

# 2011 WRD5 Category Winners

## Behavioral and Social Sciences

FIRST PLACE	Gabriela	Leskur	Beaumont HS	A Rose By Any Other Name
SECOND PLACE	Maria	Ianni	Beaumont HS	Suggestion & Perception
THIRD PLACE	Allison	Melvin	St. Albert the Great	The Stroop Effect

## Biochemistry

FIRST PLACE	William	Qu	Solon HS	Effects of Enhanced Physical Exercise on Hematopoietic Stem Cell Aging
SECOND PLACE	Sarah	Hocevar	Beaumont HS	Perfluorooctanoic Acid Exposure Activates Mouse Pancreatic Acinar Cells
THIRD PLACE	Jonathan	Stone	St. Vincent - St. Mary HS	DNA EXTRACTION AND ANALYSIS OF DORMANT SUGAR MAPLE SEEDS ( <i>Acer saccharum</i> Marsh) Year Three

## Botany

FIRST PLACE	Erin	McNulty	St. Vincent - St. Mary HS	The Effects of Different Cutting Types When Propagating African Violets
SECOND PLACE	Erica	Wolf	St. Vincent - St. Mary HS	Effect of Calcium Chloride on Ryegrass
THIRD PLACE	Meghan	Gorbach	St. Vincent - St. Mary HS	Motor Oil Effects on Abnormal Rootings

## Chemistry

FIRST PLACE	Alex	Pianalto	St. Vincent - St. Mary HS	Fluorescence in Quantum Dot Nanocrystals
SECOND PLACE	Donghan	Kim	Hudson Middle School	T.A.P.E. (Tape Adhesion Peeling Experiment)
SECOND PLACE	Kyunghan	Kim	Hudson Middle School	T.A.P.E. (Tape Adhesion Peeling Experiment)
THIRD PLACE	Andy	Hinton	Perry Middle School	Iodine-Clock Reaction

## Earth and Space Science

FIRST PLACE	Bharath	Katragadda	Solon Middle School	Does Temperature Affect The Electrical Output Of A Fuel Cell?
SECOND PLACE	Gary	Montgomery	Incarnate Word Academy	Solar Storms
THIRD PLACE	Jennifer	Rosenberg	Solon Middle School	Into The Vortex

## Engineering

FIRST PLACE	Vincenzo	Volpe	St. Vincent - St. Mary HS	Mimicking Spider Silk – The Effects of Velocity on the Extraction of Capture Threads in a Polymeric Solution
SECOND PLACE	Trent	Navran	Solon High School	EGFR-targated Gold Nanoparticle Constructs for Cancer Nanomedicine
THIRD PLACE	Ellie	Frey	St. Raphael School	Get Sucked Into Suction Cups

## Environmental Science

FIRST PLACE	Jordan	Brett	St. Dominic	Big Oil for the Big Apple
SECOND PLACE	Mitchell	Pallaki	St. Raphael School	The Best Oil Absorbent Clean-up Analysis
THIRD PLACE	Olivia	Kreft	Solon Middle School	Determining the Best Material to Clean up an Oil Spill

## Mathematics

FIRST PLACE	Anna	Libertin	Beaumont HS	Phi: Music to Our Ears?
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## Medicine and Health

FIRST PLACE	Leat	Perez	Beaumont HS	Killer Immunoglobulin-like Receptors (KIR) Gene Polymorphism and BKV Infection in Post-transplant Kidney and Kidney/Pancreas Recipients
SECOND PLACE	Linda	Muakkassa	St. Hilary School	How Synthetic Dyes Affect Mouse Behavior?
SECOND PLACE	Katie	Shutsa	St. Hilary School	How Synthetic Dyes Affect Mouse Behavior?
THIRD PLACE	Vibhuti	Krishna	Solon High School	Evaluation of Low-dose PGE1 for Management of Ductus-dependent Congenital Heart Disease

## Microbiology

FIRST PLACE	Brianne	Litwinowicz	St. Albert the Great	The Mouth: It's a Jungle in There
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## Physics

FIRST PLACE	William	Jack	Hudson High School	D+D Nuclear Fusion Reactions in an Inertial Electrostatic Confinement Nuclear Fusion Reactor
SECOND PLACE	Alexandra	Wainwright	Litchfield Middle School	Gymnastics and Geometry: The Effect of Height on Rotation Speed in Gymnastics
THIRD PLACE	Ashlee	Jansen	National Inventor Hall of Fame School	Flying Dominoes
THIRD PLACE	Faith	Zager	National Inventor Hall of Fame School	Flying Dominoes

## Zoology

FIRST PLACE	John	Giles	St. Vincent - St. Mary HS	How does motor oil affect reproduction in Daphnia?
SECOND PLACE	Katherine	Engels	St. Vincent - St. Mary HS	The Affect of LED Light on Planaria Regeneration
THIRD PLACE	Sean	Gaffney	St. Vincent - St. Mary HS	The Effects of Sucralose on the Learning and Memory of Planaria

## Polymer

FIRST PLACE	Vincenzo	Volpe	St. Vincent - St. Mary HS	Mimicking Spider Silk – The Effects of Velocity on the Extraction of Capture Threads in a Polymeric Solution
SECOND PLACE	Matt	Schwenning	St. Vincent - St. Mary HS	The Fabrication of Static Mixers for the Creation of Polymer Blends
THIRD PLACE	Gabriella	Wittbrod	St. Joseph School	Polymer Bouncy Balls and their Elastic Properties