

SCHEDULE OF EVENTS

Tuesday, March 15, 2016

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

Wednesday, March 16, 2016

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

9:00 AM 6:00 PM FAIR OPEN TO PUBLIC

7:30 PM AWARDS PROGRAM
Albright Chapel

Introductory Remarks

Bob Novak, President, RBSEF, Inc.

Provost and Vice President for Academic Affairs
Albright College

Todd Woodworth
Director – Global Advanced Engineering
Carpenter Technology Corp

Presentation of Awards

Michael P. Gerhart, Fair Director

Thursday, March 17, 2016

12:00 PM - 8:00 PM REMOVE **ALL** PROJECTS

ALL EXHIBITS MUST BE REMOVED BY 8:00 PM

Note: Any unclaimed projects will be moved to the dumpster.

FINANCIAL CONTRIBUTORS 2016

\$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
Michael and Rose Gerhart
Reading Health System

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 Phoenix, Arizona May 8-13, 2016.

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 2016 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 \$200 award to the winner of the Engineering Division. The Award will be presented after the Senior Division category Awards are presented. In addition, \$50 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 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.

Apparatus Award

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

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

\$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 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.

Conrad Weiser Lions Club Award

\$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 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 Excellence in Computer Science

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 April.

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.

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 (Presented after the category awards).

Mohnton – Cumru Lions Club Award

Two \$25 awards to Governor Mifflin students in the Senior Division and two \$25 awards to Governor Mifflin students in the Junior Division whose projects best show application to supporting community.

Mu Alpha Theta

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

NASA Earth System Science Award

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

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.

Penn State Berks, Engineering and Technology Programs

Awards as follows:

\$50 gift card for the best project in the senior division involving mechanical engineering project sponsored by the ME program.

\$50 gift card for the best project in the senior division involving building something involving electrical OR electromechanical sponsored by the EMET program.

\$25 gift card for the best project in the junior division involving building something mechanical sponsored by the ME program.

\$25 gift card for the best project in the junior division involving building something electrical/electromechanical sponsored by the EMET program.

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): Forensic Science Camp, Engineering Camp, Computers and Cyber Security Camp, and Food Science Camp.

Junior Division (grades 6 to 8): You Be the Chemist Camp, Junior Nittany Crime Investigative Service Camp, Science and Technology Camp, Youth Architect Camp, and Geo-Science Camp.

Project Excellence Award - 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/ engineering process.

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 – Scott G. Daelhousen Engineer's Award

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

Reading Health System

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

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.

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.

Stockholm Junior Water Prize

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

Tier Environmental Services

Two \$50 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.

Yale Science and Engineering Association

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

Albright College

Albright College is pleased to offer \$3,000 per year renewable scholarships to the Champion, Grand Champion and Reserve Champion in the Reading/Berks 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 64 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.

2016 SPECIAL AWARDS' JUDGES

Alliance to Berks County Dental Society
Barbara Ciabattoni
Debbie Auchter

American Association of University Women
Marganeto Fuoco

Apparatus Award
Dr. William Heffner

Assistive Technology Committee
Dr. Henry Ansell

Berks County Conservation District
Kevin Witmier
Jeff Overstreet

Berks County Dental Society
David Huber

Debbie Auchter

Berks County Medical Society
Dr. Eve Kimbal

Brentwood Industries
Jim Perlow
Bill Miller
Geoff Young

Conrad Weiser Lions Club Award
Michael Gerhart

First Group Health Care, Ltd
Dr. Fern McMillen

Microsemi Corporation
George Terefenko

Mohnton - Cumru Lions Club Award
Karl Hiester
Greg Przyjemski

Penn State Berks, Engineering and Technical
Programs
Rungan Nathan

Penn State Berks Science Division
Mike Fidanza
Bert Eardley
Joanne Pumariega

Project Excellence Award - Przyjemski Family
Greg and Cathy Przyjemski

Reading Area Community College
Dr. Kathy McCann Evans

Reading Health System
Dr. Timothy Wirth
Melody Jones

Tier Environmental Services
Sharon Thomas

RBSEF Special Award Judges:

Russell Becker
Joe Brendlen
Brian Buerke
Dr. Lila Comalli, VMD of the Conrad Weiser
Animal Hospital
Peggy Condon-Vance
Bert Eardley
Mike Fidanza
Michael Gerhart
Rose Gerhart
Greglynn Gibbs
Dr. William Heffner
Karl Hiester
Dr. Thomas Krutsick
Karl Peterson
Laura Przyjemski
Joanne Pumariega
Dave Sanford
Mark Smith
Dr. Praveen Veerabhadrapa
Dr. Janet Winter

CATEGORY EXHIBITS

	<u>CLASSIFICATION</u>	<u>CODE</u>
SENIOR DIVISION 9th 12th Grades	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	6N, 7N, 8N
	Physical Science	6P, 7P, 8P

CATEGORY EXHIBITS LISTED BY SCHOOL

Antietam Middle-Senior High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Duong, Andrew	Up, Up, Away!	7P466
Kerchner, Michael	Viscosity	7P395
Phillips, Zackary	The Effect of Coffee on Plant Growth	7N388
Wade, Elijah	Do Cookie Pans Affect the Baking of Cookies?	7N459
Wortman, Nathaniel	Cool or Crazy	7P476
Yoder, Athena	Nails 101	7N462

Berks Catholic High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Albert, Joseph	Biofuel vs. Fossil Fuel -Which Packs a Greater Punch	ES150
Andreyo, Luke	Can Recycled Aggregates be as Strong as Stone Aggregate in Concrete?	EN242
Benedict, Jakeb	H2O & Away We Grow!	BO170
Buerke, Patrick	Does Racial Priming Affect Perceived Ability?	MH046
Burke, Katy	How Long Does the Earworm Effect Last?	MH101
Butler, Isabella	The Effects of Caffeine on the Athlete	MH124
Carroll, Ryenne	Dissolution Rate VS Delivery System	CH017
Davidheiser, Bethany	Killing Bacteria	MH034
Doran, Delaney	I'm Hungry... What Smells??	MH016
Duddy, Gia	Got Milk? And for How Long?	CH172
Fares, Adrian	Freshwater Pollution in Berks County	ES033
Fioravante, Nicholas	To Which Sweetener are Harvester Ants Most Attracted?	ZO099
Fromuth, Daniel	How do Greywater and Acid Rain Affect Plant Growth?	BO097
Golembiewski,	Do Ruby Throated Hummingbirds Demonstrate a Preference in Style of Feeder They Use?	ZO014
Good, Hilary	What Cooking Method Preserves Vitamin C Best?	CH151
Himmelberger, Shae	Light, Soil, and Water: To Create Optimal Growing Conditions for Plants	BO160
Kane, Megan	Toxicity Testing using Radish Seeds	CH149

Kostival, Rachel	Algae to Biogas	BO096
Masangcay, Francis	How Does Losing A Sense Affect Hearing?	MH159
Miller, Liza	Injury Patterns at Competitive Summer Basketball Camps	MH245
Nguyen, Baotram	From Grass to Gas: Utilizing Mushrooms as an Alternative Cellulose Source	CH018

Berks Catholic High School continued

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Nguyen, Monica	What Effect Do Different Cooking Methods Have on the Vitamin C Content in Broccoli?	CH100
Osorio, Kaitlyn	Egg Imposters	CH095
Painton, Luke	Does Caffeine Affect Brine Shrimp Behavior?	ZO261
Phan, Loc	Encryption, Decryption, and Hashes	MC012
Robertson, Meg	Comparing Algorithms for Solving the Rubik's Cube	MC152
Smith, Anya	Can Ultraviolet Light Be Used to Decontaminate Water?	MH051
Stone, Mark	Burger Bacteria	MH094
Stoney, Ethan	Cell Phone Radiation: Wi-Fi vs. Data	MC035
Yoder, Megan	Do Certain Types of Stimuli Effect Quality of Sleep?	MH053

Berks Christian School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Keylor, Andrew	Earthworm Effects on Plant Growth	BO013
Laureano, Cristopher	Balloon Propelled Cart	PH417
Saint-Hilaire, Maryed	Effects of Aspirin on Plants	CH430

Conrad Weiser HS

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Baker, Amanda	Golden Faces	8P056
Concannon, Brian	Overfishing Dangers	ES463
Frasch, Madalyn	How Bacteria from Different Water Sources is Affected by Antibiotics	MH467
Getz, Madilyn	Analysis of Salinity Levels in Furnace Creek	ZO475
Gresoi, Joseph	Analysis of Tissue Transglutaminase Expression as an Indicator of Gluten Sensitivity	MH273
Kaneria, Rini	Finding the Minimum Inhibitory Concentration of Chloroxyleneol using Escherichia coli	MH093
McFadden, Connor	The Engineering of Alginate, Collagen, and Gelatin Hybridization Matrix for 3D Cell	EN011
Meyers, Megan	Estimated Age, Height, Sex, and Ethnicity through Morphological Forensic Analysis	MH008
O'Brien, Kelsey	Comparison of Skeletal and Cartilaginous Development in Juvenile and Adult Fish	ZO029
Schneck, Alexa	Late Stage Osteoarthritis Reveals Increased Expression of SQSTM1	MH462
Schoemaker, Dylan	Analyzing the Affect of Rhizobium Inoculated Soil on Leguminous and Non-	BO369
Sumner, Benjamin	A Botanical Analysis of Oscillatoria in Bioengineered 3D Alginate Matrix Beads	BO248
Torchia, Gabriella	The 3D Propagation of Synedra in Hybridized Alginate/Gelatin Matrix Beads	BO146

Conrad Weiser Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Bross, Connor	Electric Fruits	8N063
Clauss, Jacklyn	Candy Chromatography	8P359
Cole, Elise	Does Size Affect the Time it takes a Dry Ice Bubble to "Explode"?	8P366
Cox, Briley	Buffing with Beverages	8P058
Dautrich, Owen	The Effect Smell Has on Taste	8P064

Ely, Nash	What Cake Ingredients Matter	8N062
Fox, Maddie	From the Outside In	8N055
George, Gracie	Is Yawning Contagious?	8N059
Gregoris, Kalea	Testing the Five Second Rule	8N365
Gresoi, Nikolas	Making Sense of these Cents	8P363
McFadden, Natalie	How Do Different Liquids Affect Tooth Coloring?	8N057
Monroe, Hayleigh	Who Is Smarter? Mares or Geldings?	8N367
Noll, Matthew	How Much Sugar is in Your Drink?	8P364
Schoener, Jack	Flight Time	8P065
Stoltzfus, Leah	Do You Know Who I Am?	8N060
Yale, Brianna	Can You Raed Tihs?	8N054

Fleetwood Area Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Scarano, Skylar	Effects of Colored Light on Paramecium	6N001

Governor Mifflin Intermediate School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
McMahon, Ryan	Are You Eating Metallic Iron for Breakfast?	6P341

Governor Mifflin Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Bourland, Nautica	How Does Color Affect Memory?	8P246
Clipman, Noah	Do Driving Video Games Affect Reckless Driving	8N165
Creelman, Nathan	Hydroponics vs. Aquaponics	7N258
Fiore, Gina	Countering the Effects of Acid Rain	8N240
Hector Velez, Amayah	What Kind Of Cereal Has The Highest Quantity Of Iron?	7P257
Hofmann, Mark	The Effects of Time and Amperage on Zinc and Copper Plating	7P066
Kelly, Griffin	The Classical Music Myth: How Listening to Music Affects Learning & Your Brain	7P362
Raczy, Layne	How Does Acid Rain Affect Aquatic Plant Growth?	7N247
Wert, Nathaniel	Does the Color of the Curtain Strengthen its Ability to Keep Out Light	7P171

Governor Mifflin Senior High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Andrus, Mark	The Effect of Water Additives on Rose Freshness	BO080
Barnett, Madison	The Effect of Resist on the Internal Temperature of Plants	BO087
Beyer, Jonathan	The Effect of Time of Fertilization on Plant Growth	BO079
Bilbao, Taylor	The Effects of Whitening Toothpaste on Tiles	MH353
Boggs, Colleen	The Effect of Aromatherapy on Brainwaves	MH210
Bolles, Jakob	Sight vs Smell	ZO236
Boltz, Kylie	The Effects of Different Solutes on Growing Crystals	CH203
Braid, Dorothy	The Effect of Music on Typing Speed	MH117
Brown, Rebecca	The Effect of Compost on Lima Beans and Radishes	BO230
Brown, Katarina	The Effect of Grape Color on Fermentation Rate	CH075

Brown, Matthew	The Effect of Water on Paper	CH191
Brown, Mitchell	The Effect of a Point of Reference on Estimation Ability	MH106
Callaghan, Connor	The Effect of PSI on Throwing Footballs	PH198
Carter, Kallan	The Effect of Sorbents on Absorbed Oil	CH226
Cerbone, Brooke	The Effect of the Type of Drink on the Amount of Electrolytes it Contains	MH221
Coldren, Alex	The Effect of Breath Mints on the Temperature Change of Hot Water	CH207
Correas, Ben	The Effect of Physical Activity on Test Scores	MH162
Del Vecchio, Kayla	The Effect of Air Pressure on the Distance a Football Travels	PH081
Dewalt, Alexander	The Effects of Aspirin on Plant Growth	BO238
Diggan, Lindsey	The Effect Oil Spill Cleanup Methods on Oil Spills	CH128
Dodge, Skyla	The Effect of Artificial Lighting on Bioluminescent Cells	ZO206
Eastburn, Jasmine	The Effect of Parachutes On Flying\Descending Ability	PH156
Ellis, Ianthia	The Effect of Acid Rain on Sunflower Growth	BO085
Enriquez, Ava	The Effect of Substances on the Decomposition of McDonald's Chicken Nuggets	CH114
Epler, Hailey	The Effect of Fertilizer Concentrations on Plant Growth	BO074
Erb, Andrew	The Effect of Type of Light on Plant Growth	BO138
Ernst, Alec	The Effect of Liquid Density's on the Melting Time of Ice	CH208
Etienne, Melchiah	The Effect of Temperature on Plant Growth	BO076
Farmer, Carson	The Effect of Music on Heart Rate	MH219
Ferrero, Sophia	The Effect of Feminine Facial Features on Perception of Attraction	MH105
Fleischood, Morgan	The Effect of Color on Memory	MH147
Francone, Annie	The Effect of Temperature on Crystal Growth	CH115

Governor Mifflin Senior High School continued

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Franks, Michael	The Effect of Carbohydrates on Your Physical Performance	MH199
Fritz, Jimmy	The Effect of pH On Plant Growth and Appearance	BO089
Galantuomo, Dominic	The Effect of Surface Temperature on the Total Ridge Count of Fingerprints	CH111
Garcia, Alesia	The Effect of Video Games on the Human Body	MH209
Gerhard, Emilie	The Effect of Short-term Memory on Age	MH212
Gossert, Delanie	The Effect of Music Genre on the Completion of Simple Math Problems	MH135
Grandfield, Trevor	The Effect of PSI on Football Distance	PH112
Grant, Kayla	The Effect of Gender on Detail Oriented Minds	MH224
Grennan, Tara	The Effect of Wing-Shape on Flight Characteristics	PH137
Haas, Caitlyn	The Effect of Auditory and Visual Seeing and Hearing on Reaction Time	MH119
Halulakos, Natasha	The Effect of Color Preference on Behavior	MH218
Herbert, Jade	The Effect of Gum Brand on Flavor Time	CH205
Hong, Ji Hann	The Effect of Grip Shape on the Efficiency of Object Collection	EN393
Hubric, Courtney	The Effect of Insecticide on Plant Growth	BO132
Hubric, Camryn	The Effect of Cell Phone use on Reaction Time	MH136
Jones, Natalie	The Effect of Acid Rain on Grass	BO239
Kemp, Stanley	The Effect of Programming Language on Speed of Performing Various Tasks	MC141
King, Bobbie	The Effect of 3 Waters on Steel	CH069
King, Zach	The Effect of Music Genres on Memory	MH142
Kiwak, Collin	The Effect of Genres of Music on Solving Math Equations	MH139

Kleinsmith, Megan	The Effect of Tyrosine Amino Acids on Reaction Time	MH134
Knappenberger, Mya	The Affects of Microwave Radiation on the Growth of Grass Plants	BO231
Knapper, Benjamin	The Effect of Disinfectants on Bacteria	ZO201
Knox, Hannah	The Effect of pH on Freshwater Rivers	BO082
Kramer, Logan	The Effect of Temperature on Microscopic Growth	ZO196
Kriebel, Wyatt	The Effect of Various Acids and Bases on the Corrosion Rate of Aluminum 2024	CH195
Kue, Kou	The Effect of Light On the Growth of Plants	BO213
Lockard, Paul	The Effect of Handwriting on the Stroop Effect	MH108
MacMahon, Morgan	The Effect Of Music On Young Girls Memory	MH202
Magdalinski, Morgan	The Effect of Colored Paper on Math Test Scores	MH110
Maldonado, Anthony	The Effect of Different Substances on the Melting of Ice	CH131
Mathieu, Morgan	The Effect of Glucose Concentration on Lima Bean Plant Growth	BO084
Mazzocchi, Kaitlyn	The Effect of Different Washing Detergents on a Spaghetti Sauce Stain	CH086
Metzinger, John	The effect of Waters on Grass Growth	BO072
Miller, Andrea	The Effect of Fungicide3 on Pea Plant Growth	BO133
Montalvo, Sienna	The Effect of Removers on Red Wine Stains	CH109
Moore, Vincent	The Effect of Temperature on the Elasticity of Rubber Bands	PH200
Mosco, Victoria	The Effect of Wavelengths of Light on Basil Plant Growth	BO126
Moser, Dylan	The Effect of Containers and the Surrounding Environment on the Freshness of Apples	MH241
Moyer, Jason	The Effect of Aspirin on Wisconsin Fast Plants	BO192
Naugle, Aubrey	The Effect of Music Genre on Short-Term Memory Recollection	MH153
Naugle, Ryan	The Effect of Home Remedies vs Commercial Brands on Stain Removal	CH120
Ney, Sam	The Effect of Chewing Gum on Concentration Levels	MH223
Noll, Jena	The Effect of Skating Technique on Speed Skater Can Travel	CH118
Novotny, Jake	The Effect of Natural vs Artificial Light on the Growth of Plants	BO083
Ocasio, Peter	The Effect of Different Brands of Bats on the Distance a Baseball Will Travel	PH197
Ordoyne, Tyler	The Effect of Electromagnetic Radiation on Plant Growth	BO143
Patterson, Blake	The Effect of Conflicting Information on the Brain's Reaction Time	MH113
Patton, Boston	The Effect of Static Electricity on Balloons	PH228
Petricoin, Michael	The Effect Of Potting Mixes On Plant Growth	BO088
Pytrysson, Thomas	The Effects of Bridge Design on Carrying Capacity	EN122
Rodriguez, Cheyenne	The Effect of Different Genres of Music on Physical Activity	MH071
Rothenberger, Lauren	The Effect of Orange Juice on Evaporation	CH217

Governor Mifflin Senior High School continued

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Rowe, Josh	The Effect of Caffeine on Physical Performance	MH211
Ruoss, Bethany	The Effect of Acid pH on Plant Growth	BO107
Santiago, Haley	The Effect of Artificial Sweeteners on Fruit Fly Survival	ZO130
Santiesteban, Isabela	The Effect of Stain Removers on Dissolving Coffee Stains	CH237
Santos, Lorenzo	The Effect of the McGurk Effect on Age	MH194
Sarangoulis, Niko	The Effect of Conductivity on the Determination of Whether a Metal is a Conductor	EN140
Schultz, Jillian	Mold Growth on White Bread	BO227
Sharpley, Kaitlyn	The Effect of Acidity on Sourness	CH190
Sinnamon, Jackson	The Effect of Different Water Types on the Wisconsin Fast Plant	BO232

Smith, Grace	The Effect of Environments on the Decomposition of Lettuce	CH129
Smith, Jadya	The Effect of Dance Styles on Heart Rate	MH073
Spayd, Seth	The Effect of the Type of Cheeseburger and Fries on the Growth of Mold	MH216
Taveras, Andrea	The Effect of Colored Paper on Test Scores	MH225
Terrey, Vincent	The Affect of Different Color Lights on Plant Growth	BO215
Teson, Hannah	The Effect of Hydroponic Gardening on the Rate of Growth of Radish Plants	BO127
Thomas, Marlin	TBD	ZO385
Thomasset, Julien	The Effect of Different Types of Music on Test Scores	MH070
Tice, Donald	Effect of Musical Key on Taste in Music	MH473
Toure, Ahmed	The Effect of Sleep Deprivation on Physical Activities	MH068
Traini, Mikayla	Effect of Location on Lead Levels in Soil	ES474
Underwood, Sawyer	The Effect of Motor Oil on Grass Plants	BO144
Wall, Haiden	The Effect of Temperature on Batteries in a Flashlight	CH234
Walton, Kaelin	The Effect of Age and Gender on Hearing	MH116
Weaver, David	The Effect of Acidic Milk	CH235
Weinstein, Nicole	The Effect of pH on Tooth Color and Mass	CH148
Weinstein, Alex	The Effect of Stimuli on Memorization	MH145
Williams, Kailyn	The Effects of Everyday Materials on Sound Pressure Levels	EN193
Wilson, Callum	The Effect of PH on Wood Degradation	CH121
Yarosz, Zoe	The Effect of Dance on Heart Rate	MH204
Yoder, Saige	The Effect of Physical Activity on Memory	MH077

Holy Guardian Angels

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Barrera, Tamara	Does Acid Rain Affect the Germination of Green Pea Beans?	8N040
Botch, Veronica	Does the Height from which Blood is Dropped Affect Splatter?	8N010
Brena, Andric	What Speeds up Evaporation the Quickest: Heat or Wind?	8P042
Brown, Kevin	An Alternative to Road Salt	7P049
Christ, Farren	Do Children Confuse Medicine for Candy?	8N023
Davis, Haley	Does Fruit Lose Vitamin C When Ripening?	7N048
Harris, Julia	Which Orange Drink Has the Most Sugar?	7N039
Hertzog, Will	The Effect of Surface Temperature on Fingerprints	8P020
Iswalt, Kylee	Which Type of Metal is the Most Resistant to Corrosion?	8P041
Kroenig, Lindsey	Effect of Salt Concentration as an Electrolyte in a Voltaic Cell	7P043
Malinowski, Quinn	Toothpaste: What Works?	8N019
Mejia, Dana	Testing the Ozone	7P123
Midouhas, Amara	Does Whitening Toothpaste Really Work?	8N027
Myers, Anthony	Got Tea? Which Stains Your Teeth the Most?	7N044
Nguyen, Michelle	Does 100% Orange Juice Have More Vitamin C than Ones with Artificial Ingredients?	8P022
Piskorski, Thea	Which Material Used in Socks Insulates the Most for Winter Olympians?	7P125
Porcaro, Dante	What Solar Cooker Design Cooks Food More Efficiently?	8P021
Robertson, Samuel	Acid Rain's Effect on Aquatic Life	7N045
Rosenberger, Michaela	Where is the Softest and Hardest Water in Berks County?	8N024
Trumbore, Elizabeth	Does a Color Change in a Solar Hot Dog Cooker Affect How Much the Dog Cooks?	7P092

Home School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Wang, Gavin	Observing Cosmic Rays with a Cloud Chamber	6P052

Immaculate Conception Academy

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Adams, Riley	Kinetic Collisions	8P404
Arbuckle, Christian	Which Material Keeps You Warmer?	7N434
Dinnocenti, Nadine	Teeth	6N422
Femino, Gabriella	Which Bubble Gum Blows the Biggest Bubble?	6N415
Femino, Madison	The Melting Chocolate Challenge	7P440
Fontana, Alyssa	How Different Slope Angles Affect the Amount of Eroded Material	8P455
Forkin, Sarah	Musical Energy	7N448
Gatz, Mitchell	Decomposition	6N413
Goodrich, Peyton	Magnetic Madness	7P438
Gray, William	Something Smells Fishy	7N452
Hennessey, Adam	What Can Save You More Water and Money a Bath or a Shower?	7P449
Herb, Kaliegh	Saving Your Smile	8N456
Irey, Drew	Spending Habits - Spenders vs. Savers	7N442
Knipe, Sabrina	Cleaning Coins Effectively	6P418
Kraycik, Andela	Guinea Pig Circus	6N411
Kraycik, Ethan	Bombs Away	8P402
Kurtas, Gabriella	Oil Spills	7N445
Lobaugh, Austin	Soil Olympics	8P397
Reilly, Sean	Does Air Pressure Influence the Distance a Soccer Ball Will Travel?	6P421
Salaneck, Mya	The Effects of Erosion	6N412
Schaeffer, Samantha	Happy Birthday-Blow Out Your Candles	7N451
Schaeffer, Saffrin	Iceman or Woman?	8N454
Walker, Joey	Buildings and Material Foundation Design	8P453
Wolf, Abby	What Melts Ice the Fastest?	6P420
Yerger, Jordan	Shake, Shake, Shake. What Doesn't Break?	8P400

LaSalle Academy

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Avadanian, Paul	Garlic: Friend or Foe	6N334
Avadanian, Jillian	Playing Dirty	6N335
Belville, Dale	Batter Up!	7P291
Burrows, Brooke	The Effect of Cold on Your Grip Strength	7N289
Coccia, Gina	Weeds Be Gone	7N298
Ferreira, Julia	To Shine or not to Shine?	8P401
Frisina, Mariella	Up in Smoke	7P315
Giesen, Joseph	Positively Shocking!	7P292
Good, Lauren	Will You Survive?	7P290
Hill, Austin	Hot Stuff	6P332
Horn, Garrett	The Rose Trials	6N330

Horn, Jonathan	Under Pressure	6P331
Hyneman, Lucas	Household Risk	7P311
Kasting, Pierce	What Ever Floats Your Boat	6P352
Kobularcik, Brigham	Get In Gear	8P349
Maiers, Mandy	Low-E Glass	7P336
Matthias, Jade	Put the Phone Down	6N328
Patel, Jeel	Does Sunlight and Temperature Affect Plant?	6N327
Schuetz, Michael	Power of Magnetism	7P337
Silver, Robert	Moldy Tomatoes	6N329

LaSalle Academy continued

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Stahovich, Joshua	Performing Under Pressure	7P299
Stahovich, Daniel	The Race for First	8P348
Stout, Andrew	Best Stain Buster	8P350
Vance, Megan	How Bright the Light	7P288
Vu, Kaylie	Manure or Urine? : A Microbial Fuel Cell Test	8P347
Yeckley, David	The Best Candy In Town	6P333
Zablit, Christelle	Gas and Drinks	7N323

Muhlenberg Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Daniels Wright,	Car that Can Find a Door and/or Run a Maze	8P003
Dennis, Kendra	Infrared: Invisible Light	8N390
Dietrich, Timothy	The Effects of Color on Memory	7N457
Esquivel, Giselle	Dirty Snowballs	8N461
Hensel, Samantha	Liquids vs. Evaporation what is the Outcome?	8N389
Heydt, Myriah	Crystals: The Science Behind the Shine	8N465
Landrum, Avery	Got Hills? Losing Ground?	8N381
Martin, Alexis	Rethink Your Soda Pop Drink	7N361
Morgan, Emily	What Effect does Uranium Have on Plant Life?	7N382
Sheetz, Desiree	Advil Absorption in Carbohydrate Solutions	7N370
Simmons, Brandon	Underground Water Flow!	8N383

Oley Valley Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Bill, Katy	Fixed Blade Broad Heads and Mechanical Broad Heads	6P037
Bower, Hollie	Cabbage Cloning ?	8N460
Groves, Meredith	Do Soil Nutrients Change Depending on Location?	8N472
Hoffman, Danny	What Things Affect Electromagnetic Strength?	8P358
Hornig, Julianna	Do The Eyes Have It?	8P464
Jackson, William	Pi-Fi Wireless Router and Raspberry Pi	7P002
Kauffman, Kristina	Does what's Around a Water Source Affect the Chemical Levels in it?	6P038
Kline, Andrew	Do People Recognize Disney Movie Music Better by Movie Name then Song Name?	8N006
Lang, Casey	Are the Listed Weights on Chip Bags Accurate?	8P004
Leshner, Kari	How Strong is an Egg?	8N414
Matteoli, Alyssa	Brush Up!	7N005

Moore, Jasmyn	Which Type of Milk Makes the Heaviest Form of Plastic Milk?	8P450
Patches, Olivia	Does Sight Affect Taste?	8N458
Readinger, Erin	Does Temperature Decrease the Time it takes for Red Worms to Vermicompost?	8N007
Sheetz, Ryan	Will a Person of Authority Make You Question Your Memory?	8N036
Wilkinson, Jordan	Will Plants Grow Faster with Earthworms?	8N249

Sacred Heart School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Duddy, Isabella	Five Second Rule	7N377
Goodman, Elizabeth	Egg-Speriment	8N375
Guzman, Genesis	Dominance and Sensitivity	8N374
Heidecker, Victoria	Peppermint Enhancement	7N379
Maurer, Andrew	Stressed out	8N371
McConnell, Andrew	Do Plants Need Water to Grow	8N372
Moser, Fay	Comparing Colored Candles vs White Candles for Longest Burning Time	7P380
Naso, Cole	Saturn's Rings	7P376
Schroder, Kevin	Aluminum Bats VS Wooden Bats	7P378
Yu, Christine	Rate of Evaporation on Different Liquids	8P373

Saint Catharine of Siena School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Atkins, Abigail	The "Dish" on Dry Skin - Which Class of Moisturizer Works the Best?	7P305
Cartagena, Jonathan	The Effect of Temperature on Reaction Time	7P324
Chan, Joyce	Fizzzzzzzzzzz-POP! Dis"solving" Time	6P429
Chiarelli, Olivia	Growing Growing Gone! An Experiment on Nitrogen Fertilizers	7N326
Cortes, Sophia	The Effects of Hydrogen Peroxide on Plant Cuttings and Seeds	7N325
Donato, Grace	How Much Weight Could A K'nex Bridge Hold If A K'nex Bridge Could Hold Weight	6P428
Feeney, Meredith	"Is Pricey Polish Perfect?"	7P344
Franey, Abigail	Contaminated to Clean	7P301
Fries, Eliza	Don't Burst My Bubble	7P274
Geishauser, Olivia	Which Beverage Will Stain Your Teeth the Most ?	7P342
Hearing, Sadie	Can Color Affect Memory?	7N300
Hess, Mia	Do the Eyes Have It? - A study on Visual and Oral Learning	7N346
Hodgson, Sydney	Whose Memory is the Best?	7N343
Impellizzeri, Paul	How Temperatures Affect the Magnetism Used in Magnet Levitation Trains	6P435
Keperling, Hailey	Spaghetti Stability	6P436
Kintzer, Kayla	Cats or Dogs	7N306
Lundstrom, Megan	Keeping You in Suspension	6P443
Maurer, Benjamin	The Voltage of Different Types of Potatoes	7P307
Millman, Jacob	Remember This!	6N441
Miravich, Simeon	Does Temperature Affect Magnets?	7P354
Nguyen, Vivian	Popcorn!	7N345
Nguyen, Ann	The Stroop Effect	7N355
Nguyen, Thientrin	Biodiesel Fuel: The Future of Energy	8N387
Nguyen, Christian	How Efficient is Ferro Fluid Mixtures' Magnetic Attraction?	8P351
Partsch, MacKenzie	Don't Text and Drive: The Effects of Distraction on Reaction Time	7N310

Pfeiffenberger, Victoria	Which Liquid Will Make a Plant Grow?	7N357
Poy, Jenny	Ice Melting	7P308
Renninger, Reese	Egg Drop	7P356
Roman, Michelle	Which Liquid Evaporates the Fastest?	7P398
Speck, Alexander	Heating Water with Electrically Heated Wires	7P303
Swavely, Kristen	Watts Up? - Which Material is the Best Conductor?	7P304
Uribe, Mayelin	Remember Which More	7N403
Wasielewski, Sarah	Does the Shape of an Ice Cube Affect How Fast it Melts?	7P302
Weyant, Joshua	Flammability of Sprayable Liquids	7P309
Zambito, Kevin	Good Things Come to Those Who "Weight"	7P399

Saint Ignatius Loyola School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Andre, Bradlee	What's the Fastest Way to Melt Ice?	7P437
Babiarz, David	Which Whitening Toothpaste?	8N286
Balash, Colin	Insulation: Do You Dress Right?	8P272
Berry, Olivia	Breathe in, Breathe Out	8N166
Birmingham, Kyra	How do Distractions Affect Your Brain's Memory?	7N297
Birmingham, Ann	Seeing Eyes	8N280
Brubaker, James	Do you Really Want that Mini?	8P318
Buerke, Katherine	Do Pictures Affect People's Moods?	6N047
Farst, Brendan	How Does Fog Form?	7N431
Fioravante, Michael	Does Temperature Affect the Elasticity of Rubber Bands?	7P275
Firestone, Felicity	Dog Kisses Helpful Or Horrible?	8N283
Fitzgerald, Sydney	Can Baking Powder Substitute for Baking Soda?	8P319
Fuchs, Kailey	Shaking for Suds	7N439
Genetti, Megan	Now that oh See it Now You Don't	7N423
Gordos, Andrew	Should You Rethink What You Drink?	8N270

Saint Ignatius Loyola School continued

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Gundersen, Connor	Which Type of Environment Increases the Risk of Mold in Bread	7N262
Hand, Ella	Do Mnemonics Affect the Brain's Ability to Memorize?	7N432
Helms, Margaret	Do You Stereotype?	8N279
Herbein, Alexa	Are Fingerprint Patterns Inherited?	7N264
Herman, Michael	What Materials Can Block A Wi-Fi Signal?	7P269
Hummel, Evan	How Much Weight to Loop the Loop?	7P419
Kailey, Sylmira	Does Gender Affect Color Preferences?	7N267
Kenny, Michael	How Much Do Electronics Affect Peoples' Attention?	8P322
Kirwan, Jacqueline	Can You Chew Your Way Into an "A"	8P313
Kresse, Justin	Is an Eyewitness Accurate?	8N259
LaFata, Karina	The Relationship Between Algae and Phosphorus	7N294
Logozzo, Francesca	Fertilizer: The Reason Your Grass Is NOT Growing?	8N320
Loose, Joseph	What Materials Have the Greatest Effect on an RDID Reader?	7P433
Miller, Mia	Which Brand of Volleyball is the Easiest to Set?	8P316
Mott, Alyssa	Does Fertilizer Help Plants Grow?	7N277

Nguyen, Kathy	How to Grow the Best and the Largest Crystal	7N268
Painton, Sarah	How Are Antibodies Used in Blood Typing?	7N340
Painton, Jacob	Does Location Affect Levels of Lead in Soil?	8N281
Pfromm, Alexander	Do Different Kinds of Artificial Light Affect Plant Growth?	8N284
Pickard, Julia	Comparing Vocal Ranges	8N312
Pilliod, Henry	Which Form of Traffic Control is the Most Efficient?	8P416
Plaggenborg, Peter	Are Childproof Containers Childproof?	7P295
Price, Jenna	Coffee or Tea	8N314
Ruffing, Megan	Which Liquid Cleans Coins The Best?	8P282
Rugh, Kayla	Why Can't All Meds. Be Pills?	8N271
Sauselen, Brianna	Do Fears Change With Ages??	8P321
Schade, Caleb	Spread the Soap not the Germs	7N296
Schlouch, Bella	Which Type of Metal is the Easiest to Bend?	7P339
Schreffler, Penelope	Cleaning Coins	7P293
Shiery, Grace	How Fertilizer Effects Plant Growth	8N317
Shirk, Kerry	Does Aloe on Strawberries Prevent them from Molding Quicker than Water?	8N266
Spada, Emanuele	How Tough Are Those Eggs?	8P287
Stelluti, James	Does Air Pressure Impact a Football?	7P338
Thomas, Shawna	Growing Apples	7N276
Towle, Evan	Does Sleeping Have an Effect On Test Scores?	8N396
Turczynski, Chase	Life after Freezing	8N265
Vasquez, Yeny	What Makes Those Colors?	7P263
Viveiros, Ian	Measuring the Sugar Content of a Liquid with a Laser	8P278

Saint Peter School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Duncan, Ashanti	Supertaster	8N067
Hernandez, Seleen	Are Electronic Devices Hazardous to Your Health?	8P104
Lachina, Jillian	How Sanitary is the Classroom?	8P090
Osorio, Evanez	Soap vs. Bacteria: Which Will Win?	8P103
Perez, Nathan	Which Soil Is Best?	6N098
Perrotto, Ebrianna	How Caffeine Affects Plant Growth	8N102
Sanchez, Kevin	Mold vs Cleaners	8N091

Schuykill Valley Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Zimmerman, Aubrey	Cross Body Exercise and Creativity	6N468

The King's Academy

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Borton, Elizabeth	Bacteria: Let's Have a Dance Party	MH031
Cawley, Abigail	Would You Care for a Bubbly?	CH157
Goodman, Sidney	Raw vs Pasteurized: Which Milk Kills E.coli?	MH163
Haslam, Carissa	Combating Antibiotic Resistance	MH015

Hoye, Ryan	Science behind a Field Goal Kick	6P169
Hoye, Melissa	How Salt Concentration Affects the Freezing Point of Water	CH032
Jamison, Landen	Melting Ice	6P244
Kim, Minyeong	Bye Bye Bacteria	MH028
Kuhn, Maya	Does Spatter Matter?	PH030
Kunz, Matthew	Airflow	6P394
McComsey, Madison	Carbonated Water is the Way to Growth!	BO025
Neiswender, Leah	Retaining Bacteria	MH026
Olugbodi, Oluwafolajinmi	The Mechanism of Aging and Carcinogenesis	MH164
Paquette, Samuel	An Ironic Solution	CH154
Rinehart, Jennifer	Sweet Polarization	PH158
Rowles, Caleb	Balloon Powered Car	6P167
Scott, Isaac	Watt Light Bulb is Best?	6P168
Shrom, Naomi	Fruit for Thought	MH155
Vanella, Brianna	Minty Blast	6N243

Tulpehocken Junior - Senior High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Angstadt, Kathryn	Will You Comprehend What You Read Better if Read Silently or Out Loud?	MH179
Avila, Andrea	Do People's Perspective Change When a Girl is Not Wearing Makeup?	MH176
Baransky, Abigale	Does Rooting Compound Effect the Growth of African Violets?	BO188
Bednarczyk, Lydia	Does Magnetism Affect the Regeneration of Planaria?	ZO177
Boltz, Brandie	The Benefits of Recycled Plastic Bridges to Standard Wood Bridges	BO174
Boyer, Matthew	Can Different Types of Chalk Increase Friction?	PH183
Dougherty, Caroline	Christen Eagle Vertical Penetration	PH185
Elicker, Leighan	Shy Verses Outgoing, Who Finds More Mistakes?	MH175
Elinsky, Amber	Can Humans Understand Values Greater Than Three?	MH180
Hulse, Tyler	Quality of Cameras	MC187
Mathias, Jonah	Bouncy Balls: How Air Pressure Affects a Ball's Bounce	PH184
Pacilio, Sean	How Does Salt Water Affect the Corrosion of Nails	ES186
Peiffer, Ashley	Is the Ranschburg Effect More Common in Adults or Children?	MH178
Quillman, Kristen	Using a Mirror to Create Phantom Sensations	MH182
Strahan, Patrick	How do Different Leaders in Charge of People Affect the Quality of Work?	MH189
Stricker, Justin	Which Toothpaste Wears Away the Most Tooth Enamel?	MH181
Thomas, Kristen	Pig Drawing Test	MH173

Wilson High School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Amin, Sanam	The Use of Nanotechnology In Modern Medicine and Industry	EN470
Border, Taylor	The Importance of Hydration	MH384
Burkert, Katie	Volleyball Knee-pad Effectiveness	MH391
Chai, Lindsey	Does belief increase performance?	MH405
Cheng, Megan	Efficiency of Eye Surgical Tools	EN386
Fern, Chandler	Fermentation of Different Sugars	CH471
Jani, Harshil	Best Building For Resisting Earthquakes	PH050

Kuser, Emily	Does Location Affect the Chemical Level in Soil?	CH446
Magalotti, Cameron	How Light Passes through Glass	PH407

Wilson High School continued

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Patel, Devanshi	The Stroop Effect	MH368
Prutzer, Gavin	Basketballs Loss of Energy When Dribbled	PH406
Rollman, Nathaniel	Lacrosse Concussion Test	PH409
Staron, Lance	Heart Rates	MH410
Yerram, Pooja	Dealing with Diabetes: The Road to Developing an Artificial Pancreas	MH425
Yu, Ally	Probiotics in Different Temperatures	MH408

Wilson West Middle School

<u>Student</u>	<u>Title</u>	<u>Exhibit #</u>
Agrawal, Shreya	Genetics vs Environment	8N009
Bhusari, Sanchita	Factors Which Help Yield the Cleanest Produce	7N444
Kalidindi, Aryan	Balloon Powered Car	6P424
Krock, Faith	Thermal Variations	6N427
Laffredo, Ryley	Bacteria and Growth vs Cleaning Products	7N469
Nayak, Krishna	Amount of Cross-Linking Agent vs. Product Distortion Over Multiple Use	8P260
Patel, Veraj	Evaluate the Most Comfortable Shoe Type Using Sensors	7P392
Shah, Amaya	Silver Microbes	7N360
Snyder, Colby	Magnetic Levitation Trains	6P447

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Mary Elizabeth Short

Sacred Heart School

Parisi, Danelle

Saint Catharine of Siena School

Fries, Kellee

Lavanga, Kathy Lynn

Saint Ignatius Loyola School

Berry, Kelly

Saint Peter School

Bayerle, Janice

The King's Academy

Slabinski, Anthony

Hewston, Robin

Tulpehocken Junior - Senior High School

Weidenheimer, Susan

Wilson High School

Melograna, Joe

Wilson West Middle School

Fick, Tim

Rhoades, Steve

Science Fair Participants by Project

Junior Division

Number	Student Name	School
<u>6th Grade Natural Science</u>		
6N001	Skylar Scarano	Fleetwood Area Middle School
6N047	Katherine Buerke	Saint Ignatius Loyola School
6N098	Nathan Perez	Saint Peter School
6N243	Brianna Vanella	The King's Academy

6N327 Jeel Patel LaSalle Academy

6th Grade Natural Science

6N328 Jade Matthias LaSalle Academy
6N329 Robert Silver LaSalle Academy
6N330 Garrett Horn LaSalle Academy
6N334 Paul Avadanian LaSalle Academy
6N335 Jillian Avadanian LaSalle Academy
6N411 Andela Kraycik Immaculate Conception Academy
6N412 Mya Salaneck Immaculate Conception Academy
6N413 Mitchell Gatz Immaculate Conception Academy
6N415 Gabriella Femino Immaculate Conception Academy
6N422 Nadine Dinnocenti Immaculate Conception Academy
6N427 Faith Krock Wilson West Middle School
6N441 Jacob Millman Saint Catharine of Siena School
6N468 Aubrey Zimmerman Schuylkill Valley Middle School

6th Grade Physical Science

6P037 Katy Bill Oley Valley Middle School
6P038 Kristina Kauffman Oley Valley Middle School
6P052 Gavin Wang Home School
6P167 Caleb Rowles The King's Academy
6P168 Isaac Scott The King's Academy
6P169 Ryan Hoye The King's Academy
6P244 Landen Jamison The King's Academy
6P331 Jonathan Horn LaSalle Academy
6P332 Austin Hill LaSalle Academy
6P333 David Yeckley LaSalle Academy
6P341 Ryan McMahon Governor Mifflin Intermediate School
6P352 Pierce Kasting LaSalle Academy
6P394 Matthew Kunz The King's Academy
6P418 Sabrina Knipe Immaculate Conception Academy
6P420 Abby Wolf Immaculate Conception Academy
6P421 Sean Reilly Immaculate Conception Academy
6P424 Aryan Kalidindi Wilson West Middle School
6P428 Grace Donato Saint Catharine of Siena School
6P429 Joyce Chan Saint Catharine of Siena School
6P435 Paul Impellizzeri Saint Catharine of Siena School
6P436 Hailey Keperling Saint Catharine of Siena School
6P443 Megan Lundstrom Saint Catharine of Siena School
6P447 Colby Snyder Wilson West Middle School

7th Grade Natural Science

7N005 Alyssa Matteoli Oley Valley Middle School
7N039 Julia Harris Holy Guardian Angels
7N044 Anthony Myers Holy Guardian Angels
7N045 Samuel Robertson Holy Guardian Angels

7N048	Haley Davis	Holy Guardian Angels
7N247	Layne Raczy	Governor Mifflin Middle School
7N258	Nathan Creelman	Governor Mifflin Middle School
<u>7th Grade Natural Science</u>		
7N262	Connor Gundersen	Saint Ignatius Loyola School
7N264	Alexa Herbein	Saint Ignatius Loyola School
7N267	Sylmira Kailey	Saint Ignatius Loyola School
7N268	Kathy Nguyen	Saint Ignatius Loyola School
7N276	Shawna Thomas	Saint Ignatius Loyola School
7N277	Alyssa Mott	Saint Ignatius Loyola School
7N289	Brooke Burrows	LaSalle Academy
7N294	Karina LaFata	Saint Ignatius Loyola School
7N296	Caleb Schade	Saint Ignatius Loyola School
7N297	Kyra Birmingham	Saint Ignatius Loyola School
7N298	Gina Coccia	LaSalle Academy
7N300	Sadie Hearing	Saint Catharine of Siena School
7N306	Kayla Kintzer	Saint Catharine of Siena School
7N310	MacKenzie Partsch	Saint Catharine of Siena School
7N323	Christelle Zablit	LaSalle Academy
7N325	Sophia Cortes	Saint Catharine of Siena School
7N326	Olivia Chiarelli	Saint Catharine of Siena School
7N340	Sarah Painton	Saint Ignatius Loyola School
7N343	Sydney Hodgson	Saint Catharine of Siena School
7N345	Vivian Nguyen	Saint Catharine of Siena School
7N346	Mia Hess	Saint Catharine of Siena School
7N355	Ann Nguyen	Saint Catharine of Siena School
7N357	Victoria Pfeiffenberger	Saint Catharine of Siena School
7N360	Amaya Shah	Wilson West Middle School
7N361	Alexis Martin	Muhlenberg Middle School
7N370	Desiree Sheetz	Muhlenberg Middle School
7N377	Isabella Duddy	Sacred Heart School
7N379	Victoria Heidecker	Sacred Heart School
7N382	Emily Morgan	Muhlenberg Middle School
7N388	Zackary Phillips	Antietam Middle-Senior High School
7N403	Mayelin Uribe	Saint Catharine of Siena School
7N423	Megan Genetti	Saint Ignatius Loyola School
7N431	Brendan Farst	Saint Ignatius Loyola School
7N432	Ella Hand	Saint Ignatius Loyola School
7N434	Christian Arbuckle	Immaculate Conception Academy
7N439	Kailey Fuchs	Saint Ignatius Loyola School
7N442	Drew Irey	Immaculate Conception Academy
7N444	Sanchita Bhusari	Wilson West Middle School
7N445	Gabriella Kurtas	Immaculate Conception Academy
7N448	Sarah Forkin	Immaculate Conception Academy
7N451	Samantha Schaeffer	Immaculate Conception Academy
7N452	William Gray	Immaculate Conception Academy
7N457	Timothy Dietrich	Muhlenberg Middle School

7th Grade Physical Science

7P002	William Jackson	Oley Valley Middle School
7P043	Lindsey Kroenig	Holy Guardian Angels
7P049	Kevin Brown	Holy Guardian Angels
7P066	Mark Hofmann	Governor Mifflin Middle School
7P092	Elizabeth Trumbore	Holy Guardian Angels
7P123	Dana Mejia	Holy Guardian Angels
7P125	Thea Piskorski	Holy Guardian Angels
7P171	Nathaniel Wert	Governor Mifflin Middle School
7P257	Amayah Esther Hector	Governor Mifflin Middle School
7P263	Yeny Vasquez	Saint Ignatius Loyola School
7P269	Michael Herman	Saint Ignatius Loyola School
7P274	Eliza Fries	Saint Catharine of Siena School
7P275	Michael Fioravante	Saint Ignatius Loyola School
7P288	Megan Vance	LaSalle Academy
7P290	Lauren Good	LaSalle Academy
7P291	Dale Belville	LaSalle Academy
7P292	Joseph Giesen	LaSalle Academy
7P293	Penelope Schreffler	Saint Ignatius Loyola School
7P295	Peter Plaggenborg	Saint Ignatius Loyola School
7P299	Joshua Stahovich	LaSalle Academy
7P301	Abigail Franey	Saint Catharine of Siena School
7P302	Sarah Wasielevski	Saint Catharine of Siena School
7P303	Alexander Speck	Saint Catharine of Siena School
7P304	Kristen Swavely	Saint Catharine of Siena School
7P305	Abigail Atkins	Saint Catharine of Siena School
7P307	Benjamin Maurer	Saint Catharine of Siena School
7P308	Jenny Poy	Saint Catharine of Siena School
7P309	Joshua Weyant	Saint Catharine of Siena School
7P311	Lucas Hyneman	LaSalle Academy
7P315	Mariella Frisina	LaSalle Academy
7P324	Jonathan Cartagena	Saint Catharine of Siena School
7P336	Mandy Maiers	LaSalle Academy
7P337	Michael Schuetz	LaSalle Academy
7P338	James Stelluti	Saint Ignatius Loyola School
7P339	Bella Schlouch	Saint Ignatius Loyola School
7P342	Olivia Geishauser	Saint Catharine of Siena School
7P344	Meredith Feeney	Saint Catharine of Siena School
7P354	Simeon Miravich	Saint Catharine of Siena School
7P356	Reese Renninger	Saint Catharine of Siena School
7P362	Griffin Kelly	Governor Mifflin Middle School

7P376	Cole Naso	Sacred Heart School
7P378	Kevin Schroder	Sacred Heart School
7P380	Fay Moser	Sacred Heart School
7P392	Veraj Patel	Wilson West Middle School
7P395	Michael Kerchner	Antietam Middle-Senior High School
7P398	Michelle Roman	Saint Catharine of Siena School
7P399	Kevin Zambito	Saint Catharine of Siena School

7th Grade Physical Science

7P419	Evan Hummel	Saint Ignatius Loyola School
7P433	Joseph Loose	Saint Ignatius Loyola School
7P437	Bradlee Andre	Saint Ignatius Loyola School
7P438	Peyton Goodrich	Immaculate Conception Academy
7P440	Madison Femino	Immaculate Conception Academy
7P449	Adam Hennessey	Immaculate Conception Academy
7P466	Andrew Duong	Antietam Middle-Senior High School
7P476	Nathaniel Wortman	Antietam Middle-Senior High School

8th Grade Natural Science

8N006	Andrew Kline	Oley Valley Middle School
8N007	Erin Readinger	Oley Valley Middle School
8N009	Shreya Agrawal	Wilson West Middle School
8N010	Veronica Botch	Holy Guardian Angels
8N019	Quinn Malinowski	Holy Guardian Angels
8N023	Farren Christ	Holy Guardian Angels
8N024	Michaela Rosenberger	Holy Guardian Angels
8N027	Amara Midouhas	Holy Guardian Angels
8N036	Ryan Sheetz	Oley Valley Middle School
8N040	Tamara Barrera	Holy Guardian Angels
8N054	Brianna Yale	Conrad Weiser Middle School
8N055	Maddie Fox	Conrad Weiser Middle School
8N057	Natalie McFadden	Conrad Weiser Middle School
8N059	Gracie George	Conrad Weiser Middle School
8N060	Leah Stoltzfus	Conrad Weiser Middle School
8N062	Nash Ely	Conrad Weiser Middle School
8N063	Connor Bross	Conrad Weiser Middle School
8N067	Ashanti Duncan	Saint Peter School
8N091	Kevin Sanchez	Saint Peter School
8N102	Ebrianna Perrotto	Saint Peter School
8N165	Noah Clipman	Governor Mifflin Middle School
8N166	Olivia Berry	Saint Ignatius Loyola School
8N240	Gina Fiore	Governor Mifflin Middle School
8N249	Jordan Wilkinson	Oley Valley Middle School
8N259	Justin Kresse	Saint Ignatius Loyola School
8N265	Chase Turczynski	Saint Ignatius Loyola School
8N266	Kerry Shirk	Saint Ignatius Loyola School
8N270	Andrew Gordos	Saint Ignatius Loyola School
8N271	Kayla Rugh	Saint Ignatius Loyola School

8N279	Margaret Helms	Saint Ignatius Loyola School
8N280	Ann Birmingham	Saint Ignatius Loyola School
8N281	Jacob Painton	Saint Ignatius Loyola School
8N283	Felicity Firestone	Saint Ignatius Loyola School
8N284	Alexander Pfromm	Saint Ignatius Loyola School
8N286	David Babiarz	Saint Ignatius Loyola School
8N312	Julia Pickard	Saint Ignatius Loyola School
8N314	Jenna Price	Saint Ignatius Loyola School
8N317	Grace Shierly	Saint Ignatius Loyola School

8th Grade Natural Science

8N320	Francesca Logozzo	Saint Ignatius Loyola School
8N365	Kalea Gregoris	Conrad Weiser Middle School
8N367	Hayleigh Monroe	Conrad Weiser Middle School
8N371	Andrew Maurer	Sacred Heart School
8N372	Andrew McConnell	Sacred Heart School
8N374	Genesis Guzman	Sacred Heart School
8N375	Elizabeth Goodman	Sacred Heart School
8N381	Avery Landrum	Muhlenberg Middle School
8N383	Brandon Simmons	Muhlenberg Middle School
8N387	Thientrinh Nguyen	Saint Catharine of Siena School
8N389	Samantha Hensel	Muhlenberg Middle School
8N390	Kendra Dennis	Muhlenberg Middle School
8N396	Evan Towle	Saint Ignatius Loyola School
8N414	Kari Leshner	Oley Valley Middle School
8N454	Saffrin Schaeffer	Immaculate Conception Academy
8N456	Kaliegh Herb	Immaculate Conception Academy
8N458	Olivia Patches	Oley Valley Middle School
8N460	Hollie Bower	Oley Valley Middle School
8N461	Giselle Esquivel	Muhlenberg Middle School
8N465	Myriah Heydt	Muhlenberg Middle School
8N472	Meredith Groves	Oley Valley Middle School

8th Grade Physical Science

8P003	Everett Daniels Wright	Muhlenberg Middle School
8P004	Casey Lang	Oley Valley Middle School
8P020	Will Hertzog	Holy Guardian Angels
8P021	Dante Porcaro	Holy Guardian Angels
8P022	Michelle Nguyen	Holy Guardian Angels
8P041	Kylee Iswalt	Holy Guardian Angels
8P042	Andric Brena	Holy Guardian Angels
8P056	Amanda Baker	Conrad Weiser Middle School
8P058	Briley Cox	Conrad Weiser Middle School
8P064	Owen Dautrich	Conrad Weiser Middle School
8P065	Jack Schoener	Conrad Weiser Middle School
8P090	Jillian Lachina	Saint Peter School
8P103	Evanez Osorio	Saint Peter School

8P104	Seleen Hernandez	Saint Peter School
8P246	Nautica Bourland	Governor Mifflin Middle School
8P260	Krishna Nayak	Wilson West Middle School
8P272	Colin Balash	Saint Ignatius Loyola School
8P278	Ian Viveiros	Saint Ignatius Loyola School
8P282	Megan Ruffing	Saint Ignatius Loyola School
8P287	Emanuele Spada	Saint Ignatius Loyola School
8P313	Jacqueline Kirwan	Saint Ignatius Loyola School
8P316	Mia Miller	Saint Ignatius Loyola School
8P318	James Brubaker	Saint Ignatius Loyola School
8P319	Sydney Fitzgerald	Saint Ignatius Loyola School
8P321	Brianna Sauselen	Saint Ignatius Loyola School

8th Grade Physical Science

8P322	Michael Kenny	Saint Ignatius Loyola School
8P347	Kaylie Vu	LaSalle Academy
8P348	Daniel Stahovich	LaSalle Academy
8P349	Brigham Kobularcik	LaSalle Academy
8P350	Andrew Stout	LaSalle Academy
8P351	Christian Nguyen	Saint Catharine of Siena School
8P358	Danny Hoffman	Oley Valley Middle School
8P359	Jacklyn Clauss	Conrad Weiser Middle School
8P363	Nikolas Gresoi	Conrad Weiser Middle School
8P364	Matthew Noll	Conrad Weiser Middle School
8P366	Elise Cole	Conrad Weiser Middle School
8P373	Christine Yu	Sacred Heart School
8P397	Austin Lobaugh	Immaculate Conception Academy
8P400	Jordan Yerger	Immaculate Conception Academy
8P401	Julia Ferreira	LaSalle Academy
8P402	Ethan Kraycik	Immaculate Conception Academy
8P404	Riley Adams	Immaculate Conception Academy
8P416	Henry Pilliod	Saint Ignatius Loyola School
8P450	Jasmyn Moore	Oley Valley Middle School
8P453	Joey Walker	Immaculate Conception Academy
8P455	Alyssa Fontana	Immaculate Conception Academy

Senior Division

Number	Student Name	School
<u>Botany</u>		
BO013	Andrew Keylor	Berks Christian School
BO025	Madison McComsey	The King's Academy
BO072	John Metzinger	Governor Mifflin Senior High School
BO074	Hailey Epler	Governor Mifflin Senior High School
BO076	Melchiah Etienne	Governor Mifflin Senior High School
BO079	Jonathan Beyer	Governor Mifflin Senior High School
BO080	Mark Andrus	Governor Mifflin Senior High School
BO082	Hannah Knox	Governor Mifflin Senior High School

BO083	Jake Novotny	Governor Mifflin Senior High School
BO084	Morgan Mathieu	Governor Mifflin Senior High School
BO085	Ianthia Ellis	Governor Mifflin Senior High School
BO087	Madison Barnett	Governor Mifflin Senior High School
BO088	Michael Petricoin	Governor Mifflin Senior High School
BO089	Jimmy Fritz	Governor Mifflin Senior High School
BO096	Rachel Kostival	Berks Catholic High School
BO097	Daniel Fromuth	Berks Catholic High School
BO107	Bethany Ruoss	Governor Mifflin Senior High School
BO126	Victoria Mosco	Governor Mifflin Senior High School
BO127	Hannah Teson	Governor Mifflin Senior High School
BO132	Courtney Hubric	Governor Mifflin Senior High School
BO133	Andrea Miller	Governor Mifflin Senior High School
BO138	Andrew Erb	Governor Mifflin Senior High School

Botany

BO143	Tyler Ordoyne	Governor Mifflin Senior High School
BO144	Sawyer Underwood	Governor Mifflin Senior High School
BO146	Gabriella Torchia	Conrad Weiser HS
BO160	Shae Himmelberger	Berks Catholic High School
BO170	Jakeb Benedict	Berks Catholic High School
BO174	Brandie Boltz	Tulpehocken Junior - Senior High
BO188	Abigale Baransky	Tulpehocken Junior - Senior High
BO192	Jason Moyer	Governor Mifflin Senior High School
BO213	Kou Kue	Governor Mifflin Senior High School
BO215	Vincent Terrey	Governor Mifflin Senior High School
BO227	Jillian Schultz	Governor Mifflin Senior High School
BO230	Rebecca Brown	Governor Mifflin Senior High School
BO231	Mya Knappenberger	Governor Mifflin Senior High School
BO232	Jackson Sinnamon	Governor Mifflin Senior High School
BO238	Alexander Dewalt	Governor Mifflin Senior High School
BO239	Natalie Jones	Governor Mifflin Senior High School
BO248	Benjamin Sumner	Conrad Weiser HS
BO369	Dylan Schoemaker	Conrad Weiser HS

Chemistry

CH017	Ryenne Carroll	Berks Catholic High School
CH018	Baotram Nguyen	Berks Catholic High School
CH032	Melissa Hoyer	The King's Academy
CH069	Bobbie King	Governor Mifflin Senior High School
CH075	Katarina Brown	Governor Mifflin Senior High School
CH086	Kaitlyn Mazzocchi	Governor Mifflin Senior High School
CH095	Kaitlyn Osorio	Berks Catholic High School
CH100	Monica Nguyen	Berks Catholic High School
CH109	Sienna Montalvo	Governor Mifflin Senior High School
CH111	Dominic Galantuomo	Governor Mifflin Senior High School
CH114	Ava Enriquez	Governor Mifflin Senior High School
CH115	Annie Francone	Governor Mifflin Senior High School

CH118	Jena Noll	Governor Mifflin Senior High School
CH120	Ryan Naugle	Governor Mifflin Senior High School
CH121	Callum Wilson	Governor Mifflin Senior High School
CH128	Lindsey Diggan	Governor Mifflin Senior High School
CH129	Grace Smith	Governor Mifflin Senior High School
CH131	Anthony Maldonado	Governor Mifflin Senior High School
CH148	Nicole Weinstein	Governor Mifflin Senior High School
CH149	Megan Kane	Berks Catholic High School
CH151	Hilary Good	Berks Catholic High School
CH154	Samuel Paquette	The King's Academy
CH157	Abigail Cawley	The King's Academy
CH172	Gia Duddy	Berks Catholic High School
CH190	Kaitlyn Sharpley	Governor Mifflin Senior High School
CH191	Matthew Brown	Governor Mifflin Senior High School
CH195	Wyatt Kriebel	Governor Mifflin Senior High School
CH203	Kylie Boltz	Governor Mifflin Senior High School

Chemistry

CH205	Jade Herbert	Governor Mifflin Senior High School
CH207	Alex Coldren	Governor Mifflin Senior High School
CH208	Alec Ernst	Governor Mifflin Senior High School
CH217	Lauren Rothenberger	Governor Mifflin Senior High School
CH226	Kallan Carter	Governor Mifflin Senior High School
CH234	Haiden Wall	Governor Mifflin Senior High School
CH235	David Weaver	Governor Mifflin Senior High School
CH237	Isabela Santiesteban	Governor Mifflin Senior High School
CH430	Maryed Saint-Hilaire	Berks Christian School
CH446	Emily Kuser	Wilson High School
CH471	Chandler Fern	Wilson High School

Engineering

EN011	Connor McFadden	Conrad Weiser HS
EN122	Thomas Pytrysson	Governor Mifflin Senior High School
EN140	Niko Sarangoulis	Governor Mifflin Senior High School
EN193	Kailyn Williams	Governor Mifflin Senior High School
EN242	Luke Andreyo	Berks Catholic High School
EN386	Megan Cheng	Wilson High School
EN393	Ji Hann Hong	Governor Mifflin Senior High School
EN470	Sanam Amin	Wilson High School

Earth and Space

ES033	Adrian Fares	Berks Catholic High School
ES150	Joseph Albert	Berks Catholic High School
ES186	Sean Pacilio	Tulpehocken Junior - Senior High
ES463	Brian Concannon	Conrad Weiser HS
ES474	Mikayla Traini	Governor Mifflin Senior High School

Math and Computers

MC012	Loc Phan	Berks Catholic High School
MC035	Ethan Stoney	Berks Catholic High School
MC141	Stanley Kemp	Governor Mifflin Senior High School
MC152	Meg Robertson	Berks Catholic High School
MC187	Tyler Hulse	Tulpehocken Junior - Senior High

Medicine and Health

MH008	Megan Meyers	Conrad Weiser HS
MH015	Carissa Haslam	The King's Academy
MH016	Delaney Doran	Berks Catholic High School
MH026	Leah Neiswender	The King's Academy
MH028	Minyeong Kim	The King's Academy
MH031	Elizabeth Borton	The King's Academy
MH034	Bethany Davidheiser	Berks Catholic High School
MH046	Patrick Buerke	Berks Catholic High School
MH051	Anya Smith	Berks Catholic High School
MH053	Megan Yoder	Berks Catholic High School

Medicine and Health

MH068	Ahmed Toure	Governor Mifflin Senior High School
MH070	Julien Thomasset	Governor Mifflin Senior High School
MH071	Cheyenne Rodriguez	Governor Mifflin Senior High School
MH073	Jadyn Smith	Governor Mifflin Senior High School
MH077	Saige Yoder	Governor Mifflin Senior High School
MH093	Rini Kaneria	Conrad Weiser HS
MH094	Mark Stone	Berks Catholic High School
MH101	Katy Burke	Berks Catholic High School
MH105	Sophia Ferrero	Governor Mifflin Senior High School
MH106	Mitchell Brown	Governor Mifflin Senior High School
MH108	Paul Lockard	Governor Mifflin Senior High School
MH110	Morgan Magdalinski	Governor Mifflin Senior High School
MH113	Blake Patterson	Governor Mifflin Senior High School
MH116	Kaelin Walton	Governor Mifflin Senior High School
MH117	Dorothy Braid	Governor Mifflin Senior High School
MH119	Caitlyn Haas	Governor Mifflin Senior High School
MH124	Isabella Butler	Berks Catholic High School
MH134	Megan Kleinsmith	Governor Mifflin Senior High School
MH135	Delanie Gossert	Governor Mifflin Senior High School
MH136	Camryn Hubric	Governor Mifflin Senior High School
MH139	Collin Kiwak	Governor Mifflin Senior High School
MH142	Zach King	Governor Mifflin Senior High School
MH145	Alex Weinstein	Governor Mifflin Senior High School
MH147	Morgan Fleischood	Governor Mifflin Senior High School
MH153	Aubrey Naugle	Governor Mifflin Senior High School
MH155	Naomi Shrom	The King's Academy
MH159	Francis Masangcay	Berks Catholic High School

MH162	Ben Correas	Governor Mifflin Senior High School
MH163	Sidney Goodman	The King's Academy
MH164	Oluwafolajinmi Olugbodi	The King's Academy
MH173	Kristen Thomas	Tulpehocken Junior - Senior High
MH175	Leighan Elicker	Tulpehocken Junior - Senior High
MH176	Andrea Avila	Tulpehocken Junior - Senior High
MH178	Ashley Peiffer	Tulpehocken Junior - Senior High
MH179	Kathryn Angstadt	Tulpehocken Junior - Senior High
MH180	Amber Elinsky	Tulpehocken Junior - Senior High
MH181	Justin Stricker	Tulpehocken Junior - Senior High
MH182	Kristen Quillman	Tulpehocken Junior - Senior High
MH189	Patrick Strahan	Tulpehocken Junior - Senior High
MH194	Lorenzo Santos	Governor Mifflin Senior High School
MH199	Michael Franks	Governor Mifflin Senior High School
MH202	Morgan MacMahon	Governor Mifflin Senior High School
MH204	Zoe Yarosz	Governor Mifflin Senior High School
MH209	Alesia Garcia	Governor Mifflin Senior High School
MH210	Colleen Boggs	Governor Mifflin Senior High School
MH211	Josh Rowe	Governor Mifflin Senior High School
MH212	Emilie Gerhard	Governor Mifflin Senior High School
MH216	Seth Spayd	Governor Mifflin Senior High School

Medicine and Health

MH218	Natasha Halulakos	Governor Mifflin Senior High School
MH219	Carson Farmer	Governor Mifflin Senior High School
MH221	Brooke Cerbone	Governor Mifflin Senior High School
MH223	Sam Ney	Governor Mifflin Senior High School
MH224	Kayla Grant	Governor Mifflin Senior High School
MH225	Andrea Taveras	Governor Mifflin Senior High School
MH241	Dylan Moser	Governor Mifflin Senior High School
MH245	Liza Miller	Berks Catholic High School
MH273	Joseph Gresoi	Conrad Weiser HS
MH353	Taylor Bilbao	Governor Mifflin Senior High School
MH368	Devanshi Patel	Wilson High School
MH384	Taylor Border	Wilson High School
MH391	Katie Burkert	Wilson High School
MH405	Lindsey Chai	Wilson High School
MH408	Ally Yu	Wilson High School
MH410	Lance Staron	Wilson High School
MH425	Pooja Yerram	Wilson High School
MH462	Alexa Schneck	Conrad Weiser HS
MH467	Madalyn Frasch	Conrad Weiser HS
MH473	Donald Tice	Governor Mifflin Senior High School

Physics

PH030	Maya Kuhn	The King's Academy
PH050	Harshil Jani	Wilson High School
PH081	Kayla Del Vecchio	Governor Mifflin Senior High School

PH112	Trevor Grandfield	Governor Mifflin Senior High School
PH137	Tara Grennan	Governor Mifflin Senior High School
PH156	Jasmine Eastburn	Governor Mifflin Senior High School
PH158	Jennifer Rinehart	The King's Academy
PH183	Matthew Boyer	Tulpehocken Junior - Senior High
PH184	Jonah Mathias	Tulpehocken Junior - Senior High
PH185	Caroline Dougherty	Tulpehocken Junior - Senior High
PH197	Peter Ocasio	Governor Mifflin Senior High School
PH198	Connor Callaghan	Governor Mifflin Senior High School
PH200	Vincent Moore	Governor Mifflin Senior High School
PH228	Boston Patton	Governor Mifflin Senior High School
PH406	Gavin Prutzer	Wilson High School
PH407	Cameron Magalotti	Wilson High School
PH409	Nathaniel Rollman	Wilson High School
PH417	Cristopher Laureano	Berks Christian School

Zoology

ZO014	Caroline Golembiewski	Berks Catholic High School
ZO029	Kelsey O'Brien	Conrad Weiser HS
ZO099	Nicholas Fioravante	Berks Catholic High School
ZO130	Haley Santiago	Governor Mifflin Senior High School
ZO177	Lydia Bednarczyk	Tulpehocken Junior - Senior High
ZO196	Logan Kramer	Governor Mifflin Senior High School

Zoology

ZO201	Benjamin Knapper	Governor Mifflin Senior High School
ZO206	Skyla Dodge	Governor Mifflin Senior High School
ZO236	Jakob Bolles	Governor Mifflin Senior High School
ZO261	Luke Painton	Berks Catholic High School
ZO385	Marlin Thomas	Governor Mifflin Senior High School
ZO475	Madilyn Getz	Conrad Weiser HS

Summary of Entries by Category

6N	18
6P	23
7N	53
7P	55
8N	59
8P	47
BO	40
CH	39
EN	8
ES	5
MC	5
MH	78
PH	18
ZO	12
Total Entries	460

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 1 Michele Swope Holy Name Botany
2 Christopher Fraley Wilson Math & Computers
3 Heather Shimp Holy Name EarthSpace

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 EarthSpace
1989	1 Sharon Pilarski Holy Name Med./Health 2 Michael Thompson Central Catholic Zoology 3 Daniel Cherrie Oley Physics
1990	1 Lawrence Moore Governor Mifflin Zoology 2 Stephen Kelley Governor Mifflin Physics 3 Theresa Helms Holy Name Med/Health
1991	1 George Gumbrell Boyertown Physics 2 Lawrence Moore Governor Mifflin Zoology 3 Peter A. Daley Wilson Physics
1992	1 - Michael Rhoades - Oley 2 - Peter Daley - Wilson 3 - Stephen Kelley - Governor Mifflin
1993	1 - Michael Rhoads - Oley 2 - Peter Daley - Wilson 3 - Gregory Emkey - Holy Name
1994	1 - Gregory Emkey - Holy Name 2 - Derek Robinson - Wilson 3 - Nicholas Warischalk - Reading Central Catholic
1995	1 - Gerry Lee - Wilson 2 - Joshua Himmelberger - Hamburg 3 - Stephen Emkey - Holy Name
1996	1 - Joshua Himmelberger - Hamburg 2 - Stephen Emkey - Holy Name 3 - Michael Nieman - Oley Valley
1997	1 - Brett DePoister - Reading Central Catholic 2 - Joshua Himmelberger - Hamburg 3 - Stephen Emkey - Holy Name
1998	1 - Brett DePoister - Reading Central Catholic 2 - Jesse Belanger - Oley Valley 3 - Kristina Sanford - Wilson
1999	1 - Jeff Payne - Wilson 2 - Kyle Usbeck - Wilson 3 - Stacey Blanck - Exeter
2000	1 - Kyle Usbeck - Wilson 2 - Jeff Payne - Wilson 3 - Dan Vroman - Exeter
2001	1 - Katie Sanford - Wilson 2 - Kyle Usbeck - Wilson 3 - Bradford James Brizek - Conrad Weiser
2002	1 - Jeffrey Pawlikowski - Conrad Weiser 2 - Katie Sanford - Wilson 3 - Nickolas Timpe - Home School

2003	1 - Denise Gardner - Conrad Weiser 2 - Kathryn Sanford - Wilson 3 - Nickolas Timpe - Home School
2004	1 - Thomas Trudel - Muhlenberg 2 - Kathryn Sanford - Wilson 3 - Peter Littlefield - Oley Valley
2005	1 - Hilary Peterson - Conrad Weiser 2 - Thomas Trudel - Muhlenberg 3 - Matthew Gardner - Conrad Weiser
2006	1 - Kimberly Larrabee - Reading 2 - Alex Youst - Conrad Weiser 3 - Jon Rittle - Conrad Weiser
2007	1 - Alex Quaintance - Muhlenberg 2 - Christopher Zimmerman - Muhlenberg 3 - Nicholas Showalter - Conrad Weiser
2008.	1 – Christopher Zimmerman – Muhlenberg 2 – Rachel Bigos – Holy Name 3 – Ryan Moraski – Conrad Weiser
2009.	1 – Seth Fisher – The King’s Academy 2 – Vincent Zampelli – Conrad Weiser 3 – John Keller – The King’s Academy
2010	1 – John Keller – The King’s Academy 2 – Gregory Scanlon – Holy Name HS 3 – Miranda Haslam – The King’s Academy
2011	1 – Matthew Weidner – Brandywine HS 2 – Miranda Haslam – The King’s Academy 3 – Aubrie Potteiger – Muhlenberg Middle
2012	1 – Matthew Weidner – Brandywine HS 2 – Andrew Przyjemski – Governor Mifflin HS 3 – Grant Bayer – Tulpehocken HS
2013	1 – Stephanie Keller – Conrad Weiser HS 2 – Megan Campbell – Conrad Weiser HS 3 – Catharine Scoboria – Berks Catholic HS
2014	1 – Andrew Przyjemski – Governor Mifflin HS 2 - Matthew Weidner – Brandywine HS 3 - Catharine Scoboria – Berks Catholic HS
2015	1 - Andrew Przyjemski – Governor Mifflin HS 2 – Marlin Thomas – Governor Mifflin HS 3 – Kayla Petersen - The King’s Academy

Thank you to the parents, students, teachers, judges and all of our sponsors. Special thanks to all of the volunteers and the staff at Albright College. This is our 64th year. We like to think we have gotten good at running a successful science fair. This year presented a special challenge with Albright doing renovations to the gym. We thank you for your understanding and hope to see many of you again next year.

