

**PRINCE WILLIAM-MANASSAS
REGIONAL SCIENCE FAIR**

**ORGANIZATIONAL AWARDS
Gar-Field High School**

March 17, 2007

Category Descriptions

Animal Science (AS)

Behavioral & Social Sciences (BE)

Biochemistry (BI)

Chemistry (CH)

Computer Science (CS)

Engineering (EM)

Earth Sciences (ES)

Environmental Sciences (EV)

Mathematics (MA)

Medicine & Health (MH)

Microbiology (MI)

Physics and Astronomy (PA)

Plant Sciences (PS)

American Institute of Aeronautics & Astronautics (AIAA)

Award	Project Number	Student Name	School	Project Title
First Place One Week at Space Camp and a Certificate. An invitation to a Banquet on June 7, 2007	EN9	Jake Gates	Porter MS	Mars Tumbleweeds
Second Place \$100. and a Certificate	EN3	Patrick Wilshere	Stonewall Jackson HS	Cracks Kill: An Examination of Treatments to Strengthen Space Shuttle Tank Insulating Foam
Third Place \$75.00 and a Certificate	EN1	Sarah Bui	Bull Run MS	Tower Power
Honorable Mention Certificate	EN7	Joseph Bruno Arturo Buzzalino	Battlefield HS	The Effect of Different Parabolic Curves on the Concentrating Capabilities of Solar Reflectors
Honorable Mention Certificate	PA7	Drayton Munster	Battlefield HS	The Effect of Magnetic State on The Absorption of Beta Radiation

American Psychological Association (APA)

(1) A certificate recognizing outstanding research in psychology under the category of behavioral and social sciences.

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement	BE2	April Millner	Stonewall Jackson HS	The Personality of Handwriting

ASM Materials Education Foundation (ASM)

A formal award certificate and medallion will be forwarded directly to the recipient sometime in July or August.

It is possible that the recipient will be contacted by an ASM International Local chapter and invited to an annual or special meeting for further recognition and publicity of his/her achievement.

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement	EN11	Nathan Hagan	Battlefield HS	AeroBatten: A Novel Solution to Sail Battens Through Historical and Future Material Comparison

American Meteorological Society

Award	Project Number	Student Name	School	Project Title
Certificate of Outstanding Achievement	EV7	Molly Bell	Osborn HS	Global Warming in the Land of The Lilliputians

American Industrial Hygiene Association (AIHA) Potomac Section

A meeting invitation will be sent to the winners.

Award	Project Number	Student Name	School	Project Title
First Place \$100.00 and a Certificate	EV7	Molly Bell	Osborn HS	Global Warming in the Land of Lilliputians
Second Place \$75.00	EV9	Mohammad Imaad	Battlefield HS	The Effect of Various Additives on The Rate of Production and Yield of An Alternative Fuel
Honorable Mention	EV2	Tahsin Anwar	Graham Park MS	Our World Exhausted by Exhaust

American Association of University Women-Woodbridge Branch

Award	Project Number	Student Name	School	Project Title
First Place Certificate of Achievement, a Ribbon and a Scientific Calculator	EN10	Emilie Neely	Marsteller MS	Aerodynamics: What a Drag
Honorable Mention Certificate of Achievement and a mechanical pen and pencil	BE14	Kaitlynn Long	Lake Ridge MS	The Effects of Visual Arts Training on the Interpretator
Honorable Mention Certificate of Achievement and a mechanical pen and pencil	AS7	Samantha Bellow	Marsteller MS	What Is The Effect of Different Brands of Perfumes/Colognes on the Survival Time of Crickets

Association for Women Geoscientists

Awarded to a **female** student whose project exemplify high standards of innovativeness and scientific excellence in the geosciences

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement	ES1	Alejandra Quan	Battlefield HS	The Effect of Temperature During Chemical Weathering on Limestone and Marble Building Materials

AUDUBON SOCIETY OF NORTHERN VIRGINIA

Invitation to An Awards Ceremony and Chapter Membership (Will be mailed to the winners) Merrifield Garden Center (Fair Oaks Location) Thursday, June 7, 2007.

Award	Project Number	Student Name	School	Project Title
First Place	MI3	Sukruti Udeshi	Battlefield HS	The Effect of Different Concentrations of Ocimum basilicum Oil on The Growth of E. coli
Second Place	EV9	Mohammad Imaad	Battlefield HS	The Effect of Various Additives on the Rate of Production and Yield of An alternative Fuel
Third Place	EV8	Amy Biestak Gabriela Camacho	Battlefield HS	The Effect of Manganese (II) Nitrate on The Amount of Dissolved Oxygen in The Potomac River
Honorable Mention	EV7	Molly Bell	Osborn HS	Global Warming in the Land of Lilliputians
Honorable Mention	AS7	Tara Adiseshan	Brentsville HS	Population Dynamics of Callinectes <i>spidus</i> Including Abundance, Autotomy and Growth in the Rhode river
Honorable Mention	ES1	Alejandra Quan	Battlefield HS	The Effect of Temperature During Chemical Weathering on Limestone and Marble Building Materials

CENTRAL INTELLIGENCE AGENCY

An invitation to a special ceremony honoring regional fair winners at the CIA Headquarters on MAY 19, 2007.

Award	Project Number	Student Name	School	Project Title
First Place	EN11	Nathan Hagan	Battlefield HS	AeroBatten: A Novel Solution to Sail Battens through Historical and Future Material Comparison
Second Place	EN2	Timmy Austen	Osborn HS	In What Ways Can Aerodynamics Be Improved to Decrease Drag?
Third Place	CS2	Robert Ford	Battlefield HS	Driven to Distraction 3.0
Honorable Mention	EN3	Patrick Wilshere	Stonewall Jackson HS	Cracks Kill: An Examination of Treatments to Strengthen Space Shuttle Tank Insulating Foam
Honorable Mention	CS1	Ryan Boone	Battlefield HS	Push or Point
Honorable Mention	EN4	Daniela Sinner	Seton HS	Solar Cells
Honorable Mention	MA2	Annabel Lee Long	Freedom HS	The Analogue Representation of Correlation and Deviation
Honorable Mention	CS3	Sam Quinan	Seton HS	Key Concepts in Cryptography

Discovery Channel Young Scientists Challenge

A Certificate, a Pin and a 2007 DCYSC entry booklet and the right to compete in national competition. The Forms must be completed and return to DCYSC entry booklet to Science Service by the early June deadline to be considered an entrant.

Award	Project Number	Student Name	School	Project Title
First Place	CH3	Jacqueline Penders	Linton Hall School	Comparative Smoke Production of Cellulose Protein and Synthetic Fibers

DC Branch of the Commissioned Officers Association – U. S. Public Health Service

Award	Project Number	Student Name	School	Project Title
Best of Category In Medicine/Health	MH7	Susie Hodges Jacqueline Hodges	Battlefield HS	The Effect of Extracellular Potassium Chloride Imbalance
Honorable Mention	MH3	John Wall	Seton HS	This Is the Way We Wash Our Hands
Honorable Mention	MH8	Daniela Moghtadale	Aquinas School	The Effect of Soda versus Water on Organisms
Honorable Mention	MH1	Allyson Freeland	Aquinas School	The Effect of Crest Cavity Protection Toothpaste and Crest Whitening Toothpaste on Various Stains
Honorable Mention	MH5	Judith Cummings	Seton School	Running With Blood Pressure

Federal Water Quality

First, Second, and Third, high school and middle school winners will get T-Shirts and Certificates

Award	Project Number	School	Name	Project Title
First Place \$100. Savings Bond	PS9	Rachel Brigham	Battlefield HS	The Effects of Various Chemicals/Products on The Removal of The Peridioles of Artillery Fungi
Second Place Certificate	EV7	Molly Bell	Osborn HS	Global Warming in the Land of Lilliputians
Third Place Certificate	PA3	Danielle Hettmann	Battlefield HS	Chill Out: The Effect of Initial Water Temperature on The Rate of Cooling
Honorable Mention	EV8	Amy Biestek Gabriella Camacho	Battlefield HS	The Effect of Manganese II Nitrate on Amount of Dissolved Oxygen in the Potomac River
First Place – Middle \$100. Savings Bond	AS2	Athman Adiseshan	Marsteller MS	An Integrated Assessment of Water Quality, Abundance, and Biodiversity of Fish Populations
Second Place Certificate	EV4	Aly Shaughnessy	Linton Hall School	The Heat of Compost
Third Place Certificate	EV6	Shadi Sabbagh	Porter MS	Acid versus Phosphate
Honorable Mention Certificate to be mailed	EV1	Cerenna Johnson	Stonewall Jackson HS	Does Heat Decompose Organic Material Faster?
Honorable Mention Certificate to be mailed	EV2	Tahsin Anwar	Graham Park MS	Our World Exhausted by Exhaust
Honorable Mention Certificate to be mailed	EV8	Katie Cotton	Stonewall Middle	Dirt Alert

George Washington Engineering Alumni

Gift bag with Tee Shirt and invitation to on-campus reception (same for all awardees)

Award	Project Number	Student Name	School	Project Title
Certificate of Recognition	CS1	Ryan Boone	Battlefield HS	Push or Point
Certificate of Recognition	CS2	Robert Ford	Battlefield HS	Driven to Distraction
Certificate of Recognition	CS3	Sam Quinan	Seton HS	Key Concepts in Cryptography
Certificate of Recognition	EN3	Patrick Wilshere	Stonewall Jackson HS	Cracks Kill: An Examination of Treatments to strengthen space shuttle Tank Ins. Foam
Certificate of Recognition	EN11	Nathan Hagan	Battlefield HS	Aero Batten: A Novel Solution to Sail Battens Through Historical and Future Material Comparison
Certificate of Recognition	MA1	Bethany Martin Edward Tremols	Battlefield HS	Effect of Weapon Type and Impact Velocity on The Accuracy of Vector Analysis of Blood
Certificate of Recognition	PA3	Danielle Hettmann	Battlefield HS	Chill Out: The Effect of Initial Water Temperature on the Rate of Cooling
Certificate of Recognition	PA7	Drayton Munster	Battlefield HS	The Effect of Magnetic State on the Absorption of Beta Radiation
Certificate of Recognition	PA5	Kevin Coffey	Stonewall Jackson HS	When Fields Collide

The Herbert Hoover Presidential Library Association

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement, a Medallion	EN1	Sarah Bui	Bull Run MS	Tower Power

Institute of Electrical and Electronics Engineers of Northern Virginia (IEEE)

First Place: \$250.00 + Awards Banquet + Certificate; Second Place: \$150.00 + Certificate; Third Place: \$100.00 + Certificate

Award	Project Number	Student Name	School	Project Title
First Place	CS1	Ryan Boone	Battlefield HS	Push or Point
Second Place	CH7	Tristan Kirkman	Battlefield HS	The Effect of Magnetic Field Strength on Diamagnetic Spin State Redox Reactions
Third Place	EN7	Joseph Bruno Arturo Buzzalino	Battlefield HS	The Effect of Different Parabolic Curves on The Concentrating Capabilities of Solar Reflectors

(DC) Institute of Food Technologist

Award	Project Number	Student Name	School	Project Title
A Book and congratulatory letter. An invitation to a May Awards Reception - Will be mailed to the winners.	MI1	Eric Czarnowsky Janet Johnson	Freedom HS	The Effect of the Method Used to Thaw Meat on the Amount of Bacteria Killed

DEPARTMENT OF PUBLIC WORKS

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement	EV1	Rebecca Wescott	Bull Run MS	Friendliest Landfills

INTEL EXCELLENCE IN COMPUTER SCIENCE AWARD

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement	CS1	Ryan Boone	Battlefield HS	Push or Point

The International Society for Optical Engineering

Certificate – Entered into a drawing for a cash award

Award	Project Number	Student Name	School	Project Title
First Place	PA12	Kyle Sullivan	Marsteller MS	What is the Effect of the Color of Light on the Visibility of Light Through Fog?

The Institute of Industrial Engineers – National Capital Chapter

Award	Project Number	Student Name	School	Project Title
First Place Book & Certificate	BE5	Bridget Little Mary McClellan	Potomac HS	How Low Are The Standards of the Standards of Learning
Second Place Certificate of Recognition	MA1	Edward Tremols Bethany Martin	Battlefield HS	The Effect of Weapon Type and Impact Velocity on the Accuracy of Vector Analysis of Blood

MU ALPHA THETA

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement	BE5	Bridget Little Mary McClellan	Potomac HS	How Low Are The Standards of the Standards of Learning?

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

Will receive a Certificate of Achievement and Pin

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement	EN7	Joseph Bruno Arturo Buzzalino	Battlefield HS	The Effect of Different Parabolic Curves on The Concentrating Capabilities of Solar Reflections

NATIONAL SACE CLUB

Will mail to the winners awards and invitations to The Goddard Space Flight Center

Award	Project Number	Student Name	School	Project Title
\$500.00	EN3	Patrick Wilshere	Stonewall HS	Cracks Kills: An Examination of Treatment to Strengthen Space Shuttle Tank Insulating Foam
\$500.00	EN9	Jacob Gates	Porter MS	Mars Tumbleweeds

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
(United States Department of Commerce)

Award	Project Number	School	Name	Project Title
Certificate, Letter and Medallion	ES3	Porter MS	Joshua Garrett	The Scientific or Traditional Method of Weather Prediction: Is More Accurate?

OPTICAL SOCIETY OF AMERICA (NATIONAL CAPITAL SECTION)

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement	BE9	Kealey Cela	Porter MS	Are Two Eyes Really Better Than One?
Certificate of Achievement	PS4	Chris Smith Tim Nelson	Battlefield HS	The Effect if Modulation of Light On Plant Growth
Certificate of Achievement	EN7	Joseph Bruno Arturo Buzzalino	Battlefield HS	The Effect of Different Parabolic Curves on The Concentrating Capabilities of Solar Reflectors
Certificate of Achievement	PA7	Aaron Keller	Parkside MS	Color Patterns
Certificate of Achievement	MH6	Michael Cohen	Saunders MS	Video Vision

PRINCE WILLIAM COUNTY SERVICE AUTHORITY

Water Related Projects

Award	Project Number	Student Name	School	Project Title
Certificate of Recognition and a \$25 Border's gift card	EV8	Amy Biestak Gabriella Camacho	Battlefield HS	Effects of Manganese II Nitrate on the Amount of dissolved Oxygen in The Potomac River
Certificate of Recognition and a \$25 Border's gift card	AS2	Athman Adiseshan	Marsteller MS	An Integrated Assessment of Water Quality, Abundance and Biodiversity of Fish Populations, Located in the Rhode River and Mid-Portion of the Chesapeake Bay
Certificate of Recognition and a \$25 Border's gift card	EV7	A. J. Godeaux	Seton MS	Who Put Nitrates in My Water
Certificate of Recognition and a \$25 Border's gift card	EV1	Rebecca Wescott	Bull Run MS	Friendliest Landfills

PRINCE WILLIAM MEDICAL SOCIETY**\$100.00 – Cash Award – Will be mailed to the winner.**

Award	Project Number	Student Name	School	Project Title
First Place	MH3	John Wall	Seton School	This is The Way We Wash Our Hands

PRINCE WILLIAM SOIL & WATER CONSERVATION DISTRICT**A Certificate and a \$100.00 gift card from Borders**

Award	Project Number	Student Name	School	Project Title
\$100.00 and gift card	EV8	Kathryn Cotton	Stonewall MS	Dirt Alert

RICOH SUSTAINABLE DEVELOPMENT AWARD

Award	Project Number	Student Name	School	Project Title
Certificate of Recognition	EV9	Mohammad Imaad	Battlefield HS	The Effect of Various Additives on The Rate of Production and Yield of an Alternative Fuel

SCIENTIFIC AMERICAN

Subscription to Scientific American magazine

Award	Project Number	Student Name	School	Project Title
Certificate of Recognition	BE5	Bridget Little Mary McClellan	Potomac HS	How Low Are The Standards of The Standards of Learning?
Certificate of Recognition	EN7	Joseph Bruno Arturo Buzzalino	Battlefield HS	The Effect of Different Parabolic Curves on The Concentrating Capabilities of Solar Reflectors
Certificate of Recognition	ES1	Alejandra Quan	Battlefield HS	The Effect of Temperature During Chemical Weathering on Limestone and Marble Building Materials
Certificate of Recognition	EV9	Mohammad Imaad	Battlefield HS	The Effect of Various Additives on The Rate of Production and Yield of an Alternative Fuel
Certificate of Recognition	AS7	Tara Adishesan	Brentsville HS	Population Dynamics of Callinectes spidus Including Abundance, Autotomy and Growth in the Rhode River
Certificate of Recognition	MH7	Susie Hodges Jacqueline Hodges	Battlefield HS	The Effect of Extracellular Potassium Chloride Imbalances on The Conductivity of Blood Serum

SOCIETY FOR MINING, METALLURGY AND EXPLORATION, INC.

Letter of Recognition

Award	Project Number	Student Name	School	Project Title
Letter of Recognition	EN16	Nicholas Reeves	Beville MS	What Type of Ventilation System is More Efficient in Eliminating Airborne Contaminates?
Letter of Recognition	EV6	Hunter Buchanan	Battlefield HS	Ice and It's Weakness: The Effect of Chemical Compound on Ice
Letter of Recognition	CH1	Thomas Johnston	Rippon MS	The New Volcano: Soda and Mentos
Letter of Recognition	EV6	Shadi Sabbagh	Porter MS	Acid vs. Phosphate

UNITED STATES AIR FORCE

Award	Project Number	Name	School	Project Title
Certificate, Padfolder organizer, USB Flash Drive PDA, Pencil and Pen Set	EN2	Timmy Austen	Osborn HS	In What Ways Can Aerodynamics Be Improved to Decrease Drag?
	EN3	Patrick Wilshere	Stonewall HS	Cracks Kill: An Examination of Treatments to Strengthen Space Shuttle Tank Insulating Foam

UNITED STATES NAVY AND MARINE CORPS

Will provide packages consisting of certificates and award letters in which the recipients can select sources for gift certificates of \$50.00 for the Regional fair recipients. Students will be directed to return their award letters to the Academy of Applied Science, indicating their choice of certificate.

Award	Project Number	Student Name	School	Project Title
Senior Level	AS7	Tara Adishesan	Brentsville HS	Population Dynamics of Callinectes spidus Including Abundance, Autotomy and Growth in the Rhode River

UNITED STATES ARMY

Certificate – Grand Prize Winner will receive a Bronze Medallion

Award	Project Number	Student Name	School	Project Title
Certificate of Achievement	EN7	Arturo Buzzalino Joseph Bruno	Battlefield HS	The Effect of Different Parabolic Curves on The Concentrating Capabilities of Solar Reflectors
Certificate of Achievement	EV9	Mohammad Imaad	Battlefield HS	The Effect of Various Additives on the Rate of Production and Yield of an Alternative Fuel
Certificate of Achievement	CS1	Ryan Boone	Battlefield HS	Push or Point
Certificate of Achievement	MH7	Suzie Hodges Jacqueline Hodges	Battlefield HS	The Effect of Extracellular Potassium Chloride Imbalances on the Conductivity of Blood Serum
Bronze Medallion	CH7	Tristan Kirkman	Battlefield HS	The Effect of Magnetic Field Strength on Diamagnetic Spin State Redox Reactions

U. S. METRIC ASSOCIATION

Award	Project Number	Student Name	School	Project Title
Certificate	PA3	Danielle Hettmann	Battlefield HS	Chill Out: The Effect of Initial Water Temperature on the Rate of Cooling

WATER ENVIRONMENT FEDERATION

A Certificate and fair project.

Award	Project Number	Student Name	School	Project Title
Certificate Stockholm Junior Water Prize (SJWP) mouse pad to the best water related science	EV8	Gabriela Camacho Amy Biestek	Battlefield HS	The Effect of Manganese (II) Nitrate on the Amount of Dissolved Oxygen in The Potomac River

YALE SCIENCE & ENGINEERING ASSOCIATION, INC.

Award	Project Number	Student Name	School	Project Title
Certificate of Recognition	CH7	Tristan Kirkman	Battlefield HS	The Effect of Magnetic Field Strength on Diamagnetic Spin State Redox Reactions