

# Honorable Mention Winners Fairfax County Regional Science and Engineering Fair

March 30, 2008

## Animal Sciences

Effect of Aloe on Regeneration Rate of Planarians	<b>Alexander A. Weinberg</b>	Mount Vernon High School
Effect of Nicotine on Heart Rate of Daphnia	<b>Maggie Chaing</b>	Mount Vernon High School
Is Organic Milk Better?	<b>Maureen Reed</b>	Madison High School
Effect of Zinc Sulfate, Lead Nitrate & Copper	<b>Ryan M. Izzeldin</b>	Stuart High School
The Effect of Caffeine as a Cricket Pesticide	<b>Ryan Mavity, Sergio Sanchez</b>	Woodson High School

## Biochemistry

Effect of Detergent Type on Spilled Oil Dispersion	<b>Vasiliki A. Dimopoulos</b>	Lake Braddock Secondary School
Effect of Water Exposure on Size of Popped Popcorn	<b>Brendan Mullen</b>	Langley High School
The Effect of Citric Acid on Cheese Yield	<b>Andrew W. Lankeau</b>	Oakton High School
Effect of Juice on Yeast Fermentation	<b>Ngoc T. Duong</b>	Chantilly High School
The Effect of Preservatives on Apples	<b>Chaitanya V. Peddi</b>	Westfield High School
Effect of Bittermelon and Raspberry on Glucose	<b>Mai S. Abdel-Ghani</b>	Marshall High School
Effect of Nutrients on Fermentation Rate of Yeast	<b>Lauren T. Schaeffer</b>	Fairfax High School
Effect of Deterioration on Tooth-Like Surfaces	<b>Chadwick Eason</b>	Mount Vernon High School
Which Acid Keeps Apples and Bananas Fresh Longer?	<b>Senayt D. Alemu, Ethiopia Y. Gultneh, Edlawit E. Tessema</b>	Lee High School
Apples and the Oxidation Process	<b>Denise Nguyen, Hedy Sultani</b>	South Lakes High School
The Effect of Different Plastic Bags on Osmosis	<b>Ivanna Javid, Rachael H. Lee, VyVy Truong</b>	Westfield High School
Household Liquids on Onion Cell Shape	<b>Claudia Arevalo, Samantha Romano, Bewketu Tamir</b>	Annandale High School
Enzyme Detergents on the Removal of Ketchup	<b>Alexis Kwamin, Taylor Reed</b>	Hayfield Secondary
Finding the Amount of CO <sub>2</sub> Produced in Fermentation	<b>Alexander J. Hilert, Jeffery J. Weiss</b>	Robinson Secondary
Acid Production of S. Mutans	<b>Agnes D. Cororaton, Yaerin Heo</b>	Marshall High School
The Effect of Color and Turbidity on Antioxidants	<b>Courtney E. Bullock, Abena S. Opoku</b>	Stuart High School

## Cellular and Molecular Biology

Effect of Water Temperature on DNA Extraction	<b>Erin Swarhout</b>	Chantilly High School
Effect of Concentration on pH Reaction of Liver	<b>Tricia Galvez</b>	Mount Vernon High School
The Effect of Common Materials on Bacteria	<b>Yoonji Ha, Ellen Pederson</b>	West Potomac High School

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## Chemistry

The Effect of Sulfuric Acid on Limestone	Gurpreet Bedi, Ankita Dosaj	Robinson Secondary
Electrolysis	Brian C. Lynch, Ashif M. Nawab, Douglas K. Pudliener	Lee High School
Effectiveness of Everyday Products on Carpet Stain	Kellie Del Signore, Anna Lynch	Annandale High School

## Computer Science

The Effect of Size on Accuracy of BBN Graphs	Patrick C. Marlow	Oakton High School
The Effect of RAM on the Speed of a Computer	Ugar Bulut	South Lakes High School
Benchmarking C++ and Java	Lloyd N. Ramey	Oakton High School

## Engineering: Materials and Bioengineering

Maximizing the Energy of a Car Bumper	Matthew R. Fuqua	West Potomac High School
How to Make Buildings Not Fall Down	Eric Anderson, Robert V. Fischer	Robinson Secondary
Effect of Environment on CD/DVDs	Matthew Cumpian, Vinay Dandekar	Chantilly High School

## Engineering: Electrical and Mechanical

Which Bridge Design Can Hold the Most Mass?	Justin M. Goyette	Madison High School
Effect of Angle of Attack on Lift of Airfoils	Michael Donovan	Centreville High School
Keeping the Sound Out	Michael Lazar	Annandale High School
Automated Cooling Fan	Younhee Choi	Centreville High School
The Point of a Parabola	George Kontridze	Marshall High School

## Energy and Transportation

The Effect of Boat Hull Shape on Boat Speed	Jonathan Jeon, Kevin Ngo	Madison High School
Effect of Catapult Design on Performance	David Bertoglio, Michelle Tran	Centreville High School

## Mathematical Sciences

Mathematical Genres of Music Patterns	Jennifer Windau	Hayfield Secondary
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## Medicine and Health

Dissolution Rate of Over-the-Counter Medications	Eunice T'chawi	Annandale High School
The Effect of Sunscreen on UV Absorption	Madeline R. Moravitz, Ann C. Schindler	South Lakes High School
The Effect of Hair Product on Frizz	Mary Eveleigh, Emily Tong	McLean High School

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## Microbiology

Testing the 10 Second Rule	<b>Mathilda Shepard, Annie Yang</b>	McLean High School
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## Physics and Astronomy

Effect of Shape/Orientation on Magnetic Shielding	<b>Tyler P. Buczek</b>	Oakton High School
Effect of Light Color on Brightness in Fog	<b>Kevin Nguyen</b>	Chantilly High School
The Effect of Temperature on Viscosity of Liquids	<b>Gregory E. Smith</b>	Madison High School
Environmentally Friendly Batteries	<b>Rijul V. Mandlekar</b>	Marshall High School
Caustic Light Catastrophes	<b>Olga Korostelina</b>	Woodson High School
Optimal Parameters for Windmill Design	<b>Chirag Uttamsingh</b>	Madison High School
Measuring the Magnetic Field of a Straight Wire	<b>Amanda Willis</b>	West Potomac High School
The Effect of Mass on Rate of Falling Objects	<b>Teaghan P. Grayson, Daniel C. Sands</b>	Lake Braddock Secondary School
The Effect of Temperature on Magnets	<b>Ricky Herrmann, Hibah K. Qudsi</b>	South County Secondary School
Temperature's Effect on Discharge Rate of Battery	<b>Eliot A. Gehley, Adam M. Lichtman</b>	Marshall High School
Velocity vs. Incline Plane Height	<b>Mariam N. Awad, Allison M. Whitlock</b>	South Lakes High School
Effect of Velocity on Centripetal Force	<b>Katherine Intaraamnuay, Annika Jessen, Claire McLeland</b>	Annandale High School
Effect of Stoves on Energy and Time on Temperature	<b>Nicole T. Goitia, Corinne R. Moini</b>	Marshall High School
The Effect of Surface Area on Friction	<b>Timothy J. Higgins, Chris Kichinko, Nick R. Taillon</b>	South County Secondary School

## Plant Sciences

The Effect of Silver Ions on Plant Lifespan	<b>Shani L. Levit</b>	Lake Braddock Secondary School
The Effects of Types of Grass on Durability	<b>Eduardo Albright</b>	Annandale High School
The Effect of Acid Rain on Plants	<b>Mollie A. Driesbach</b>	Falls Church High School
Welcome to the Jungle	<b>Kang S. Kim</b>	Centreville High School
The Effect of Salicylic Acid on Bean Plant Growth	<b>Philip S. Beisel</b>	South County Secondary School
Leaf Psychics	<b>Matthew T. Murray, William G. Murray, Christopher M. Peltier</b>	Centreville High School
Effect of pH on Growth of Hydrilla	<b>Colin Amerau, Andrew Sable</b>	Mount Vernon High School