

2007 PRINCE WILLIAM-MANASSAS
REGIONAL SCIENCE FAIR
Senior Division Winners
Gar-Field High School
March 17, 2007

Category	Award	Name of Participant	School	Project Title
Animal Sciences (AS)	First Place	Tara Adiseshab	Brentsville HS	Population Dynamics of <i>Callinectes spidus</i> Including Abundance, Autotomy and Growth in the Rhode Rive
	Second Place	Michelle Mahoney	Battlefield HS	The Effect of Various Weather Conditions on Photic Headshaking
	Third Place Team	Almira Rivera	Freedom HS	The Effect of Different Juices on Vitamin C
		Gardner Villagarez	Freedom HS	The Effect of Different Juices on Vitamin C
		Bella Martinez	Freedom HS	The Effect of Different Juices on Vitamin C
	Honorable Mention	Emilia Hernandez	Potomac Sr. HS	The Effect of Different Amounts of Light Exposure on The Chirp Rate of a Cricket
	Honorable Mention	Ayah Elborhamy	Stonewall Jackson HS	How Do Crickets Measure Temperature?
Honorable Mention	Katie Pappano	Stonewall Jackson HS	Effect of Light Colors on Bioluminescence of Dinoflagellates	
Behavioral & Social Sciences (BE)	First Place	Bridget Little	Potomac Sr. HS	How Low Are the Standards of The Standards of Learning?
	Second Place	Emily Crawford	Battlefield HS	The Effect of How a Passage of Text is Read on Student Comprehension and Retention
	Third Place	April Millner	Stonewall Jackson HS	The Personality of Handwriting
Biochemistry (BI)	First Place	Sydney Taylor	Battlefield HS	An Investigation of Novel Human Pancreatic Lipase Inhibitors: The Effect of Various Steapsin Inhibitors
	Second Place Team	Margaret Guckenberg	Battlefield HS	The Effect of Different Varieties on The Vitamin C. Content
		Shin Jang	Battlefield HS	The Effect of Different Varieties on The Vitamin C. Content
	Third Place Team	Emily Petry	Battlefield HS	The Effect of Beta Radiation on DNA Analysis via Gel Electrophoresis
		Gwen Petry	Battlefield HS	The Effect of Beta Radiation on DNA Analysis via Gel Electrophoresis
	Honorable Mention	Vaidehi Mujumdar	Manassas City Schools	Got Milk?
Honorable Mention	Nikki Odderstol	Manassas City Schools	Organic, Schmorganic	

Category	Award	Name of Participant	School	Project Title
Chemistry (CH)	First Place	Tristan Kirkman	Battlefield HS	The Effect of Magnetic Field Strength on Diamagnetic Spin State Redox Reactions
	Second Place Team	Joseph Sullivan	Battlefield HS	The Effect of The Electromagnetic Field on the Yield of an Oxidation-Reduction Reaction
		Laila Trombati	Battlefield HS	The Effect of The Electromagnetic Field on the Yield of an Oxidation-Reduction Reaction
	Third Place	Alex Saadeh	Stonewall Jackson HS	Food, pH Indicators
	Honorable Mention	Elizabeth Dobak	Seton HS	How To Boil Water
	Honorable Mention	Courtnei McWilliams	Stonewall Jackson HS	What Is The Best Temperature to Store a Helium Balloon for Longevity
	Honorable Mention	Jonathan Boron	Seton HS	Must Metals Rust?
Computer Science (CS)	First Place	Ryan Boone	Battlefield HS	Push or Point?
	Second Place	Sam Quinan	Seton HS	Key Concepts in Cryptography
	Third Place	Robert Ford	Battlefield HS	Driven to Distraction 3.0
Engineering (EN)	First Place Team	Joseph Bruno	Battlefield HS	The Effect of Different Parabolic Curves on The Concentrating Capabilities of Solar Reflectors
		Arturo Buzzalino	Battlefield HS	The Effect of Different Parabolic Curves on The Concentrating Capabilities of Solar Reflectors
	Second Place	Patrick Wilshere	Stonewall Jackson HS	Cracks Kill: An Examination of Treatments to Strengthen Space Shuttle Tank Insulating Form
	Third Place	Nathan Hagan	Battlefield HS	AeroBatten: A Novel Solution to Sail Through Historical and Future Material Comparison
	Honorable Mention	Timmy Austen	Manassas City Schools	In What Ways Can Aerodynamics Be Improved to Decrease Drag?
	Honorable Mention	Abhinash Khanal	Freedom HS	Conservation of Energy: Maglev
	Honorable Mention	William Baker	Seton HS	Best Sediment in Sandbags to Contain Water

Category	Award	Name of Participant	School	Project Title
Earth Science (ES)	First Place	Alejandra Quan	Battlefield HS	The Effect of Temperature During Chemical Weathering on Limestone and Marble Building Materials
	Honorable Mention	Lindsey Bottos-Sewell	Battlefield HS	The Effect of Moon Phases on Barometric Pressure
Environmental Sciences (EV)	First Place	Mohammad Imaad	Battlefield HS	The Effect of Various Additives on the Rate of Production and Yield of An Alternative Fuel
	Second Place	Molly Bell	Manassas City Schools	Global Warming in The Land of the Lilliputians
	Third Place Team	Gabriela Camacho	Battlefield HS	The Effect of Manganese II Nitrate on The Amount of Dissolved Oxygen in The Potomac River
		Amy Biestek	Battlefield HS	The Effect of Manganese II Nitrate on The Amount of Dissolved Oxygen in The Potomac River
	Honorable Mention	Hunter Buchanan	Battlefield HS	Ice and Its Weaknesses: The Effect of Chemical Compounds on Ice
Mathematics (MA)	First Place Team	Bethany Martin	Battlefield HS	The Effect of Weapon Type and Impact Velocity on the Accuracy of Vector Analysis of Blood
		Edward Tremols	Battlefield HS	The Effect of Weapon Type and Impact Velocity on the Accuracy of Vector Analysis of Blood
	Second Place	Annabel Lee	Freedom HS	The Analogue Representation of Correlation and Deviation
	Third Place Team	John Molle	Potomac HS	Mr. Owl's Ancient Question
		Pabel Miah		Mr. Owl's Ancient Question

Category	Award	Name of Participant	School	Project Title
Medicine & Health (MH)	First Place	Suzie Hodges	Battlefield HS	The Effect of Extracellular Potassium Chloride Imbalances on the Conductivity of Blood Serum
		Jacqueline Hodges	Battlefield HS	The Effect of Extracellular Potassium Chloride Imbalances on the Conductivity of Blood Serum
	Second Place	Matt Johnson	Battlefield HS	Sequencing DNA for The Osteopetrosis Gene
		Matt Dobbins		
	Third Place	John Wall	Seton HS	This Is The Way We Wash Our Hands
	Honorable Mention	Owais Naeem	Stonewall Jackson HS	The Effect of Different Types of Toothpaste on The Amount of Tooth Decay
	Honorable Mention	Ashley Boyle	Manassas City Schools	Fun In The Sun
Candace English				
Microbiology (MI)	First Place	Sukruti Udeshi	Battlefield HS	The Effect of different Concentrations of Osimum basilicum Oil on The Growth of Escherichia coli
	Second Place	Afton Schwalm	Potomac HS	The Effect of Agrobacterium tumefaciens Inoculation at Different Branch locations on The Presence of
	Third Place	LaDora Nibblett	Freedom HS	Which is The Most Efficient Way to Kill The Growth of Bacteria?
		Anahi Martinez		
	Honorable Mention	Eric Czarnowsky	Freedom HS	The Effect of The Method Used to Thaw Meat on The Amount of Bacteria Killed
		Janet Johnson		
Honorable Mention	Jacob Wilson	Stonewall Jackson HS	Denatured DNA	
Physics & (PA)	First Place	Danielle Hettmann	Battlefield HS	Chill Out: The Effect of Initial Water Temperature on The Rate of Cooling
	Second Place	Kevin Coffey	Stonewall Jackson HS	When Fields Collide
	Third Place	Drayton Munster	Battlefield HS	The Effect of Magnetic State on The Absorption of B eta Radiation
	Honorable Mention	David Winings	Stonewall Jackson HS	If Stoves Caused Mutations
	Honorable Mention	Kelley Clouse	Manassas City Schools	Reducing Friction

Category	Award	Name of Participant	School	Project Title
Plant Sciences (PS)	First Place	Rachel Brigham	Battlefield HS	The Effects of Various Chemicals/Products on The Removal of The Peridioles of Artillery Fungi
	Second Place	Chris Smith	Battlefield HS	The Effect of Modulation of Light on Plant Growth
		Tim Nelson	Battlefield HS	
	Third Place	Sara Nigh	Manassas City Schools	pH Effects on Photosynthesis
	Honorable Mention	Borislava Lazarova	Freedom HS	The Effect of Different Juices on Vitamin C
		Perla Vitela		
		Brenda Martinez		
Honorable Mention	Majorie Baker	Seton HS	Do Nutrients Speed Up Germination in Seeds?	
Honorable Mention	Samantha Gaither	Stonewall Jackson HS	What Will Keep Freshly Cut Flowers Alive The Longest?	
GRAND PRIZE WINNERS	BE5	Bridget Little	Potomac Sr. HS	How Low Are The Standards of The Standards of Learning?
		Mary McClellan		
	CH7	Tristan Kirkman	Battlefield HS	The Effect of Magnetic Field Strength on Diamagnetic Spin State Redox Reactions

