

2008 Northeast Florida Regional Science and Engineering Fair Awards

February 17 - 19, 2008 ~ University Center ~ University of North Florida

Junior

Behavioral & Social Sciences

1st Place

Nadya Alzate / James Weldon Johnson Middle School

**** State Team Member**

SHARP SENES

2nd Place

Evelina Dedic / Fletcher Middle School

WHICH SIDE ARE YOU ON? LEFT BRAIN VS. RIGHT BRAIN

3rd Place

Jessi Pressley / Darnell-Cookman Middle School

THE EFFECT OF GENDER ON VISUAL SELECTIVE ATTENTION

4th Place

Jacqueline Sutton / Episcopal High School

EFFECTS OF USING SOUNDS AS A TRAINING TECHNIQUE ON LEARNED BEHAVIOR PATTERNS IN SHETLAND SHEEPDOGS

Biochemistry

1st Place

Kristen Huyghue / Episcopal High School

**** State Team Member**

THE EFFECT OF MANIPULATING PH LEVELS IN NUTRIENT AGAR ON CAENORHABDITIS ELEGANS

2nd Place

Kate Porfilio / Darnell-Cookman Middle School

GLUCOSE TRAVELS THROUGH DIALYSIS TUBING MORE EFFECTIVELY THAN PROTEIN AND SODIUM.

3rd Place

Kevin Shih / Darnell-Cookman Middle School

HOW WILL PHOSPHATE DETERGENTS AFFECT PLANT LIFE?

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Junior

Biochemistry

4th Place

Aaron Assadoghli / James Weldon Johnson Middle School

WHICH CONVENTIONAL BAKER'S YEAST HAS THE GREATEST LEAVENING CAPACITY?

Michelle Virginia / Mandarin Middle School

THE BUBBLY BAKER

Botany

1st Place

Brigitte Wittmer / Episcopal High School

**** State Team Member**

THE EFFECT OF GROWING GENETICALLY DIFFERENT RADISHES TOGETHER IN THE SAME SOIL ON THE GROWTH IN SIZE

2nd Place

Winnie Shao / James Weldon Johnson Middle School

THE EFFECT OF DIFFERENT X-RAY DOSAGES ON GLYCINE MAX GERMINATION AND GROWTH

Phillip Riley / James Weldon Johnson Middle School

THE EFFECT OF INTERCROPPING TRIFOLIUM REPENS ON THE GROWTH OF RAPHANUS SATIVUS AND DACUS CAROTA PLAN

3rd Place

Samuel Homra / Episcopal High School

WHAT ARE THE EFFECTS OF UV RADIATION ON THE GROWTH OF ALTERNARIA ALTERNATA ON PENTA PLANTS?

Kalyani Hawaldar / James Weldon Johnson Middle School

THE EFFECT OF COOKING OIL ON VIGNA UNGUICULATA GROWTH

Hailey Greene / Episcopal High School

WHAT IS THE EFFECT OF DIFFERENT COMPOUNDS OF COCA COLA ON THE GROWTH OF PLANTS?

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Junior

Botany

4th Place

Nicholas D. Ravn / James Weldon Johnson Middle School

THE EFFECT OF LIGHT ANGLE ON PLANT GROWTH DIRECTION

Erica Wilsey / Twin Lakes Middle School

THE EFFECT OF DIFFERENT TYPES OF WATER ON PLANT GROWTH

Chemistry

1st Place

Katy Taggart / San Jose School

**** State Team Member**

THE EFFECT OF CATALYSTS ON THE CHEMILUMINESCENCE OF LUMINOL

2nd Place

Kaelyn Ibold / James Weldon Johnson Middle School

THE EFFECT OF DIFFERENT TYPES OF WATER ON THE CORROSION OF CARBON ZINC BATTERIES

Mazin A. Ibrahim / Darnell-Cookman Middle School

HOW DOES THE AMOUNT OF CHEMICALS AFFECT THE AMOUNT OF NYLON FORMED

3rd Place

Connor Forman / Twin Lakes Middle School

THE EFFECT OF CHEMICAL REACTIONS ON THE DISTANCE OF A LAUNCHED PROJECT

Tisha Antique / Darnell-Cookman Middle School

THE EFFECTS OF VARIOUS TYPES OF COOKING OILS ON THE TRIGLYCERIDE SATURATION

Kyle Kadlub / Fletcher Middle School

WHICH ORANGE JUICE HAS MORE VITAMIN C?

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Chemistry

4th Place

Kelsey Sahi / DuPont Middle School

LIP GLOSS

Nick Gagnon / Christ the King School

DOES AGE AFFECT THE ACIDITY OF LEMONS AND ORANGES?

Adrian Johnson / Twin Lakes Middle School

THE EFFECT OF BRAND OF CAT LITTER ON DEGREE OF ODOR CONTROL

Erik Christiansen / Providence School

WHAT IS THE EFFECT OF FERTILIZER ON THE PH OF SOIL?

Computer Science

1st Place

Shawn Delegal / Kirby-Smith Middle School

**** State Team Member**

WHICH AUDIO ENCODING FORMAT WOULD GIVE ME THE BEST SOUND QUALITY IN THE LEAST AMOUNT OF SPACE?

2nd Place

Ben Wilson / Episcopal High School

MAKING FRACTALS WITH AUTOCAD

Earth & Space Sciences

1st Place

Theresa Cornell / Episcopal High School

THE EFFECTS OF CHEMICALS, BAKING IN THE OVEN, AND A VACUUM ON THE OXIDATION OF METEORITES

2nd Place

Lauren Slavens / Darnell-Cookman Middle School

THE EFFECT OF TESTING A SOLAR PANEL AT VARIOUS TIMES OF THE DAY TO SEE AT WHAT TIME IT PRODUCES THE

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Earth & Space Sciences

3rd Place

Mary Ann McNulty / Episcopal High School

THE EFFECTS OF THE LOCATION OF THE ST. JOHN'S RIVER ON ITS COMPOSITION

4th Place

Charlie Bodge / Darnell-Cookman Middle School

THE EFFECT OF VARIOUS MATERIALS ON A SOLAR CELL'S EFFICIENCY

Engineering

1st Place

Steven Ibold / James Weldon Johnson Middle School

**** State Team Member**

THE EFFECT OF WINGLETS ON THE LIFT AND DRAG OF AN AIRFOIL

2nd Place

Zach Cueto / Episcopal High School

WHAT IS THE EFFECT OF WATER ON DIESEL ENGINE EXHAUST EMISSIONS

Matthew Gill Harwood / Episcopal High School

THE EFFECT OF WIND SPEED ON THE ELECTRICAL OUTPUT OF A HORIZONTAL AXIS TURBINE VS A SAVONIUS WINDMIL

3rd Place

Kenzie Schuppert / Fletcher Middle School

BRIDGING THE GAP: UNDERSTANDING TRUSSES

Ashley Michelle Estanislao / James Weldon Johnson Middle School

THE EFFECT OF VARIOUS FIN SHAPES ON SWIMMING SPEED

Zoe Feezor / James Weldon Johnson Middle School

MINIATURE MAGNETIC LEVITATION HOVERBOARD

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Engineering

4th Place

Kristen Phillips / Fletcher Middle School

KEEPIN' IT HOT

Michael J. Smith / Ft. Caroline Middle School

WHICH BRIDGE DESIGN IS STRONGER?

Peter Ryan House / Christ the King School

COMPARATIVE GLUE JOINTS AS APPLIED TO POPSICLE STICK BRIDGES

Laura Perez / Darnell-Cookman Middle School

THE EFFECT OF A COLUMN'S SHAPE ON ITS STRENGTH, PART II

Environmental Sciences

1st Place

Ryan Shih / Darnell-Cookman Middle School

**** State Team Member**

LOCATIONS WILL AFFECT THE AMOUNT OF AIRBORNE ACID CORROSION ON NYLON

2nd Place

Rose Walsh / San Jose School

WHO OR WHAT IS CAUSING THE POLLUTION IN OUR LOCAL CREEK?

3rd Place

Brennan Lyons / James Weldon Johnson Middle School

THE EFFECT OF VARIOUS SOIL TREATMENTS ON EROSION

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Environmental Sciences

4th Place

Kenneth I. McIntyre / James Weldon Johnson Middle School
THE SOLAR CAR CONUNDRUM

Aaron Nicholas Badida / Darnell-Cookman Middle School
THE EFFECT OF DIFFERENT COASTAL AREAS ON THE LEVELS OF NITRATE AND PHOSPHATE IN THE ST, JOHNS RIVER

Mathematical Sciences

1st Place

Nadia Al-Rubaei / Darnell-Cookman Middle School
**** State Team Member**
THE EFFECT OF DIFFERENT METHODS ON CALCULATING PI ON ITS ACCURACY

2nd Place

Bradley A. Kriznar / Kirby-Smith Middle School
WHAT IS THE MOST COST EFFECTIVE FUEL GRADE

Sterling A Fortner / River City Science Academy
THE AFFECT OF NEGATIVE BEHAVIOR ON AN ACADAMIC SUCCESS

4th Place

Jillianne Ramirez / James Weldon Johnson Middle School
THE EFFECT OF VARIOUS VISCOSITIES ON LASER POINTER ANGLES

Medicine & Health Sciences

1st Place

Ali Elizabeth Wells / Episcopal High School
**** State Team Member**
NATURAL ANTIBIOTICS: ARE THEY TRULY EFFECTIVE ON BACTERIA?

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Medicine & Health Sciences

2nd Place

Hannah Flack / Episcopal High School

WHAT IS THE EFFECT OF DIFFERENT CLEANERS ON THE AMOUNT OF PEANUT RESIDUE FOUND ON CONTAMINATED SURFA

3rd Place

Grace Wallmeyer / San Jose School

DOES EXERCISE IMPROVE TEST PERFORMANCE?

Christopher Azcuy / San Jose School

THE HOMEOSTASIS CHALLENGE

4th Place

Alana Hall / Fletcher Middle School

CARDIO FOR KIDS, PHASE THREE

Microbiology

1st Place

Andrew Joseph / James Weldon Johnson Middle School

**** State Team Member**

THE EFFECT OF TEMPERATURE AND TIME ON THE BACTERIA LGROWTH IN COMMON HOUSHODL DRINKS

2nd Place

Emily Smithwick / Episcopal High School

**** State Team Member**

THE EFFECTS OF VARIOUS EDIBLE LIQUIDS ON E. COLI CONTAMINATED SPINACH

Physics

1st Place

Franco B. Bautista / Darnell-Cookman Middle School

**** State Team Member**

THE EFFECT OF PH ON MAGNETIC STRENGTH

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Junior

Physics

2nd Place

Soha Khedkar / Darnell-Cookman Middle School

**** State Team Member**

INVESTIGATION OF THE SEEBECK EFFECT

Veronica Pitocchi / Episcopal High School

THE EFFECTS OF CERTAIN VARYING LIGHT BULBS ON LIGHT INTENSITY AND HEAT PRODUCTION.

Marcus A. Threadcraft / James Weldon Johnson Middle School

**** State Team Member**

WHAT IS THE EFFECT OF DIRECTION AND TILT ANGLE ON THE POWER GENERATED BY A PHOTOVOLTAIC CELL?

3rd Place

James Hennessey / Fletcher Middle School

HOW DO YOU FIND A SWEET SPOT ON A WOODEN BAT?

Sarah Fossett / Eagle's View Academy

S4 (SARAH'S SUPER SOFTBALL SLINGSHOT)

Taylor Waters / San Jose Catholic School

THE EFFECT OF BODY POSITION ON THE SPEED OF THE SPIN

Andrew Franklin David / Providence School

ROCKETS IN AIR FOR SCIENCE FAIR

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Junior

Physics

4th Place

Stephen C. Murphy / Episcopal High School

THE EFFECTS OF DIFFERENT TYPES OF FOOTBALL HELMETS ON THE AMOUNT OF FORCE THAT REACHES THE HEAD THRO

Joshua Urbizu / Christ the King School

NEWTON'S WINGS

Travis Haren / Mandarin Middle School

LAUNCHING BALLS

Trevor Gwisz / Fletcher Middle School

WHICH SHAPED PARACHUTE WILL TAKE THE LONGEST TO REACH THE GROUND

Daniel Mallett / James Weldon Johnson Middle School

THE COMPARISON OF COMMON LIGHT BULBS AND DIRECT SUNLIGHT

Kate Wooley / Providence School

ULTRAVIOLET RADIATION

Elle Farrar / Landmark Middle School

WHAT'S HOT AND WHAT'S NOT

Joseph Tocco / Fletcher Middle School

DISTANCE AND ACCURACY OF A COMPRESSED AIR CANNON

Logan Greenhaw / Episcopal High School

THE EFFECTS OF DIFFERENT LAUNCH PAD MATERIALS ON THE SPEED AND ALTITUDE OF A ROCKET

Joseph Weaver / Fernandina Beach Middle

THE BRIGHT FLIGHT

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Junior

Physics

4th Place

Kimberly Mackey / Kirby-Smith Middle School

DIFFERENT COLORED LIGHTS IN FOG

Elizabeth O'Malley / Christ the King Catholic School

THE SCIENCE OF SHRINKAGE

Zoology

1st Place

Daniel Hered / Episcopal High School

**** State Team Member**

KILLING A KILLER: THE EFFECTS OF VARIOUS NATURAL SUBSTANCES ON THE MORTALITY OF CULEX MOSQUITO LARV

2nd Place

Caitlin Dempsey / Episcopal High School

**** State Team Member**

THE EFFECTS OF CAFFEINE ON THE HEART RATE OF DAPHNIA

3rd Place

Brandon Stevens / James Weldon Johnson Middle School

**** State Team Member**

THE EFFECT OF PHOTOPERIOD ON THE HATCH RATE AND LONGEVITY OF ARTEMIA

4th Place

Monica Wall / Fletcher Middle School

COLOR PREFERENCE OF THE PAINTED LADY BUTTERFLY

Juliette Holthaus / James Weldon Johnson Middle School

THE EFFECT OF VARIOUS SAMPLES OF THE ST. JOHN'S RIVER ON DAPHNIA PULEX

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Senior

Behavioral & Social Sciences

1st Place

Kaitlin Ramirez / Stanton College Preparatory High School

**** State Team Member**

WHAT IS THE EFFECT OF PIGMENTS IN THE IRIS ON BRAIN HEMISPHERE DOMINANCE?

2nd Place

Cameron Smith / The Bolles School

EFFECTS OF MUSIC GENRES ON PHYSICAL PERFORMANCE WITH A PHYSICALLY INTERACTIVE GAMING SYSTEM

Biochemistry

1st Place

Jay Parikh / Stanton College Preparatory High School

**** State Team Member**

THE ROLE OF AN ARSENIC HYPERACCUMULATING FERN'S ALPHA-CRYSTALLIN HEAT SHOCK PROTEIN IN CADMIUM AND C

2nd Place

Satchel Siegel / Episcopal High School

**** State Team Member**

THE EFFECT OF ACETONE, ETHANOL AND METHYLENE CHLORIDE ON THE EXTRACTION OF CURCUMIN FROM TUMERIC

Botany

1st Place

Garima Gupta / Stanton College Preparatory High School

HOW DOES WATER DROPLET SIZE AFFECT THE DEVELOPMENT OF AEROPONICALLY GROWN LETTUCE PLANTS?

2nd Place

Kelsey Hunter / Stanton College Preparatory High School

THE EFFECT OF NICKING THE SEED COAT OF A BEAN SEED AND SUGAR CONTENT OF WATER ON THE SEED'S GERMINAT

Chemistry

1st Place

Nathan Monroe / Episcopal High School

***** International and State Team Member**

HARNESSING SOLAR ENERGY, YEAR 4: INCREASING THE EFFICIENCY OF A HYBRID POLYMER PHOTOVOLTAIC CELL....

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Senior

Chemistry

2nd Place

Peter Blumeyer / Episcopal High School

**** State Team Member**

THE EFFECT OF THE SOL GEL SYNTHESIS METHOD ON SYNTHESIS, COMPOSITION, AND PURITY OF BA2BINBO6

Computer Science

1st Place

Mayank Gupta / Stanton College Preparatory High School

EFFICIENCY IN SORTING

Earth & Space Sciences

1st Place

Evan Saitta / The Bolles School

**** State Team Member**

DINOSAURIAN EGG STRENGTH

2nd Place

Lauren Barr / Bishop Kenny High School

WEATHER OR NOT THEY ARE RIGHT

Engineering

1st Place

Robert C. Abare / Bishop Kenny High School

**** State Team Member**

USING DIMPLES TO REDUCE NAUTICAL WATER RESISTANCE

2nd Place

Kyle Dajac / Bishop Kenny High School

**** State Team Member**

DOES THE AMOUNT OF BLADES ON A TURBINE AFFECT THE AMOUNT OF ENERGY PRODUCED?

3rd Place

Les Voss / Mandarin High School

**** State Team Member**

THE INVERTADRIVER-- A SCREWDRIVER WITH A CONCAVE BLADE

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Senior

Environmental Sciences

1st Place

Savan Dave / Stanton College Preparatory High School

***** International and State Team Member**

*DETERMINING THE VERACITY OF THE MERV NUMBER OF PLEATED AIR FILTERS THROUGH METHODS OF
OBSCURATION*

2nd Place

Chelsea Michele Thompson / Bishop Kenny High School

THE EFFECTS OF HIGH ENERGY PULSES TO REDUCE CARBON DIOXIDE IN THE ENVIRONMENT

3rd Place

Andrew Taggart / Bishop Kenny High School

THE PHYTOFILTRATION OF PHOSPHATES AND NITRATES IN FRESH WATER USING FLORIDA FERNS

Anastasia Frances Mann / Bishop Kenny High School

WATT'S UP WITH COMPACT FLUORESCENT LIGHT?

Mathematical Sciences

1st Place

Xiangkun Cao / Stanton College Preparatory High School

**** State Team Member**

PROPERTIES OF FLAG OF NORWAY FRACTAL, THE FLAG OF NORWAY GRAPH, AND THEIR APPLICATIONS

2nd Place

Christian Damon / Bishop Kenny High School

BALL HAWKS, BEWARE!

Medicine & Health Sciences

1st Place

Jason Marks / Episcopal High School

***** International and State Team Member**

*THE EFFECT OF POLYMORPHIC ALLELES FOUND IN THE NPPA AND NPRA GENES ON THE DEVELOPMENT OF
ASTHMA*

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Senior

Medicine & Health Sciences

2nd Place

Ansh Grover / The Bolles School

**** State Team Member**

IS THE DRUG BEVACIZUMAB TOXIC TO CORNEAL EPITHELIAL CELLS?

3rd Place

Christine Grochmal / Bishop Kenny High School

WHICH BRAND OF PAIN KILLERS DISSOLVES THE FASTEST?

4th Place

Jenna Shearer / Bishop Kenny High School

THE INCLINE OF A TREADMILL'S EFFECT ON HEART RATE

Microbiology

1st Place

Mitra Khosravi / The Bolles School

**** State Team Member**

EFFECTS OF AN ANTIBIOTIC AND A HYPERBARIC CHAMBER ON ANTIBIOTIC RESISTANT STAPH BACTERIA

Physics

1st Place

Christopher Davlantes / Bishop Kenny High School

**** State Team Member**

THE ANALYSIS OF HOW THE INDUCTION OF EDDY CURRENTS RESULTS IN THE LEVITATION OF A MAGNETIC FIELD

2nd Place

Paul Huang / Stanton College Preparatory High School

INVESTIGATION OF PIEZOELECTRIC GENERATION FROM MECHANICAL STRESS

3rd Place

Vignesh Vudatha / Stanton College Preparatory High School

THE EFFECT OF ANIONIC AND NONIONIC SURFACTANTS ON THE DYNAMIC VISCOSITY OF AN ER FLUID

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Senior

Physics

4th Place

Josh M. Scribbins / Bishop Kenny High School

MULTIGRADE OIL VERSUS STRAIGHT GRADE OIL

Team Projects

1st Place

Gregory Kennedy / Episcopal High School

***** International and State Team Member**

TARGETING THE MTOR PATHWAY ENHANCES CHEMOSENSITIVITY OF METASTATIC MELANOMA TO PACLITAXEL

William P Kennedy / Episcopal High School

***** International and State Team Member**

TARGETING THE MTOR PATHWAY ENHANCES CHEMOSENSITIVITY OF METASTATIC MELANOMA TO PACLITAXEL

2nd Place

Micha'le R. Simmons / Episcopal High School

***** International and State Team Member**

THE IMPACT OF CALORIE RESTRICTION ON THE MATING BEHAVIORS AND EGG OUTPUT OF DROSOPHILA MELANOGASTER

Cole Taylor / Episcopal High School

***** International and State Team Member**

THE IMPACT OF CALORIE RESTRICTION ON THE MATING BEHAVIORS AND EGG OUTPUT OF DROSOPHILA MELANOGASTER

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Senior

Team Projects

3rd Place

Ana Hensley / Mandarin High School
CRYROGENIC EFFECTS ON MAGNETIC FIELDS

Christopher Tersak / Mandarin High School
CRYROGENIC EFFECTS ON MAGNETIC FIELDS

Ben Sullivan / Stanton College Preparatory High School
PAPPUS CHAIN THEOREM: THE SECRET OF THE ARBELOS

Hursh Sureka / Stanton College Preparatory High School
PAPPUS CHAIN THEOREM: THE SECRET OF THE ARBELOS

4th Place

Brittany Cozart / Eagle's View Academy
AEROPONICS: THE KEY TO SPACE TRAVEL

Ele Simmons / Eagle's View Academy
AEROPONICS: THE KEY TO SPACE TRAVEL

Zoology

1st Place

Tess Linnea Peterson / Episcopal High School
***** International and State Team Member**
CHICKEN EMBRYO DEVELOPMENT AFTER EXPOSURE TO MMT, A FUEL ADDITIVE: YEAR 2

Rick Schinco Schaffer / Stanton College Preparatory High School
**** State Team Member**
DOES MANOURIA EMYS EXHIBIT SUBSPECIFIC VARIANCE IN GROWTH RATES? A MORPHOMETRIC ANALYSIS.

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Senior

Zoology

3rd Place

Andrew Clayton / Stanton College Preparatory High School

THE EFFECT OF CREATINE MONOHYDRATE ON THE GROWTH OF MUS MUSCULUS