

65th Pittsburgh Regional Science and Engineering Fair Category Awards, April 2-3, 2004

Junior Division – Physical Science (Grade 6)

Student's Name	Title of Project	School/Teacher	Award
Cody Marie Wild	How To Build a Better Igloo	Penn Cambria Middle School/Timothy Wess	First Place
Alexandra Klos	Galileo's Pulse	St. Agnes/Corrine Pfefferkorn	Second Place
Stephen Andryka	Gait Patterns in Hexapod Robot	Linton Middle School/Claire Dice	Third Place
Kevin Fink	How High Will It Go	St. Agnes/Corrine Pfefferkorn	Honorable Mention
Michael P. Moeslein	Does Rear Wheel Size Matter?	St. Elizabeth Elementary School/Bruce Kolosvary	Honorable Mention
Daniel Whiteman	Drag and Swimming Clothing	Franklin Regional Middle School/John Blank	Honorable Mention

Junior Division – Life Science (Grade 6)

Sean Broderick	Macroinvertebrates and Water Quality	Sterrett Classical Academy/Terri Knaebel	First Place
Peter Rodrigues	Effect of Sed. On Photosyn.	St. Maurice School/Angelo Lamanti	Second Place
William Mauser	Sleep and Memory	Linton Middle School/Claire Dice	Third Place
Tim DeVita	Which deodorant inhibits armpit bacteria best?	Carlow Campus School/Carole Wojciechowski	Honorable Mention

Junior Division – Consumer Science (Grade 6)

Nicole Tripp	Which Popcorn Kernels Pop the Best?	Anthony Wayne Elementary School/Tracey Rhode	First Place
Nathan Jones	Bad Breath Busters	Economy Elementary/Sandy Stupar	Second Place
Alicia Pottmeyer	Stop Sliced Apples from Browning	Carson Middle School/Joe Harvey	Third Place
Samual McHenry	Diaper Power	State Street Elementary School/Dawn Finnegan	Honorable Mention

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Elizabeth Dofner	The Corrosion Colas	Economy Elementary/Sandy Stupar	Honorable Mention
Laura Schubert	Low Calorie vs Regular Food	Carlow Campus School/Carole Wojciechowski	Honorable Mention

Intermediate Division – Behavioral and Social Science (Grades 7 & 8)

Brad Very	Effect of Distractions on Driving	Providence Heights Alpha School/Kathleen Spencer	First Place
Kelly Freyder	Sounds: The Behavior of Horses	St. Thomas More School/Cathy Borecky	Second Place
Ryan Fanelli	A Human Lie Detector: Can Reactions Prove Someone Is Lying?	St. Maurice School/Angelo Lamanti	Third Place
Marissa Pierson	Color Background & Visual Acuity	St. Thomas More School/Cathy Borecky	Honorable Mention

Intermediate Division – Biology (Grades 7 & 8)

Lorren Kezmoh	Frog Coloration Station	Brentwood Middle School/Sherry Nystrom	First Place
Michael Andryka	Flocking Behavior in Robots	Linton Middle School/Claire Dice	Second Place
Matthew Conrad	Tainted Justice	Cambria Heights Middle School/Laura Fisanick	Third Place
Sarah Wattick	Influence of Glucose & Insulin	St. Thomas More School/Cathy Borecky	Honorable Mention
Carol Lin	Garlic vs. Honey: Which Kills More Bacteria?	Dorseyville Middle School/Kathy Orient	Honorable Mention
James Christel	Ant Antics: Diet and Light	St. Alphonsus School/Nancy Snyder	Honorable Mention

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Intermediate Division – Chemistry (Grades 7 & 8)

Michelle Perry	There's Crayon on the Wall	St. Thomas More School/Cathy Borecky	First Place
Praveen Tummalapalli	Iron Optimization	Dorseyville Middle School/Kathy Orient	Second Place
Natalie Ricci	Vitamin C: Organic vs. Conventional	St. Thomas More School/Cathy Borecky	Third Place
Jenna Boyles	Paints of the Past/Present: Creating a Lasting Work of Art	Frazier Middle School/Donna Clark	Honorable Mention
Michael Barkowski	Electrolytes in Sports Drinks	Mary, Queen of the Apostle/Cathy Greco (Mary, Queen of the Apostle)	Honorable Mention
Tyrella Travis	Acid Mine Drainage	Prospect Middle School/Tripta Goyal	Honorable Mention

Intermediate Division – Computer Science/Math (Grades 7 & 8)

Caroline Rogi	The Dacey Facts	Franklin Regional Middle School/John Blank	First Place
Lavanya Sivakumar	Genetic Algorithm in Acoustics	Franklin Regional Middle School/John Blank	Second Place
Srihari Seshadri	Evaluating Computer Algorithms	Franklin Regional Middle School/John Blank	Third Place

Intermediate Division – Consumer Science (Grades 7 & 8)

Jonathan Dumm	Testing Battery Efficiency	Linton Middle School/Claire Dice	First Place
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Christopher Schuck	Not So Loud	St. Thomas More School/Cathy Borecky	Second Place
Andrew Stack	Ketchup and a base in baking	Franklin Regional Middle School/John Blank	Third Place
Lisa Blonski	The Effect of Yeast Brands on Bread	Ambridge Junior High/Holly Fritz	Honorable Mention
Valerie Cycholl	The Fat Content in Potato Chips	Ambridge Junior High/Karen DeMarco	Honorable Mention
Evan Goncz	Toothpaste's Ability to Remove Stains	Ambridge Junior High/Karen DeMarco	Honorable Mention

Intermediate Division – Earth/Space/Environment (Grades 7 & 8)

Peter Gayler	Effect of Temperature on Snow Crystal Formation	Ingomar Middle School/John Ashoff	First Place
Raul Trisal	A Study of Pesticide Effectiveness	Providence Heights Alpha School/Kathleen Spencer	Second Place
Harina Vin	Neutralizing Mine Drainage	Franklin Regional Middle School/John Blank	Third Place
Alex Fattore	Effect of Acid Rain on Iron	Beaver Area Middle School/Donna Nunamaker	Honorable Mention
Kerrick Dando	Green Roof Ecology	Franklin Regional Middle School/John Blank	Honorable Mention
Jessica McMurray	Effect of Filtration on Water	Ambridge Junior High/Karen DeMarco	Honorable Mention

Intermediate Division – Engineering/Robotics (Grades 7 & 8)

Matthew Lipner	Wind Turbine Blade Effects	Gateway Middle School/Karen Maddix	First Place
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Mark Baldinger	Waffling For Strength	Beaver Area Middle School/Donna Nunamaker	Second Place
Julie Gaydosik	Breakin' Bridges	Hopewell Memorial Jr. High School/Paula Cosnek	Third Place
Steve Hood	Magnetic and Air Lock Brakes	Ingomar Middle School/John Ashoff	Honorable Mention
Chris Hruska	Does Design Affect Speed?	Pine-Richland Middle School/Kathy Deal	Honorable Mention
Jordan Jennings	Sky High!	St. Agnes/Lori J. Guthrie	Honorable Mention

Intermediate Division – Medicine/Health/Microbiology (Grades 7 & 8)

Greg Napierski	How Clean Are Your Hands?	Hopewell Memorial Jr. High School/Ed Burak	First Place
Anton Schraut	MRSA: A Community Pathogen?	Aquinas Academy of Pittsburgh/James Richthammer	Second Place
Gary Leadbitter	Chicken Growth Rate	Hopewell Memorial Jr. High School/Ed Burak	Third Place
Matt Boyas	Effectiveness of Natural Heartburn Remedies	Fort Couch Middle School/Caren Falascino	Honorable Mention
Justin Trop	Metal Mania	Carlow Campus School/Carole Wojciechowski	Honorable Mention
Catherine Kane	Is Your Reed a Hazard?	Cambria Heights Middle School/Laura Fisanick	Honorable Mention

Intermediate Division – Physics (Grades 7 & 8)

Kaitlin Vavoso	Insulation Station	Mother of Sorrows School/Jackie Alcorn	First Place
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Ryan Ott	Can Noise Pollution be Controlled?	Providence Heights Alpha School/Kathleen Spencer	Second Place
Lauren Sittler	Material Types on the Production of Static	Ambridge Junior High/Karen DeMarco	Third Place
Ethan Spada	Shuttle Trouble	Beaver Area Middle School/Donna Nunamaker	Honorable Mention

Senior Division – Behavioral and Social Science (Grades 9-12)

Chelsea Sutherland	The Cause of Obesity	Ambridge Area High School/Holly Fritz (SR HIGH)	First Place
Josh Hostetter	Quantifying Hidden Biases	Pittsburgh Cental Catholic High School/Mark Krotec	Second Place
Rebecca Label	Mental Stimulation and Learning	Norwin High School/Brian Nevi	Third Place
Deacon Nemchick	Affect of L-Tyrosine on Memory	Norwin High School/Brian Nevi	Honorable Mention
Katherine Vecchi	The Ability of a Corvus Albus	Highlands High School/John Gregorich	Honorable Mention
Daniel Berkepille	Thinking Under Pressure	Norwin High School/Brian Nevi	Honorable Mention

Senior Division – Biology (Grades 9-12)

Chad Hoover	Breed or Not to Breed	Cambria Heights High School/Laura Fisanick (HS)	First Place
Grace Park	Biochemical Memory in Planaria	Franklin Regional Senior High School/James Passarelli	Second Place
Roman Oliver	Using Lime to Protect Pine Trees	Serra Catholic High School/Kathy Warcup	Third Place
Patrick Caruso	The Effects of Cryogenic Solutions on Preservation	Mt. Lebanon Senior High School/Irene Duda	Honorable Mention
Miranda Hileman	Ethylene Effects on Bananas	St. Joseph High School/Cathy Greco	Honorable Mention

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Senior Division – Chemistry (Grades 9-12)

Megan Conroy	Acid Mine Drainage Remediation	Conroy Learning Center/Stephanie Conroy	First Place
Di Ye	Carbon Sequestration by Bauxite Residue	Mt. Lebanon Senior High School/Irene Duda	Second Place
Chengjou Liao	Monitoring Solution Levels	Franklin Regional Senior High School/James Passarelli	Third Place
Arindam Ghosh	Analysis of an Antioxidant	Franklin Regional Senior High School/James Passarelli	Honorable Mention
Nisha Vasavada	Antioxidants & Cell Death	Fox Chapel Area High School/Gregory Schubert	Honorable Mention
Karen Vaughn	Oxygen Concentration vs. Reaction Rate with Sulfite	Bethel Park High School/Barbara Eisel	Honorable Mention

Senior Division – Computer Science/Math (Grades 9-12)

Albert Sheu	Coding/Analysis of Steganography	Franklin Regional Senior High School/James Passarelli	First Place
Eric Winer	Hierarchies in a Relational DB	Mt. Lebanon Senior High School/Irene Duda	Second Place
Reid Myers	Measuring the Accuracy of a robot	Allerdice High School/Cathy Didomenico	Third Place

Senior Division – Earth/Space/Environment (Grades 9-12)

Daile Flurry	MtBE and TAML Reaction Byproduct	Schenley High School/Charlotte Atwood	First Place
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Michael J. Bashline	Algal Response to Therapeutics	Pittsburgh Cental Catholic High School/Mark Krotec	Second Place
Caitlin Sullivan	Antifreeze Study	St. Joseph High School/Cathy Greco	Third Place
Samantha Bell	Effect of Fire Retardant Chemicals on Freshwater Ecosystems	Seneca Valley Intermediate High School/Patti Griest	Honorable Mention
Elessa A. Young	The Galactic Center	Seton LaSalle High School/Delwyn T. Peterson	Honorable Mention
Hamza Hyder	Mercury vs. Xenopus Laevis	North Allegheny Intermediate High School/Anne Marklewicz	Honorable Mention

Senior Division – Engineering/Robotics (Grades 9-12)

Babur Khwaja	Aerofoil Study in Wind Tunnel	Franklin Regional Senior High School/James Passarelli	First Place
Geza I. Erdos	Exploring Nanotechnology	North Allegheny Senior High School/Karl Kennedy	Second Place
Aunup Bhattacharyya	Prediction of Clamp-Pressure	Franklin Regional Senior High School/James Passarelli	Third Place
Jennifer Cross	HARP: Helicopter-based Autonomous Robotic Pilot	State College Area High School/Jack Lyke	Honorable Mention
Anna Kudla	House of Cards?	South Allegheny Sr. High School/Mrs. Libby	Honorable Mention
Erin Gray	What's Shakin?	Upper St. Clair High School/Jean Austin	Honorable Mention

Senior Division – Medicine/Health/Microbiology (Grades 9-12)

Peter Lynch	Assay of Immobilized BMP-2	Pittsburgh Cental Catholic High School/Mark Krotec	First Place
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Michael Mi	From Fat to Bone - Year 2	Mt. Lebanon Senior High School/Irene Duda	Second Place
Christopher Gerber	Antibacterial Dentifrice	Serra Catholic High School/Kathy Warcup	Third Place
Shania Jones	Caffeine's Effect on Chicken Embryos	George Westinghouse High School/Shirley York	Honorable Mention
Munia Islam	Cytotoxic & synergistic effects of LSA-5 & Ampicillin	Fox Chapel Area High School/Gregory Schubert	Honorable Mention
Gianna Englert	Ascorbic Acid & NPV Prevention	St. Joseph High School/Cathy Greco	Honorable Mention

Senior Division – Physics (Grades 9-12)

Zachary Scherer	Testing submarine shapes for the hull of it	Windmill Hill HomeSchool/Kim Scherer	First Place
Myles Nickolich	The Accuracy of CT Scans	California Area School District/Bill Fabbri	Second Place
Gray Horwitz	Effects of UV Light on Power Lines	Schenley High School/Mark Murphy	Third Place
Louis Greco	Sectional Density/Penetration	St. Joseph High School/Cathy Greco	Honorable Mention
Michael Vaughn	Minimizing Drag in Boat Hull Design	Bethel Park High School/Barbara Eisel	Honorable Mention
Andrew Armstrong	Which Tent Stake has the best holding power?	Bethel Park High School/Barbara Eisel	Honorable Mention