

Second Place Winners Fairfax County Regional Science and Engineering Fair

March 30, 2008

Animal Sciences

Color Nectar Attraction of Bees	Thomas Kemper	Hayfield Secondary
Movement Patterns of a Termite and Symbiote	Vivek A. Ashok	Langley High School
The Effect of Temperature on Fertility Rates in TW	Binta S. Jammeh, Asha M. Noor	Stuart High School
The Effect of Acidic Dilutions on Eisenia fetida	Hasan I. Ali, Kobie C. Gordon	South County Secondary School

Behavioral and Social Sciences

Effect of Substances on Daphnia Heart Rate	Devika Pateriya	Chantilly High School
The Effect of Cell Phone Use on Depth Perception	Avi Golub	West Springfield High School
Effect of Video Games on Eye-Hand Coordination	Gregory D. Forrester, Justin V. Rexroad	Madison High School

Biochemistry

The Effect of Iron on the Growth of Derbesia	Yong Yi Wu	Stuart High School
Bleach on the Denaturization of Proteins	Wardah Ansari, Mary B. Schafer	South County Secondary School

Chemistry

Popcorn Brands on Number of Kernals Popped	Claudia Acha Delgadillo	Hayfield Secondary
The Effect of Solvents on Chromatography	Stefanie Feldman	Chantilly High School
pHun in the Tub	Jackie L. Fitzella	Madison High School
The Effect of Acidity on Oxidation Apples	Elizabeth M. Denny	Lake Braddock Secondary School
Do Polycarbonate Baby Bottles Release Bisphenol A?	John M. Gillen	Fairfax High School
Fuel Cell: Mechanism to Generate Electricity	Takuma Koide	Langley High School
Electrokinetic Remediation of Cu+2 Ions in Sand	Mishail L. Tupas	Oakton High School
Concentration of Vitamin D in Milk	Victoria Wang	Woodson High School
Lipstick.....Harmful?!!	Aysha E. Abdallah	Islamic Saudi Academy
Affects on Catalase Activity	Annalise Schoonmaker	West Springfield High School
The Effect of Different Acids on Aspirin Quality	Allison Leninger	South County Secondary School
Analyzing Polymer Films Using NMR	Samantha G. Keyser	Thomas Jefferson H S for Science and Technology
Salt on the Boiling Point of Antifreeze	Ryan M. Do, Stefan E. Fekeci	South County Secondary School
The Effect of Filter Type on Water Filtration	Megan Shin, Zer Hui Tan	Westfield High School
The Effect of Washing on Fabric Flammability	Will J. Datta, Daniel K. Krizay, Matthew H. Oh	Westfield High School
Effect of Filtration Methods on Chlorine Removal	Kara Heisey, Tasneem R. Khan	South County Secondary School

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The Amount of Lead in Certain Popular Toys	Wade M. Angeli, Lana J. Hoang, Priscilla Lin	Westfield High School
Effect of Different Brands of Toothpaste & Whiten	Kelly Gross, Brunson Mikala, Jessica Mussman	Hayfield Secondary
Testing the Accuracy of Different pH Indicators	Susan Al-Suqi, Hope Stadulis	Annandale High School
Neutralizing Effects of Metal Carbonates on Acids	Amrita K. Singh, Lee T. Teng, Jeena Thomas	Centreville High School
Popcorn Brands on Number of Kernals Popped	Claudia Acha Delgadillo	Hayfield Secondary

Computer Science

Calculating Fractal Dimension from Vector Images	Kelly A. Ran	Thomas Jefferson H S for Science and Technology
Raising the Placement of Keywords in Google Search	Jason Hallameyer, Deepu Nair	Annandale High School

Engineering: Materials and Bioengineering

Which Bridge Would You Cross?	Erin N. Crow	Lake Braddock Secondary School
Effect of Insulating Materials on Heat Loss	Jenny Alt	Chantilly High School
Effect of Antenna Modifications on EMF	Christopher Buck	Chantilly High School
Knit Two Together	Stephanie A. Charney, Chloe Sevilla	Fairfax High School
What Structure Protects the Egg the Best?	Megan M. Lopez, Victoria Trayers	Lee High School
Effect of Compounds on the Strength of Fabrics	Pritika Ramesh, Surabhi Swarup	Chantilly High School
Sound Intensity Effects of Endpin Anchor Materials	Mary R. Myers, Anne Williams	Woodson High School
Sugar Concentration and Light Refraction	Evan Smallwood, Haley Smith	Westfield High School

Engineering: Electrical and Mechanical

Wing Airfoils and Angle of Attack on Lift	Edwin Manson	McLean High School
Water Flow Over Solar Panel Under Focused Sunlight	Russell Ruud	West Springfield High School
Effect of Rocket Nose Cones on Altitude	John M. LaBelle	Langley High School
The Bright Driver: Automotive Light Dim Innovation	Keith Thomas	Langley High School
A High Speed Race: Wireless Style	Henry Helmes, Kevin Lee, David Raffman	Langley High School
The Effect of Pressure on Common Dam Designs	Lani Furbank, Margaret Hardy, Sasha Post	Woodson High School
Turning Waste Heat into Extra Mileage	Aaron N. Buzek, San Kilkis	Madison High School
Calculating Acceleration in 3 Dimensions in Space	David Goldberg, Kevin K. Mohan	Westfield High School

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Energy and Transportation

Methane Production During Anaerobic Digestion	Michael McCluskey	Woodson High School
Effect of Shape and Angle of Attack on Airflow	Carson Romine	Chantilly High School
Dual Heat-Transfer Fluids in a Solar Collector	Christopher A. Peterkin	Oakton High School
Why Do School Buses Have No Seatbelts?	Andrew M. Higgins	Lee High School
The Placement of Shield Surrounding Propellar	Michelle C. Halsted	South County Secondary School
Methods of Collecting Energy From Walking	Blake L Garfinkle	Langley High School
Do Different Brand Lightbulbs Emit Same Lumens?	David G. Nicoll, Ian J. Schumacher	Fairfax High School
Efficiency of Ethanol Fuel versus Gasoline	An Hong Huynh, Young Joon M. Kim, Jackson Walters	Fairfax High School
The Effect of Wing Shape on Lift Generated	Jack M. Bechert, Scott C. Mattocks	Fairfax High School
Effect of Different Oils on Biodiesel Purity	Mariya Ilyas, Frederic B. Klein	West Potomac High School
Which Type of Wood Produces the Most Energy?	Kenley D. Carter, Sathya N. Mathavan	Fairfax High School

Environmental Analysis

The Effect of Slope on Forest Fire Burn Rates	Hanna Goldberg	Woodson High School
Water Polymer Surface Area on Water Absorption	Cindy Choi, Areen Hosein	Lake Braddock Secondary School

Environmental Management

The Effect of Riparian Buffers on Difficult Run	Emma E. Weil	Oakton High School
Effect of Increased Temperature on Brine Shrimp	Aditi Srivastava	Chantilly High School
Use of Pesticides on Microbial Activity in Soil	Michael J. Shallcross	Oakton High School
Urban Heat Islands	Emily Eastlake	Hayfield Secondary
Bioremediation of an Oil Spill	Brandon W Grilli	Centreville High School

Mathematical Sciences

BCS Formula Biased by the Use of Human Poll?	Jimmy J. Sanders	Westfield High School
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Medicine and Health

The Effect of Age and Gender on Hearing Ranges	Noah Gavurin	Madison High School
Rinse and Spit	Katherine Bannon	Centreville High School
The Effect of Acne Products on Bacterial Growth	Tyler W. Barnes	Westfield High School
Predicting the Effect of SNPs on Human Phenotype	Elizabeth Dobrenz	Madison High School
Chitosan Substitutue for Antibacterials	Bong K. Choi, Michael Hyon	Centreville High School
The Neutralization Capacity of Antacids	Abraham Kazemi, Amie Raymann	South County Secondary School

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Microbiology

The Effect of Disinfectants on E.coli	Caroline Chen	Westfield High School
Effect of Cooking Time on Amount of Bacteria	Leslie Rea	Mount Vernon High School

Physics and Astronomy

Effect of Light Distance on an Object's Shadow	Nadya Sidki	Langley High School
Magnetic Shielding	Matthew J. Reihing	Fairfax High School
The Effect of Volume Level of iPod on Hearing Loss	Stephan D. Jordan	Oakton High School
Effect of Sugar Concentration on Refraction Index	Anish Kumar Simhal	Robinson Secondary
Effect of Shark Skin on the Drag of a Boat	Bennett Salmon	Centreville High School
Predicting Resonant Frequency	Patrick A. Reed	Madison High School
Air Flow Rate in a Bubble Curtain	Daniel A. Sonnenmark	Mount Vernon High School
Analysis of Fundamental and 1st Overtone Cepheids	Sarah D. Benjamin	Thomas Jefferson H S for Science and Technology
The Accuracy of Spherical Projectiles	Alexander P. Johnson	Fairfax High School
NaCl Concentration vs. Index of Refraction	Virag Patel, Arun Sapkota	South County Secondary School
Barrel Size Effects Muzzle Velocity in Spud Guns	Wes Bishop, Cameron Burton	Woodson High School
Faraday's Law of Induction	Tyler N. Nguyen, Wattana Savanh, Ryan F. Schaedel	Annandale High School
Finish vs. Wind	Varun George, Eric Rehe	West Potomac High School
Rebounding of Soccer Balls on Different Fields	Milgo A. Yonis, Samatar A. Yonis	Robinson Secondary
Tending Toward Chaos	Betsy A. Khol, Curtis A. Khol	Madison High School
Price Range's Effect on Base Overtone Dominance	Daniel J. Chung, Eileen M. Halpin, Christophe D. Lejune	Robinson Secondary
Tribology of Wood Surfaces	Mathew S. Barkan, Jordan T. Pennock, William G. Wacker	South Lakes High School

Plant Sciences

The Effect of Vitamins on Plant Characteristics	Kristina K. Hosi	South Lakes High School
The Effect of Soil Acidity on Plant Germination	Jenna Bugge	Langley High School
The Effect of Gravity on the Growth of Plants	Shaun Toor	Fairfax High School
The Effect of Compost Mediums on Plant Growth	Elaine Beaver	Langley High School
Effect of NAA on Anacharis Photosynthetic Rate	Priyali J. Patel	Mount Vernon High School
The Effect of Crickets on Venus Flytrap's Health	Holly N Howard, Bekah Watkins	Fairfax High School
Effect of Bacteria and Fertilizer on Alfalfa	Hye-Lim Winkler, Hye-Ri Winkler	Mount Vernon High School
The Effect of UV Rays on the Growth of Pinto Beans	Minjung J. Cha, Eunice S. Seo	Westfield High School
The Effect of H ₂ SO ₄ on the Growth of Plants	Reem A. Hashim, Mariam Yaktieen	Lee High School
Effect of Sodium Chloride on the Growth of Plants	Sarah Mendelsohn, Jane Yurechko	Langley High School