

Pittsburgh Regional Science Engineering Fair  
 Category Award Winners  
 Presented on March 27, 2010  
 Updated with Project Titles on April 7, 2010

Award	Winner	ProjectID	ProjectTitle
Physical Science - Junior-First Place	Laura Klos / St. Agnes / West Mifflin, PA	JPS035	Suck It Up!
Physical Science - Junior-Second Place	Andrew Doyle / Doyle HomeSchool / Wexford, PA	JPS020	Strong Rope? The Tension Builds
Physical Science - Junior-Second Place	Shaunay Edmonds / Manchester Academic Charter School / Pittsburgh, PA	JPS022	Bridge Weights
Physical Science - Junior-Third Place	Monica Buczynski / Mother of Sorrows / Murrysville, PA	JPS010	Ready, Set, Go
Physical Science - Junior-Third Place	Robert Specht / Mother of Sorrows / Murrysville, PA	JPS058	Why Aren't Fog Lights on Every Car?
Physical Science - Junior-HM	Jenna MacBeth / Linton Middle School / Pittsburgh, PA	JPS039	Equality of LIGHT?
Physical Science - Junior-HM	Austin Lucas / St. John The Baptist School / Pittsburgh,	JPS038	Have A Bowl of Nails For Breakfast.
Physical Science - Junior-HM	Kevin Wright / St. Joseph Regional School / Port Vue, PA	JPS067	Magnet Strength and Temperature
Physical Science - Junior-HM	Kiersten Elliott / St. Mary of the Assumption Glenshaw / Glenshaw, PA	JPS023	Magnetic Force
Life Science - Junior-First Place	Sophia Lee / Carson Middle School / Pittsburgh, PA	JLS030	Acid Rain: Algae Terminator
Life Science - Junior-Second Place	Conlon Novak / Franklin Regional Middle School / Murrysville, PA	JLS040	Gender and Spatial Reasoning
Life Science - Junior-Third Place	Arthini Pulenthiran / Franklin Regional Middle School / Murrysville, PA	JLS043	Got Milk?
Life Science - Junior-Third Place	Jessica Fanelli / Mother of Sorrows / Murrysville, PA	JLS019	Insulin vs. Exercise
Life Science - Junior-HM	Julie Choe / Carson Middle School / Pittsburgh, PA	JLS011	The Growth Comparison of Vegetables
Life Science - Junior-HM	Elias Kirk / DuBois Area Middle School / DuBois, PA	JLS028	How does the exposure to different colors of light affect bean plant growth?
Life Science - Junior-HM	Robert Grumski / Ingomar Middle School / Pittsburgh, PA	JLS023	Is Drinking Water Safe In Allegheny County?
Consumer Science - Intermediate-First Place	Rohan Hattangady / Franklin Regional Middle School / Murrysville, PA	MCS019	Efficacy of Laundry Detergents
Consumer Science - Intermediate-Second Place	Rachel Wattick / St. Thomas More School / Pittsburgh, PA	MCS053	Does Enamel Shield Rinse Protect Your Teeth?
Consumer Science - Intermediate-Third Place	Eric Pranievicz / Mary Queen of Apostles / New Kensington, PA	MCS043	Quit Counting Sheep!
Consumer Science - Intermediate-Third Place	Benjamin Catalano / Queen of Angels Catholic School / North Huntingdon, PA	MCS007	Tooth Sleuth
Consumer Science - Intermediate-HM	Brett Merritt / Ambridge Area Junior High School / Freedom, PA	MCS033	Which Wood Glue Is The Strongest
Consumer Science - Intermediate-HM	Juliana Fellowes / Mary Queen of Apostles / New Kensington, PA	MCS014	Facial Cleansers
Consumer Science - Intermediate-HM	Will Carvin / Mary Queen of Apostles / New Kensington,	MCS006	Is Dilution a Solution?
TEAM - Junior-First Place	Krishna Gopal, Sarah Kerman, Masha Savinov / Boyce Middle School / Upper St. Clair, PA	JTM021b	Roll On Over To Statistics
TEAM - Junior-Second Place	David Corbin, Chase Miller / Boyce Middle School / Upper St. Clair, PA	JTM017b	New Uses of Old Nitrogen
TEAM - Junior-Third Place	Maddisen Kresak, Sol LaBruna / Chartiers Valley Middle School / Bridgeville, PA	JTM011a	How do Color Filters and Angles Affect a Laser?
TEAM - Junior-HM	Braden Jones, Aidan Hoffman, Walker Orner / Quiet Creek School of Country Living / Brookville, PA	JTM025b	Which Blade Pitch Generates the Most Amps?
Behavioral and Social Science - Intermediate-First Place	Anna Henkels / St. Thomas More School / Pittsburgh, PA	MBS019	Color, Contrast and Acuity
Behavioral and Social Science - Intermediate-Second Place	Jillian Yant / Southern Middle School / Oakland, MD	MBS052	Does Sight Affect Taste?

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Behavioral and Social Science - Intermediate-Third Place	Hayden Stockwell / Pine-Richland Middle School / Gibsonia, PA	MBS044	Validating the Rorschach Blot Test
Behavioral and Social Science - Intermediate-Third Place	Matthew Wisneski / St. Mary of the Assumption Glenshaw / Glenshaw, PA	MBS051	Does playing a musical instrument influence your fingers' agility? How does heart rate change when doing a simulated activity on the Wii vs. doing the actual activity?
Behavioral and Social Science - Intermediate-HM	Carleen Long / DuBois Area Middle School / DuBois, PA	MBS029	
Behavioral and Social Science - Intermediate-HM	Madison Gallagher / Northern Garrett Middle School / Accident, MD	MBS017	We All Got 'em
Behavioral and Social Science - Intermediate-HM	Thomas Nash / Providence Heights Alpha School / Allison Park, PA	MBS034	Does Writing Style Affect the Learning Ability of Students?
Biology - Intermediate-First Place	Emily Yaruss / The Ellis School / Pittsburgh, PA	MBI063	How does algae affect pH?
Biology - Intermediate-Second Place	David Shipe / Freeport Junior High School / Freeport, PA	MBI054	How Quickly Can Mice Learn by Observation
Biology - Intermediate-Second Place	Madeline Lemberg / The Ellis School / Pittsburgh, PA	MBI035	How do parabolic mirrors affect plant growth?
Biology - Intermediate-Third Place	Megan Racioppo / Ambridge Area Junior High School / Freedom, PA	MBI047	The Effect of Cough Medicine on Daphnia
Biology - Intermediate-Third Place	Emma Wallace-Potts / Gateway Middle School / Monroeville, PA	MBI061	Bug Off
Biology - Intermediate-HM	Kathleen Howells / Ambridge Area Junior High School / Freedom, PA	MBI028	Shoo Flies
Biology - Intermediate-HM	Lily Brubaker / DuBois Area Middle School / DuBois, PA	MBI009	Does the breed of cow affect the number of calories in the cow's milk?
Biology - Intermediate-HM	Sara Trbojevic / St. Joseph Regional School / Port Vue, PA	MBI059	Does Dog Saliva Kill Bacteria?
Biology - Intermediate-HM	Katherine Omecene / St. Mary of the Assumption Glenshaw / Glenshaw, PA	MBI042	Fresh as a Daisy
Chemistry - Intermediate-First Place	Helaina Cozza / St. Thomas More School / Pittsburgh, PA	MCH018	Effect of Antacids on pH of Gastric Juice
Chemistry - Intermediate-Second Place	Jonathan Mulick / Mulick HomeSchool / Pittsburgh, PA	MCH043	Water, Ions, and Conductivity
Chemistry - Intermediate-Second Place	Evan Vinkler / Queen of Angels Catholic School / North Huntingdon, PA	MCH065	Does Oxi Clean Work Too Well?
Chemistry - Intermediate-Third Place	Julie McFall / Mary Queen of Apostles / New Kensington, PA	MCH042	Salt..It Rocks
Chemistry - Intermediate-HM	Adam Berkebile / The Campus School of Carlow University / Pittsburgh, PA	MCH005	Amt of Chem Affect Taste of Bottled Water?
Computer Science/Math - Intermediate-First Place	Calvin Beideman / Beideman HomeSchool / Pittsburgh, PA	MCM002	Coloring Circles
Computer Science/Math - Intermediate-Second Place	Jarrold Cingel / Independence Middle School / Bethel Park, PA	MCM003	Preventing Cyber Bullying in Instant Messages
Computer Science/Math - Intermediate-Third Place	Brandon Keller / St. Elizabeth Elementary / Pittsburgh, PA	MCM006	The Law of Large Numbers in Galileo's Passedix
Consumer Science - Junior-First Place	Noah Kinser / Mother of Sorrows / Murrysville, PA	JCS017	Batter Up!
Consumer Science - Junior-Second Place	Kathleen Bracken / Mother of Sorrows / Murrysville, PA	JCS004	The Arrow Stop Project
Consumer Science - Junior-Third Place	Babangida Adam / Albiruni Holistic Academy / Pittsburgh, PA	JCS001	Which product of bubble gum blows the biggest bubble?
Consumer Science - Junior-HM	April Miller / Mother of Sorrows / Murrysville, PA	JCS022	Which Dish Detergent Works Best?
Earth/Space/Environment - Intermediate-First Place	Dennis Doyle / St. Elizabeth Elementary / Pittsburgh, PA	MES008	A Brighter Shade of Gray
Earth/Space/Environment - Intermediate-Second Place	Nathan Burak / Hopewell Memorial Junior High School / Aliquippa, PA	MES004	Which Fence Best Stops Sand Erosion
Earth/Space/Environment - Intermediate-Third Place	Lauren Hensler / St. Thomas More School / Pittsburgh, PA	MES015	Effect of Pollutant Concentration on Daphnia
Earth/Space/Environment - Intermediate-HM	Julie Hetu / Mary Queen of Apostles / New Kensington, PA	MES016	Mucky Ducky

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Earth/Space/Environment - Intermediate-HM	Grace Smoker / St. Thomas More School / Pittsburgh, PA	MES031	Worm's Effect on NPK in Soil
Engineering/Robotics - Intermediate-First Place	Katherine Scherer / Windmill Hill Homeschool / New Brighton, PA	MER021	Automatic Bird Feeder Refiller
Engineering/Robotics - Intermediate-Second Place	Padon Rishell / DuBois Area Middle School / DuBois, PA	MER018	Solar - Tracker
Engineering/Robotics - Intermediate-Third Place	Jonathan Grygiel / Ingomar Middle School / Pittsburgh, PA	MER007	How To Cool With Electronics
Engineering/Robotics - Intermediate-HM	Mary Frac / St. Thomas More School / Pittsburgh, PA	MER006	Standing on Solid Ground
Medicine/Health/Microbiology - Intermediate-First Place	Gabriel Schroeder / Mary Queen of Apostles / New Kensington, PA	MMH030	Are pasteurized eggs all they're cracked up to be?
Medicine/Health/Microbiology - Intermediate-Second Place	Victoria Schmotzer / St. Thomas More School / Pittsburgh, PA	MMH028	Flooring Effect on Bone Stress
Medicine/Health/Microbiology - Intermediate-Third Place	Nepheli Raptis / The Ellis School / Pittsburgh, PA	MMH025	Spices and Antibiotics
Medicine/Health/Microbiology - Intermediate-HM	Taylor Borrelli / Freeport Junior High School / Freeport, PA	MMH005	How Contam. is Wtr Spry on Prodc?
Medicine/Health/Microbiology - Intermediate-HM	Angela Sanctis / St. Thomas More School / Pittsburgh, PA	MMH026	The Effectiveness of Hand Sanitizers on Bacteria
Physics - Intermediate-First Place	Sruthi Muluk / The Ellis School / Pittsburgh, PA	MPH048	Efficiency of Solar Distillers
Physics - Intermediate-Second Place	Shannon Hogan / Ambridge Area Junior High School / Freedom, PA	MPH027	Magic Motor Oil: Which Blend of Motor Oil Gives the Best Lubrication?
Physics - Intermediate-Second Place	Patrick Shick / Slippery Rock Area School District / Slippery Rock, PA	MPH075	Static power
Physics - Intermediate-Second Place	Julia Ferry / St. Thomas More School / Pittsburgh, PA	MPH015	Conductance & Electrolyte Concentration
Physics - Intermediate-Third Place	Brandon Raley / Northern Garrett Middle School / Accident, MD	MPH059	And the Kick Is Good
Physics - Intermediate-Third Place	Lauren Wolf / St. Angela Merici School / White Oak, PA	MPH087	Putting Perfection
Physics - Intermediate-Third Place	Lucas Rosenblatt / The Campus School of Carlow University / Pittsburgh, PA	MPH066	Does the Angle of a Solar Panel Affect the Potential Energy Collected?
Physics - Intermediate-HM	Jacob Griffith / Ambridge Area Junior High School / Freedom, PA	MPH022	Bounce Locations Affecting Bounce Heights
Physics - Intermediate-HM	Sindhu Sekaran / Fort Couch Middle School / Upper St. Clair, PA	MPH073	Study of surface area in melting ice blocks
Physics - Intermediate-HM	Rachael Huxford / Southern Middle School / Oakland, MD	MPH030	Aerodynamic Fuselages
TEAM - Intermediate-First Place	Brendan Acri, Alex Lynch / St. Mary of the Assumption Glenshaw / Glenshaw, PA	MTM008	Rust On Rust Off
TEAM - Intermediate-Second Place	Ryan O'Connell, Cody Reinstadtler / Chartiers Valley Middle School / Bridgeville, PA	MTM015	Hypersensitive Hearing
TEAM - Intermediate-Third Place	Karly Smrekar, Allison Stokes / St. Mary of the Assumption Glenshaw / Glenshaw, PA	MTM005	Don't Forget to Protect
Behavioral and Social Science - Senior-First Place	Rachel Ochsenhirt / Shaler Area High School / Pittsburgh, PA	SBS037	The Effects of Visual Stimuli and Memory Retention
Behavioral and Social Science - Senior-Second Place	Ashley Johnson / Cambria Heights High School / Patton, Rebecca Deane / Ambridge Area Senior High School / Ambridge, PA	SBS023	Effects of LH and FSH on Emotional Perception
Behavioral and Social Science - Senior-Third Place	Stephanie Schneider / Oil City Area Sr. High School / Oil City, PA	SBS010	The Effect of Mental Conditioning on an Athlete's Performance
Behavioral and Social Science - Senior-Third Place	Jennifer Matjasko / Freeport Senior High School / Sarver, PA	SBS041	Don't Upset the Rhythm
Behavioral and Social Science - Senior-HM	Shane Fischbach / Pittsburgh Allderice / Pittsburgh, PA	SBS028	Can Children Differ. Between Candy and Meds
Behavioral and Social Science - Senior-HM		SBS016	Popliteal Light Stimulation

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Behavioral and Social Science - Senior-HM	Ashley Whoolery / South Allegheny High School / McKeesport, PA	SBS049	How To Make A Protist Happy
Biology - Senior-First Place	Natalie Brock / St. Joseph High School / Natrona Heights, PA	SBI006	Comparison of Hydroponic Systems
Biology - Senior-Second Place	Evan Klei / Pine-Richland High School / Gibsonia, PA	SBI021	Mating Strategies to Manage Recessive Alleles
Biology - Senior-Third Place	Nick Brown / Mt. Lebanon High School / Pittsburgh, PA	SBI007	E. coli survivorship in CaCl <sub>2</sub> and Copper (II)
Biology - Senior-HM	Nic Jedema / Central Catholic High School / Pittsburgh, PA	SBI019	The Effects of Cigarette Smoke on Yeast
Biology - Senior-HM	David McFall / Central Catholic High School / Pittsburgh, PA	SBI023	Coffee Effects on Escherichia coli
Biology - Senior-HM	Jack Schnur / St. Joseph High School / Natrona Heights, PA	SBI033	The Effect of Hydrogen Peroxide on Plant Growth
Chemistry - Senior-First Place	Maria Kovalchuk / The Ellis School / Pittsburgh, PA	SCH019	Fresh Water from Industrial Wastes
Chemistry - Senior-Second Place	Jennifer Mikec / Peters Township High School / McMurray, PA	SCH029	Analyzing Antioxidants
Chemistry - Senior-Third Place	Adam Dando / Franklin Regional Senior High School / Murrysville, PA	SCH005	Mine Acid Neutralization
Chemistry - Senior-HM	Michael Williams / Central Catholic High School / Pittsburgh, PA	SCH045	Leaching of Placticizers into Bottled Water
Chemistry - Senior-HM	Robert Gorog / Freeport Senior High School / Sarver, PA	SCH011	Which Insect Repel Red Mono STR?
Chemistry - Senior-HM	Ashley Matta / St. Joseph High School / Natrona Heights, PA	SCH024	Antioxidant Capacity of Teas
Computer Science/Math - Senior-First Place	Sasank Chundi / Upper St. Clair High School / Pittsburgh, PA	SCM002	Analysis of Protein Structure using Computational Methods
Computer Science/Math - Senior-Second Place	Joseph Thieret / Serra Catholic High School / McKeesport, PA	SCM011	Liquid Efficiencies in Processor Cooling
Computer Science/Math - Senior-Third Place	Andrew Pfeifer / Bethel Park High School / Bethel Park, PA	SCM009	Agent-Based Data Distribution
Earth/Space/Environment - Senior-First Place	Elijah LaSota / Cambria Heights High School / Patton, PA	SES035	Mosquito Repellents
Earth/Space/Environment - Senior-Second Place	Inga Saathoff / Oil City Area Sr. High School / Oil City, PA	SES044	Identifying T Tauri Stars
Earth/Space/Environment - Senior-Third Place	Michael Stoltz / Cambria Heights High School / Patton, PA	SES053	Biogas to Biomass
Earth/Space/Environment - Senior-HM	Ainesh Ravi / Bethel Park High School / Bethel Park, PA	SES041	Pleiotropic Effects of HSP101
Earth/Space/Environment - Senior-HM	Christian Eckenrode / Cambria Heights High School / Patton, PA	SES019	Beneficial Biosolids?
Earth/Space/Environment - Senior-HM	Sarah Sokol / Freeport Senior High School / Sarver, PA	SES049	Effect of Weed Kill on Bacteria
Engineering/Robotics - Senior-First Place	Matt Vernacchia / Upper St. Clair High School / Pittsburgh, PA	SER027	Automotive Photobioreactor
Engineering/Robotics - Senior-Second Place	Arianna Carley / Sewickley Academy / Sewickley, PA	SER006	Efficient extraction of energy from human motion
Engineering/Robotics - Senior-Third Place	Megan Rosenberger / St. Joseph High School / Natrona Heights, PA	SER018	Channeling Hydroelectric Power in a Rain Barrel
Engineering/Robotics - Senior-HM	Abigail Doyle / Doyle HomeSchool / Wexford, PA	SER009	Torque is Cheap
Medicine/Health/Microbiology - Senior-First Place	Ariel Schroeder / St. Joseph High School / Natrona Heights, PA	SMH045	Improving Stethoscope Hygiene
Medicine/Health/Microbiology - Senior-Second Place	Julie Wu / North Allegheny Senior High School / Wexford, PA	SMH056	A Study of Omega-3 Fatty Acids on Cancer
Medicine/Health/Microbiology - Senior-Third Place	Ishan Chatterjee / Fox Chapel Area High School / Pittsburgh, PA	SMH009	Antioxidant Remediation of Oxidative Stressed Stem Cell Line

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Medicine/Health/Microbiology - Senior-Third Place	Chareeni Kurukulasuriya / Pittsburgh Allderdice / Pittsburgh, PA	SMH025	DHA's Effects on Cancer Cell Cycle
Medicine/Health/Microbiology - Senior-HM	Alec DiVito / Central Catholic High School / Pittsburgh, PA	SMH013	Radiation's Effect on Plasmid DNA
Medicine/Health/Microbiology - Senior-HM	Arichanah Pulenthiran / Franklin Regional Senior High School / Murrysville, PA	SMH040	Milk??? I Don't Want It!!
Medicine/Health/Microbiology - Senior-HM	Juliana Tambellini / Thomas Jefferson High School / Jefferson Hills, PA	SMH051	Advil's Influence on Prokaryotic Gene Expression
Physics - Senior-First Place	Mark Ignaczak / St. Joseph High School / Natrona Heights, PA	SPH016	Lip and Tongue Force
Physics - Senior-Second Place	Natalie Nash / Vincentian Academy - Duquesne University / Pittsburgh, PA	SPH020	How is a Battery Affected by its Charging Plan?
Physics - Senior-Third Place	Rebecca Stabile / Pine-Richland High School / Gibsonia, PA	SPH031	Physical Mechanism of Parity Violation
Physics - Senior-HM	Cheng Wang / Peters Township High School / McMurray, PA	SPH036	The Range of Projectiles
Physics - Senior-HM	Zachary Hudak / Serra Catholic High School / McKeesport, PA	SPH015	Solar Furnace