	Mackenzie Schoener
8P145	Madison Esterly
8P147	Sophia Gattone
8P149	Clayton Hickey
8P156	Olivia Rosa
8P157	James Kauffman
8P159	Abbee Fries

Muhlenberg Middle School LaSalle Academy Conrad Weiser Middle School Immaculate Conception Academy Immaculate Conception Academy LaSalle Academy LaSalle Academy Muhlenberg Middle School LaSalle Academy LaSalle Academy Saint Ignatius Loyola School Immaculate Conception Academy

Conrad Weiser Middle School The King's Academy The King's Academy The King's Academy The King's Academy Conrad Weiser Middle School Holy Guardian Angels Holy Guardian Angels Holy Guardian Angels Conrad Weiser Middle School Muhlenberg Middle School Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School **Conrad Weiser Middle School** Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School **Conrad Weiser Middle School** Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School Conrad Weiser Middle School Holy Guardian Angels Holy Guardian Angels Governor Mifflin Middle School Holy Guardian Angels Conrad Weiser Middle School Saint Catharine of Siena School

Number	Student Name
8P167	Noah Rosa
8P169	Riley Murphy
8P171	Aaron Xie
8P205	Dana Gilbert
8P250	Shannon Plasha
8P254	Abigail Lenker
8P255	David Birmingham
8P256	Angelina Fasig
8P257	Hannah Painton
8P281	Jennifer Beaver
8P283	Edward Oscar
8P284	Kaitlyn Nguyen
8P318	Jackson Gasperack
8P323	John Maurer
8P368	Suvrat Agrawal
8P373	Abriana Kreiser
8P430	Dalton Maiers
8P445	Andrew Kurtas
8P446	Alexander Witmer
8P454	Daniel Schlegel
8P455	Zachary Jordan
8P464	Christian Changco
8P465	Sean Patton
8P470	Isabella Belville
8P485	Colin Clabaugh
8P498	Logan Koller
8P507	Victoria Reali

Holy Guardian Angels Holy Guardian Angels Wilson Southern Middle School Muhlenberg Middle School Saint Ignatius Loyola School Saint Catharine of Siena School Saint Catharine of Siena School Saint Catharine of Siena School Sacred Heart School Sacred Heart School Wilson Southern Middle School Conrad Weiser Middle School LaSalle Academy Immaculate Conception Academy LaSalle Academy Immaculate Conception Academy Immaculate Conception Academy Sacred Heart School Muhlenberg Middle School LaSalle Academy Conrad Weiser Middle School Governor Mifflin Middle School St. Ignatius

Senior Division

9th-12th Grades Behavioral and Social Sciences

BS005	Victoria Kimmel	Conrad Weiser HS
BS009	Madison Seidel	Conrad Weiser HS
BS082	Sarah Guevara	Conrad Weiser HS
BS160	Annaka Mirabella	Berks Catholic High School
BS166	Drew Irey	Berks Catholic High School
BS192	James Coleman	Governor Mifflin Senior High School
BS194	Karyn Creelman	Governor Mifflin Senior High School
BS195	Alena Woolwine	Governor Mifflin Senior High School
BS216	Lilly Myers	Governor Mifflin Senior High School
BS270	Naomi Lockard	Governor Mifflin Senior High School
BS278	Brooke Mock	Governor Mifflin Senior High School
BS288	Jasmin Bickham	Governor Mifflin Senior High School
BS355	Emma Gockley	Governor Mifflin Senior High School
BS426	Janay Lewis	Conrad Weiser HS
BS442	Madeleine Piersol	Berks Catholic High School
BS499	Olivia Xie	Wilson High School

Number	Student Name
9th-12th Grade	s Botany
BO064	Makayla Barrett
BO065	Alyssa Boyer
BO118	Robert Silver
BO175	Ben Gerhard
BO187	Amanda Reynolds
BO209	Alexa Owens
BO215	Colin Ernst
BO222	Isabella Morgalo
BO223	Evan Greusel
BO232	Cormick Costello
BO260	Hannah Palange
BO263	Callum Hazlett
BO271	Sophie Stanislawczyk
BO279	Angela Opalko
BO291	Renee Carl
BO296	Jordyn Krzyzanowski
BO297	David Beyer
BO301	Valerie Boguslowski
BO303	Griffin Kriebel
BO306	Elyias Amrani
BO308	Lillian Bonfitto
BO354	Isabella Velez
BO375	Andela Kraycik
BO420	Erin Horack
BO456	Gabby Femino
BO469	Gabriella Fontana
BO409 BO474	Caleb Anders
BO474 BO477	Kimberly Lam
BO486	Therese Coleman
9th-12th Grade	
CH007	Joel McClellan
CH063	Mackenzi Sowers
CH067	Ella Ahner
CH074	Emma Moody
	Amelia Folk
CH090 CH162	
CH162 CH163	William Jiang
	Perry Xu
CH168	Gabriella Kurtas
CH173	Reiley May
CH179	Will Gallen
CH181	Carly Kuriger
CH196	Serenity Fasig
CH208	Wyatt Huber
CH219	Suntaya Osiris
CH230	Cassidy Ketz
CH237	Paige DeLoretta

School

Tulpehocken Junior - Senior High School Tulpehocken Junior - Senior High School Berks Catholic High School Governor Mifflin Senior High School Berks Catholic High School **Conrad Weiser HS** Berks Catholic High School Berks Catholic High School Governor Mifflin Senior High School **Conrad Weiser HS** Conrad Weiser HS

Conrad Weiser HS Tulpehocken Junior - Senior High School Tulpehocken Junior - Senior High School Berks Catholic High School Tulpehocken Junior - Senior High School The King's Academy The King's Academy Berks Catholic High School Governor Mifflin Senior High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School **Governor Mifflin Senior High School Governor Mifflin Senior High School** Governor Mifflin Senior High School Governor Mifflin Senior High School Governor Mifflin Senior High School

Number	Student Name
CH238	Kyle Stocum
CH240	Justin Pawling
CH242	Daniel Beahm
CH267	Reagan Rosenbaum
CH275	Mya Hipszer
CH289	Danny Mitchell
CH294	Michael Brunner
CH300	Emilio Santiesteban
CH362	Faye Dorman
CH371	Thea Piskorski
CH419	Krishna Nayak
CH462	Hyein Jung
CH467	Logan Fritz
CH494	Nikole Stoudt
CH497	Morgan Welliver
CH501	Louna Makdissi
CH503	Seychelle Jackson
CH504	McKenzie Bornstein
9th-12th Grades	s Earth and Environment
EE061	Megan Hatcher
EE062	Madeline Marous
EE075	Sofia Lall
EE080	Katherine Buerke
EE102	Natalie Richards
EE158	Eliza Fries
EE161	Noah Kulp
EE172	Chloe Woodruff
EE174	Mackenzie Melcher
EE182	Emily Byrd
EE207	Lauren Rowe
EE211	Aubrey Miller
EE268	Grace Foster
EE272	Jillian Michel
EE277	Liliana Sharicata Hernandez
EE348	Connor Gundersen
EE370	Colby Snyder
EE372	Mollie Helstrom
EE390	Hayeigh Monroe
EE482	Allison Carneal
EE500	Lucas Hyneman
EE502	Jillian Goodrich
EE508	Amaya Shah
9th-12th Grades	<u>s Engineering</u>
EN001	Ethan Lasher
EN008	Hayley Finogle
EN015	Hannah Wright
EN180	Carter Sweigart

Governor Mifflin Senior High School Berks Catholic High School Wilson High School Berks Catholic High School Muhlenberg Middle School Wyomissing Junior Senior High School

Berks Catholic High School Tulpehocken Junior - Senior High School **Conrad Weiser HS** Berks Catholic High School **Conrad Weiser HS** Berks Catholic High School The King's Academy Governor Mifflin Senior High School **Governor Mifflin Senior High School** Berks Catholic High School Wilson High School Berks Catholic High School **Conrad Weiser HS Conrad Weiser HS** Berks Catholic High School Wilson High School Wilson High School

Conrad Weiser HS Conrad Weiser HS Conrad Weiser HS Governor Mifflin Senior High School

Number	Student Name
EN210	Liliana Erb
EN220	Jacquelyn Goll
EN225	Caden Coutz
EN388	Brendan Weber
EN397	MacKenzie Partsch
EN517	Efstratia Pauley
EN518	Marjorie Romero
<u>9th-12th Grades</u>	<u>s Mathematics and</u>
MC014	Thomas Truong
MC085	Kathryn Gabriel
MC264	Liya Carter
MC510	Benjamin Chen
	Benjamin Chen <u>s Medicine and Health</u> Rachel Kesselring Hannah Schultz Brea Borrell Emnet Kefeni Laurel Vida Isabella Brosious Mariah Mendez Gavin Remp Russell Emrich Leah Zielinski Abigail Atkins Kierra Pickard Mandy Maiers Shelby Shamus Maggie Boggs Jocelyn Grosch Caden Blandford Joseph Petricoin Sherrise Otu Stella Mollica Abby Steckiel Gia Gilbert Jeel Patel Elisa Fiore Leslie Portillo Ryan Klein Annika Ermold Kylie Ruth Selina Gonzalez Brian Wentling Christina Heiser
MH245 MH246 MH261 MH265	Cassidy Schultz Alaina Maples Faith Bentz

Governor Mifflin Senior High School Berks Catholic High School Conrad Weiser HS Wilson High School

Conrad Weiser HS Berks Catholic High School Governor Mifflin Senior High School Wyomissing Junior Senior High School

Conrad Weiser HS Conrad Weiser HS Conrad Weiser HS Conrad Weiser HS **Conrad Weiser HS Conrad Weiser HS** Conrad Weiser HS **Conrad Weiser HS** Berks Catholic High School Tulpehocken Junior - Senior High School Berks Catholic High School Berks Catholic High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School **Governor Mifflin Senior High School Governor Mifflin Senior High School Governor Mifflin Senior High School** Governor Mifflin Senior High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School Governor Mifflin Senior High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School Governor Mifflin Senior High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School Governor Mifflin Senior High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School **Governor Mifflin Senior High School Governor Mifflin Senior High School** Governor Mifflin Senior High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School

Number	Student Name
MH266	Cassidy Quinn
MH269	Olivia Swartz
MH274	Hannah Oplinger
MH276	Aaryan Kapoor
MH280	Helena Ramirez
MH287	Mya Kwiatkowski
MH290	Dylan Kohl
MH292	Ella Hubric
MH298	Madison LaBelle
MH299	Madeline Coutz
MH305	Lilith Arevalo
MH310	Eliza Enriquez
MH351	Emily Smith
MH352	Sabryna Collins
MH359	Logan Mountz
MH361	Kyli Burgos
MH365	Madison Griffith
MH377	Madeline Fox
MH383	Jillian Avadanian
MH398	Mariella Frisina
MH403	Cameron Clemens
MH411	Tedd Stabolepszy
MH418	Emily Johnson
MH466	Selia Werth
MH468	Ireland Keeney
MH490	Journee Haynes
MH505	Ellie Chibirka
MH513	
9th-12th Grade	s Physics and Astronomy
PA006	William Savoy
PA066	Ashton Bobo
PA116	Mark Rowles
PA178	Nathan Leaman
PA188	Christian Morales
PA213	Mason Magdalinski
PA214	Jacob Engle
PA224	Caleb Hivner
PA236	Ian Armour
PA239	Alexander Cullen
PA247	Samuel Cullen
PA262	Sheyna Tully
PA273	James Musser
PA285	Nicolas Kuczala
PA293	Cory Engle
PA295	Andria Addis
PA302	Mason Woolwine
PA304	Mia Beilhart
PA307	Austin Hill

Governor Mifflin Senior High School Governor Mifflin Senior High School Governor Mifflin Senior High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School **Conrad Weiser HS** Berks Catholic High School Berks Catholic High School **Conrad Weiser HS** Governor Mifflin Senior High School **Conrad Weiser HS Conrad Weiser HS Conrad Weiser HS Conrad Weiser HS Conrad Weiser HS** Mackenzie Donatelli Conrad Weiser HS

Tulpehocken Junior - Senior High School The King's Academy Governor Mifflin Senior High School **Governor Mifflin Senior High School Governor Mifflin Senior High School** Governor Mifflin Senior High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School **Governor Mifflin Senior High School** Governor Mifflin Senior High School

Conrad Weiser HS

Number PA487	Student Name Joseph Walker	School Berks Catholic High School
9th-12th Grade	s Zoology	
ZO068	Kyla Ebersole	Tulpehocken Junior - Senior High School
ZO206	Abigail Holcomb	Governor Mifflin Senior High School
ZO221	Zoey Ernst	Governor Mifflin Senior High School
ZO227	Alexander Rodriguez	Governor Mifflin Senior High School
ZO241	Kayla Rivera	Governor Mifflin Senior High School
ZO327	Eliza Stauffer	Governor Mifflin Senior High School
ZO441	Brady Moyer	Conrad Weiser HS
ZO451	Megan Vance	Berks Catholic High School
ZO491	Julia Madsen	Conrad Weiser HS
ZO492	Christiana Wagner	Conrad Weiser HS

SUMMARY OF ENTRIES BY CATEGORY

6N	23
6P	39
7N	57
7P	60
8N	63
8P	63
BO	29
BS	16
CH	34
EE	23
EN	11
MC	4
MH	62
PA	20
ZO	10
Total Entries	514

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	 Ronald J. Polinski - Central Catholic - Grand Champ Boy - Zoology Cheryl L. Leddy - Central Catholic - Grand Champ Girl - Chemistry Daniel M. Webber, Jr Central Catholic - Physics Nancy Noone - Central Catholic - Applied Science
1966	 James Simpson - Central Catholic - Zoology Antoinette Tyrrell - Central Catholic - Physics Daniel Weber - Central Catholic - Physics 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	 R. Richard Harris - Central Catholic - Med./Health Jeffrey Green - Reading High - Chemistry 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	 ChristopHer L. Fraley - Wilson - Math & Computers StepHen L. Rozzi - Central Catholic - Physics 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 Baver – 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