

Honorable Mention Place Winners Fairfax County Regional Science and Engineering Fair

March 29, 2009

Animal Sciences

How Do Female Betta Splendens React to Color?	Carolyn Iwicki	Lee High School
Fertilizer Preference of Eisenia fetida	Brian P. Heilbronner	Hayfield Secondary
The Effect of Different Fragrances in Ants	Sergio N. Bonilla Cortes	Fairfax High School
The Effect of Diet on Strength of Bombyx Mori Silk	Carina A. Gutjahr	Stuart High School
Effect of MSG on Mealworm Growth and Behavior	Kevin R. Chen, Kevin W. Sun	Oakton High School
Effect of Various Liquids on Daphnia Heart Rate	Devin J. Goyal, Kush K. Patel	South County Secondary School
Effect of Crude Protein on Danio Renrio Growth	Richard M. Fesseden, Connor M. Jarrendt, Andrew J. Monick	Robinson Secondary
Effect of Colored Light on Planarium Growth	Charles J. Aftergut, William J. Bennett	Annandale High School

Behavioral and Social Sciences

Effect of Colored Ink on Memorization Ability	Steffanie Choi, Dawn Kang	Centreville High School
The Truth and Lies of CSI	Brittany Glenn, Melissa Khashei, Elizabeth Masgarha	McLean High School

Biochemistry

The Effect of Different Brands of Bags on Fruit	Claire B. Campbell	Hayfield Secondary
Effect of Water Temp on Nitrates and Phosphates	Jessica Kadle	Mount Vernon High School
Effect of Frizz Control Products on Hair Porosity	Stephanie G. Johnson, Simay Okyay, Alicia M. Pettis	Robinson Secondary

Chemistry

Effect of CuSO ₄ Concentration on Crystal Growth	Michaela K Wolf	South Lakes High School
Eat It Now or Scurvy Later	James A. Bonaffini	Paul VI High School
Effect of Temperature on Aluminum Corrosion Rate	Corinthia D. Evans	Mount Vernon High School
Best Method of Enzymatic Browning	Reema Kaur Singh	South County Secondary School
The Effect of Temperature Motor Oil Viscosity	Jessica S. Roffenbender	Robinson Secondary
The Effect of Antacids on the Buffering of Acid	Evan M. Huffman, Thomas M. von Kolnitz	Hayfield Secondary
The Effect of Food Dye on Freezing Point	Justin Chan, Natalie R. Ocel, Lauren Satyshur	Herndon High School
Effect of Foods on the Neutralization of Acid	Chandler Freelander, Amani Mansour, Jessica Pate	South County Secondary School

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Computer Science

Effects of Time on Lego Robots Samuel A. Takele Annandale High School

Earth and Planetary Science

Measuring Bearing Capacity of Different Soils Catherine M. Barron Westfield High School
Moon Brightness and Surface Area Observed Abigail C. Clarke Woodson High School

Engineering: Materials and Bioengineering

Analysis of Geodesic Domes David Kilpatrick Centreville High School
Effect of Roof Type on House Temperature Corinne Cardinal Chantilly High School
Effect of Thickness on Insulation Josue Angulo, Carl Lacap Lee High School
Skirt Tension on the Mobility of a Hovercraft Adam E. Hueneman, Delwyn Clyde Molina, Anthony J. Young Annandale High School

Engineering: Electrical and Mechanical

Blade Number on Amount of Electricity Produced Ali Nadri Chantilly High School
The Effect of Frequency on Sound Absorption Osman G. Aijazi South Lakes High School
Where's the Wind? Jordan Poffenberger Falls Church High School
Which Battery Works Best Abdulrhman I. Elamin Islamic Saudi Academy
Where Did All the Wings Go? Richard D. Maku Annandale High School
Cool Junctions Sumedh Ambardar Langley High School
Effect of Rvalue on Economical Use of Living Space Robert P. Barbu Robinson Secondary
Oar Blade Designs: Investigating the Central Ridge Zeynep Arslan McLean High School
Evaluating Speaker Performance of Diverse Sounds Emily F. Clarke Woodson High School
The Effect of Center of Mass on Projectile Motion Derek L. Lukaczyk Fairfax High School
Designing the Ultimate Frisbee Anthony M. Charles McLean High School
The Effect of Wind Pressure Produced Mohammad Ali Marshall High School
Mirror Mirror on the Wall Abigail Cheek, Wendy Gutcher, Cynthia Rinehart South County Secondary School
The Solar House David Clark, David M. Monroe, Thomas J. Swengros Lee High School

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Energy and Transportation

Solar vs Wind Energy: Which is More Efficient?	Matthew Chambers	Woodson High School
Effect of Ethanol Percentage on Fuel Efficiency	Rebecca K. Whitworth	Mount Vernon High School
Effect of Biodiesel vs Gas in US Small Engines	Benjamin E. Hammond, Thomas G. Hammond, Mariya Ilyas	West Potomac High School

Environmental Analysis

The Effect of CO2 on Global Warming	Min Ji Koo	Lake Braddock Secondary School
A Study of E.coli in Cub Run	Jacqueline K. Falatko Olivia N. Ait-Bella, Jessica R. Lawson, Amanda K. Sullivan	Westfield High School
Are Buffer Zones Effective?		Herndon High School

Environmental Management

The Effect of Varying Sorbents on Water Quality	Connor J. Turley	Oakton High School
Green Roofs: Effect on Home Insulation Value	Abby H. Schneider	Marshall High School
Effect of Different Adhesion Types on Sand Erosion	Jessica A. MacDonald, Winifred B. McBride, Macara M. Oshida	Woodson High School

Medicine and Health

Rub vs. No-Rub-Cleaning Contacts Over Time	Ryan J. McManus	Hayfield Secondary
Illuminating Arteries by Dissolving Plaque	Evelyn Masterson	Lee High School
Viva La Vida	Hyun Jin (Jamie) Choi, Melinda E. Mercado	Woodson High School
Effect of Microwaves on Nutrients in Food	Megan Gleason, Raveena Kaur, Victoria Murray	Lee High School

Microbiology

Which Antibiotic is Most Effective Against E. coli	Ashley Potts, Pallavi Saini	Centreville High School
The Effect of Magnets on the Regrowth of Flatworm	Emily L. Fruchterman, Thong D. Tran	Annandale High School

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Physics and Astronomy

Effect of String Length on Pendulum Period	Sarah-Marie Wood	Mount Vernon High School
Relationship Between Vanegraff Size and Charge?	Tahsin Chowdhury	Marshall High School
The Flux of Cosmic Rays	Kevin H Lee	McLean High School
Effect of Air Density and Rain on Baseball Travel	Laura A. Wolff	Madison High School
The Effect of String Type on the Sound of a Violin	Kyana Afshar	McLean High School
Inner K Shell Signatures of Iron In Warm Absorbers	Christopher T. Olund	Thomas Jefferson H S for Science and Technology
Effect of the Cold on Shielding Ability of GIRON	Tyler P. Buczek, Stephen J. Mayhugh	Oakton High School
Effect of Temperature on Types of Guitar Strings	Kristina Rathjen, Lucy Stratton	Centreville High School
The Effect of Aircraft Design on Flight Time	Nithya Murali, Deepika Ranjit	Westfield High School
Catapult Launch Angle and Velocity	Megan M. Burton, Gautam Gupta	Hayfield Secondary

Plant Sciences

Effect of Electromagnetic Fields on Hydroponics	Radhika Pavgi	Chantilly High School
Sulfur Dilutions on Germination Rate of Duckweed	Kayla E. Magaha	Hayfield Secondary
The Effect of H ₂ O ₂ on the Growth of Wheat Seeds	Farzana Olla	Mount Vernon High School
Effect of Fertilizer on Germination of Seeds	Blake Burrow	Mount Vernon High School