

65th Pittsburgh Regional Science and Engineering Fair Sponsor Awards, April 2-3, 2004 – Revised 4/13/04

Sponsor Award	Student's Name	Project Title	School/Teacher
Air & Waste Management Assoc., W. PA Section	Hamza Hyder	Mercury vs. Xenopus Laevis	North Allegheny Intermediate High School/Anne Marklewicz
Air & Waste Management Assoc., W. PA Section	Kerrick Dando	Green Roof Ecology	Franklin Regional Middle School/John Blank
Alcoa	Jennifer Cross	HARP: Helicopter-based Autonomous Robotic Pilot	State College Area High School/Jack Lyke
Alcoa	Michelle Perry	There's Crayon on the Wall	St. Thomas More School/Cathy Borecky
Alcoa	Andrew Armstrong	Which Tent Stake has the best holding power?	Bethel Park High School/Barbara Eisel
Alcoa	Elianan Rabinowitz	What's in a Filter	Carson Middle School/Joe Harvey
Alcoa	Samual McHenry	Diaper Power	State Street Elementary School/Dawn Finnegan
Allegheny County Health Department	Melissa Meighan	Air Pollution: Seasonal Variation	East Allegheny High School/James Frankiewicz
Allegheny County Health Department	Jesse Mitchell	Chest Creek Water Quality	Cambria Heights High School/Laura Fisanick (HS)
Allegheny County Health Department	Jessica McMurray	Effect of Filtration on Water	Ambridge Junior High/Karen DeMarco
Allegheny County Medical Society Alliance	Katrina Ransome	Exercise vs. Asthma	George Westinghouse High School/Tom Valco
Allegheny County Medical Society Foundation	Adam Stewart	Movement Disorders	Norwin High School/Brian Nevi
Allegheny County Medical Society Foundation	Michael Mi	From Fat to Bone - Year 2	Mt. Lebanon Senior High School/Irene Duda
Allegheny Ludlum	Rebecca Levitan	The Effect of Different pH Liquids on the Rusting of Iron Nails	Frick International Studies Academy/Winifred Corr
Allegheny Ludlum	Justin Trop	Metal Mania	Carlow Campus School/Carole Wojciechowski
American Chemical	Megan Conroy	Acid Mine Drainage Remediation	Conroy Learning Center/Stephanie

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Society			Conroy
American Chemical Society	Richard Cantolina	The Effect of Temperature on Oil Viscosity	Ambridge Junior High/Karen DeMarco
American Chemical Society	Natalie Ricci	Vitamin C: Organic vs. Conventional	St. Thomas More School/Cath Borecky
American Industrial Hygiene Assoc.	Liz Piccoli	How safe are you at home from EMF?	Carson Middle School/Joe Harvey
American Nuclear Society, Pgh. Section	Lauren Whitehead	Something Ghastly in Your House?	South Allegheny Sr. High School/Janice Skraly
American Society for Quality	Mark Baldinger	Waffling For Strength	Beaver Area Middle School/Donna Nunamaker
American Society of Civil Engineers, Pgh. Section	Shailly Shah	The Effect of Road Salts on Rust	Gateway High School/Shari Morasco
American Society of Civil Engineers, Pgh. Section	Jessica McMurray	Effect of Filtration on Water	Ambridge Junior High/Karen DeMarco
American Society of Civil Engineers, Pgh. Section	Kimberly Kirk	Bridging the Gap	Carson Middle School/Patrick Niven
American Society of Highway Engineers, Pgh. Section	Nicholas Plate	Bridge the Gap	Gateway Middle School/Rob Coen
American Society of Mechanical Engineers	Chris Hruska	Does Design Affect Speed?	Pine-Richland Middle School/Kathy Deal
American Society of Mechanical Engineers	Zachary Scherer	Testing submarine shapes for the hull of it	Windmill Hill HomeSchool/Kim Scherer
American Statistical Association, Pgh. Chapter	Emily Schofield	The Impact of Questions' Phrasing	Shadyside Academy/Kathy Malone
ASM International, Pittsburgh Golden Triangle Chapter	Abhiram Bhashyam	Effects of Sulfonation on a Sulfonated PolyEther Ketone (PEEK) Membrane used in a Fuel Cell	Bethel Park High School/Barbara Eisel
Association for Bridge Construction & Design	Allen Grimm	Surface Area vs. Friction	Beaver Area High School/Patti Jo Wargo

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Bayer Corporation	Valérie Michael	The Effect of the pH of Water on the Photosynthesis of an Aquatic Plant	Frick International Studies Academy/Winifred Corr
Bayer Corporation	Richard Kerecman	Chemical Photoelectric Energy	Cambria Heights Middle School/Laura Fisanick
Bechtel Bettis, Inc.	Joey Afflerbach	Why Don't We Drive Solar Cars?	Economy Elementary/Sandy Stupar
Carnegie Mellon Univ. Chapter of Sigma XI	Munia Islam	Cytotoxic & synergistic effects of LSA-5 & Ampicillin	Fox Chapel Area High School/Gregory Schubert
Carnegie Mellon University, Dept. of Materials Science & Engineering	William C. Kirk III	Electromagnetic Launch System	North Allegheny Intermediate High School/Anne Marklewicz
Chemical Association of Pittsburgh	Ashley Waldbaum	It's Crystal Clear	South Allegheny Sr. High School/Janice Skraly
Chemical Association of Pittsburgh	Daile Flurry	MtBE and TAML Reaction Byproduct	Schenley High School/Charlotte Atwood
Chester Engineers	Nick Hritz	How Can We Control Erosion?	St. Elizabeth Elementary School/Bruce Kolosvary
Continental Design and Management Group	Megan Dewitt	Suited for Space	Gateway Middle School/Rob Coen
Cummings Riter Consultants, Inc.	Peter Rodrigues	Effect of Sed. on Photosyn.	St. Maurice School/Angelo Lamanti
Dental Society of Western Pennsylvania	Christopher Gerber	Antibacterial Dentifrice	Serra Catholic High School/Kathy Warcup
Dominion	Nicholas Pityk	Once Upon a Reservoir	St. Joseph High School/Cathy Greco
Dominion	Jesse Mitchell	Chest Creek Water Quality	Cambria Heights High School/Laura Fisanick (HS)
Duquesne University, Dept. of Biological Sciences	Peter Rodrigues	Effect of Sed. on Photosyn.	St. Maurice School/Angelo Lamanti
Duquesne University, Dept. of Biological Sciences	Heather Endler	Bait Selection in Blowflies	Seneca Valley Intermediate High School/Patti Griest

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Sciences			
Duquesne University, Dept. of Biological Sciences	Matthew Conrad	Tainted Justice	Cambria Heights Middle School/Laura Fisanick
Emerson Process Management, Power and Water Solutions	Sara Barna	A Dilemma: Silver vs. White Fillings	St. Thomas More School/Cathy Borecky
Emerson Process Management, Power and Water Solutions	Jennifer Cross	HARP: Helicopter-based Autonomous Robotic Pilot	State College Area High School/Jack Lyke
FedEx Ground, Inc.	Jennifer Cross	HARP: Helicopter-based Autonomous Robotic Pilot	State College Area High School/Jack Lyke
FedEx Ground, Inc.	Shailly Shah	The Effect of Road Salts on Rust	Gateway High School/Shari Morasco
Innovation Works	Benjamin Cence	Wind: Energy of the Future	Cambria Heights Middle School/Laura Fisanick
Institute of Electrical & Electronics Engineers, Inc.	Albert Sheu	Coding/Analysis of Steganography	Franklin Regional Senior High School/James Passarelli
Institute of Electrical & Electronics Engineers, Inc.	Anthony Mele	Magnets on the Move	Gateway Middle School/Eric Oddo
LabChem, Inc.	Megan Conroy	Acid Mine Drainage Remediation	Conroy Learning Center/Stephanie Conroy
Mascaro Construction Company, L.P.	Arindam Ghosh	Analysis of an Antioxidant	Franklin Regional Senior High School/James Passarelli
Michael Baker Corporation	Jennifer Cross	HARP: Helicopter-based Autonomous Robotic Pilot	State College Area High School/Jack Lyke
Michael Baker Corporation	Nick Hritz	How Can We Control Erosion?	St. Elizabeth Elementary School/Bruce Kolosvary
Mine Safety Appliances Co. Charitable Foundation	Alex Tylka	Fire Resistant Material	St. Thomas More School/Cathy Borecky
Mine Safety Appliances Co. Charitable Foundation	Elianan Rabinowitz	What's in a Filter	Carson Middle School/Joe Harvey

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National Assoc of Corrosion Engineers, Pgh Section	Alex Fattore	Effect of Acid Rain on Iron	Beaver Area Middle School/Donna Nunamaker
National Electrical Contractors Association	Gray Horwitz	Effects of UV Light on Power Lines	Schenley High School/Mark Murphy
National Electrical Contractors Association	Allison Shearer	How Does An Electromagnet Work?	Economy Elementary/Sandy Stupar
National Institute of Occupational Safety and Health	Jessica McMurray	Effect of Filtration on Water	Ambridge Junior High/Karen DeMarco
Pittsburgh Digital Greenhouse	Geza I. Erdos	Exploring Nanotechnology	North Allegheny Senior High School/Karl Kennedy
Pittsburgh Geological Society	Samantha Nardone	Concentrated Crystallization	Beaver Area Middle School/Donna Nunamaker
Pittsburgh Geological Society	Mariah Kehoe	The Mighty Ice Crystal	Economy Elementary/Sandy Stupar
Pittsburgh Geological Society	Ashley Waldbaum	It's Crystal Clear	South Allegheny Sr. High School/Janice Skraly
Pittsburgh Life Sciences Greenhouse	Catherine Kane	Is Your Reed a Hazard?	Cambria Heights Middle School/Laura Fisanick
Pittsburgh Life Sciences Greenhouse	Emily Pantalone	Does the price of handsanitizer affect quality?	Carlow Campus School/Carole Wojciechowski
Pittsburgh Section of the American Association for Clinical Chemistry	Marissa Pfoff	A Model for Warfarin Dosing	Our Lady of the Sacred Heart High School/Michael Schuster
Pittsburgh Section of the American Association for Clinical Chemistry	Erin Green	Microbes in Your Meat	Norwin High School/Brian Nevi
Pittsburgh Society for Coatings Technology	Annie Rago	Weather's Effect on Painted Surfaces	Carlow Campus School/Carole Wojciechowski
Pittsburgh Society for Coatings Technology	Jenna Boyles	Paints of the Past/Present: Creating a Lasting Work of Art	Frazier Middle School/Donna Clark

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Pittsburgh Technology Council	Eric Winer	Hierarchies in a Relational DB	Mt. Lebanon Senior High School/Irene Duda
Pittsburgh Technology Council	Peter Lynch	Assay of Immobilized BMP-2	Pittsburgh Cental Catholic High School/Mark Krotec
Pittsburgh Technology Council	Sarah Wattick	Influence of Glucose & Insulin	St. Thomas More School/Cathy Borecky
PPG Industries, Inc.	Abhiram Bhashyam	Effects of Sulfonation on a Sulfonated PolyEther Ketone (PEEK) Membrane used in a Fuel Cell	Bethel Park High School/Barbara Eisel
PPG Industries, Inc.	Megan Conroy	Acid Mine Drainage Remediation	Conroy Learning Center/Stephanie Conroy
PPG Industries, Inc.	Lauren Pascucci	The Effect of Solubility on Vitamins	Ambridge Junior High/Karen DeMarco
PPG Industries, Inc.	Kerra Doyle	The Chemistry of Sunscreen	Serra Catholic High School/Kathy Warcup
Princeton Alumni Association of W. PA	Hamza Hyder	Mercury vs. Xenopus Laevis	North Allegheny Intermediate High School/Anne Marklewicz
Robert Morris University (Sponsor)	Phylicia Swain	The Effects of Ethylene via Cigarettes on the Development of Pea Seedlings	George Westinghouse High School/Shirley York
Robert Morris University (Sponsor)	Ken Johnson	The Light in the Cloud	South Allegheny Sr. High School/Janice Skraly
Seagate	Alyssa Cosnek	Sounds of Silence	Hopewell Memorial Jr. High School/Paula Cosnek
Seagate	Srihari Seshadri	Evaluating Computer Algorithms	Franklin Regional Middle School/John Blank
Shaw Environmental & Infrastructure	Lauren Hickey	Striving For Stronger Supports	Beaver Area High School/Patti Jo Wargo
Siemens Westinghouse Power Corporation	Abhiram Bhashyam	Effects of Sulfonation on a Sulfonated PolyEther Ketone (PEEK) Membrane used in a Fuel Cell	Bethel Park High School/Barbara Eisel
Society for Analytical Chemists of Pittsburgh	Natalie Ricci	Vitamin C: Organic vs. Conventional	St. Thomas More School/Cathy Borecky

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Society for Analytical Chemists of Pittsburgh	Valérie Michael	The Effect of the pH of Water on the Photosynthesis of an Aquatic Plant	Frick International Studies Academy/Winifred Corr
Society for Analytical Chemists of Pittsburgh	Praveen Tummalapalli	Iron Optimization	Dorseyville Middle School/Kathy Orient
Society for Analytical Chemists of Pittsburgh	Regina M. Gibson	Green Chemistry -- Fe Catalysis	Fox Chapel Area High School/Gregory Schubert
Society for Analytical Chemists of Pittsburgh	Karen Vaughn	Oxygen Concentration vs. Reaction Rate with Sulfite	Bethel Park High School/Barbara Eisel
Society for Analytical Chemists of Pittsburgh	Daile Flurry	MtBE and TAML Reaction Byproduct	Schenley High School/Charlotte Atwood
Society for Analytical Chemists of Pittsburgh	Di Ye	Carbon Sequestration by Bauxite Residue	Mt. Lebanon Senior High School/Irene Duda
Society for Analytical Chemists of Pittsburgh	Josh Grill	How Low Can You Go?	Community Day School/Art Dickter
Society for Mining, Metallurgy & Exploration	Tyrella Travis	Acid Mine Drainage	Prospect Middle School/Tripta Goyal
Society of American Military Engineers	Erin Gray	What's Shakin?	Upper St. Clair High School/Jean Austin
Society of Petroleum Engineers, Pittsburgh Section	Ben Isco	Melt Away	Ingomar Middle School/John Ashoff
Society of Women Engineers	Jennifer Cross	HARP: Helicopter-based Autonomous Robotic Pilot	State College Area High School/Jack Lyke
Society of Women Engineers	Victoria Neeley	Un-enforcing I-Beams	Beaver Area Middle School/Donna Nunamaker
Spectroscopy Society of Pittsburgh	Jessica Chang	Isolation of DNA	Mother of Sorrows School/Jackie Alcorn
Spectroscopy Society of Pittsburgh	Priyanka Ghosh	How Good is Your Sunglass?	Franklin Regional Middle School/John Blank
Spectroscopy Society of Pittsburgh	Clare Barkowski	Overcoming Color Blindness	Mary, Queen of the Apostle/Cathy Greco (Mary, Queen of the Apostle)

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Spectroscopy Society of Pittsburgh	Gray Horwitz	Effects of UV Light on Power Lines	Schenley High School/Mark Murphy
Spectroscopy Society of Pittsburgh	Arindam Ghosh	Analysis of an Antioxidant	Franklin Regional Senior High School/James Passarelli
Sunoco Chemicals	Adam McCann	Viscosity vs. Molecular Structure	North Catholic High School/Stephen Hiner
Sunoco Chemicals	David Snyder	Static Friction of Metals	Fox Chapel Area High School/Gregory Schubert
The Art Institute of Pittsburgh	Megan Conroy	Acid Mine Drainage Remediation	Conroy Learning Center/Stephanie Conroy
The Art Institute of Pittsburgh	Ben Burns	Acid Mine Drainage at Wingfield Pines	Upper St. Clair High School/Jean Austin
The Aviation Foundation	Zachary Scherer	Testing submarine shapes for the hull of it	Windmill Hill HomeSchool/Kim Scherer
The Webb Law Firm	Steve Hood	Magnetic and Air Lock Brakes	Ingomar Middle School/John Ashoff
Tobacco Free Allegheny	Intisar Ismaeli	The effect of nicotine on the back mutation rate of E. coli	George Westinghouse High School/Shirley York
United States Steel	Megan Conroy	Acid Mine Drainage Remediation	Conroy Learning Center/Stephanie Conroy
United States Steel	Shailly Shah	The Effect of Road Salts on Rust	Gateway High School/Shari Morasco
University of Pittsburgh, Dept. of Freshman Engineering	Bryan Woodfork	Effectiveness of Simple Machines	Prospect Middle School/Tripta Goyal
University of Pittsburgh, Dept. of Freshman Engineering	Bethany Podnar	Can You Hear Me Now?	Rhema Christian School/Bonnie Cavallo
University of Pittsburgh, Dept. of Neuroscience	Brittney Miliner	The Effect of Subliminal Messages on Memory	Ambridge Junior High/Holly Fritz

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Westinghouse Electric Company	Jennifer Cross	HARP: Helicopter-based Autonomous Robotic Pilot	State College Area High School/Jack Lyke
Westinghouse Electric Company	Benjamin Cence	Wind: Energy of the Future	Cambria Heights Middle School/Laura Fisanick
Wheelabrator Air Pollution Control	Melissa Meighan	Air Pollution: Seasonal Variation	East Allegheny High School/James Frankiewicz