

64th Pittsburgh Regional Science and Engineering Fair Category Award Winners – April 4-5, 2003

Junior Division — Physical Science (Grade 6)

Student	Title of Project	School/Teacher	Award
Mara Makarczyk	Wacky Waves	Rhema Christian School/Bonnie Cavallo	First Place
Lavanya Sivakumar	Can a Lattice Block Sound?	Franklin Regional Middle School/John Blank	Second Place
Rauhit Ashar	Investigations in designing solar cars	Western Pennsylvania Cyber Charter School/Urmi Ashar	Third Place
Lisa Dulac	Sugar Crystals: What Makes Them Grow?	St. Maurice School/Angelo Lamanti	Honorable Mention
Chris Hruska	How do rockets fly different?	Pine-Richland Middle School/Kathy Deal	Honorable Mention
Greg Piehler	Car Aerodynamics	Carson Middle School/Joe Harvey	Honorable Mention

Junior Division — Life Science (Grade 6)

Student	Title of Project	School/Teacher	Award
Allysa Nagy	Calories And Snacks	Shaler Area Middle School/Dolores Cessar	First Place
Nathaniel Ondeck	Light Intensity	Franklin Regional Middle School/John Blank	Second Place
Jeffrey Gooch	Temperature and Catalase Enzymes	St. Joseph Regional/Pam Jenko	Third Place
Talia Rudkin	And the Beat Goes On	Community Day School/Art Dickter	Honorable Mention
James Howard	What Else Is On Your BLT?	St. Agnes/Diane Skreppen	Honorable Mention

Junior Division — Consumer Science (Grade 6)

Student	Title of Project	School/Teacher	Award
Brianne Reau	B.A.T. Battery Assessment Testing	Mother of Sorrows School/Gabriela Rose	First Place
Chelsea Meyer	All Dried Up!	St. Agnes/Diane Skreppen	Second Place
Jonathan Sacco	Is It Better or Is It Worse?	State Street Elementary School/Dawn Finnegan	Third Place
Betsy Gall	The Effect of Sight on Taste	State Street Elementary School/Dawn Finnegan	Honorable Mention

Matthew Machiko	Which soda has the most carbonation?	Carson Middle School/Joe Harvey	Honorable Mention
Ashley Wilinski	Which Chocolate Melts The Fastest?	Anthony Wayne Elementary School/Tracy Gaguzis	Honorable Mention

Intermediate Division — Behavioral and Social Science (Grades 7 - 8)

Student	Title of Project	School/Teacher	Award
Jennifer Li	Musing about Morning Meals	Gateway Middle School/Lynn Martin	First Place
Rishi Mohnot	Subliminal Messages	Franklin Regional Middle School/John Blank	Second Place
Lisa MacPhail	The Effect of Stress on Performance	Providence Heights Alpha School/kathleen spencer	Third Place
Karey Humphries	The Great Commute Dispute	Beaver Area Middle School/Donna Nunamaker	Honorable Mention
Brandi Bair	Mice in the Spotlight	Linton Middle School/Claire Dice	Honorable Mention
Aaron Jahoda	The Effect of Sleep on Test Scores	Ambridge Junior High/Karen DeMarco	Honorable Mention

Intermediate Division — Biology (Grades 7 – 8)

Student	Title of Project	School/Teacher	Award
Lorren Kezmoh	Frog Formation Station	Brentwood Middle School/Janet DiBucci	First Place
Ben Skal	Fingerprints, a Genetic Link?	St. Alphonsus School/Nancy Snyder	Second Place
Laura Zalewsky	Effect of Inhalants on A. Domesticus	Ambridge Junior High/Karen DeMarco	Third Place
Jane Henkels	Caffeine & Maranta Sleep Movement	St. Thomas More School/Cathy Borecky	Honorable Mention
Joshua Elser	Radioactive Hydro/Horticulture	Ambridge Junior High/Karen DeMarco	Honorable Mention
Colin Brookes	Do Water Purity Treatments Affect Amoeba?	Mellon Middle School/Darlene Corris	Honorable Mention

Intermediate Division — Chemistry (Grades 7 – 8)

Student	Title of Project	School/Teacher	Award
Nathan Sudie	Water Hardness Vs. Hair Dye	St. Joseph Regional/Pam Jenko	First Place
Patrick Zehnder	Antacids and ph levels of Lemon Juice	Ambridge Junior High/Holly Fritz	Second Place
Philip Dulac	Fishing for C1 and pH in River Water	St. Maurice School/Angelo Lamanti	Third Place

Caitlin Davidson	Candles Additives and Burning Times	Ambridge Junior High/Holly Fritz	Honorable Mention
Sarah Wattick	Analysis: Tooth Whitening Products	St. Thomas More School/Cathy Borecky	Honorable Mention
Hannah Diorio-Toth	Chromatography and Pigment ID	St. Maurice School/Angelo Lamanti	Honorable Mention

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

Student	Title of Project	School/Teacher	Award
Chuck Moyes	Interactive Racing Application and Solution	Kiski Area Intermediate School/Marshall Barclay	First Place
Srihari Seshadri	Unknown Mathematical Patterns	Franklin Regional Middle School/John Blank	First Place
Kate Tuley	A Study of Expansions of Pascal's Triangle	Penn Middle School/Jason Zimmer	Second Place
Francis Fisher	Computer Economics Game	Franklin Regional Middle School/John Blank	Third Place

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

Student	Title of Project	School/Teacher	Award
Shari Lee	Turn That Down!	St. Thomas More School/Cathy Borecky	First Place
Hamza Hyder	Does Golf Ball Composition Affect Putting Accuracy?	Providence Heights Alpha School/kathleen spencer	Second Place
Marissa Pfoff	Quality of Digital Photographs	Providence Heights Alpha School/kathleen spencer	Third Place
Zachary Scherer	Wax It To Max It?	Windmill Hill HomeSchool/Kim Scherer	Honorable Mention
Lindsay Tejan	Breathe Friendly	Rhema Christian School/Bonnie Cavallo	Honorable Mention
Steven Dadowski	Which Cools the Burn?/Consumer Science - Intermediate	St. Thomas More School/Cathy Borecky	Honorable Mention
Brad McGuirk	What is the Best Cooling for Your PC?	St. Elizabeth Elementary School/Bruce Kolosvary	Honorable Mention
Ciara Durham	Calcium Supplements on Bone Loss	Ambridge Junior High/Holly Fritz	Honorable Mention
Eric Hamilton	The Effect of Bearings on Ollie Distance	Ambridge Junior High/Karen DeMarco	Honorable Mention
Becky Novacek	Paint Durability of Bricks	Hopewell Memorial Jr. High	Honorable Mention

		School/Paula Cosnek	
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Intermediate Division — Earth/Space/Environment (Grades 7 – 8)

Student	Title of Project	School/Teacher	Award
Sarah Kraus	The Effect of Coverings on a Solar Oven	Ambridge Junior High/Holly Fritz	First Place
Katie Lloyd	How Strong Is Hard Water?	Beaver Area Middle School/Donna Nunamaker	Second Place
Daniel Weber	Differential Solar Rotation	Keystone Oaks High School/Charles Rodkey	Third Place
Eve Marie Blasinsky	Materials Effective in the Absorption of Oil Spills	Providence Heights Alpha School/kathleen spencer	Honorable Mention
Michael Frac	Oil Spills & Bird Survival	St. Thomas More School/Cathy Borecky	Honorable Mention
Candace Grimm	Dirty Currency?	Frazier Middle School/Donna Clark	Honorable Mention

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

Student	Title of Project	School/Teacher	Award
Jessica Kowach	How Does The Weight Of A Projectile Affect The Distance Thrown?	Hopewell Memorial Jr. High School/Ed Burak	First Place
Ryan Fitzgerald	The effect of paddle number on speed	Hopewell Memorial Jr. High School/Paula Cosnek	Second Place
Douglas Migitsch	Bend and Twist	Rhema Christian School/Bonnie Cavallo	Third Place
Josh Timko	Concrete vs. The Elements	Frazier Middle School/Donna Clark	Honorable Mention
Greg Gormley	Keeping You in Suspension	Gateway Middle School/Robert Coen	Honorable Mention

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

Student	Title of Project	School/Teacher	Award
Megan Meinert	Synergy, Antibiotics & Medicinal Plants	St. Thomas More School/Cathy Borecky	First Place
Maeve Ward	Effectiveness of Wound Cleaners	Carlow Campus School/Carole Wojciechowski	Second Place
Jack(Jia kun) Zhang	The Effect of pH on E.coli	Mellon Middle School/Darlene Corris	Third Place
Ray Pascoe	Does the Dew Do it?	Gateway Middle School/John Ashoff	Honorable Mention

Alexandra Doonan	The Microbiology of Sauerkraut	St. Joseph Regional/Pam Jenko	Honorable Mention
Beth Hartzog	Happy Horses Drink Healthy Water/Medicine/Health/Microbiology - Intermediate	Cambria Heights Middle School/Laura Fisanick	Honorable Mention

Intermediate Division — Physics (Grades 7 – 8)

Student	Title of Project	School/Teacher	Award
Greg Salopek	The Effect of Sling Length on a Trebuchet's Launching Distance	Ambridge Junior High/Holly Fritz	First Place
Benjamin Diehl	Testing Lubricants on Small Bearings	Brentwood Middle School/Sherry Nystrom	Second Place
Tanya Johnson	Seeing in Ground with Electricity	Gateway Middle School/Robert Coen	Third Place
Annissa Halulko	Propulsion	Hopewell Memorial Jr. High School/Ed Burak	Honorable Mention

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

Student	Title of Project	School/Teacher	Award
Emily Schofield	The influence of question content on responses	Shadyside Academy/Kathy Malone	First Place
Ambika Sharma	The efficiency of the visual cortex vs the auditory cortex in short-term memory	Shadyside Academy/Heather King-Smith	Second Place
Megan Block	A Comparison of Verbal and Graphic Stimulii in Learning	Conemaugh Township Area High School/Deanna Haddle	Third Place
Matt Lyons	The Accuracy of Eyewitness Reports	Quigley Catholic High School/Janet Bonislawsky	Honorable Mention

Senior Division — Biology (Grades 9-12)

Student	Title of Project	School/Teacher	Award
Joshua Hostetter	Smoker's Olfactory Function	Pittsburgh Cental Catholic High School/Mark Krotec	First Place
Steven Miller	The Effects of Digestive Enhancing Products in Rumen	Conemaugh Township Area High School/Deanna Haddle	Second Place
Christopher M. DeVita	Effects of Caffeine on Triops	Pittsburgh Cental Catholic High School/Mark Krotec	Third Place

Michael Rule	Silicon & Stem Stiffness	Fox Chapel Area High School/Gregory Schubert	Honorable Mention
Jamiyla Miller	Hawthorn Berries and Heart Rate	Western Pennsylvania Cyber Charter School/Diana Miller	Honorable Mention
Caitlin Sullivan	The Effects of Microorganisms On The Growth Of Legumes	St. Joseph High School/Cathy Greco	Honorable Mention

Senior Division — Chemistry (Grades 9-12)

Student	Title of Project	School/Teacher	Award
Samantha Conroy	Landfill Chemistry	Conroy Learning Center/Stephanie Conroy	First Place
Arindam Ghosh	Analysis of Pain Relievers	Franklin Regional Senior High School/Chad Roland	Second Place
Kirstin Fowler	Eff of Drvd Chem Fresco Restorative	Fox Chapel Area High School/Gregory Schubert	Third Place
Chengjou Liao	Galvanic Metals Corrosion	Franklin Regional Senior High School/Chad Roland	Honorable Mention
Alison Crotti	Getting Stoned Off Food - Senior	South Allegheny Sr. High School/Janice Skraly	Honorable Mention
Lara Nagle	"Finding the Physical Properties of Butter, Margarine, and Oil Using DSC"	Allderdice High School/Cathy Didomenico	Honorable Mention

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

Student	Title of Project	School/Teacher	Award
Paul Puskarich	On Partitions of Test Cover Problems	Fox Chapel Area High School/Gregory Schubert	First Place
Eric Winer	A Natural Dynamic Database System	Mt. Lebanon Senior High School/Irene Duda	Second Place
Alejandro Barreto	Predicting Lime Quality using Artificial Neural Networks	Mt. Lebanon Senior High School/Irene Duda	Third Place
Steven Hall	Is What's Left Right?	Mt. Lebanon Senior High School/Irene Duda	Honorable Mention
Di Ye	Exploration of Factorization	Mt. Lebanon Senior High School/Irene Duda	Honorable Mention
Brent Fiore	Game of Fire	South Allegheny Sr. High School/Janice Skraly	Honorable Mention

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

Student	Title of Project	School/Teacher	Award
Amanda McMillan	Compost-Heated Winter Gardens	McMillan HomeSchool/Barbara McMillan	First Place
Katrina Greco	Synergistic Effect of Pollutants	St. Joseph High School/Cathy Greco	Second Place
Nathan Diorio-Toth	Decomposition of Azo Dyes With TAML Activiated Peroxide	Pittsburgh Cental Catholic High School/Mark Krotec	Third Place
Nicole Rodrigues	Effect of Algae on Acid Mine Drainage	Woodland Hills High School/John Orndorff, Jr.	Honorable Mention
Kendal Fowler	Buffers, Fertilizers and Acid Rain	Fox Chapel Area High School/Gregory Schubert	Honorable Mention
Virginia Shields	Don't drink the water	Norwin High School/John Matyasovsky	Honorable Mention

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

Student	Title of Project	School/Teacher	Award
Jennifer Cross	BRASS Phase II: Basic Robotic Air-Ship System and Communications	State College Area High School/Jack Lyke	First Place
Sean Conroy	A Novel Source of Energy: Wind-Induced Vibrations	Conroy Learning Center/Stephanie Conroy	Second Place
Mark Gordon	What? You Built a Jet Engine?	Seton LaSalle High School/Delwyn Peterson	Third Place
Jonathan Miller	Chip Off the Old Block	Cambria Heights High School/Laura Fisanick	Honorable Mention
Aunup Bhattacharyya	Thermal Contact Resistance	Franklin Regional Senior High School/Chad Roland	Honorable Mention

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

Student	Title of Project	School/Teacher	Award
Michael Mi	From Fat to Bone	Mt. Lebanon Senior High School/Irene Duda	First Place
Mrudula Kudaravalli	Fertilizers: a warrior?	Upper St. Clair High School/Jean Austin	Second Place
Benjamin Muti	Bacteria Growth on a Water Fountain	Seneca Valley Intermediate High School/Patricia Griest	Third Place

Kevin Reing	Caffeine Versus Cancer Cells	Pittsburgh Cental Catholic High School/Mark Krotec	Honorable Mention
Dionysios Kavalieratos	RNA Interference with Gene Expression	Allderdice High School/Cathy Didomenico	Honorable Mention
Stephanie Barbadora	Herbal Remedy Working in Vivo	Pine-Richland High School/Ron Schmiedel	Honorable Mention

Senior Division — Physics (Grades 9-12)

Student	Title of Project	School/Teacher	Award
Alex Lesnick	Examining Effects of Stressors Through Holographic Interferometry	Seton LaSalle High School/Delwyn Peterson	First Place
William Kirk III	Improving MAGLEV Induction	North Allegheny Intermediate High School/Anne Marklewicz	Second Place
Matthew Morelli	Propulsion Utilizing Permanent Magnets	Derry Area High School/Kimberly McWherter	Third Place
Elgin Traylor, Jr.	3-2-1 Blast Off	George Westinghouse High School/Edward Epstein	Honorable Mention
Susan Frankiewicz	Energy Efficiency and Transmission in Geared Ratio System	East Allegheny High School/James Frankiewicz	Honorable Mention
David Renner	Which Golf Ball Bounces the Longest?	Quigley Catholic High School/Janet Bonislawsky	Honorable Mention