

**2005 Prince William – Manassas Regional Science Fair
Category Winners – Middle Division**

BEHAVIORAL SCIENCE			
Place	Name	School	Project Title
First	Laura Sandtner	Bull Run Middle School	Bull Run Middle School
Second	Emily Sterling	Linton Hall	Reaction Time in Different Age Groups
Third	Bridget Geiran	Seton Middle	Teacher in a Box
Honorable Mention	Alicia Chan	Emmanuel Middle	Righties Versus Lefties
BIOCHEMISTRY			
First	Saaleh Faruk	Pennington Middle	The Effect of a Detergent With Enzymes on Protein
Second	Neil Sargent	St. Francis Middle	Withering Fruits
Third (Tie)	Sarah Parlette	Parkside Middle School	Finger Files
Third (Tie)	Melanie Simon	Linton Hall	Got Milk?
BOTANY			
First	Heather Toth	Marsteller Middle	Growing Plants—Hungry Worms
Second	Shay Hunter	Lake Ridge Middle	How Much Is Too Much?
Third	Matt Sprague	Bull Run Middle	Water: Clearly a Difference
Honorable Mention	Sarah Powell	Pennington Middle School	The Effect of Music on Plant Growth
Honorable Mention	Michael Arnold	Seton Middle	Corrupting Waves
Honorable Mention	Mary Wines	Stonewall Middle	Fertilizer Application: Is There a Method to This Madness?
CHEMISTRY			
First	Amber Strickland	Emmanuel Middle	Odious to Oak
Second	Shannon Crawford	St. Francis Middle	Carbon, Carbon, Everywhere
Third	Ryan Boone	Bull Run Middle	Killing Lincoln, Again
Honorable Mention	Carlos Lucca	Bull Run Middle	Blazing Inferno
Honorable Mention	Katherine Nesheim	Stonewall Middle	Does pH Matter?
Honorable Mention	Daniela Sinner	All Saints Middle	To Rust or Not to Rust? That Is the Question
Honorable Mention	Michelle Strickland	Emmanuel Middle	Fading Fast
COMPUTER SCIENCE			
First	Damian Lanninghan	Parkside Middle	Neural Networks
Second	Collin Thornton	Graham Park Middle	DUSTination 2
Third	Brittany Tatum	Emmanuel Middle	How Many Megapixels Are Enough?
Honorable Mention	Joshua Logsdon	Emmanuel Middle	Statistics and the Super Bowl
ENGINEERING			
First	Stephanie Kapurch	Aquinas	The Effect of Different Nose Cones on the Flight of a Model Rocket
Second	Emilyann Cummings	Seton Middle	Solenoid Projectile
Third	Christopher Abare	Linton Hall	Solar Furnace
Honorable Mention	Sean Edsall	Linton Hall	Does Bat Weight Affect Distance a Hit Ball Will Travel?
Honorable Mention	Emilie Bair	Lake Ridge Middle	Attracted to Magnets

EARTH AND SPACE SCIENCE

First	Michelle Mirabal	All Saints Middle	It's Getting Hot in Here
Second	Blake DiMeglio	Saunders Middle	See The Water Go Bye-Bye
Third	Katelyn Walters	Bull Run Middle	The Effect of Air Pressure on Cloud Formation
Honorable Mention	Annalise D'Elia	Emmanuel Middle	A Cubical Earth?
Honorable Mention	Savraj Singh	Lake Ridge Middle	Destruction Earthquakes

ENVIRONMENTAL SCIENCE

First	Stephanie Myrick	Beville Middle	Lincoln What?
Second	Luke Zimmerman	Parkside Middle	The Effects of Household Pollutants on Duckweed Growth
Third	Zac Callaghan	Marsteller Middle	The Effect of Construction Disturbance on Soil Permeability
Honorable Mention	Kristen Kent	Graham Park Middle	Troubled Waters
Honorable Mention	Kathryn Modugno	Bull Run Middle	The Effects of Leaching With Natural and Artificial Fertilizers
Honorable Mention	Logan Morgan	Saunders Middle	Has The Mustang Cleaned Up Its Act?

MATHEMATICS

First	Rima Januszewicz	Graham Park Middle	Fibonacci, Numbers, and Music, Oh My!
Second	Kelly Willett	Linton Hall	Periods of Pendulums: Can a Simple Math Formula Really Model Reality?
Third	Stephen Jakiel	Bull Run Middle	Crystanalysis—It's All In the Cards
Honorable Mention	Laura Gass	Bull Run Middle	Acceleration Domination
Honorable Mention	Matthew Mengel	Saunders Middle	What's In Your Bag?

MICROBIOLOGY

First	Ross Pallansch	Graham Park Middle	It's a Bug's Light
Second (Tie)	Ryan Fowler	Bull Run Middle	May The Best Soap Win!
Second (Tie)	James Boardman	All Saints Middle	Microbial and Hemolytic Reactions
Third	Matthew Shaughnessy	Linton Hall	Fungus Growth

MEDICINE AND HEALTH

First	Stephanie Ball	Parkside Middle	Which Toothpaste Removes Tooth Decay and Bacteria Best?
Second	Tyler Perez	All Saints Middle	Free, Back, Breast, Fly: Which One Makes Your Heart Rate High?
Third (Tie)	Megan Melott	Saunders Middle	How Far Can You Reach?
Third (Tie)	Michale Watkinson	Marsteller Middle	The Effect of a Calcium Source on Time to Dissolve
Honorable Mention	Kaitlyn Seastead	Bull Run Middle	Exercising Hearts
Honorable Mention	Anam Gul	Pennington Middle	How Fast Glucovance Would Disintegrate in Different Solutions
Honorable Mention	Michelle Martin	Bull Run Middle	The Effect of Age on Memory

PHYSICS

First	Rachel Brigham	Bull Run Middle	Getting It In Gear
Second	Patrick Wilshere	Stonewall Middle	Wat'er Invention
Third	Michael Terango	Linton Hall	The Viscosity of Different Motor Oils in Various Temperatures
Honorable Mention	Nicole Laine	Saunders Middle	A Weighty Issue
Honorable Mention	Timothy Schmidt	Marsteller Middle	What is the Effect of Different Shapes on the Reflection of Radar Waves?
Honorable Mention	Michelle Mahoney	Bull Run Middle	The Effect of Jump Type on a Horse's Form

ZOOLOGY

First	Melissa Bearden	Saunders Middle	Old Dog, New Tricks?
Second	Eric Czarnowsky	Graham Park Middle	Let My Crickets Grow
Third	Kristina Medlock	Rippon Middle	Froggy Light Fun!
Honorable Mention	Josh Simons	Pennington Middle	The Effect of Different Colored Birdseed on the Amount of Birdseed Eaten by the Birds
Honorable Mention	Darren Schroeder	Beville Middle	To See or Not to See

Best In Show: Laura Sandtner, Bull Run Middle School

**2005 Prince William – Manassas Regional Science Fair
Category Winners – Senior Division**

BEHAVIORAL SCIENCE

Place	Name	School	Project Title
First	Tazeen Shirazi Audrey Januszewski	Potomac High	The Effect of Human Intentions on the Random Event Generator
Second	Stephanie Miller Jennifer Tomasine	Potomac High	The Ideal President
Third	Sean Bartnick	Seton High	The Main Brain
Honorable Mention	Drayton Munster	Battlefield High	The Effect of Subliminal Messages on Choices
Honorable Mention	Caroline Collins	Seton High	“Memory is the Thing You Forget With”—Alexander Chase
Honorable Mention	Jessica McDonald	Potomac High	The Effect of Change of Color Card on the Word Retention of a Child

BIOCHEMISTRY

First	Danielle Hettmann	Battlefield High	How Does Temperature Affect the Coagulation of Egg Protein?
Second	Ayushma Shrestha	Potomac High	The Effect of Different Fruits on the Intensity and Migration Distance of the Gel Electrophoresis Bands
Third	Alan Hill	Battlefield High	Enzymatic Magnetism

BOTANY

First	Aaron Bailey	Emmanuel Senior	The Effect of Transplant Fertilizer 2-1-2 Plus Vitamin B-1 on Plants After Transplantation
Second	Paul Duda	Seton High	The Effects of Electromagnetic Waves on Plants
Third	Katie Brown	Battlefield High	Iodine—It Doesn’t Rhyme with Orange
Honorable Mention	Arle Heater	Emmanuel Senior	Organic Versus Chemical Fertilizer: Which Has the Best Effect on Plant Germination?
Honorable Mention	Laina Peters	Potomac High	The Effect of Various Medications on Plant Growth
Honorable Mention	Gregory Mannix	Battlefield High	Lights and Their Effect of Plant Growth

CHEMISTRY

First	Melissa Bell	Osborn High	Unlocking the Secrets of the Universal Solvent
Second	Loren Jewell	Battlefield High	Burn, Baby, Burn
Third	Daniel Langston	Osborn High	Which Galvanic Cell is the Most Efficient?
Honorable Mention	James Majewski	Seton High	Nature’s Cleaners

COMPUTER SCIENCE

Place	Name	School	Project
First	Robert Ford	Battlefield High	Driven to Distraction
Second	Luke Manning Leah Manning	Forest Park High	Speed Kills: The Effects of Overlocking

ENGINEERING

First	Yash Mathur Dante Earle	Stonewall Jackson Senior	Efficacy of the Photoelectric Effect
Second	(None)		
Third	Nick Bailey	Osborn High	How Does Compression of Insulation Affect Its Ability to Insulate?
Honorable Mention	Harry Stine	Holy Family Academy	Measuring Capacitance
Honorable Mention	Mohammad Sirazi Ross Canlas	Potomac High	The Effect of Various Rocket Designs on Their Altitudes

EARTH AND SPACE SCIENCE

First	Helen Huynh Fiama Aguire	Battlefield High	The Effect of Rainfall Amount on Mudslide Formation
Second	Thomas Short	Battlefield High	The Effect of Solar Wind and Proton Density on Radio Wave Distortion
Third	Nathan Hagan	Battlefield High	The Effect of Different Levels of Water on Different Hull Materials

ENVIRONMENTAL SCIENCE

First	Josh Quinlan	Emmanuel Senior	Under Cover
Second	Amanda Paris Eric Paris	Battlefield High	Soaking Sand and Soil
Third	Stephanie Apple Shannon Hinton	Osborn High	Fruit Be Gone
Honorable Mention	Susan Roberts Larissa Krvesi	Battlefield High	Fertilizer's Effect on pH

MATHEMATICS

First	Brad Hunsaker	Potomac High	The Effect of Card Counting on the Probability of Winning a Blackjack Game
Second	Kirk Edgar Michael Green	Emmanuel Senior	The Perfect Fit

MEDICINE AND HEALTH

First	Reema Chaudhry Saima Zaman	Potomac High	The Effect of Age and Gender on Cognition Rates
Second	Erin Bliss	Seton High	Directional Hearing
Third	Tianzhe Kang	Stonewall Jackson Senior	Fooled by the Light
Honorable Mention	Adil Quraish	Potomac High	The Effect of Dehydration on Human Weight Loss
Honorable Mention	Kathleen Marrow	Potomac High	The Effect of Age on a Person's Reaction Time

MICROBIOLOGY

Second (Tie)	Gabriella Baldo	Seton High	Natural Killers
Second (Tie)	Jacob Conway	Potomac High	The Effect of Temperature Variation on the Growth of Mold

PHYSICS

First	Jessica Rhodes	Battlefield High	The Fast and the Frozen
Second	Muhammad Quraish	Potomac High	The Effect of Frequency on Impedance
Third	Ginny Zimmerman	Seton High	The Effects of Pressure on Gases
Honorable Mention	Mary Paul	Seton High	Flexing the Flux
Honorable Mention	Brian Stine	Holy Family Academy	Splash
Honorable Mention	Jonathan Davis	Potomac High	What is the Effect of Different Sizes of Wheels on a Mars Rover?

ZOOLOGY

First	Amy Lasturka Jewellyn Hedd	Potomac High	The Effect of Sound Frequencies and Pitch on the Memory of Common and Fancy Mice
Second	Andrew Bengier	Forest Park High	What Are the Effects of Global Warming on the Metabolic Rate of the Invertebrate <i>Gryllus texensis</i> ?
Third	(None)		
Honorable Mention	Mawsi Kamassa	Potomac High	The Effect of Temperature on the Metamorphosis of Butterfly Pupae
Honorable Mention	Jennifer Bliss Dalila Gil	Battlefield High	Operation Planaria

Best in Show:**Reema Chaudhry and Saima Zaman, Potomac Senior High School**