

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Ambridge Junior High School**

Principal: **K. Roppa**

Jenna McFarland Teacher: Donald Ayers

What is Hydraulic Fracturing

Award	Place	Type
Penn State College of Earth and Mineral Sciences	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Apollo-Ridge Middle/High School**

Principal: **Daniel Consuegra**

Megan Ost		Teacher: Danielle White	
<i>Testing the Structural Integrity of Buildings During Earthquakes</i>			
Award	Place	Type	
Perseverance Award - Associate Scientist	N/A	Perseverance	

Dominick Cicala		Teacher: Danielle White	
<i>The Effect of Naturally Occurring Chemical Agents on Bacteria</i>			
Award	Place	Type	
Duquesne University Summer Undergraduate Research Program	N/A	Scholarship	
Perseverance Award - Associate Scientist	N/A	Perseverance	

Brianna Hodak		Teacher: Danielle White	
<i>Do You Kiss Your Mama With That Mouth?</i>			
Award	Place	Type	
Perseverance Award - Associate Scientist	N/A	Perseverance	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Aquinas Academy of Pittsburgh**

Principal: **Leslie Mitros**

John Griffith Teacher: Dorina Manolache

Soundwave Obstruction; Is CO2 Behind It?

Award	Place	Type
Physics - Intermediate	Second Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Baden Academy**
 Principal: **Craig Jeffers**

Brody Schmitt		Teacher: Ellen Cavanaugh	
<i>Which Drink Stains Teeth the Most?</i>			
Award	Place	Type	
Chemistry - Junior	Fourth Place	Category	

Rylee Kumer		Teacher: Ellen Cavanaugh	
<i>Create Structures to Withstand Seismic Waves</i>			
Award	Place	Type	
Association for Women GeoScientists	N/A	Affiliate	
Michael Baker Corporation	N/A	Sponsor	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Beaver County Christian School**

Principal: **Doug Carson**

Audrey McMahan Teacher: LuAnn Eaton

Pumpkin Eating Contest

Award	Place	Type
Biology - Intermediate	Second Place	Category
Carnegie Mellon University Dept.of Biological Sciences	N/A	Sponsor

Maddie Eaton Teacher: LuAnn Eaton

Everyone Needs A Story

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Olivia DeSarbo Teacher: LuAnn Eaton

Hot or Not

Award	Place	Type
Chemistry - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Blessed Francis Seelos Academy**
 Principal: **Robert Reese**

Michael Gill Teacher: David Blozowich
Does bridge design affect weight bearing capacity?

Award	Place	Type
Association for Bridge Construction & Design	N/A	Sponsor

Hayley Baranowski Teacher: David Blozowich
How Safe is My Yoga Mat?

Award	Place	Type
Young Women in Bio	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Cambria Heights High School**

Principal: **Kenneth Kerchenske**

Lindsey Drass Teacher: Nathaniel Wharton

Crayfish and Dissolved Oxygen Levels

Award	Place	Type
Carlow University	N/A	Scholarship
Clarion University	N/A	Scholarship
Juniata College	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance
Slippery Rock University (Scholarship)	N/A	Scholarship
St. Vincent College	N/A	Scholarship

Paige McConnell Teacher: Nathaniel Wharton

Daphnia Magna and Oil

Award	Place	Type
Clarion University	N/A	Scholarship
Juniata College	N/A	Scholarship
La Roche College	N/A	Scholarship
Mt. Aloysius College	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance
St. Francis University	N/A	Scholarship

Scott Riner Teacher: Nathaniel Wharton

The Effects of Wi-Fi on Daphnia Activity Levels

Award	Place	Type
Juniata College	N/A	Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Perseverance Award - Associate Scientist

N/A

Perseverance

Sam Snyder

Teacher: Nathaniel Wharton

Grey to Green

Award

Place

Type

Mt. Aloysius College

N/A

Scholarship

Adam Carpinello

Teacher: Nathaniel Wharton

Genre of Music Affecting Sleeping Patterns

Award

Place

Type

Perseverance Award - Junior Scientist

N/A

Perseverance

Erin Choby

Teacher: Nathaniel Wharton

Generations and Social Justice

Award

Place

Type

Mt. Aloysius College

N/A

Scholarship

Perseverance Award - Honorary Scientist

N/A

Perseverance

Pittsburgh Psychoanalytic Center

N/A

Sponsor

Emily Hayes

Teacher: Nathaniel Wharton

Did Anyone Call For An Accident? Distracted Driving

Award

Place

Type

American Psychological Association

N/A

Affiliate

Behavioral and Social Science - Senior

Fourth Place

Category

Perseverance Award - Junior Scientist

N/A

Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Olivia Hite		Teacher: Nathaniel Wharton	
<i>Distracted Driving</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Abbey Krug		Teacher: Nathaniel Wharton	
<i>Did You See the Chicken?</i>			
Award	Place	Type	
Behavioral and Social Science - Senior	Third Place	Category	
Penn State Altoona	N/A	Scholarship	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Karly Maslonik		Teacher: Nathaniel Wharton	
<i>Investigating Predisposition in Crimes</i>			
Award	Place	Type	
Gannon University	N/A	Scholarship	
Penn State Altoona	N/A	Scholarship	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Kaitlyn Sherwood		Teacher: Nathaniel Wharton	
<i>Rock On or Rock Bottom?</i>			
Award	Place	Type	
Perseverance Award - Associate Scientist	N/A	Perseverance	

Brynn Thomas		Teacher: Nathaniel Wharton	
<i>Does Screen Time Affect Sleep?</i>			
Award	Place	Type	
Behavioral and Social Science - Senior	Fourth Place	Category	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Mt. Aloysius College	N/A	Scholarship
Perseverance Award - Junior Scientist	N/A	Perseverance

David Pence		Teacher: Nathaniel Wharton
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Best Truss Designs

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Alan Venesky		Teacher: Nathaniel Wharton
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Most effective Optical Camouflage

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Jayme Ertter		Teacher: Nathaniel Wharton
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Copper Corrosion with Water

Award	Place	Type
Clarion University	N/A	Scholarship
Stockholm Junior Water Prize/Water Environment Federation	N/A	Affiliate

Alice Hoover		Teacher: Nathaniel Wharton
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Does it Pay to Paint?

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance
The Pittsburgh Chapter of ACI	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Patrick Hoover

Teacher: Nathaniel Wharton

Methane Digester for Gas Production

Award	Place	Type
Duquesne University, Bayer School of Natural and Environmental Sciences	N/A	Sponsor
Earth/Space/Environment - Senior	Second Place	Category
Perseverance Award - Honorary Scientist	N/A	Perseverance
St. Vincent College	N/A	Scholarship

Matthew Illig

Teacher: Nathaniel Wharton

Steam is Still Great

Award	Place	Type
Penn State Altoona	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance
Point Park University	N/A	Scholarship
Society of American Military Engineers - Pittsburgh Post	N/A	Sponsor

Paul Kinney

Teacher: Nathaniel Wharton

Absorbing Oil

Award	Place	Type
Covestro LLC	N/A	Sponsor
Earth/Space/Environment - Senior	Fourth Place	Category
Perseverance Award - Honorary Scientist	N/A	Perseverance
St. Francis University	N/A	Scholarship

Nikki McCombie

Teacher: Nathaniel Wharton

Voltage Output in Solar Panels

Award	Place	Type
Earth/Space/Environment - Senior	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Perseverance Award - Junior Scientist

N/A

Perseverance

Elizabeth Sopata

Teacher: Nathaniel Wharton

Filtration for the Nations

Award

Place

Type

Perseverance Award - Junior Scientist

N/A

Perseverance

Nathan Phillips

Teacher: Nathaniel Wharton

Natural Vs Synthetic Antibiotics

Award

Place

Type

Juniata College

N/A

Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Cambria Heights Middle School**

Principal: **Jarrold Lewis**

Addison Balzano Teacher: Christina Fetsko
Bad Bettas

Award	Place	Type
Broadcom MASTERS International Award Winners	N/A	Other

Molly Hayes Teacher: Christina Fetsko
Phantom Limb Syndrome

Award	Place	Type
Behavioral and Social Science - Intermediate	First Place	Category
Carnegie Science Awards Intermediate Division	N/A	Other

Braden Thomas Teacher: Christina Fetsko
Spinbrush vs. Manual Toothbrush - Which will Clean Stained Teeth the Best?

Award	Place	Type
Medicine/Health/Microbiology - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Carson Middle School**

Principal: **Katherine Jenkins**

Lillian Paul

Teacher: Sarah LeDonne

Do Plants Like Coffee Too?

Award	Place	Type
Biology - Intermediate	Fourth Place	Category

Oscar Heller

Teacher: Sarah LeDonne

What Factors Affect Hydrogen Production From Salt Water Hydrolysis

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance
Society for Analytical Chemists of Pittsburgh	N/A	Sponsor

Anthony Puthenpurackal

Teacher: Sarah LeDonne

What Factors Affect Hydrogen Production From Salt Water Hydrolysis

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance
Society for Analytical Chemists of Pittsburgh	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Central Catholic HS**

Principal: **Anthony Baginski**

John Pawlowicz

Teacher: Mark Krotec

Mitigating Phosphorus in Water Runoff

Award	Place	Type
Stockholm Junior Water Prize/Water Environment Federation	N/A	Affiliate

Will Koloc

Teacher: Mark Krotec

The Effect of Cacao on Staphylococcus epidermidis and E. coli Survivorship

Award	Place	Type
Duquesne University, Bayer School of Natural and Environmental Sciences	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Chartiers Valley High School**
 Principal: **Keys**

Bridget Schneider		Teacher: Charles Barber	
<i>Solar Eclipse: Temperature change during totality</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Megan Debski		Teacher: Charles Barber	
<i>Harnessing the power of the sun</i>			
Award	Place	Type	
ASU Walton Sustainability Solutions Initiatives	N/A	Affiliate	
Perseverance Award - Associate Scientist	N/A	Perseverance	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **City Charter High School**

Principal: **Tiana DelaRosa**

Krysta Eberlein Teacher: Meghan Pascuzzi
The effect of hand soap on Staphylococcus Aureus

Award	Place	Type
Waynesburg University	N/A	Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Community Day School**

Principal: **Mark Minkus**

Akiva Weinkle		Teacher: Kyle Anne Ison	
<i>The Effect of concussions on reaction time</i>			
Award	Place	Type	
Biological Sciences - Junior	Second Place	Category	

Evelyn Aizenstein		Teacher: Kyle Anne Ison	
<i>Food Grade Chemical Sperification</i>			
Award	Place	Type	
U.S. Metric Association	N/A	Affiliate	

Talia Gelman		Teacher: Kyle Anne Ison	
<i>Determining the Most Effective Adhesives on Plastic and Wood</i>			
Award	Place	Type	
PPG	N/A	Sponsor	
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate	

Ben Tarr		Teacher: Kyle Anne Ison	
<i>Automating a Robotic Tank</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Noah Indianer

Teacher: Kyle Anne Ison

Energy Production from a Wind Turbine using Solar Assist

Award	Place	Type
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Dorseyville Middle School**

Principal: **Jonathan Nauhaus**

Lucas Gravina Teacher: Eva Malecki

Three Person Chess Board

Award	Place	Type
Bechtel Marine Propulsion Corporation	N/A	Sponsor
Physical Sciences & Engineering - Junior	Third Place	Category

Adhitya Thirumala Teacher: Eva Malecki

Do-It-Yourself Raspberry Pi Motion Camera

Award	Place	Type
Institute of Electrical & Electronics Engineers, Inc.	Honorable Mention	Sponsor
Physical Sciences & Engineering - Junior	First Place	Category

Mona Gerges Teacher: Eva Malecki

What is the Effect of Acute Lead Poisoning on the Immune System?

Award	Place	Type
Biology - Intermediate	Third Place	Category
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Zoe Lakkis Teacher: Eva Malecki

Global Poverty: Causes or Consequences?

Award	Place	Type
American Society for Quality	N/A	Sponsor
Computer Science/Math - Intermediate	Second Place	Category
Perseverance Award - Junior Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Thermo Fisher Scientific Inc.

N/A

Sponsor

Arvind Seshan

Teacher: Eva Malecki

Aiding Search and Rescue after Natural Disasters

Award

Place

Type

Computer Science/Math - Intermediate

First Place

Category

Theodor Urban

Teacher: Eva Malecki

Designing a Test of Random Process Estimation

Award

Place

Type

Computer Science/Math - Intermediate

Third Place

Category

Janise Kim

Teacher: Eva Malecki

Using Rotational Energy to Power Electric Cars' Batteries

Award

Place

Type

Duquesne Light

N/A

Sponsor

Engineering/Robotics - Intermediate

Second Place

Category

FedEx Ground, Inc.

N/A

Sponsor

Michael Baker Corporation

N/A

Sponsor

Society of Women Engineers

N/A

Sponsor

Siddharth Yende

Teacher: Eva Malecki

Unsolderable: Finding the Best Type of Solder

Award

Place

Type

Perseverance Award - Junior Scientist

N/A

Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **East Catholic School**

Principal: **Judith Stojhovic**

Benjamin Gaunt

Teacher: Angelo Lamanti

The 'V': An Integral Part of a Goose's Life

Award	Place	Type
Biology - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Falk Laboratory School**

Principal: **Jeffrey Suzik**

Aavin Mangalmurti		Teacher: Alex Dragon	
<i>Aerodynamics of a ping-pong ball</i>			
Award	Place	Type	
Physical Sciences & Engineering - Junior	Fourth Place	Category	

Finn Woods		Teacher: Alex Dragon	
<i>Aerodynamics of a ping-pong ball</i>			
Award	Place	Type	
Physical Sciences & Engineering - Junior	Fourth Place	Category	

Evan Dine		Teacher: Alex Dragon	
<i>Left or Right?</i>			
Award	Place	Type	
Behavioral and Social Science - Intermediate	Fourth Place	Category	

SiMing Tang		Teacher: Alex Dragon	
<i>Left or Right?</i>			
Award	Place	Type	
Behavioral and Social Science - Intermediate	Fourth Place	Category	

Zoe Zuckerbraun		Teacher: Alex Dragon	
<i>Nitrate and Nitrates in Bacon</i>			
Award	Place	Type	
Chemistry - Intermediate	Fourth Place	Category	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Étienne Strandberg-Houzé

Teacher: Alex Dragon

Effects of UV radiation on SODIS

Award	Place	Type
Medicine/Health/Microbiology - Intermediate	First Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Fort Couch Middle School**

Principal: **Joe Demar**

Matthew Earley			Teacher: Jason O'Roark
<i>Piezo Cake</i>			
Award	Place	Type	
Chemical Association of Pittsburgh	N/A	Sponsor	

Phillip Markovitz			Teacher: Jason O'Roark
<i>Piezo Cake</i>			
Award	Place	Type	
Chemical Association of Pittsburgh	N/A	Sponsor	

Evan Sarkett			Teacher: Jason O'Roark
<i>Piezo Cake</i>			
Award	Place	Type	
Chemical Association of Pittsburgh	N/A	Sponsor	

Dev Patel			Teacher: Jason O'Roark
<i>Wind Turbine Models and Production of Electricity</i>			
Award	Place	Type	
Duquesne Light	N/A	Sponsor	

Ritvik Shah			Teacher: Jason O'Roark
<i>Wind Turbine Models and Production of Electricity</i>			
Award	Place	Type	
Duquesne Light	N/A	Sponsor	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Sujay Shah

Teacher: Jason O'Roark

Wind Turbine Models and Production of Electricity

Award	Place	Type
Duquesne Light	N/A	Sponsor

Shana Reddy

Teacher: Jason O'Roark

Combating Carbonic Acid: Preventing Ocean Acidification

Award	Place	Type
Society for Analytical Chemists of Pittsburgh	N/A	Sponsor

Varun Damarla

Teacher: Jason O'Roark

The Best Airplane Design

Award	Place	Type
The Aviation Foundation	N/A	Sponsor

Nitish Sharma

Teacher: Jason O'Roark

The Best Airplane Design

Award	Place	Type
The Aviation Foundation	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Fox Chapel Area High School**

Principal: **Mike Hower**

Serena Fisher

Teacher: Greg Schubert

Replacement for FBS in Cell Culture Median

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Amulya Garimella

Teacher: Greg Schubert

Genetic Analysis of Neurodegeneration

Award	Place	Type
Biology - Senior	Second Place	Category
Duquesne University, Dept. of Biological Sciences	N/A	Sponsor
Perseverance Award - Junior Scientist	N/A	Perseverance
University of Pittsburgh, Dept. of Neuroscience	N/A	Sponsor

Gina Wang

Teacher: Greg Schubert

The Effect of Different Types of Light on Cells

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Jasmine Eng

Teacher: Greg Schubert

Are there quantifiable characteristics of popular songs?

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Rajeev Godse

Teacher: Greg Schubert

The Prisoner's Dilemma: Testing Human Ability to Cooperate

Award	Place	Type
American Society for Quality	N/A	Sponsor
Behavioral and Social Science - Senior	First Place	Category

Ameya Velankar

Teacher: Greg Schubert

Library Product Placement

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Sanjay Seshan

Teacher: Greg Schubert

Improving Autonomous Vehicle Performance Using Infrastructure-Based Sensing

Award	Place	Type
Engineering/Robotics - Senior	Second Place	Category
FedEx Ground, Inc.	N/A	Sponsor
Harrisburg University of Science & Technology	N/A	Sponsor
Innovation Works	N/A	Sponsor

Suparna Agrawal

Teacher: Greg Schubert

Plant Growth vs. Pollution

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Sanjana Harish

Teacher: Greg Schubert

Increasing the Efficiency of a Solar Panel with a Thermoelectric Generator

Award	Place	Type
Harrisburg University of Science & Technology	N/A	Sponsor

Hanna Chen

Teacher: Greg Schubert

Color and Climate

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Zachary Lakkis

Teacher: Greg Schubert

Glycolysis Linked Regulation of Cytokine Production in T Lymphocytes

Award	Place	Type
Medicine/Health/Microbiology - Senior	Third Place	Category
Perseverance Award - Honorary Scientist	N/A	Perseverance
Society for Analytical Chemists of Pittsburgh	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Franklin Regional MS**

Principal: **Andrew Leviski**

Grace Wang Teacher: Todd Binnig

Global Warming and It's Effects

Award	Place	Type
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Freeport Area High School**

Principal: **Michael Kleckner**

Anuj Lele Teacher: Eleanor Savage

Which Foods Provide the Maximum Sucrose to Glucose Conversion in a Given Time Using the Invertase Enzyme?

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

John Zurisko Teacher: Eleanor Savage

Applying Linear Algebra

Award	Place	Type
Indiana University of Pennsylvania	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance

Michaela Mattivi Teacher: Eleanor Savage

Which species of mushroom produces the strongest building material?

Award	Place	Type
Perseverance Award - Honorary Scientist	N/A	Perseverance

David Kinniburgh Teacher: Eleanor Savage

Does Saltwater or Freshwater Algae Produce more Fuel in Varying Conditions?

Award	Place	Type
Clarion University	N/A	Scholarship
Perseverance Award - Honorary Scientist	N/A	Perseverance
Slippery Rock University (Scholarship)	N/A	Scholarship
St. Francis University	N/A	Scholarship
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Eli Lindsay Teacher: Eleanor Savage
An Inexpensive Passive for Bioremediating Liquid Manure

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Liam Dress Teacher: Eleanor Savage
Potential Triclosan Resistant E. coli

Award	Place	Type
Duquesne University Summer Undergraduate Research Program	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance

Rebecca Hollobaugh Teacher: Eleanor Savage
Which type of examination glove causes the least amount of bacterial transference?

Award	Place	Type
Indiana University of Pennsylvania	N/A	Scholarship
Juniata College	N/A	Scholarship
National Institute of Occupational Safety and Health	N/A	Sponsor
Penn State Greater Allegheny	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance
Waynesburg University	N/A	Scholarship

Maggie Hollobaugh Teacher: Eleanor Savage
Do Accent Nails Affect the Accuracy of Pulse Oximeters?

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Emily Huff

Teacher: Eleanor Savage

Will sutures infused with nano silver particles inhibit bacterial proliferation?

Award	Place	Type
Perseverance Award - Honorary Scientist	N/A	Perseverance
Waynesburg University	N/A	Scholarship

Sydney Pastorek

Teacher: Eleanor Savage

Does GMO Corn Syrup Inhibit Bacteria?

Award	Place	Type
Clarion University	N/A	Scholarship
Gannon University	N/A	Scholarship
Penn State Greater Allegheny	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance

Lurena Stewart

Teacher: Eleanor Savage

Does activated charcoal infused with nanosilver particles inhibit epidermal bacterial proliferation better than cotton cast padding infused with nanosilver particles?

Award	Place	Type
Allegheny College	N/A	Scholarship
La Roche College	N/A	Scholarship
Medicine/Health/Microbiology - Senior	Fourth Place	Category
Penn State Greater Allegheny	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance
University of Pittsburgh	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Anastazia Herbst

Teacher: Eleanor Savage

Typ UV & Temp Aff Speed Photochromatic Lens Changing

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance
Physics - Senior	Fourth Place	Category
PPG	N/A	Sponsor

Alex Kladny

Teacher: Eleanor Savage

What effect does the shape of tubercles have on turbine efficiency?

Award	Place	Type
Allegheny College	N/A	Scholarship
Indiana University of Pennsylvania	N/A	Scholarship
Perseverance Award - Honorary Scientist	N/A	Perseverance
Physics - Senior	Second Place	Category
Slippery Rock University (Scholarship)	N/A	Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Freeport Area Middle School**

Principal: **Don Dell**

Ashley Arner Teacher: Eleanor Savage

Effect of Preservatives on the Growth of Bacteria

Award	Place	Type
Biological Sciences - Junior	Fourth Place	Category

Isabelle Emeloff Teacher: Eleanor Savage

Which Acne Product is Most Cost Effective in Inhibiting S. epidermitis?

Award	Place	Type
Biological Sciences - Junior	Fourth Place	Category

Anne Lindsay Teacher: Eleanor Savage

Affect of Wax on Mountain Skiing

Award	Place	Type
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Colton Brenneman Teacher: Eleanor Savage

Affect of Temp. on Swim Speed

Award	Place	Type
Biology - Intermediate	Third Place	Category

Hunter Bergad Teacher: Eleanor Savage

Does Artificial Sugar Affect E. coli Proliferation?

Award	Place	Type
Medicine/Health/Microbiology - Intermediate	Second Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Anand Bhat

Teacher: Eleanor Savage

Which Dosing Device is Accurate?

Award	Place	Type
Medicine/Health/Microbiology - Intermediate	Fourth Place	Category

Jesse Hilko

Teacher: Eleanor Savage

Does the temperature at which a magnet is made affect its strength?

Award	Place	Type
Physics - Intermediate	First Place	Category

Robby Kladny

Teacher: Eleanor Savage

How does the tread on car tires affect the traction with a wet road?

Award	Place	Type
American Statistical Association, Pgh. Chapter	N/A	Sponsor
Physics - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Greensburg Central Catholic**

Principal: **Ben Althof**

Corinn Brewer Teacher: Pam Cullen

Testing Novel Approaches to Bridge Design Using a 3D Printer

Award	Place	Type
Association for Bridge Construction & Design	N/A	Sponsor
Michael Baker Corporation	N/A	Sponsor

John Tropeano Teacher: Pam Cullen

Odometry and Dynamic Collision Avoidance

Award	Place	Type
FedEx Ground, Inc.	N/A	Sponsor
U.S. Air Force	N/A	Affiliate

Ashley Winnor Teacher: Pam Cullen

How Does Temperature Affect the Speed of Sound?

Award	Place	Type
Covestro LLC	N/A	Sponsor
Physics - Intermediate	Third Place	Category

Meredith Tropeano Teacher: Pam Cullen

Computerized Trainer to Improve Reaction Time in Post Concussion Athletes

Award	Place	Type
Engineering/Robotics - Senior	Third Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Daniel John-Michael Melucci

Teacher: Pam Cullen

I Didn't Order This!

Award	Place	Type
Perseverance Award - Honorary Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Hampton High School**
 Principal: **Marguerite Imbarlina**

Emily Mullen Teacher: Scott Stickney
Scaffold Material Influence on Stem Cell Behavior

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance
Princeton Alumni Association of W. PA	N/A	Sponsor

Tejas Badgujar Teacher: Scott Stickney
Random Forests for Chemical Shifts

Award	Place	Type
MU Alpha Theta	N/A	Affiliate
Perseverance Award - Associate Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Holy Cross Academy**

Principal: **John Benzing**

David Thomas Teacher: Mary Kay Mooney
What Antacid is the Most Efficient?

Award	Place	Type
Behavioral and Consumer Sciences - Junior	First Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Indiana Area High School**

Principal: **Wade McElheny**

Erin Okey Teacher: Emily Hixson

pH of Plethodon hoffmani Habitats

Award	Place	Type
Duquesne University, Dept. of Biological Sciences	N/A	Sponsor

Eliza Ray Teacher: Emily Hixson

The Effect of Water Fluoridation on Bone

Award	Place	Type
Penn State Altoona	N/A	Scholarship

Tian Schiera Teacher: Emily Hixson

The Effect of Dietary Changes on the Activity Levels and Circadian Rhythms of Gromphadorhina portentosa (Madagascar hissing cockroaches)

Award	Place	Type
Duquesne University	N/A	Scholarship
Mt. Aloysius College	N/A	Scholarship
Point Park University	N/A	Scholarship
Slippery Rock University (Scholarship)	N/A	Scholarship

Raeleigh Smith Teacher: Emily Hixson

Are you uncomfortable yet? Habits and how they form

Award	Place	Type
American Psychological Association	N/A	Affiliate
Waynesburg University	N/A	Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Amelia Kuzneski		Teacher: Emily Hixson	
<i>Electromagnetic Induction Powered Mobile Charger</i>			
Award	Place	Type	
ASU Walton Sustainability Solutions Initiatives	N/A	Affiliate	

Talia Mastalski		Teacher: Emily Hixson	
<i>A Cover For Darkness</i>			
Award	Place	Type	
Engineering/Robotics - Senior	Fourth Place	Category	
National Oceanic & Atmospheric Administration	N/A	Affiliate	
St. Francis University	N/A	Scholarship	

Eman Soliman		Teacher: Emily Hixson	
<i>The effect of Alum on purifying water</i>			
Award	Place	Type	
Clarion University	N/A	Scholarship	

Madeline Redhead-Kriston		Teacher: Emily Hixson	
<i>Effects of Dietary Fat or Sucrose on Body Weight and Glucose Homeostasis and Interactions with an Antihistamine</i>			
Award	Place	Type	
Slippery Rock University (Scholarship)	N/A	Scholarship	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Ingomar Middle School**

Principal: **Heidi Stark**

Rajat Reddy Teacher: Natalie Miles

Fuel From Sun & H2O - Mimicking Nature

Award	Place	Type
Chemistry - Intermediate	Fourth Place	Category
Slippery Rock University (Sponsor)	N/A	Sponsor

Victoria Ren Teacher: Natalie Miles

Gender Distribution Paradox

Award	Place	Type
Computer Science/Math - Intermediate	Fourth Place	Category

Arnav Ranade Teacher: Natalie Miles

Improving Recyclability of Pizza Boxes

Award	Place	Type
Earth/Space/Environment - Intermediate	Fourth Place	Category

Srishti Raviprakash Teacher: Natalie Miles

Bioplastics are Saving our Environment

Award	Place	Type
Air & Waste Management Assoc., W. PA Section	N/A	Sponsor

Yuvan Suresh Teacher: Natalie Miles

Solar Max

Award	Place	Type
Earth/Space/Environment - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

U.S. Navy/U.S. Marine Corps (Office of Naval Research)

N/A

Affiliate

Naga Riya Boppudi

Teacher: Natalie Miles

Will It Stop?

Award

Place

Type

Physics - Intermediate

Fourth Place

Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Kentucky Avenue School**

Principal: **Aimee Defoe**

Olina Mukherjee

Teacher: Charles Rosenberg

Complex Social Behavior in Madagascar Hissing Cockroaches

Award	Place	Type
Biological Sciences - Junior	First Place	Category
Carnegie Science Award Junior Division	N/A	Other
Thermo Fisher Scientific Inc.	N/A	Sponsor
Young Women in Bio	N/A	Sponsor

Henry Fried

Teacher: Charles Rosenberg

Magnetic and Physical Properties of Ferrofluids at Low Temperatures

Award	Place	Type
Physics - Intermediate	Second Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Manchester Academic Charter School**
 Principal: **Phylissa Thomas**

Xavier Nicopulos		Teacher: Caranina Koloshinsky	
<i>Volcanic Panic</i>			
Award	Place	Type	
Penn State College of Earth and Mineral Sciences	N/A	Sponsor	

Serena Wyckoff		Teacher: Caranina Koloshinsky	
<i>What colors in the light spectrum are best for plant growth?</i>			
Award	Place	Type	
Carnegie Mellon University Leonard Gelfand Center for Service Learning and Outreach	N/A	Sponsor	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Marshall Middle School**

Principal: **Daniel Swoger**

Siya Jain

Teacher: Sheila Dattilo

The Effect of Education on Cafeteria Waste

Award	Place	Type
Allegheny County Health Department	N/A	Sponsor
Behavioral and Consumer Sciences - Junior	Second Place	Category
Covestro LLC	N/A	Sponsor

Aneri Shethji

Teacher: Sheila Dattilo

The Effect of Education on Cafeteria Waste

Award	Place	Type
Allegheny County Health Department	N/A	Sponsor
Behavioral and Consumer Sciences - Junior	Second Place	Category
Covestro LLC	N/A	Sponsor

Shomik Telang

Teacher: Sheila Dattilo

Solar Powered Vehicle for Soil Testing

Award	Place	Type
Eaton Corporation	N/A	Sponsor
Engineering/Robotics - Intermediate	Third Place	Category
Institute of Electrical & Electronics Engineers, Inc.	N/A	Sponsor
Range Resources - Appalachia, LLC	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Sudharshan Srikanth

Teacher: Sheila Dattilo

The negative effects of food scrap on Global Warming: (and what to do about it at a household level)''

Award

Place

Type

Earth/Space/Environment - Intermediate

Third Place

Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Mary of Nazareth Catholic School**

Principal: **Lynda McFarland**

Gavin DeVerse Teacher: Diane Johnston

Color Changing Flames

Award	Place	Type
Spectroscopy Society of Pittsburgh	N/A	Sponsor

Jaxson Poziviak Teacher: Diane Johnston

Just Head It?

Award	Place	Type
Covestro LLC	N/A	Sponsor
U.S. Air Force	N/A	Affiliate
U.S. Metric Association	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Mary Queen of Apostles**

Principal: **Catherine Collett**

Olivia DiNatale Teacher: Cheryl Kestner

Enzymes... Should They Stay or Should They Go?

Award	Place	Type
Chemistry - Intermediate	Second Place	Category
Slippery Rock University (Sponsor)	N/A	Sponsor

Gabriella Mason Teacher: Cheryl Kestner

Is Sugar-free Really Sugar-free?

Award	Place	Type
Consumer Science - Intermediate	Second Place	Category

Reese Pallone Teacher: Cheryl Kestner

What Color T-shirt is Best to Wear in Sunlight?

Award	Place	Type
Consumer Science - Intermediate	Third Place	Category
Kennametal	N/A	Sponsor
National Institute of Occupational Safety and Health	N/A	Sponsor
Spectroscopy Society of Pittsburgh	N/A	Sponsor

Morgan Phillips Teacher: Cheryl Kestner

Swish, Swish, Rinse! Eggcelent Mouthwashes?

Award	Place	Type
Consumer Science - Intermediate	First Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Lily Giovannelli

Teacher: Cheryl Kestner

Can Hydrophobic Coatings Prevent Corrosion?

Award	Place	Type
Earth/Space/Environment - Intermediate	First Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Moon Area HS**

Principal: **Barry Balaski**

Chancharik Mitra Teacher: Tracey Spinelli

Pattern Recognition with Neural Networks

Award	Place	Type
Institute of Electrical & Electronics Engineers, Inc.	Honorable Mention	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Mt. Lebanon High School**

Principal: **Brian McFeeley**

Petru Mihailescu		Teacher: Kyle Tilger	
<i>Alpha-hydrogen Bonds in Lewis Acid Control of Asymmetric Catalysis</i>			
Award	Place	Type	
Chemistry - Senior	Fourth Place	Category	
Society for Analytical Chemists of Pittsburgh	N/A	Sponsor	

Christian Polk		Teacher: Kyle Tilger	
<i>The Effects of Acid Mine Draining and Industrial Facilities on Bodies of Water</i>			
Award	Place	Type	
Allegheny County Sanitary Authority (ALCOSAN)	N/A	Sponsor	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **North Allegheny High School**

Principal: **John Kreider**

Zehra Mehdi		Teacher: Bruce Allen	
<i>Rad55 Phosphorylation and its Interaction with Csm2 to create Error Free DNA Repair</i>			
Award	Place	Type	
Perseverance Award - Associate Scientist	N/A	Perseverance	

Jordana Avigad		Teacher: Bruce Allen	
<i>Teens and Decision Making: The Choice Is Yours, Or Is It?</i>			
Award	Place	Type	
Behavioral and Social Science - Senior	Fourth Place	Category	

Anuleka Elapavaluru		Teacher: Bruce Allen	
<i>Effects of the Uncanny Valley Theory on Learning with the Implicit Association Test</i>			
Award	Place	Type	
Behavioral and Social Science - Senior	Second Place	Category	

TJ Faber		Teacher: Bruce Allen	
<i>Creating an Intelligent Suicide Alert Application</i>			
Award	Place	Type	
Perseverance Award - Honorary Scientist	N/A	Perseverance	

Adelle Fernando		Teacher: Bruce Allen	
<i>A Machine Learning Approach to Classifying Acute Pain</i>			
Award	Place	Type	
Allegheny College	N/A	Scholarship	
Carnegie Mellon University (Scholarship)	N/A	Scholarship	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Computer Science/Math - Senior	Fourth Place	Category
La Roche College	N/A	Scholarship
Penn State Greater Allegheny	N/A	Scholarship
Perseverance Award - Honorary Scientist	N/A	Perseverance
Slippery Rock University (Scholarship)	N/A	Scholarship
Society of Women Engineers	N/A	Sponsor
The University of Pittsburgh at Greensburg	N/A	Scholarship

Christopher Lee

Teacher: Bruce Allen

Polynomial Maps of Finite Fields

Award	Place	Type
Computer Science/Math - Senior	First Place	Category
INTEL Excellence in Computer Science	N/A	Affiliate

Praneel Murthy

Teacher: Bruce Allen

Speech to Text Software: A Comparative Study

Award	Place	Type
Penn State Beaver	N/A	Scholarship

Meghna Behari

Teacher: Bruce Allen

ResQbot: An Autonomous Echolocation-based Search and Rescue Water Robot for Natural Disasters

Award	Place	Type
Community College of Allegheny County	N/A	Sponsor
Engineering/Robotics - Senior	Fourth Place	Category
Institute of Electrical & Electronics Engineers, Inc.	N/A	Sponsor
Pittsburgh Intellectual Property Law Association	N/A	Sponsor
Robert Morris University	N/A	Sponsor
Society of American Military Engineers - Pittsburgh Post	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

U.S. Air Force

N/A

Affiliate

Ashnaa Bhide

Teacher: Bruce Allen

Automated Status Reporting and Control of Systems Using IoT Sensor Data

Award	Place	Type
Community College of Allegheny County	N/A	Sponsor
FedEx Ground, Inc.	N/A	Sponsor
Perseverance Award - Junior Scientist	N/A	Perseverance
Pittsburgh Intellectual Property Law Association	N/A	Sponsor

Suan Cho

Teacher: Bruce Allen

Efficient Shapes of Small Hydro Turbine and Its Usage in Tap Water

Award	Place	Type
Duquesne University, Bayer School of Natural and Environmental Sciences	N/A	Sponsor

Emily Meinert

Teacher: Bruce Allen

Mycoremediation and Phytoremediation with Fracking Fluids

Award	Place	Type
Earth/Space/Environment - Senior	Third Place	Category

Kelly Tang

Teacher: Bruce Allen

Lead Adsorption Using Banana Peel

Award	Place	Type
Stockholm Junior Water Prize/Water Environment Federation	N/A	Affiliate
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Sanjit Beriwal

Teacher: Bruce Allen

Enhanced Water Collection with Drones at Different Depths

Award	Place	Type
Earth/Space/Environment - Senior	First Place	Category
National Oceanic & Atmospheric Administration	N/A	Affiliate
Stockholm Junior Water Prize/Water Environment Federation	N/A	Affiliate

Abinav Sekhar

Teacher: Bruce Allen

Enhanced Water Collection with Drones at Different Depths

Award	Place	Type
Earth/Space/Environment - Senior	First Place	Category
National Oceanic & Atmospheric Administration	N/A	Affiliate
Stockholm Junior Water Prize/Water Environment Federation	N/A	Affiliate

David Ban

Teacher: Bruce Allen

Mechanism of Mesobiliverdin against Oxidative Stress in Retinal Cells

Award	Place	Type
Allegheny County Medical Society Foundation	N/A	Sponsor
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Rachel Bina

Teacher: Bruce Allen

Identification of Vibrio species from North Park Lake in Allegheny County Pennsylvania

Award	Place	Type
Medicine/Health/Microbiology - Senior	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Ashna Patel

Teacher: Bruce Allen

Effects of Aeration and Dissolved Oxygen on Gram-positive Pathogens

Award	Place	Type
Stockholm Junior Water Prize/Water Environment Federation	N/A	Affiliate

Shudipto Wahed

Teacher: Bruce Allen

HPV-16-Positive Oropharyngeal Cancer Cells Require Viral E6/E7 Oncogene Expression for Survival

Award	Place	Type
Medicine/Health/Microbiology - Senior	Second Place	Category
Society for In Vitro Biology	N/A	Affiliate

Jean You

Teacher: Bruce Allen

Microneedle Array-based Cutaneous Delivery of Protein Vaccine for Immunization

Award	Place	Type
Society for In Vitro Biology	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Northern Garrett High School**

Principal: **Gary Reichenbecher**

Casey Rounds Teacher: Brian Price
New Negatives

Award	Place	Type
La Roche College	N/A	Scholarship

Parker Wilt Teacher: Brian Price
One Arm Robot

Award	Place	Type
St. Vincent College	N/A	Scholarship

Shawn Zimmerman Teacher: Brian Price
Portable Solar Cell Phone Charger

Award	Place	Type
Slippery Rock University (Scholarship)	N/A	Scholarship

Jetta Sherbin Teacher: Brian Price
The Affect Of Launch Angle On The Projectile Range Of A Trebuchet

Award	Place	Type
La Roche College	N/A	Scholarship

Caitlyn Gilpin Teacher: Brian Price
Let the Body's Hit the Floor

Award	Place	Type
Gannon University	N/A	Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Taylor Sheehan

Teacher: Brian Price

Let the Body's Hit the Floor

Award	Place	Type
Gannon University	N/A	Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Norwin High School**

Principal: **Michael Choby**

Skylar Hayden		Teacher: Brian Nevi	
<i>Forensic Fingerprinting</i>			
Award		Place	Type
Gannon University		N/A	Scholarship

Cecilia Fidler		Teacher: Brian Nevi	
<i>IoT: You've Got Mail</i>			
Award		Place	Type
Perseverance Award - Associate Scientist		N/A	Perseverance

Sidney Przybylski		Teacher: Brian Nevi	
<i>iSolar</i>			
Award		Place	Type
Penn State Beaver		N/A	Scholarship
Slippery Rock University (Scholarship)		N/A	Scholarship

Kylie Arnold		Teacher: Brian Nevi	
<i>Reducing Roadkill and Fusing Fragments</i>			
Award		Place	Type
Earth/Space/Environment - Senior		Third Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Oakland Catholic High School**

Principal: **Marisa Greco**

Isabella Florian

Teacher: Loraine Benedik

The Effect of Mass on Articular Cartilage Deterioration Within the Knee

Award	Place	Type
Engineering/Robotics - Senior	Fourth Place	Category
Perseverance Award - Junior Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Our Lady of Fatima School**

Principal: **Cindy Baldrige**

Nathan Polidora		Teacher: Shirley Martin	
<i>Can Kids Crack the Case?</i>			
Award		Place	Type
Behavioral and Consumer Sciences - Junior		Third Place	Category

Domenique Bourne		Teacher: Shirley Martin	
<i>Beauty in the Eye of the Beholder or Beheld?</i>			
Award		Place	Type
Perseverance Award - Junior Scientist		N/A	Perseverance

Emma Meinert		Teacher: Shirley Martin	
<i>What's the best stain remover?</i>			
Award		Place	Type
Perseverance Award - Junior Scientist		N/A	Perseverance

Leia Day		Teacher: Shirley Martin	
<i>It All Depends On The Weather</i>			
Award		Place	Type
Perseverance Award - Junior Scientist		N/A	Perseverance

Shannon Massengill		Teacher: Shirley Martin	
<i>Light Will Win the Race</i>			
Award		Place	Type
Perseverance Award - Junior Scientist		N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Physics - Intermediate

Third Place

Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Our Lady of Grace Catholic School**

Principal: **Sharon Loughran- Brown**

Sofi Adams		Teacher: Theresa Rabogliatti	
<i>Planaria Regeneration</i>			
Award		Place	Type
Perseverance Award - Junior Scientist		N/A	Perseverance

Aidan Albert		Teacher: Theresa Rabogliatti	
<i>Blue Dyes in Gatorade</i>			
Award		Place	Type
PPG		N/A	Sponsor

Sean Dougherty		Teacher: Theresa Rabogliatti	
<i>Salt and Water and Rust Oh My!</i>			
Award		Place	Type
Perseverance Award - Junior Scientist		N/A	Perseverance

Sophie Maida		Teacher: Theresa Rabogliatti	
<i>Water Boiling with Salt</i>			
Award		Place	Type
Perseverance Award - Junior Scientist		N/A	Perseverance

Thomas Phillips		Teacher: Theresa Rabogliatti	
<i>Which over the counter antacids neutralize the most?</i>			
Award		Place	Type
Perseverance Award - Junior Scientist		N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Joe Sherman

Teacher: Theresa Rabogliatti

How does Kool-aid powder effect the boiling and freezing point of water?

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Carter Yanosick

Teacher: Theresa Rabogliatti

Melting Rate of Ice Cream

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Cooper Yanosick

Teacher: Theresa Rabogliatti

How does table salt affect the freezing point of water?

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Madeline Debski

Teacher: Theresa Rabogliatti

The Life of a Stored Battery

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Mario Smith

Teacher: Theresa Rabogliatti

Blocking Radio Frequency Identification Signals

Award	Place	Type
Broadcom MASTERS International Award Winners	N/A	Other
Perseverance Award - Junior Scientist	N/A	Perseverance
Physics - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **PA Cyber Charter School**

Manal Boukaabar Teacher: Mike Hissam

Moisturizer: All Natural Homemade vs. Store-Bought

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Penn-Trafford HS**

Principal: **Tony Aquilio**

Brian Lee Teacher: Christina Wukich
Non-Toxic Anti-Fouling Paint

Award	Place	Type
Covestro LLC	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Peters Township High School**
 Principal: **Lori Pavlik**

Nicole Munne Teacher: Christopher Allen
Development of an Invitro Liver Model for NAFLD

Award	Place	Type
Biology - Senior	Third Place	Category
INTEL International Science and Engineering Award	N/A	Other

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Pine-Richland High School**

Principal: **Nancy Bowman**

Devin Golla Teacher: Ronald Schmiedel

Gen Z Votes

Award	Place	Type
Perseverance Award - Honorary Scientist	N/A	Perseverance

Arjan Guglani Teacher: Ronald Schmiedel

Using Computational Facial Analysis to Diagnose Sleep Disorders and Improve Sleep Quality

Award	Place	Type
American Psychological Association	N/A	Affiliate
Computer Science/Math - Senior	Third Place	Category
Perseverance Award - Associate Scientist	N/A	Perseverance
The Webb Law Firm	N/A	Sponsor
Yale Science and Engineering Assoc.	N/A	Affiliate

Justin Waltrip Teacher: Ronald Schmiedel

Genetic Convolutional Neural Network Optimization for Wildfire Prevention

Award	Place	Type
American Meteorological Society	N/A	Affiliate
Computer Science/Math - Senior	Second Place	Category

James Baxter Teacher: Ronald Schmiedel

Fencer Wireless Scoring System

Award	Place	Type
Engineering/Robotics - Senior	First Place	Category
Innovation Works	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Robert M. Thompson, Jr. and Diane V. Thompson Fund at the Pittsburgh Foundation

N/A

Other

Chelsea Carver

Teacher: Ronald Schmiedel

AMD - Mathies Mine Analysis

Award	Place	Type
Association for Women GeoScientists	N/A	Affiliate
Perseverance Award - Honorary Scientist	N/A	Perseverance
Pittsburgh Geological Society	N/A	Sponsor
Stockholm Junior Water Prize/Water Environment Federation	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Pittsburgh Alderdice High School**

Principal: **James McCoy**

Uthman Fadu

Teacher: Janet Waldeck

Identifying new protein cargo for α -arrestins using Evolutionary Rate Covariation (ERC)

Award	Place	Type
Robert M. Thompson, Jr. and Diane V. Thompson Fund at the Pittsburgh Foundation	N/A	Other

Beatrice Milnes

Teacher: Janet Waldeck

*Macrophages are required for Adult Mouring Gecko (*Lepidodactylus Lugubris*) Tail Regeneration*

Award	Place	Type
Biology - Senior	First Place	Category
Carnegie Science Awards Senior Division	N/A	Other

Nicolas Saba

Teacher: Janet Waldeck

the Use of Microbubbles and Ultrasound Therapy to Treat Blood Clots

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Benjamin Barash

Teacher: Janet Waldeck

Sensing NO₃ using g-C₃N₄ on rGO

Award	Place	Type
Chemical Association of Pittsburgh	N/A	Sponsor
Yale Science and Engineering Assoc.	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Benjamin Cummings

Teacher: Janet Waldeck

Carbon Nanotube-Based Flu Sensor

Award	Place	Type
Chemistry - Senior	Fourth Place	Category
INTEL International Science and Engineering Award	N/A	Other
U.S. Air Force	N/A	Affiliate
Yale Science and Engineering Assoc.	N/A	Affiliate

Joseph Finkelstein

Teacher: Janet Waldeck

Chloride Doping of Perovskite Solar Cells

Award	Place	Type
Kennametal	N/A	Sponsor

Ni Gayatri

Teacher: Janet Waldeck

Thiolated Ligand Quantification on Silver Nanoparticles

Award	Place	Type
La Roche College	N/A	Scholarship
Slippery Rock University (Scholarship)	N/A	Scholarship
Spectroscopy Society of Pittsburgh	N/A	Sponsor

Michal Hajlasz

Teacher: Janet Waldeck

Optimizing Molecular Nanoforce Sensors

Award	Place	Type
Chemistry - Senior	Fourth Place	Category
Society for Analytical Chemists of Pittsburgh	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Mia Pellegrini

Teacher: Janet Waldeck

Developing an Improved Marker for Protein Purification

Award	Place	Type
Chemistry - Senior	First Place	Category
INTEL International Science and Engineering Award	N/A	Other

Zachary Smolar

Teacher: Janet Waldeck

Kinetic Stability of Fluorescent DNA Nanotags

Award	Place	Type
Spectroscopy Society of Pittsburgh	N/A	Sponsor

Hannah Barsouk

Teacher: Janet Waldeck

The Effect of Climate Change on Natural Disasters

Award	Place	Type
Duquesne University College Credit in High School Awards	N/A	Scholarship

Giulia Giampapa

Teacher: Janet Waldeck

Green Roofs

Award	Place	Type
Michael Baker Corporation	N/A	Sponsor
NASA Earth System Science Award	N/A	Affiliate

Kazuma Parkinson

Teacher: Janet Waldeck

Study of Lead in Pittsburgh Water

Award	Place	Type
St. Francis University	N/A	Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Alyssa Zito

Teacher: Janet Waldeck

Cost Effective Net Zero House

Award	Place	Type
Perseverance Award - Honorary Scientist	N/A	Perseverance

Jakobi Deslouches

Teacher: Janet Waldeck

Effect of AMPs from A. maculatum on the inhibition of bacterial growth

Award	Place	Type
Medicine/Health/Microbiology - Senior	Fourth Place	Category

Daniela Naumov

Teacher: Janet Waldeck

NDUFA6 Gene and TBI Outcomes

Award	Place	Type
Gannon University	N/A	Scholarship
Medicine/Health/Microbiology - Senior	First Place	Category
Society for In Vitro Biology	N/A	Affiliate
University of Pittsburgh, Dept. of Neuroscience	N/A	Sponsor

Liliana King

Teacher: Janet Waldeck

Effects of Circularly Polarized Light on Plants

Award	Place	Type
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Pittsburgh Science and Technology Academy**

Principal: **Shawn McNeil**

Yara AlMoussa

Teacher: Brian Rose

Effect of Home Remedies on E. coli

Award	Place	Type
Allegheny County Medical Society Alliance	N/A	Sponsor
Biological Sciences - Junior	Third Place	Category
University of Pittsburgh	N/A	Sponsor

Nina Cranor

Teacher: Brian Rose

What Blocks Wi-Fi Signal?

Award	Place	Type
FedEx Ground, Inc.	N/A	Sponsor
Institute of Electrical & Electronics Engineers, Inc.	N/A	Sponsor
Physical Sciences & Engineering - Junior	Second Place	Category
U.S. Metric Association	N/A	Affiliate

Santosh Sooriamurthi

Teacher: Brian Rose

Explorations of Benfords' Law

Award	Place	Type
FedEx Ground, Inc.	N/A	Sponsor
Institute of Electrical & Electronics Engineers, Inc.	Honorable Mention	Sponsor
Range Resources - Appalachia, LLC	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Bana AlMoussa

Teacher: Brian Rose

Jaguar Protein's Role in Apical Constriction in Drosophila Melanogaster

Award	Place	Type
Penn State Beaver	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance

Alexandra Borelli

Teacher: Brian Rose

Using Brain Imaging Analysis to Address Alzheimer's vs. Physical Exercise

Award	Place	Type
Bechtel Marine Propulsion Corporation	N/A	Sponsor
Biology - Senior	Third Place	Category
Perseverance Award - Honorary Scientist	N/A	Perseverance

Shreyo Das

Teacher: Brian Rose

Testing Whether a Cofilin Pathway Genetically Interacts with Shroom to cause Apical Construction in Drosophila melanogaster

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

David Donehue

Teacher: Brian Rose

A New Thrombin Signaling Pathway

Award	Place	Type
Biology - Senior	Second Place	Category
Perseverance Award - Honorary Scientist	N/A	Perseverance
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Nicholas Naumov

Teacher: Brian Rose

Effects of Peanut Allergen on the Barrier Function of the Skin

Award	Place	Type
Perseverance Award - Honorary Scientist	N/A	Perseverance

Gibran Biswas

Teacher: Brian Rose

Using R to visualize gene expression data

Award	Place	Type
MU Alpha Theta	N/A	Affiliate
Perseverance Award - Associate Scientist	N/A	Perseverance

Shane Cranor

Teacher: Brian Rose

The Viability of Cylindrical Loudspeaker Enclosures

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

John Rogers

Teacher: Brian Rose

Specific Mutation Pinpointing in Chd1

Award	Place	Type
Perseverance Award - Honorary Scientist	N/A	Perseverance

Sophia Yurkovetsky

Teacher: Brian Rose

Sex Differences of vSMC Functionality in BAV Patients

Award	Place	Type
Allegheny County Medical Society Foundation	N/A	Sponsor
Medicine/Health/Microbiology - Senior	Third Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Perseverance Award - Honorary Scientist

N/A

Perseverance

Abidemi Asanbe

Teacher: Brian Rose

Wrestle the Vessel

Award

Place

Type

Perseverance Award - Junior Scientist

N/A

Perseverance

Amira Johnson

Teacher: Brian Rose

Wrestle the Vessel

Award

Place

Type

Perseverance Award - Junior Scientist

N/A

Perseverance

Tilee Miller

Teacher: Brian Rose

Wrestle the Vessel

Award

Place

Type

Perseverance Award - Junior Scientist

N/A

Perseverance

Maya Cranor

Teacher: Brian Rose

Robotic Ball Shooter Mechanism

Award

Place

Type

Perseverance Award - Junior Scientist

N/A

Perseverance

Physics - Senior

Third Place

Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Providence Heights Alpha School**

Principal: **Peggy Ruefle**

Carson Jacob Teacher: Linda Cessar

Child Dexterity and Child Resistant Containers

Award	Place	Type
Behavioral and Social Science - Intermediate	Third Place	Category

Gabrielle Corcoran Teacher: Linda Cessar

Which Pinewood Derby Car Is the Fastest?

Award	Place	Type
Engineering/Robotics - Intermediate	Third Place	Category

Helen Katyal Teacher: Linda Cessar

Take a Peek at What's In Your Creek

Award	Place	Type
Allegheny County Health Department	N/A	Sponsor
Pittsburgh Geological Society	N/A	Sponsor

Mia Lowry Teacher: Linda Cessar

Keeping Fleece Fluffy

Award	Place	Type
Earth/Space/Environment - Intermediate	Second Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Queen of Angels**
 Principal: **Sandra Stonebraker**

AnnaGrace Hall			Teacher: Christy Gilkey
<i>What Wood You Use?</i>			
Award	Place	Type	
American Society of Civil Engineers, Pgh. Section	N/A	Sponsor	

Troy Ricketts			Teacher: Christy Gilkey
<i>Can Fruits Or Vegetables Supply Power To An LED?</i>			
Award	Place	Type	
Duquesne Light	N/A	Sponsor	

Julie McGaughey			Teacher: Christy Gilkey
<i>Fear of Distress</i>			
Award	Place	Type	
Behavioral and Social Science - Intermediate	Fourth Place	Category	

Jonathan Hall			Teacher: ann hall
<i>Vitamin C Mystery</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Andrew Massari			Teacher: ann hall
<i>Battery Survival</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Krista McWilliams		Teacher: ann hall	
<i>Cloudy With A Chance Of Acid</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Christopher Hall		Teacher: ann hall	
<i>Is It Sturdy?</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Nicholas Brown		Teacher: ann hall	
<i>Making An Impact On Football Helmets</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Evan Link		Teacher: Christy Gilkey	
<i>Parachutes Are A Big Drag</i>			
Award	Place	Type	
The Aviation Foundation	N/A	Sponsor	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Sacred Heart Elementary School**

Principal: **Lynn Rettinger**

Pavle Slepcev Teacher: Julia Kordesich

What Material catches the most Humidity?

Award	Place	Type
Kennametal	N/A	Sponsor

Henry Leavitt Teacher: Julia Kordesich

Electrocution as a Medium

Award	Place	Type
Chemistry - Intermediate	Second Place	Category

Eric Fredette Teacher: Julia Kordesich

Going with the Flow

Award	Place	Type
Engineering/Robotics - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Seneca Valley High School**

Principal: **Matt Delp**

Olivia Tilton Teacher: Patti Griest

Homemade Polarimeter with Chiral Molecules

Award	Place	Type
Chemistry - Senior	Fourth Place	Category

David Choi Teacher: Patti Griest

Non-Toxic Anti-Fouling Paint

Award	Place	Type
Covestro LLC	N/A	Sponsor

Kenneth Hess Teacher: Briana Nassan

An Analysis of Non-Modular Cryptography

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Brooke Raschke Teacher: Briana Nassan

Biofilms and Catheters

Award	Place	Type
Perseverance Award - Associate Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Sewickley Academy**

Principal: **Peter Lau**

Prateek Adurty

Teacher: Ron Kinser

Biofuel Energy Optimization Using Calorimetry

Award	Place	Type
Allegheny County Health Department	N/A	Sponsor
American Chemical Society	N/A	Sponsor
Chemistry - Senior	Third Place	Category
Duquesne University College Credit in High School Awards	N/A	Scholarship
Eaton Corporation	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Shady Side Academy**

Principal: **Sophie Lau**

Jason Wu

Teacher: Heather Fani

Natural Characteristics That Lead to Superhydrophobicity

Award	Place	Type
PPG	N/A	Sponsor

Shreya Gulati

Teacher: Heather Fani

AMD-Analysis of Mine Drainage

Award	Place	Type
Allegheny College	N/A	Scholarship
Association for Women GeoScientists	N/A	Affiliate
Duquesne University	N/A	Scholarship
Indiana University of Pennsylvania	N/A	Scholarship
Mt. Aloysius College	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance
Pittsburgh Coal Mining Institute of America	N/A	Sponsor
Slippery Rock University (Scholarship)	N/A	Scholarship
The University of Pittsburgh at Greensburg	N/A	Scholarship
Waynesburg University ACS Student Chapter	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Shady Side Academy Middle School**

Steven Liu Teacher: Matt Brunner
Electronic Prevention of Rust

Award	Place	Type
ASM International, Pittsburgh Golden Triangle Chapter	N/A	Sponsor
Eaton Corporation	N/A	Sponsor
Engineering/Robotics - Intermediate	Fourth Place	Category
Institute of Electrical & Electronics Engineers, Inc.	Honorable Mention	Sponsor
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **South Fayette High School**
 Principal: **Aaron Skrbin**

Zoe Koutavas Teacher: Mary Quirk
Hydroelectricity: A Necessity in Pittsburgh

Award	Place	Type
Carnegie Mellon University Leonard Gelfand Center for Service Learning and Outreach	N/A	Sponsor
Duquesne Light	N/A	Sponsor

Spruha Vashi Teacher: Mary Quirk
Hydroelectricity: A Necessity in Pittsburgh

Award	Place	Type
Carnegie Mellon University Leonard Gelfand Center for Service Learning and Outreach	N/A	Sponsor
Duquesne Light	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **South Fayette MS**

Principal: **Kristin Deichler**

Nimish Rai

Teacher: Lisa Donovan

The pHacts of Liquids: Temperature's Effect on pH values

Award	Place	Type
Chemistry - Junior	Second Place	Category
Society for Analytical Chemists of Pittsburgh	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Southern Garrett High School**

Principal: **Jim Maddy**

Hana Nazelrod		Teacher: Erin Coffman	
<i>The Hard Boiled Egg</i>			
Award		Place	Type
Gannon University		N/A	Scholarship

Holly Buckley		Teacher: Erin Coffman	
<i>A New Solution to Pollution</i>			
Award		Place	Type
Ricoh Americas Corporation		N/A	Affiliate

Katherine Catulle		Teacher: Erin Coffman	
<i>NaCl --> H2O</i>			
Award		Place	Type
American Meteorological Society		N/A	Affiliate

Daniel Nickel		Teacher: Erin Coffman	
<i>Let's Talk Pressure</i>			
Award		Place	Type
Gannon University		N/A	Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **St. Agnes**
 Principal: **Cynthia Wessel**

Keiara Beermann		Teacher: Lori Guthrie	
<i>Grow Your Garden Without Dirt</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Abigail Bevan		Teacher: Lori Guthrie	
<i>To Freeze or Not to Freeze?</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Nicholas Kusumo		Teacher: Lori Guthrie	
<i>Immiscible?</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Brenna Salzmann		Teacher: Lori Guthrie	
<i>Flower Power</i>			
Award	Place	Type	
Perseverance Award - Junior Scientist	N/A	Perseverance	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **St. Bernadette School**

Principal: **carol arch**

Taylor Stephans Teacher: Kelly Morgano

Which Brand of Nail Polish Stays on the Longest?

Award	Place	Type
Behavioral and Consumer Sciences - Junior	Fourth Place	Category

Mia Maurizio Teacher: Kelly Morgano

Which Fabric Makes the Brightest, Boldest Tie- Dye?

Award	Place	Type
Chemistry - Junior	First Place	Category

Nico Vovaris Teacher: Kelly Morgano

Battery vs. Temperature

Award	Place	Type
Eaton Corporation	N/A	Sponsor
Physical Sciences & Engineering - Junior	Fourth Place	Category

Rebecca Whealdon Teacher: Mary Chase

Does Wi-fi Radiation Affect Plant Growth?

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Hannah Yorio Teacher: Mary Chase

Do Synthetic Preservative Make a Difference

Award	Place	Type
Chemistry - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Perseverance Award - Junior Scientist

N/A

Perseverance

Lourdes Obeng

Teacher: Mary Chase

How do different saturated fats affect the body?

Award

Place

Type

Perseverance Award - Junior Scientist

N/A

Perseverance

Heath Chase

Teacher: Mary Chase

SOUNDPROOFING: Which Recycled Material Works Best: Plastic bottles or Plastic bags

Award

Place

Type

American Industrial Hygiene Assoc.

N/A

Sponsor

Braskem America

N/A

Sponsor

Perseverance Award - Junior Scientist

N/A

Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **St. Elizabeth Elementary School**
 Principal: **Linda Bechtol**

Evan Armstrong		Teacher: Susan Morgan	
<i>Efficacy of Various Solutions in Cleaning Pennies</i>			
Award		Place	Type
PPG		N/A	Sponsor

Benjamin Wingerter		Teacher: Susan Morgan	
<i>Aluminum Air Battery</i>			
Award		Place	Type
Institute of Electrical & Electronics Engineers, Inc.		Honorable Mention	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **St. John Paul II Homeschool CO-OP**

Principal: **Herm Anand**

Regina Anand

Teacher: Herm Anand

Lights On!

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

Charles Hickenboth, IV

Teacher: Allison Hickenboth

Variables Affecting Solar Water Still Output

Award	Place	Type
Covestro LLC	N/A	Sponsor
Engineering/Robotics - Intermediate	Fourth Place	Category

Theresa Kish

Teacher: Maria Kish

Sinkhole Detection Using Ultrasound

Award	Place	Type
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Joseph Anand

Teacher: Herm Anand

Antioxidant Potency

Award	Place	Type
Carnegie Mellon Univ. Chapter of Sigma XI	N/A	Sponsor
Chemistry - Senior	Second Place	Category
Gannon University	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Thomas Anand

Teacher: Herm Anand

Hooked!

Award	Place	Type
Gannon University	N/A	Scholarship
Perseverance Award - Associate Scientist	N/A	Perseverance
Physics - Senior	First Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **St. Joseph High School**

Principal: **Beverly Kaniecki**

Madelyn Neelan Teacher: Cathy Greco

Will Iron(III) Oxide Kill Japanese Knotweed?

Award	Place	Type
La Roche College	N/A	Scholarship

Brody Porter Teacher: Cathy Greco

Heat and Peanut Oil Proteins

Award	Place	Type
Spectroscopy Society of Pittsburgh	N/A	Sponsor

Robert Lipnichan Teacher: Cathy Greco

The Mathematical Principles Underlying Origami

Award	Place	Type
MU Alpha Theta	N/A	Affiliate

Andrew VanFossen Teacher: Cathy Greco

Internal Injury Prevention

Award	Place	Type
American Industrial Hygiene Assoc.	N/A	Sponsor

Spencer Brackett Teacher: Cathy Greco

Treatment of Tumor Hypoxia

Award	Place	Type
Princeton Alumni Association of W. PA	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Samantha Dennis Teacher: Cathy Greco

Mucilage Filtration of Water

Award	Place	Type
Juniata College	N/A	Scholarship
St. Francis University	N/A	Scholarship

Sean LeMay Teacher: Cathy Greco

The Best Asphalt for Western PA

Award	Place	Type
American Society of Civil Engineers, Pgh. Section	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **St. Kilian Parish School**

Principal: **James Correll**

Lucy Miller		Teacher: Jennifer Mitchell	
<i>Pop Pop Fizz Fizz Quiz</i>			
Award	Place	Type	
Chemistry - Junior	Third Place	Category	

Grace Windfelder		Teacher: Jennifer Mitchell	
<i>Pop Pop Fizz Fizz Quiz</i>			
Award	Place	Type	
Chemistry - Junior	Third Place	Category	

John O'Toole		Teacher: Jennifer Mitchell	
<i>Is Preen Really that Green? Part Two: The Effects of Pre-Emergent Herbicides on Seed Quality</i>			
Award	Place	Type	
Biology - Intermediate	First Place	Category	
Carnegie Mellon University Dept.of Biological Sciences	N/A	Sponsor	

Alaina Hicks		Teacher: Jennifer Mitchell	
<i>Do fidget spinner actually help you focus?</i>			
Award	Place	Type	
Behavioral and Social Science - Intermediate	Fourth Place	Category	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Anna Spalvieri

Teacher: Kaitlin Garrett

Eye See it Differently

Award	Place	Type
Behavioral and Social Science - Intermediate	Third Place	Category

Gabe Primrose

Teacher: Jennifer Mitchell

What's in your Water?

Award	Place	Type
Consumer Science - Intermediate	Fourth Place	Category

Kate Lipscomb

Teacher: Jennifer Mitchell

Can You Bear the Suspense?

Award	Place	Type
Perseverance Award - Junior Scientist	N/A	Perseverance

John Hufnagel

Teacher: Kaitlin Garrett

Watch Out for Those Drinks!

Award	Place	Type
Medicine/Health/Microbiology - Intermediate	Third Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **St. Raphael School**
Principal: **Kristen Schwalm**

Matthew Parsi Teacher: Lindsey Marci
pH Effects on Copper Corrosion

Award	Place	Type
PPG	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **St. Thomas More School**

Principal: **Joseph Rosi**

Zac Bublak		Teacher: Cathy Borecky	
<i>How Does Color Contrast Affect Visual Acuity?</i>			
Award	Place	Type	
Biology - Intermediate	Fourth Place	Category	

Ethena Conzemius		Teacher: Cathy Borecky	
<i>The Effect of Antacids on the Neutralization of HCl</i>			
Award	Place	Type	
Chemistry - Intermediate	Third Place	Category	

Emma Dziezgowski		Teacher: Cathy Borecky	
<i>Which Beverage Has the Most Electrolytes?</i>			
Award	Place	Type	
American Chemical Society	N/A	Sponsor	

Anna Levis		Teacher: Cathy Borecky	
<i>Which Sunscreen Is Best at Blocking UV Rays?</i>			
Award	Place	Type	
Chemistry - Intermediate	Third Place	Category	

Cade Clister		Teacher: Cathy Borecky	
<i>Does Weight Affect a Drone's Battery Life?</i>			
Award	Place	Type	
Society for Mining, Metallurgy & Exploration	N/A	Sponsor	

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Annaliese Mertz

Teacher: Cathy Borecky

Does Temperature Affect the Energy Output of Solar Cells?

Award

Place

Type

Physics - Intermediate

Fourth Place

Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **The Campus School of Carlow University**

Principal: **Tawana Cook**

Charlie Hannon Teacher: Casey Scott

Dirt on Dirt: Looking for Lead

Award	Place	Type
Chemistry - Junior	Fourth Place	Category

Ricky Piacentini Teacher: Casey Scott

The Simplest Electric Train

Award	Place	Type
Duquesne Light	N/A	Sponsor
Institute of Electrical & Electronics Engineers, Inc.	N/A	Sponsor

Mackenna Roberts Teacher: Casey Scott

Inspiration and Art Appreciation

Award	Place	Type
Behavioral and Social Science - Intermediate	Second Place	Category

Eleanor Barth-Wu Teacher: Casey Scott

Indium Extraction from iPhones

Award	Place	Type
Chemistry - Intermediate	Second Place	Category
Kennametal	N/A	Sponsor
Spectroscopy Society of Pittsburgh	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Julia Stern

Teacher: Casey Scott

Effect of pH on Lactase

Award	Place	Type
Chemistry - Intermediate	Third Place	Category

Warren Tamarree

Teacher: Casey Scott

Most Effective Brand of Waterproofer

Award	Place	Type
Consumer Science - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **The Ellis School**

Principal: **Lauren Laschon**

Shivani Watson

Teacher: Erica Holtgraver

Producing Biofuel from Prickly Pear Cacti

Award	Place	Type
Braskem America	N/A	Sponsor
Chemistry - Intermediate	First Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Upper St. Clair High School**
 Principal: **Louis Angelo**

Ishaan Shah Teacher: Lynn Kistler
Maximizing Output of a Microbial Fuel Cell

Award	Place	Type
Air & Waste Management Assoc., W. PA Section	N/A	Sponsor
Duquesne Light	N/A	Sponsor
Earth/Space/Environment - Senior	Fourth Place	Category
Institute of Electrical & Electronics Engineers, Inc.	Honorable Mention	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Vincentian Academy**

Principal: **Rita Canton**

Laurie (Aeone) Song

Teacher: Andrea Malm

Air Quality and Cancer Mortality Rates: Comparison of regional trends across counties

Award	Place	Type
American Meteorological Society	N/A	Affiliate

Ik-Hyun Kim

Teacher: Andrea Malm

Gene Methylation is a Driver of Cellular Differentiation for Intrinsic Subtype of Breast Cancer during Carcinogenesis

Award	Place	Type
INTEL International Science and Engineering Award	N/A	Other
Medicine/Health/Microbiology - Senior	Second Place	Category
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Winchester Thurston School**

Principal: **Amanda Welsh**

Kush Bandi Teacher: David Piemme
Harvester Robot

Award	Place	Type
Bechtel Marine Propulsion Corporation	N/A	Sponsor
Engineering/Robotics - Intermediate	First Place	Category
NASA Earth System Science Award	N/A	Affiliate

Jackson Zemek Teacher: David Piemme
Harvester Robot

Award	Place	Type
Bechtel Marine Propulsion Corporation	N/A	Sponsor
Engineering/Robotics - Intermediate	First Place	Category
NASA Earth System Science Award	N/A	Affiliate

Jonah Keller Teacher: David Piemme
Two Track Roller Coaster

Award	Place	Type
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Matthew Shlomchik Teacher: David Piemme
Two Track Roller Coaster

Award	Place	Type
U.S. Navy/U.S. Marine Corps (Office of Naval Research)	N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

Aria Narasimhan

Teacher: David Piemme

Carpal Tunnel Syndrome

Award	Place	Type
University of Pittsburgh	N/A	Sponsor

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Winchester Thurston School**

Principal: **Kristen Klein**

Ria Bazaz Teacher: Graig Marx

Electrolysis & 3D printing for Coral Reefs

Award	Place	Type
National Oceanic & Atmospheric Administration	N/A	Affiliate
The Webb Law Firm	N/A	Sponsor

Luka van de Venne Teacher: Graig Marx

Electrolysis & 3D printing for Coral Reefs

Award	Place	Type
National Oceanic & Atmospheric Administration	N/A	Affiliate
The Webb Law Firm	N/A	Sponsor

Aria Eppinger Teacher: Graig Marx

Effects of Repeated Roundup Exposure on Antibiotic Resistance in Human Gut Bacteria

Award	Place	Type
Carnegie Mellon University Leonard Gelfand Center for Service Learning and Outreach	N/A	Sponsor
Medicine/Health/Microbiology - Senior	Fourth Place	Category
Robert Morris University	N/A	Sponsor

Nicole Shigiltchoff Teacher: Graig Marx

Diffusion Through Biogels

Award	Place	Type
La Roche College	N/A	Scholarship

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Woodland Hills Jr. Sr. High School**

Principal: **Candee Nagy**

Madeline Douglas Teacher: Jodi Blasi

Lather Up

Award	Place	Type
Consumer Science - Intermediate	Fourth Place	Category

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Yough Intermediate/Middle**
Principal: **Kevin Smetak**

Lillian Momyer		Teacher: Rachel Reissman	
<i>Trash To Gas</i>			
Award		Place	Type
American Meteorological Society		N/A	Affiliate

Covestro Pittsburgh Regional Science & Engineering Fair Award Winners

School: **Yough Sr. High School**

Principal: **Brian Sutherland**

Taylor Etze

Teacher: Jason Kramer

Produce Power; A "Current" Event

Award	Place	Type
Waynesburg University ACS Student Chapter	N/A	Sponsor