

# 2010 WRD5 Category Winners

## BEHAVIORAL AND SOCIAL SCIENCES

FIRST PLACE	OLIVIA	DORIA	MILLER SOUTH	DOES TEXTING SLOW REACTION TIME?
SECOND PLACE	JOE	CHADBOURNE	FIRESTONE HS	THE MOZART EFFECT
SECOND PLACE	PATRICK	SCHULTZ	FIRESTONE HS	THE MOZART EFFECT
THIRD PLACE	ANISHA	BASU	HUDSON HS	OF MICE AND MUSIC

## BIOCHEMISTRY

FIRST PLACE	JONATHON	STONE	ST. VINCENT - ST. MARY HS	DNA EXTRACTION AND ANALYSIS OF SUGAR MAPLE TREE (ACER SACCHARUM MARSH)
SECOND PLACE	VIBHUTI	KRISHNA	SOLON HS	CAN YELLOW HELP THE PINK? THE EFFECT OF CURCUMIN ON BREAST CANCER CELL GROWTH
THIRD PLACE	SARAH	HOCEVAR	BEAUMONT SCHOOL	DNA DAMAGE: LINK TO ENVIRONMENTAL EXPOSURE?

## BOTANY

FIRST PLACE	KELLY	GALLAGHER	OUR LADY OF THE ELMS MS	DOES BROCCOLI'S NUTRIENTS = BETTER PLANT GROWTH?
SECOND PLACE	VINCENZO	VOLPE	ST. VINCENT - ST. MARY HS	THE EFFECTS OF HUMIDITY ON COLEUS PROPAGATION
THIRD PLACE	ERIKA	KLEK	INCARNATE WORD ACADEMY	COFFEE OR TEA: HOW WILL YOUR GARDEN GROW?

## CHEMISTRY

FIRST PLACE	KORAIMA	DENERVILLE	INCARNATE WORD ACADEMY	THE EVOLUTION OF GREEN POWDER PAINT
SECOND PLACE	DIOSWAL	JOHNSON	FIRESTONE HS	COMPARISON OF NANOFIBER DIAMETERS OF DIFFERENT POLYMER SOLUTIONS PRODUCED BY ELECTROSPINNING
THIRD PLACE	KINDELAN	HUBER	ST. VINCENT - ST. MARY HS	THE DEGRADATION OF POLYALANIDS BY SUBTILISIN

## COMPUTER SCIENCE/MATHEMATICS

FIRST PLACE	CHRISTOPHER	JOHNSTONE	HUDSON MS	THE SMARTER BOARD
SECOND PLACE	KATHERINE	DOBSCHA	BEAUMONT SCHOOL	THE EFFECT OF CARD COUNTING ON A SIMPLE CARD GAME

## EARTH AND SPACE SCIENCE

FIRST PLACE	SOPHIA	HAMED-RAMOS	MILLER SOUTH	WOULD A VORTEX BE EFFECTED BY TEMPURATURE CHANGE?
SECOND PLACE	REBECCA	VANG	ROSWELL KENT MS	LANDSAT 7'S SURFACE TEMPERATURER ACCURACY COMPARED TO A FLUKE 63 INFRARED TEMPERATURE READER
THIRD PLACE	STUART	DAVIS	ORANGE HS	DESIGN OF AN ASTRONAUT TRANSPORT VEHICLE: MINIMIZING LUNAR DUST

## ENGINEERING

FIRST PLACE	ARIANA	IRANPOUR	HATHAWAY BROWN SCHOOL	COMPARISON OF ELECTRICITY LEVEL FROM IMPULSE AND REACTION STYLE HYDRAULIC TURBINES
SECOND PLACE	ABIGAIL	TANNER	ST. VINCENT - ST. MARY HS	THE CONCENTRATION OF PEO IN PEO/PVA NANOFIBER BLENDS TO OBTAIN A CONSTANT DISSOLUTION RATE OF FLUORESCIN DYE OVER TIME
THIRD PLACE	EMILY	JONES	SOLON MS	WHICH SADDLE PAD MATERIAL WILL KEEP THE HORSE THE COOLEST?

## ENVIRONMENTAL SCIENCE

FIRST PLACE	MITCHELL	PALLAKI	ST RAPHAEL SCHOOL	LET THE SUN SHINE IN
SECOND PLACE	SARAT	TALLAMRAJU	SOLON HS	EXTRACTING WATER FROM THE ATMOSPHERE: A STUDY OF VARIABLES AFFECTING THE PRODUCTION OF DRINKING WATER
THIRD PLACE	GAVIN	MARKOWITZ	MILLER SOUTH	TREE POWER: ARE TREES A USABLE SOURCE OF ELECTRICITY?

## MEDICINE AND HEALTH

FIRST PLACE	WILLIAM	QU	SOLON HS	AGE-DEPENDENT CHROMOSOMAL INSTABILITY OF HEMATOPOIETIC CELLS ASSOCIATED WITH OXIDATIVE STRESS
SECOND PLACE	KAREN	KRUZER	WEST GEAUGA HS	REDUCING TROPONIN TURNAROUND TIME THROUGH THE APPLICATION OF LEAN/SIX SIGMA PROCESSES AND EVALUATING PUBLIC RESPONSE TIME TO HEART ATTACK SYMPTOMS
THIRD PLACE	ANNE	KIM	HUDSON HS	THE APPLICATION OF SELENIUM TO GENERATE SALUBRIOUS EFFECTS ON CANCER PATIENTS
THIRD PLACE	PATRICK	MURPHY	HUDSON HS	THE APPLICATION OF SELENIUM TO GENERATE SALUBRIOUS EFFECTS ON CANCER PATIENTS
THIRD PLACE	JENNIFER	SHANKS	HUDSON HS	THE APPLICATION OF SELENIUM TO GENERATE SALUBRIOUS EFFECTS ON CANCER PATIENTS

## MICROBIOLOGY

FIRST PLACE	ALEXANDRA	WAINWRIGHT	LITCHFIELD MS	BARS, BEAMS, AND BACTERIA: THE ACCUMULATION OF BACTERIA ON GYMNASTICS EQUIPMENT
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## PHYSICS

FIRST PLACE	WILLIAM	JACK	HUDSON HS	EFFECTS OF AN OUTER GRID ON AN INERTIAL ELECTROSTATIC CONFINEMENT FUSION REACTOR
SECOND PLACE	ERIN	SANDRIDGE	SOLON MS	TUBAR MAGNETIC LEVITATION
THIRD PLACE	SHREYAS	TALLAMRAJU	SOLON MS	CATHODE RAYS: THE STUDY OF INTERESTING PROPERTIES OF AN ELECTRON BEAM

## ZOOLOGY

FIRST PLACE	NICOLE	DAVESSAR	INCARNATE WORD ACADEMY	COLOR AND SUGAR CONCENTRATION FEEDING PREFERENCES IN HUMMINGBIRDS
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## POLYMER

FIRST PLACE	RENEE	HORN	ST. VINCENT - ST. MARY HS	WHAT SURFACES DO CARTILAGE CELLS THRIVE UPON?
SECOND PLACE	ANNE	BRENNAN	INCARNATE WORD ACADEMY	REUSABLE SHOPPING BAGS: IS "GOING GREEN" MAKING YOU SICK?
THIRD PLACE	KORAIMA	DENERVILLE	INCARNATE WORD ACADEMY	THE EVOLUTION OF GREEN POWDER PAINT