

NJRSF REGISTRATION LIST  
for Somerset County (of residence)  
March 22, 2006

David Z. Yang Waksman Institute grade: 11 age: 17  
Hillsborough

advisor: William Sofer (973-445 - 3052)

*The Bioinformatics Approach on Actin Nucleation* yR

The Poster will describe the Actin Nucleation pathways in eukaryotes, and will compare this system in *Caenorhabditis elegans* and *C. remanei*.

Sarah Dolan Immaculata H.S. grade: 10 age: 16  
Branchburg

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Effects of Caffeine on the Growth of African Violets (Santipaulia ionatha)* yR

The purpose of this research was to study the effects of a variety of concentrations of caffeinated water on the growth of African violets

Lauren Mary Naselli Mount Saint Mary Acad. grade: 10 age: 15  
Somerset

advisor: Bethany Little (908-757-0108)

*The Effect of Thigmomorphogenesis on Sweet Pea Plants* yR

In this experiment, I touched sweet pea plants to discover if human contact adversely affects their growth and to test the theory of Thigmomorphogenesis. Some plants were only watered to see if they grew greater than those watered and touched.

Kayla Coady Immaculata H.S. grade: 10 age: 15  
Hillsborough

advisor: Sister Mary Ann Besitka, IHM (908-7220200 X201)

*The Effect of temperature on the Rate of Compost Decomposition and Subsequent Plant Growth* yR

The purpose of this research was to determine if there was an optimal point in time during decomposition when maximum plant growth could be achieved.

Joseph Percoco Immaculata H.S. grade: 10 age: 15  
Hillsborough

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Effects of Heat on Seed germination Times* yR

The purpose of this research was to determine the optimum heating time for several types of string bean seeds in order to find the optimum time for seeds to germinate most efficiently.

Christian Rivera Immaculata H.S. grade: 10 age: 16  
Somerville

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Effects of Microcurrents on Healing Insect Damage on Plants* yR

The purpose of this research was to determine the effects of microcurrents on the healing process of plants

Jennifer Kemper Immaculata H.S. grade: 10 age: 16  
Neshanic Station

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Psychological Effects of Color on Manual Dexterity in Teens* yR

The purpose of this research was to determine if color has an effect on the ability of teenagers to perform a mechanical task.

Emily Kaufman Immaculata H.S. grade: 10 age: 16

Bound Brook

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Effects of Natural Fixatives on the Durability of Natural Dyes*

The purpose of this research was to test the ability of natural fixatives on the permanence of natural dyes after a series of washings and dryings.

Michael Canfield Immaculata H.S. grade: 10 age: 15

Hillsborough

advisor: Sister Mary Ann Besitka, IHM (908-722-0200 X201)

*The Effects of Meteorite Characteristics on the Formation of Craters*

The purpose of this research was to determine the formation of a crater based on mass, volume and momentum of a spherical object.

Patrick Clyne Immaculata H.S. grade: 10 age: 16

Hillsborough

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Effects of Salinity Concentrations on the Viability of Adult Brine Shrimp*

The purpose of this research was to determine the tolerance/viability of brine shrimp in solutions of various salinity

Daniel Zoller Immaculata H.S. grade: 10 age: 16

Bridgewater

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Melting Rates of Recyclable Plastics*

The purpose of this research was to determine which recyclable plastic would melt in the heat of a standard microwave oven and the melting time of each plastic.

Timothy Chu Immaculata H.S. grade: 10 age: 16

Bridgewater

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Impact of Starting Hands on the Outcome of Texas Hold'em*

The purpose of this research was to determine what impact, if any, the initial hands in Texas Hold'em had on the outcome of the game.

James Norman Fisher Immaculata H.S. grade: 10 age: 16

Whitehouse Station

advisor: Sister Mary Ann Besitka, IHM (908-722-0200)

*The Effect of a Baseball Player's Achievements and its Contribution to the Team*

The purpose of this research was to examine the impacts of one baseball player's contributions as seen through his statistics versus his whole team's contributions

Robert Colucci Immaculata H.S. grade: 10 age: 16

Neshanic Station

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*Staining on Human Teeth as a Result of Exposure to Common Beverages*

The purpose of this research was to determine the effects of specific beverages on the staining of human tooth enamel

Araba Amonu Immaculata H.S. grade: 10 age: 15

Somerset

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Physical Characteristics of Pollen Grains that Contribute to Allergic Reactions*

The purpose of this research was to determine which pollen type from a select group of flowers would

cause an allergic reaction based on physical traits

Andrew Tursky Immaculata H.S. grade: 10 age: 16

Hillsborough

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*How Dimple Design Affects Golf Ball Flight*

The purpose of this research was to determine the effects of dimple design on the distance a golf ball travels

Bharath Mohan Delbarton School grade: 12 age: 17

Basking Ridge

advisor: Mr. Devine (973-538-3231)

*Impact of Carbon Nanotubes on the Conductivity of a Non-Conducting Polymer Solution*

Carbon nanotubes were used as conductive fillers that increased the conductivity of a non-conducting polymer solution three orders of magnitude more than a comparable solution with graphite.

Lauren Livak, and Morgan Markowski

Immaculata H.S. grade: 10 age: 15

Hillsborough

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*The Physics of Pirouette and Fouette Turns*

The purpose of this research was to apply different forces and techniques to the pirouette and fouette in order to construct a plan for a perfectly executed turn.

Jennifer Jean Kasbohm Villa Walsh Acad. grade: 9 age: 15

Bridgewater

advisor: Dr. Preethi Thomas (973-538-3680)

*An Investigation into Magnetic Repulsion*

The purpose of my project was to explore the properties of magnetic repulsion, and determine whether those properties could be harnessed to perform useful work.

Anthony Savas Immaculata H.S. grade: 10 age: 16

Bridgewater

advisor: Sister Mary Ann Besitka, IHM (908-722-0200 x201)

*Disruptions in the Circadian Rhythms of Drosophila melanogaster and the Effect on Lifespan*

The purpose of this research was to determine if disruptions in the circadian rhythms of fruitflies would alter the lifespans of the flies

Christopher Altonji Immaculata H.S. grade: 10 age: 15

Branchburg

advisor: Sister Mary Ann Besitka, IHM (908-722-0200x201)

*Variations in Bird Landing Gaits*

The purpose of this research was to determine the frequency with which finches approach a landing platform using a specific pattern or gait