

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

February 13 - 15, 2006 ~ FCCJ Deerwood Campus ~ February 16, 2006 ~ FCCJ South Campus

## Alfred I. duPont Middle School

Junior

### Botany

Tyler Turrall

*WILL THE AMOUNT OF WATER CAUSE ZINNIAS TO BLOOM, WILT, OR DIE?*

**Awards Received**

4th Place Ribbon in Junior Botany

### Earth Science

Saban Zakomac

*RUNOFF OF A HILLSIDE*

**Awards Received**

4th Place Ribbon in Junior Earth Science

### Space Science

Kassandra Sanchez

*MARS CAN SUSTAIN LIFE.*

**Awards Received**

4th Place Certificate from Duval County Public School-Research Paper

Plaque, 1 yr. NEFAS membership, Books, Meteorite, NEFAS Meeting from Northeast Florida Astronomical Society

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

February 13 - 15, 2006 ~ FCCJ Deerwood Campus ~ February 16, 2006 ~ FCCJ South Campus

## Bishop Kenny High School

Senior

### Behavioral and Social Sciences

Alyson Silva

*THE STUDY OF THE REACTION TIME BETWEEN HEARING AND SPEECH.*

**Awards Received**

2nd Place Ribbon in Senior Behavioral and Social Sciences

### Biochemistry

Mary Alice Anderson

*THE EFFECT OF GENETIC HISTORY ON FINGERPRINT PATTERNS.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Biochemistry

Certificate and folder, shirt from U.S. Army

Certificates, Medals, electronic gifts from U.S. Air Force

### Botany

Caroline O'Leary

*THE ALLELOPATHIC EFFECTS OF VARIOUS PLANT INFUSIONS ON THE GERMINATION OF RADISH SEEDS, LETTUCE SEEDS, AND RYE GRASS SEEDS.*

**Awards Received**

2nd Place Ribbon in Senior Botany

Jeffrey M. Chambers

*DOES THE COLOR OF LIGHT AFFECT THE GROWTH OF A PLANT*

**Awards Received**

\$150.00, certificate from Florida Nurserymen and Growers Association

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

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## Bishop Kenny High School

Senior

### Chemistry

Katelyn Bobek

*THE IMPACT OF FABRIC SOFTENERS ON THE FLAME RETARDANT NATURE OF CHILDREN'S NIGHTWEAR.*

**Awards Received**

2nd Place Ribbon in Senior Chemistry

Certificate & Chemistry & Physics Reference Book from Lyondell Chemicals

Caroline Stone

*THE EFFECT OF VARIOUS FABRICS OF HEAT RETENTION.*

**Awards Received**

4th Place Certificate from Duval County Public School-Research Paper

Certificate of Recognition from ASM International Foundation

### Engineering

Leanne Thompson

*BIFURCATION OF OIL-WATER EMULSIONS USING ELECTROSTATIC FORCES-YEAR 3*

**Awards Received**

International Science & Engineering Fair - NEFRSEF Team Member

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Engineering

Certificate, pewter medallion from Yale Science and Engineering Association

2nd Trophy from University of North Florida - College of Computing, Engineering and Construction

Certificate, Medal & \$50 from U.S. Navy & U.S. Marine Corps

1 year Science News, Certificate, & Eligible for digital camera from Ricoh Corporation

Certificate, Lapel Pin, Subscription to Engineering Times from National Society of Professional Engineers

1 Certificates of Achievement from Association for Women Geoscientists

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

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## Bishop Kenny High School

Senior

### Engineering

Carter Patrick McMillan

*AN ATTEMPT TO MAXIMIZE THE ELECTRICAL OUTPUT OF A VERTICAL AXIS WIND TURBINE THROUGH VARIATION OF THE WIND TURBINE BLADES.*

**Awards Received**

3rd Place Ribbon in Senior Engineering

Certificate, Lapel Pin, Subscription to Engineering Times from National Society of Professional Engineers

### Environmental Science

Amy Guidos

*THE EFFECT OF LANDSCAPING ON ENERGY CONSUMPTION IN WATER*

**Awards Received**

2nd Place Ribbon in Senior Environmental Science

### Medicine and Health

Rebecca Buczkowski

*EFFECTS OF BEVERAGES ON THE GRIP OF DENTURE ADHESIVES.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Medicine and Health

3rd Place Certificate from Duval County Public School-Research Paper

Derek Gonzalez

*A COMPARISON OF SUNSCREEN LOTION AND OIL ON BLOCKING PHOTOCHROMIC ULTRAVIOLET LIGHT.*

**Awards Received**

4th Place Ribbon in Senior Medicine and Health

Certificate from U.S. Department of Health and Human Services

Certificate of Achievement (student & teacher) from Florida Association of Science Teachers (FAST)

Certificate of Achievement (student & teacher), Sports bag (student) from Florida Association of Science Teachers (FAST)

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## Bishop Kenny High School

Senior

### Medicine and Health

Megan Salah

*DOES COFFEE GET YOUR HEART PUMPING? THE EFFECT OF CAFFEINATED COFFEE ON THE HEART RATE AND BLOOD PRESSURE.*

**Awards Received**

4th Place Ribbon in Senior Medicine and Health

1st Place Certificate from Duval County Public School-Research Paper

Nicole Helene Miller

*MUSIC AND THE HEART RATE.*

**Awards Received**

Certificates, Medals, electronic gifts from U.S. Air Force

### Physics

Christopher V. Dobson

*THE EFFECT OF COIL SHAPE ON ELECTRIC MOTORS*

**Awards Received**

2nd Place Ribbon in Senior Physics

### Zoology

Christopher Jacob Schrum

*THE EFFECTS OF GROUND PEANUTS (HIGH CALORIE FOOD SOURCE) AND CORNMEAL (LOW CALORIE FOOD SOURCE) ON THE FOOD PREFERENCE OF EARTHWORMS.*

**Awards Received**

3rd Place Ribbon in Senior Zoology

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

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## Darnell-Cookman Middle School

Junior

### Biochemistry

Devarshi J. Desai

*THE EFFECT OF HEAT ON THE PH OF DIFFERENT TYPES OF VEGETABLES*

**Awards Received**

2nd Place Ribbon in Junior Biochemistry

### Chemistry

Benjamin Sullivan

*THE EFFECT OF SUBMERGING DRY ICE IN DIFFERENT HOUSEHOLD CHEMICALS ON ITS  
SUBLIMATION RATES*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

4th Place Ribbon in Junior Chemistry

### Computer Science

Daniel Canuto

*DRYWALL AND METAL HAVE THE GREATEST EFFECT ON THE STRENGTH OF A WIRELESS INTERNET  
CONNECTION*

**Awards Received**

1st Place Plaque in Junior Computer Science

Certificate, Wireless Mouse and Keyboard from Intellicon Solutions

Trophy from Institute of Electrical and Electronic Engineers

### Earth Science

Garima Gupta

*HOW DOES THE INCLINATION OF SOLAR PANEL AFFECT THE AMOUNT OF SOLAR POWER  
GENERATED?*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Junior Earth Science

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Certificate from American Meteorological Society

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

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## Darnell-Cookman Middle School

Junior

### Engineering

Rebekah Kitto

*THE EFFECT OF DIFFERENTLY SHAPED VANES OF THE ROTATIONAL SPEED OF A WINDMILL*

**Awards Received**

3rd Place Ribbon in Junior Engineering

Jack Werenskjold

*HOW DOES THE VISCOSITY OF CONCRETE MIX AFFECT ITS COMPRESSIVE STRENGTH?*

**Awards Received**

4th Place Ribbon in Junior Engineering

Sarah Frances Davis

*THE EFFECT OF AGGREGATES ON THE STRENGTH OF CONCRETE SAMPLES*

**Awards Received**

4th Place Ribbon in Junior Engineering

\$50, Certificate from American Society of Civil Engineers

### Environmental Science

Victoria M. Shami

*THE EFFECT OF SUPER BOWL XXXIX'S BOAT TRAFFIC ON THE ST. JOHN'S RIVER*

**Awards Received**

4th Place Ribbon in Junior Environmental Science

### Medicine and Health

Austin Strudwick

*WHICH MATERIAL MAKES THE BEST EARPLUG?*

**Awards Received**

2nd Place Ribbon in Junior Medicine and Health

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## Darnell-Cookman Middle School

Junior

### Zoology

Malorie Edge

*THE EFFECT OF BORAX ON COCKROACHES*

**Awards Received**

2nd Place Ribbon in Junior Zoology

Mike LaVine

*THE EFFECTS OF CREATINE MONOHYEDRATE ON THE GROWTH CYCLE OF TENEBRIO MOLITOR  
(MEALWORMS)*

**Awards Received**

Certificates, Medals, electronic gifts from U.S. Air Force

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## Duncan U. Fletcher Middle School

Junior

### Behavioral and Social Sciences

Carley Fuller

*YOU'RE IN MY BUBBLE!*

**Awards Received**

4th Place Ribbon in Junior Behavioral and Social Sciences

### Botany

Jake Turner

*THE EFFECT OF ROOTING COMPOUNDS ON COLEUS PLANTS?*

**Awards Received**

4th Place Ribbon in Junior Botany

Joseph Jumber

*TESTING HYDROPONICS GROWING MEDIUMS*

**Awards Received**

4th Place Ribbon in Junior Botany

### Medicine and Health

Alana Hall

*CARDIO FOR KIDS*

**Awards Received**

1st Place Plaque in Junior Medicine and Health

Certificate from U.S. Department of Health and Human Services

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

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## Edward H. White High School

Senior

### Physics

Colin James Fagan

*THE PRACTICAL EFFICIENCY OF A PARABOLIC SOLAR COOKER*

#### Awards Received

3rd Place Ribbon in Senior Physics

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## Episcopal High School

Junior

### Botany

Chandler Bennett

*THE EFFECT OF POTASSIUM NITRATE AND POTASSIUM PHOSPHATE ON THE GROWTH OF MICROCYSTIS IN THE ST. JOHN'S RIVER.*

**Awards Received**

1st Place Plaque in Junior Botany

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Leslie Rose Blackshear

*THE EFFECT OF SIMULATED UPWELLING ON PHYTOPLANKTON GROWTH*

**Awards Received**

2nd Place Ribbon in Junior Botany

1st Place Certificate from Duval County Public School-Research Paper

Certificate & Medal from U.S. Navy & U.S. Marine Corps

2nd Place Certificate - \$50.00 from Jacksonville Shell Club

\$150.00, certificate from Florida Nurserymen and Growers Association

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Kameron Maverick Porter

*WHAT ARE THE EFFECTS OF DIFFERENT MATERIALS AND THE DEVELOPMENT OF BARNACLES AND OTHER PLANT GROWTH OVER TIME?*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

3rd Place Ribbon in Junior Botany

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Shannon Elizabeth Bartholomew

*CAFFEINATED VS. DECAFFEINATED COFFEE GROUNDS ON THE GROWTH OF PEA PLANTS*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

3rd Place Ribbon in Junior Botany

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## Episcopal High School

Junior

### Botany

Ana Pitocchi

*THE EFFECTS OF THE DECAY PROCESS OF ROSES AT DIFFERENT TEMPERATURES.*

**Awards Received**

4th Place Ribbon in Junior Botany

### Chemistry

Mahala Rummell

*THE EFFECT OF HIGH FAT FEED AND SUPPLEMENTS ON METHANE LEVELS IN HORSE MANURE.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Junior Chemistry

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Anne Morgan

*THE EFFECTS OF DIFFERENT STRESSES ON NATURAL VS. SYNTHETIC MATERIALS.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

3rd Place Ribbon in Junior Chemistry

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

### Earth Science

Tommy Lucas

*THE EFFECT OF INFILTRATION RATE ON DIFFERENT GRAIN SIZES AND SOILS.*

**Awards Received**

4th Place Ribbon in Junior Earth Science

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## Episcopal High School

Junior

### Engineering

David H. Drew

*THE EFFECT OF CERAMIC MICROSPHERES ON INTERIOR TEMPERATURE OF A STRUCTURE.*

**Awards Received**

1st Place Plaque in Junior Engineering

3rd Place Certificate from Duval County Public School-Research Paper

Certificate & Medal from U.S. Navy & U.S. Marine Corps

\$50 Cash and a certificate from Society of American Military Engineers

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Robert Highsmith

*THE EFFECT OF PARACHUTE SIZE ON MODEL ROCKET AIR TIME.*

**Awards Received**

3rd Place Ribbon in Junior Engineering

Jarron J. Papale

*THE EFFECTS OF USING DIFFERENT TYPES OF GOLF BALLS FROM A DISTANCE OF THREE METERS IN WET VS. DRY CONDITIONS ON THE PERCENTAGE OF PUTTING ACCURACY.*

**Awards Received**

4th Place Ribbon in Junior Engineering

Andrew Westlake Chafin

*THE USE OF A SIMPLE GLASS SPHERE MICROSCOPE FOR BASIC MEDICAL DIAGNOSIS.*

**Awards Received**

Certificate and chance for \$100 in drawing from International Society for Optical Engineering

Nicolas Scheffer

*DOES SWIRLING AIR ENTERING AN ENGINE INCREASE FUEL EFFICIENCY?*

**Awards Received**

\$100, framed Certificate from American Society of Mechanical Engineers

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## Episcopal High School

Junior

### Environmental Science

Meredith Celeste Boulos

*CONCENTRATIONS OF FECAL COLIFORM BACTERIA FOUND IN THE ST. JOHNS RIVER.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

Junior Division's Best in Applied Group

1st Place Plaque in Junior Environmental Science

Certificate & Medal from U.S. Navy & U.S. Marine Corps

Certificate and 1 year subscription to Scientific American from Scientific American

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Lauren Herring

*THE EFFECT OF MIXED FLORA ON WASTE PAPER DECOMPOSITION: CAN NATURAL MATTER BREAK DOWN PAPER?*

**Awards Received**

3rd Place Ribbon in Junior Environmental Science

### Mathematics

Christian Strom

*IN BLACKJACK, IS THE PROBABILITY OF THREE CARDS TOTALING EXACTLY 21 GREATER WHEN THE FIRST TWO CARDS TOTAL 16, 15, 14, OR 13?*

**Awards Received**

1st Place Plaque in Junior Mathematics

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

### Medicine and Health

Erin Elizabeth Kelly

*THE EFFECTS OF TALLOW BASED FABRIC SOFTENERS ON THE FLAMMABILITY OF CHILDREN'S PAJAMAS.*

**Awards Received**

3rd Place Ribbon in Junior Medicine and Health

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## Episcopal High School

Junior

### Microbiology

Collin Jefferson Conner

*TEA FOR TWO: A COMPARATIVE ANALYSIS OF THE EFFECT OF CAMELLIA SINENSIS EXTRACT ON STAPHYLOCOCCUS AND STREPTOCOCCUS.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

Junior Division's Best in Biological Group

1st Place Plaque in Junior Microbiology

Certificate and 1 year subscription to Scientific American from Scientific American

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Matthew Douglas Green

*ADHESIVE EFFECTS OF PSEUDOMONAS AERIGIOSA ON TYMPANOSOMY TUBES.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Junior Microbiology

2nd Place Certificate from Duval County Public School-Research Paper

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

### Physics

Krista Koppenberger

*THE EFFECTS OF TEMPERATURE ON VISCOSITY OF OIL.*

**Awards Received**

4th Place Ribbon in Junior Physics

### Zoology

William Mai

*MONARCH CATERPILLAR GROWTH: SUN VS. SHADE*

**Awards Received**

1st Place Plaque in Junior Zoology

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

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## Episcopal High School

Junior

### Zoology

Bryson Shaaber

*WHAT ARE THE EFFECTS OF DIFFERENT ALGAE ON PLANARIAN REGENERATION?*

**Awards Received**

4th Place Ribbon in Junior Zoology

Senior

### Behavioral and Social Sciences

Cole Nativity Taylor

*THE EFFECT OF TELEVISION PROGRAMS ON THE AMOUNT OF FOOD EATEN BY ADOLESCENT GIRLS.*

**Awards Received**

1st Place Plaque in Senior Behavioral and Social Sciences

### Botany

Marlow Maruniak

*THE EFFECT OF ALOE VERA GEL ON ORGANIC FRUITS AND VEGETABLES.*

**Awards Received**

3rd Place Ribbon in Senior Botany

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

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## Episcopal High School

Senior

### Chemistry

Nathan McKay Monroe

*INCREASING THE POWER OUTPUT OF A POLYMER PHOTOVOLTAIC CELL WITH METAL OXIDE ADDITIVES.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Chemistry

Certificate, Medal & \$50 from U.S. Navy & U.S. Marine Corps

Certificate from U.S. Metric Association

Certificate and folder, shirt from U.S. Army

Certificate, \$200.00 Bond from Professional Employees Association - JEA

Certificate and chance for \$100 in drawing from International Society for Optical Engineering

Certificate of Recognition from ASM International Foundation

Trophy from American Mensa, Jacksonville Chapter

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

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## Episcopal High School

Senior

### Computer Science

Daniel Stephen Smith

*ASSESSMENT OF EMOTION BY VOICE ANALYSIS UTILIZING ARTIFICIAL INTELLIGENCE.*

**Awards Received**

International Science & Engineering Fair - NEFRSEF Team Member

State Science & Engineering Fair - NEFRSEF Team Member

Senior Division's Best in Applied Group

1st Place Plaque in Senior Computer Science

1st Trophy from University of North Florida - College of Computing, Engineering and Construction

Certificate and folder, shirt from U.S. Army

Certificate and 1 year subscription to Scientific American from Scientific American

1 year Science News, Certificate, & Eligible for digital camera from Ricoh Corporation

Certificate, \$200.00 from Intel Corporation - CO

Trophy from Institute of Electrical and Electronic Engineers

2nd place Certificate, \$50 from Armed Forces Communications and Electronics Association, Jacksonville Chapter

### Engineering

Eric J. Holshouser, Jr.

*TEMPERATURE-HEIGHT RELATIONSHIPS IN HOVERCRAFTS*

**Awards Received**

2nd Place Ribbon in Senior Engineering

3rd Trophy from University of North Florida - College of Computing, Engineering and Construction

Certificate of Merit & Medallion from Herbert Hoover Young Engineers

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

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## Episcopal High School

Senior

### Microbiology

Jason Marks

*ENVIRONMENTAL FACTORS AFFECTING THE TRANSFORMATION OF E. COLI BY BETA-GALACTOSIDASE PLASMID.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Microbiology

### Physics

Daniel L. Murphy Jr.

*THE EFFECT OF ALTERATIONS TO HEAT EXCHANGERS AND A GENERATOR ON THE POWER OUTPUT AND EFFICIENCY OF A STANDING-WAVE THERMOACOUSTIC ENGINE.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Physics

Certificate, pewter medallion from Yale Science and Engineering Association

Certificate from U.S. Metric Association

Bronze Medallion , Certificate and folder, shirt from U.S. Army

\$50 Cash and a certificate from Society of American Military Engineers

1st place Certificate, \$100 from Armed Forces Communications and Electronics Association, Jacksonville Chapter

\$100, framed Certificate from American Society of Mechanical Engineers

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

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## **Fernandina Beach Middle School**

Junior

### **Physics**

Stephen Grondin

*NATURAL BATTERIES*

#### **Awards Received**

4th Place Ribbon in Junior Physics

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

February 13 - 15, 2006 ~ FCCJ Deerwood Campus ~ February 16, 2006 ~ FCCJ South Campus

## Home Education Resources and Information

### Junior

#### Chemistry

Denver Gabriel La Mont

*FACTORS AFFECTING WATER ABSORPTION IN RAW WOOD*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

2nd Place Ribbon in Junior Chemistry

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Trophy from American Mensa, Jacksonville Chapter

### Senior

#### Botany

Phoebe Young

*THE USE OF EXOGENOUS MALATE TO ALLEVIATE ALUMINUM STRESS IN SCOUT 66 WHEAT*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Botany

\$150.00, certificate from Florida Nurserymen and Growers Association

Letter, \$10, Information Packet from American Society of Agricultural Engineers - Florida Section

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

February 13 - 15, 2006 ~ FCCJ Deerwood Campus ~ February 16, 2006 ~ FCCJ South Campus

## J. W. Johnson College Prep Middle School

Junior

### Botany

Phillip Riley

*THE EFFECT OF INTERCROPPING ALLIUM CEPA PLANTS ON PHASEOLUS VULGARIS AND DAUCUS CAROTA PLANT GROWTH*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

2nd Place Ribbon in Junior Botany

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Jenna Walton

*WHAT MAKES THESE SPUDS DUDS?*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

3rd Place Ribbon in Junior Botany

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

James Richard Peacock

*THE EFFECT OF VARIOUS WATER ADDITIVES AND STEM TREATMENTS TO THE LIFESPAN OF CUT FLOWERS*

**Awards Received**

4th Place Ribbon in Junior Botany

\$150.00, certificate from Florida Nurserymen and Growers Association

Michael Judy

*THE EFFECT OF A MAGNETIC FIELD ON RADISH GROWTH*

**Awards Received**

4th Place Ribbon in Junior Botany

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

February 13 - 15, 2006 ~ FCCJ Deerwood Campus ~ February 16, 2006 ~ FCCJ South Campus

## J. W. Johnson College Prep Middle School

Junior

### Chemistry

Savan Dave

*WHAT IS THE EFFECT OF DIFFERENT CHLORINE CONCENTRATIONS ON CARBON FILTERS?*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

4th Place Ribbon in Junior Chemistry

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Soha Khedkar

*THE EFFECT OF STORAGE TEMPERATURES ON BATTERY PERFORMANCE*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

4th Place Ribbon in Junior Chemistry

### Engineering

Gregory Maier

*THE EFFECT OF COLORED OXIDE PIGMENTS ON THE COMPRESSIVE STRENGTH OF INTERLOCKING  
BRICK PAVERS*

**Awards Received**

2nd Place Ribbon in Junior Engineering

### Environmental Science

Tatiana Bowe

*THE EFFECT OF MASS ON THE COOLING RATE OF WATER*

**Awards Received**

4th Place Ribbon in Junior Environmental Science

\$50.00, plaque from Clive Andriesse Memorial Award

\$50.00, plaque from Clive Andriesse Memorial Award

Brian Kitchen

*THE EFFECT OF VARIOUS SOLUTIONS OF SULFURIC ACID ON LIMESTONE*

**Awards Received**

Certificate & Medal from U.S. Navy & U.S. Marine Corps

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

February 13 - 15, 2006 ~ FCCJ Deerwood Campus ~ February 16, 2006 ~ FCCJ South Campus

## J. W. Johnson College Prep Middle School

Junior

### Physics

Vignesh Vudatha

*THE EFFECT OF VARIOUS TEMPERATURES AND SURFACTANTS ON THE SURFACE TENSION OF VARIOUS LIQUIDS.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

2nd Place Ribbon in Junior Physics

\$50 Cash and a certificate from Society of American Military Engineers

Certificate from Lyondell Chemicals

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Alejandro Castaneda

*DIFFERENT WHEELBASES ON A SKATEBOARD'S VELOCITY AND DISTANCE*

**Awards Received**

3rd Place Ribbon in Junior Physics

Ashish Heda

*THE EFFECT OF A MEDIUM'S DENSITY ON ITS REFRACTION INDEX*

**Awards Received**

3rd Place Ribbon in Junior Physics

Chase Serman

*BLOWN AWAY!!!*

**Awards Received**

3rd Place Ribbon in Junior Physics

Kathryn Murphree

*THE EFFECT OF WEIGHT DISTRIBUTION ON THE SPEED AND DISTANCE OF A SKATEBOARD*

**Awards Received**

4th Place Ribbon in Junior Physics

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

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## J. W. Johnson College Prep Middle School

Junior

### Physics

Krishna Raja

*THE EFFECT OF VISCOSITY OF LIQUIDS ON THE FALLING VELOCITY OF SMALL SPHERICAL OBJECTS.*

**Awards Received**

4th Place Ribbon in Junior Physics

Navneet Venkatesh

*THE EFFECT OF TEMPERATURE AND AN IMPURITY ON THE REFRACTIVE INDEX OF WATER.*

**Awards Received**

4th Place Ribbon in Junior Physics

Ji Soo Kim

*THE EFFECT OF EVAPORATION ON COLORED AND UNCOLORED WATER*

**Awards Received**

Certificate of Achievement (student & teacher) from Florida Association of Science Teachers (FAST)

Certificate of Achievement (student & teacher), Sports bag (student) from Florida Association of Science Teachers (FAST)

### Zoology

Juliette C. Holthaus

*THE EFFECT OF MAGNETISM ON SNAIL MOVEMENT*

**Awards Received**

3rd Place Ribbon in Junior Zoology

1st Place Certificate - \$75.00 from Jacksonville Shell Club

Rich Schaffer

*DOES HUMIDITY INFLUENCE THE ACTIVITY OF THE ASIAN GIANT TORTOISE, MANOURIA EMYS?*

**Awards Received**

4th Place Ribbon in Junior Zoology

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

February 13 - 15, 2006 ~ FCCJ Deerwood Campus ~ February 16, 2006 ~ FCCJ South Campus

## **Paxon School for Advanced Studies**

Senior

### **Zoology**

Hillary Ann Futch

*GAMETIC COMPATIBILITY OF CONSPECIFIC SEA URCHINS.*

#### **Awards Received**

International Science & Engineering Fair - NEFRSEF Team Member

State Science & Engineering Fair - NEFRSEF Team Member

Senior Division's Best in Biological Group

1st Place Plaque in Senior Zoology

Certificate and 1 year subscription to Scientific American from Scientific American

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

February 13 - 15, 2006 ~ FCCJ Deerwood Campus ~ February 16, 2006 ~ FCCJ South Campus

## Providence School

Junior

### Engineering

Susan VanDenhende

*STRENGTH OF STRUCTURAL SHAPES.*

#### Awards Received

\$50, Certificate from American Society of Civil Engineers

# 2006 Northeast Florida Regional Science and Engineering Fair Awards

February 13 - 15, 2006 ~ FCCJ Deerwood Campus ~ February 16, 2006 ~ FCCJ South Campus

## San Jose Catholic School

Junior

### Behavioral and Social Sciences

Michael Nackashi

*READING SCRAMBLED WORDS*

**Awards Received**

1st Place Plaque in Junior Behavioral and Social Sciences

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Certificate of Award from American Psychological Association

Christina Gagnon

*IS THERE A RELATIONSHIP BETWEEN HEIGHT AND ARM SPAN IN HOMO SAPIENS?*

**Awards Received**

2nd Place Ribbon in Junior Behavioral and Social Sciences

Brandon Hofmann

*WHAT TYPE OF MUSIC HELPS YOU CONCENTRATE THE BEST?*

**Awards Received**

3rd Place Ribbon in Junior Behavioral and Social Sciences

Cari Whitmire

*HOW ACCURATE IS AN EYEWITNESS ACCOUNT?*

**Awards Received**

4th Place Ribbon in Junior Behavioral and Social Sciences

### Biochemistry

Theresa Parker

*HOW MUCH VITAMIN C IS IN YOUR FOOD? FOOD ANALYSIS BY TITRATION*

**Awards Received**

1st Place Plaque in Junior Biochemistry

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

Hilary Eischen

*WHAT TYPE OF ORANGE JUICE CONTAINS THE MOST VITAMIN C?*

**Awards Received**

3rd Place Ribbon in Junior Biochemistry

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## San Jose Catholic School

Junior

### Chemistry

John Masley

*WHICH PAPER TOWEL IS THE BEST ALL AROUND PERFORMER?*

**Awards Received**

4th Place Ribbon in Junior Chemistry

### Earth Science

Will Beverly

*SOLAR DESALINATION*

**Awards Received**

3rd Place Ribbon in Junior Earth Science

### Engineering

Heather Coutts

*WHICH PAPER TOWEL IS THE BEST ALL AROUND PERFORMER?*

**Awards Received**

4th Place Ribbon in Junior Engineering

### Environmental Science

Andrew Taggart

*THE EFFECT OF BIOREMEDIATION ON OIL DEGRADATION IN SEA WATER*

**Awards Received**

2nd Place Ribbon in Junior Environmental Science

Plaque & \$50 Best Buy gift certificate from Golder Associates Award

1 Tuition Voucher for Field Ecology Summer Camp from EcoEd Resources

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## San Jose Catholic School

Junior

### Physics

Christopher Davlantes

*THE EFFECT OF VARYING SKIRT DESIGNS ON HOVERCRAFT PERFORMANCE*

#### Awards Received

State Science & Engineering Fair - NEFRSEF Team Member

Junior Division's Best in Physical Group

1st Place Plaque in Junior Physics

Certificates, Medals, electronic gifts from U.S. Air Force

Certificate and 1 year subscription to Scientific American from Scientific American

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

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## Sandalwood High School

Senior

### Chemistry

Stefka Petkova

*BUTTER VS. MARGARINE*

**Awards Received**

3rd Place Ribbon in Senior Chemistry

Cara Lanzarotta

*DOES VEGETABLE OIL RETAIN MOISTURE BETTER THAN PEANUT OIL?*

**Awards Received**

4th Place Ribbon in Senior Chemistry

### Engineering

Matthew Bartle

*THE EFFECTS OF DRAG ON A MORE STREAMLINED BOAT HULL DESIGN.*

**Awards Received**

4th Place Ribbon in Senior Engineering

\$50 Cash and a certificate from Society of American Military Engineers

### Medicine and Health

Samantha Bartlett

*SIMPLY WHITE!*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

### Physics

Philip Jones

*WHAT IS THE EFFECT OF DIFFERENT MATERIAL PROPELLERS ON WINDMILL EFFICIENCY?*

**Awards Received**

4th Place Ribbon in Senior Physics

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## St. Joseph Catholic School

Junior

### Earth Science

Kara Joseph

*THE CRAZY HAZY ATMOSPHERE*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

2nd Place Ribbon in Junior Earth Science

Certificate, \$50.00, Book (Observe Eclipses) from Richard A. Sweetsir Memorial Award

Certificate from National Oceanic Atmospheric Administration

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

### Engineering

John Woodward

*THE EFFECT OF MOISTURE ON THE THERMAL RESISTIVITY OF SOIL.*

**Awards Received**

4th Place Ribbon in Junior Engineering

### Physics

Christopher Tersak

*CRYOGENICS FREEZING THAT HELPS*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

2nd Place Ribbon in Junior Physics

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

### Space Science

Matt Wilhelm

*THE EFFECT OF DIFFERENT FIN SHAPES ON A MODEL ROCKET'S MAXIMUM ALTITUDE.*

**Awards Received**

1st Place Plaque in Junior Space Science

Certificate, booklet, pin, T-shirt from Discovery Young Scientist Challenge

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## Stanton College Preparatory School

Senior

### Earth Science

Bing Han

*EFFECTIVE METHOD FOR HURRICANE REDUCTION UTILIZING AN ANALYSIS OF ROTARY MOTION AND FORCED VIBRATION*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Earth Science

Certificate, Medal & \$50 from U.S. Navy & U.S. Marine Corps

Certificate and folder, shirt from U.S. Army

Certificate from National Oceanic Atmospheric Administration

Certificate from American Meteorological Society

### Engineering

Sunny Dinesh Patel

*WHAT IS THE EFFECT OF VARYING AMOUNTS OF SAND ON THE STRENGTH OF CONCRETE?*

**Awards Received**

4th Place Ribbon in Senior Engineering

Certificate of Merit & Medallion from Herbert Hoover Young Engineers

Plaque & \$50 Best Buy gift certificate from Golder Associates Award

\$50, Certificate from American Society of Civil Engineers

### Environmental Science

Yun Li

*IMPACT OF WATER RECLAMATION: AN ANALYSIS OF WATER QUALITY AND GROWTH, MORPHOLOGY, AND PROPAGATION OF RAPID-CYCLING BRASSICA RAPA*

**Awards Received**

International Science & Engineering Fair - NEFRSEF Team Member

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Environmental Science

Certificate from Water Environment Federation

Bronze Medallion , Certificate and folder, shirt from U.S. Army

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## Stanton College Preparatory School

Senior

### Mathematics

Vincent Huynh Dang

*MINIMAL AND MAXIMAL NUMBER OF MONOCHROMATIC TRIANGLES IN A RANDOM, BI-COLORED COMPLETE GRAPH*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

Senior Division's Best in Physical Group

1st Place Plaque in Senior Mathematics

Certificate and 1 year subscription to Scientific American from Scientific American

Certificate from MU Alpha Theta, The National High School and Two Year College Mathematics Club

### Physics

Darin Carabensiov

*ANALYSIS OF WAVE PATTERNS IN HUMAN SPEECH*

**Awards Received**

4th Place Ribbon in Senior Physics

### Zoology

Alison Tamasi

*SIGHT AND SCIENCE: COMPARATIVE ANATOMY PHYLOGENY VS. PROTEIN COMPARISON PHYLOGENY*

**Awards Received**

2nd Place Ribbon in Senior Zoology

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## The Bolles School

Senior

### Behavioral and Social Sciences

Gregory Shyam Paryani

*EFFECTS OF DIFFERENT DAYS OF THE WEEK ON HEART RATE AND MOOD.*

**Awards Received**

Certificate of Award from American Psychological Association

### Biochemistry

Leslie Kathryn Kulina

*THE EYES HAVE IT, OR DO THEY?*

**Awards Received**

2nd Place Ribbon in Senior Biochemistry

### Chemistry

Carly Norton

*DETERMINING IF WATER CAN BE MAGNETIZED.*

**Awards Received**

4th Place Ribbon in Senior Chemistry

### Engineering

Byron Plapp

*INSULATOR EFFECTIVENESS*

**Awards Received**

Certificate and folder, shirt from U.S. Army

### Medicine and Health

Anita Shroff

*PVD CAUSES APAPTOSIS.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

2nd Place Ribbon in Senior Medicine and Health

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## The Bolles School

Senior

### Medicine and Health

Christina Lambiase

*RACIAL DIFFERENCES IN GASTROESOPHAGEAL REFLUX*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

3rd Place Ribbon in Senior Medicine and Health

Garrett Freeman

*EFFECTS OF MUSIC ON HUMAN STRENGTH.*

**Awards Received**

\$50.00, plaque from Clive Andriesse Memorial Award

\$50.00 , plaque from Clive Andriesse Memorial Award

Jonathan Albert Rogozinski

*EXERCISE AND MUSCLE UTILIZATION.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

Certificate and folder, shirt from U.S. Army

Tom Lee

*THE EFFECTS OF BAROMETRIC PRESSURE ON THE INDUCTION OF LABOR.*

**Awards Received**

State Science & Engineering Fair - NEFRSEF Team Member

### Microbiology

Tushar Chakravarty

*THE EFFECTS OF UV RADIATION ON E-COLI WHEN EXPOSED TO ANTIBACTERIAL SOAP.*

**Awards Received**

International Science & Engineering Fair - NEFRSEF Alternate

State Science & Engineering Fair - NEFRSEF Team Member

1st Place Plaque in Senior Microbiology

Certificate, \$100.00 Bond from Jacksonville Area Microbiology Society

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## The Bolles School

Senior

### Microbiology

Chloe Furfine

*ARE LIBRARY BOOKS SAFE?*

**Awards Received**

3rd Place Ribbon in Senior Microbiology

### Physics

Travis Jamaal Gidado

*BATHROOM ACOUSTICS*

**Awards Received**

4th Place Ribbon in Senior Physics

### Zoology

Kristin Drew

*THE JOY OF SOY.*

**Awards Received**

2nd Place Certificate from Duval County Public School-Research Paper

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## Twin Lakes Academy Middle School

Junior

### Botany

Sharissa Wells

*THE EFFECT OF DIFFERENT LIGHT SOURCES ON THE RATE DIFFERENT PLANTS TRANSPIRE*

**Awards Received**

4th Place Ribbon in Junior Botany

### Physics

Adam Feasel

*THE EFFECT OF DISTANCE ON THE SPLATTER OF A PAINTBALL.*

**Awards Received**

4th Place Ribbon in Junior Physics

Mayank Gupta

*INCREASED DISTANCE, CONSTANT VOLTAGE*

**Awards Received**

4th Place Ribbon in Junior Physics