

Third Place Winners
Fairfax County Regional Science
and Engineering Fair
 March 30, 2008

Animal Sciences

Living in Potomac and Daphnia Reproduction	Katharyn Grewelle	Mount Vernon High School
The Effects of Temperature on Cricket Songs	Maura M. Brennan	Oakton High School
The Effects of Magnetism on Marine Life	Ibrahim A. Al-Jabbar	Islamic Saudi Academy
Comparison of Sport Drinks and Energy Drinks	Sheldon Pearce	Hayfield Secondary
The Effect of Earthworm Divison on Regeneration	Jane Hur	Lake Braddock Secondary School
The Effect of Caffeine on Growth of Silkworms	Sung Yong Cho, Min Seok Kim, Young Jun Lee	Centreville High School
Protein Level Effects on Growth of Channel Catfish	Xinmeng Gu, Renfei Liu	Thomas Jefferson H S for Science and Technology

Behavioral and Social Sciences

The Effect of Age on the Human Memory	Hanna M. Marple	Oakton High School
The Effect of Color Psychology on the Brain	Cristina H. Harrell, Jeeyoon Kim	Oakton High School

Biochemistry

From the Loo to the Light	Sagah H. Ahmed, Dalia A. Desouky	Islamic Saudi Academy
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Cellular and Molecular Biology

Synteny_Checker: Quality Control from Synteny	Edward S. Rice	Thomas Jefferson H S for Science and Technology
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Chemistry

What Causes Gas to be Produced in Canned Foods?	Alexandra E. Lee	Lake Braddock Secondary School
Dissolution Time of Brand and Generic Pain Relieve	Sarita R. Telhan	Falls Church High School
How Well Do Commercial Products Remove Stains?	Kristen E. Fox	Robinson Secondary
Oxidation & Reduction of Eumelanin & Phaeomelanin	Laura A. Wolff	Madison High School
Solubility of a Solute	Caroline England	Annandale High School
Foods' Rate of Heat Loss in a Microwave and Oven	Sara Calkins	Westfield High School
Effect of Chlorine in Pool Water on Hair Color	Cassady Keller	Annandale High School
Synthetic vs. Petroleum Based Motor Oil	Peter C. Struckmeyer	Madison High School
How Much Energy is Stored in Different Foods?	Jennifer Oakes	Annandale High School
The Best Way to Dye	Saad I. Sakaji	Islamic Saudi Academy
Effect of Different Sugars on Yeast Fermentation	Katrina B Kask	Lee High School
The Fairest of Them All: Antioxidants on Apple	Cristina I. Marcos	Falls Church High School
Effect of Different pH Shampoos on Dyed Hair	Manisha Hossain, Aishah Karimi	Hayfield Secondary
Effect of Solution Concentration on Conductivity	Drasti A. Patel, Anna Plitt, Nattasha Srikongyos	Lee High School

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Computer Science

Effect of the Addition of Extra Dimensions on A* P	Jeffrey D. Cooper	Langley High School
Study of Programming Through Virtual Nanorgs	Ankit Kaushik, George Pottanat	McLean High School

Engineering: Materials and Bioengineering

The Effect of Temperature on Motor Oil Viscosity	Liz A. Belte	Madison High School
Effect of Force on Bend Distance of Basswood	Jane V. Ma	Stuart High School
Identification of a Biodegradable Insulator	Mary M. Allison, Elizabeth K. Graver	Robinson Secondary
Flame Retardants	Aleena Inthaly, Thanh V. Pham, Alec K. Queen	Lee High School
Quicksand: That Sinking Feeling	Zachary M. Diener, Michael Land	Madison High School

Engineering: Electrical and Mechanical

Temperature's Effect on Rebound of an Elastometer	Nate Druckerman	Langley High School
The Effect of Different Blades on Turbine Output	Luke Pilcher	Westfield High School
Length of Launch Arm on Distance	Joshua Hanson	Hayfield Secondary
Optimum Seawater Thickness for WiFi Transmission	Andrew Miesner	Chantilly High School
Effect of Blade Width on Wind Mill Efficiency	Cindy Dapogny, Ipsita Salim	Marshall High School
Augmenting the Lift Performance of an Ionocraft	David Paolo B. Chua, Adil H. Kadir, John S. Lear	Lee High School
Effect of Faraday Generator Location on Voltage	Scott P. Rayermann, Soham K. Trivedi	Robinson Secondary
Water Turbine or Wind Turbine?	Michelle T. Bui, Sarah Peng	Marshall High School

Energy and Transportation

Effect of Pitch on Wind Turbine Effectiveness	John S. Hill	Fairfax High School
The Effect of Sail Shape on Boat Speed	Christopher J. Tragakis	Lake Braddock Secondary School
Effect of Sun Tracking on Solar Array Output	Daniel J. Katona	Madison High School
Which Propellar Design Generates Most Electricity?	Kelly May	Annandale High School
Effect of Light Angles on Solar Panel Current	Robert P. Barbu, John H. Ro	Robinson Secondary
Effect of the Shape of the Car on its Speed	Mahina Aziz, Jasmine Carter	Hayfield Secondary
Gas Emissions at a Stop Light	Kate E. Almen, Jennifer Matthews	Westfield High School
The Energy Content of Alternative Fuel Sources	Andrew Huynh, Stephen L. Koelbl	Robinson Secondary

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Environmental Analysis

The Effect of Time on Charged Soil Macronutrients	Lani M. Kroese	Chantilly High School
Effect of Ground-Level Ozone on Schoenbein Paper	David Harris, Brandon Johnson, Ryan Schlobach	West Springfield High School
The Effect of Coal on Daphnia Magna	Prince Santos, Katherine M. Zajic	Lee High School
The Effect of Salt on Microorganisms	Alex Bellini, Nuha Naqvi, Meryem Ok	McLean High School

Environmental Management

The Effect of Compost Additives on Decomposition	Danny J. Krulick	Oakton High School
Effect of Terrain Type on Oil Bioremediation	Shriranjana Karthikeyan	Chantilly High School
Effect of Contaminant Level on Phytoremediation	Kirin Gupta	Oakton High School
The Greenhouse Effect: Atmospheric Measurement	Anne M. Colturi	Oakton High School
The Adverse Health Effects of Fluoride	Benjamin R. Fox	Robinson Secondary
A Survey of Phosphate Levels in Lake Barton	James V. Honnold	Robinson Secondary
Eco-Friendly Recycling	Jeanna C. Sulse	Falls Church High School
Effect of Paving Surfaces on Water Contamination	Elizabeth Nowak	West Potomac High School
Poignant Particulates: A Problematic Predicament	Kerem E. Atalay, Carl Stankwitz	Centreville High School
Acidity Due to Organic vs. Synthetic Fertilizers	Jordan M. Bell, Megan A. Stohlmack	Westfield High School
Effect of Weedkillers & OJ on the Height of Grass	Olivia A. Ellis, Emily M. Hemmingson, Meara O'Malley	Marshall High School
One Drop at a Time	Lydia L. Carlson, Elizabeth H. Sponn	Madison High School
Effect of Different Techniques on Dissolved Oxygen	Maria Andrade, Erin M. Moore, Melissa S. Vargas	Lee High School

Medicine and Health

Effect of Analgesics on Daphnia Heart rate	Sree Gadamsetty	Woodson High School
Effect of Antioxidants on Oxidation Reduction	Oshin Shukla	Oakton High School
The Effect of Flax Seed Oil on the Heart Rate	Faisal Rahimi	South County Secondary School
Hand Sanitizer and Soap Effects on Yeast Viability	Ellie P. Carlson, Lauren N. Doss, Erin G. Turley	Oakton High School
Effects of Food Additives on Growth of Rhizopus	Michelle Choeung, Houdayfah A. Kaddoura	Stuart High School

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Microbiology

Which Cleansing Material is Best? **Nabiha Mallick** Centreville High School

Physics and Astronomy

How Plane Bodies Affect Stability	Hannah E. Arbach	Lake Braddock Secondary School
The Effect of Electromagnetism on Metallic Mass	Anna S. LaValley	South Lakes High School
The Effect of Shaft Weight on Shot Speed	Eric Alter	Westfield High School
The Effect of The Wing Shape on Lift and Drag	Dhiman Sengupta	Westfield High School
Improving Imaging with Unconventional Elements	Kevin F. Lu	Thomas Jefferson H S for Science and Technology
Study of Placement of Intraocular Lenses on Focus	Hannah P. Saperstein	Thomas Jefferson H S for Science and Technology
Different Size Particles on Evaporation	Amanda J. Crider, Kelly A. Crider, Allie Golden	Marshall High School
Effect of Magnet Mass on Levitation	Suraj Malladi, Julius Perez	Chantilly High School
Effect of Nose Cone Shape on Maximum Rocket Height	Sarah N. Hoover, Elizabeth L. Lash	Marshall High School
Can You Hear Me Now?	Naid Allassan, Francesca A. Licari, Birianne C. Smalley	Robinson Secondary
Effect of Sand Color on Evaporation of Water	Paige M. Dolton, Arielle R. Mandell	Marshall High School
The Effect of Wing Structure on Air Resistance	Shreyas S. Bendre, Omar G. Dary, Alexander B. Seto	South Lakes High School
Effect of Temperature on Refractive Index	Jai P. Bapna, Adrien Garnier	Marshall High School
The Brazil-Nut Effect	Sanaya Hormozydan, Navdeep Kaur, Maria Melnyk	Centreville High School
Effect of Salinity on the Volume of Sound in Water	Glenn Feinberg, Mark Hislop, Anthony Olund	West Springfield High School

Plant Sciences

The Effect of Gibberellic Acid on Pea Plants	Yekaterina C. Zhukova	Oakton High School
The Effect of Increased CO2 Levels on Plant Growth	Stephanie L. Seto	South Lakes High School
De-Icing and the Germination Rate of Grass	Kelly M. Williams	Madison High School
The Effect of Roof Water Runoff on Plant Growth	Tom L. Mackow	Lake Braddock Secondary School
Different Types of Compost on Plant Height	Megan J. Lee, Gun Ho Park	South County Secondary School
What Food Increases the Venus Flytrap Growth Most?	Mathiu G. Antezana, Justin H. Sadegh	South County Secondary School
Effect of Nickel Concentration on Grass Biomass	Saman Ehsan, Marisa Konishi, Elyse Moy	Langley High School
The Effect of Music on Plant Germination	Morgan S. Alston, Tatiana A. Swedek	South Lakes High School
The Effect of Gibberellic Acid on Sunflower Seeds	Chirag Nimesh Kapadia, Nidal Tarek Sarsour	Robinson Secondary
Effect of Salt Water on Plant Height	Alex M. Koma, Andy A. Naidu	Marshall High School

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The Effect of Radiation on Radish Seeds	Michaela A. Accardi, Chelsea G. Bender	West Potomac High School
Effect of Different pH Levels on the Growth Rate	Blair Johnson, Meghan Sullivan	Hayfield Secondary
Effect of Iron on CO2 levels in Algae Environments	Grant B. Gibson, Jack G. Lund, Dennis E. Shiraev	Robinson Secondary
The Effect of Carbon Dioxide on Plants	Benjamin Hammond, Thomas Hammond	West Potomac High School