2016 Project List

Category	Title of Project
Biology/Chemistry	The Prevalence of Clostridium difficile in the stool of farm animals in South Central Wisconsin
Biology/Chemistry	Food Coloring: Does it Help Bacterial Growth
Biology/Chemistry	Isolation and Characterization of Bacteriophages Effective at Killing Enterococcus Faecalis
Biology/Chemistry	The Effect of Natural and Artificial Sweeteners on Growth of the Probiotics
Biology/Chemistry	Development of a Computational Method for Rapid Identification of Organic Molecules for Solar Cells
Biology/Chemistry	Auto-Oxidation Rates of NADH when Exposed to Different Environments
Biology/Chemistry	This is Bucket Chemistry! Making and Testing Biodiesel
Biology/Chemistry	Antibiotic Resistance in Our Current Environment
Biology/Chemistry	Metals & Bacteria
Biology/Chemistry	How Bubbles Indicate the Levels of Purity
Biology/Chemistry	Dye Concentration
Environmental Sciences	Optimizing Detergents: The Effects of Diethyl-Phthalate on the Environment
Environmental Sciences	A Device to Alter the Adverse Effects of Methylmercury in Rivers
Environmental Sciences	Suburban Soil Health: a Pilot Study
Environmental Sciences	Stopping the Spread of Aquatic Invasive Species
Environmental Sciences	Urbanization's Impact on the Health and Development of Worms
Environmental Sciences	Alternate Treatment to Scale Pests on Jasmine Plants Using Environmentally Safe Methods
Engineering/Math/Computer Science	Improving Winter Road Conditions Using Electromagnetic Induction
Engineering/Math/Computer Science	Invasive Species Boat Wash
Engineering/Math/Computer Science	Endurance, Rise Performance, and Durability on Roller Coaster Wheels
Engineering/Math/Computer Science	Optical Character Algorithms: Reading, Playing, and Converting Music to Braille
Engineering/Math/Computer Science	Classification of Cosmic-Ray Particle Events Using a Machine Learning Program
Engineering/Math/Computer Science	Program-Based Interpretation of Electrocardiograms to Diagnose Cardiac Conditions
Engineering/Math/Computer Science	Locating Cloud Data Centers Using Genetic Algorithms
Engineering/Math/Computer Science	Galaxy Clusters, Filling in the Gaps with New Discoveries
Engineering/Math/Computer Science	How to Get the Best Performance Out of Your Ion Ray
Medicine/Health/Behavioral Science	Brain Gene Expression Patterns in Response to Hedonic Binge Eating in Rats by qPCR
Medicine/Health/Behavioral Science	Relieving Arthritis in the Hands
Medicine/Health/Behavioral Science	The Effect of mTBI History on the Severity and Longevity of Symptoms
Medicine/Health/Behavioral Science	The Effects of Hypothermia Treatment on Patients with Cardiac Arrest
Medicine/Health/Behavioral Science	Next Generation Surgical Tool using Three-Dimensional (3D) Printing for Cerebral Aneurysm Treatment
Medicine/Health/Behavioral Science	Chemotherapeutic Induced Cellular Death (Apoptosis/Necrosis) Inhibition Through Telomerase Modulation
Medicine/Health/Behavioral Science	Solutions on Bacterial Accumulation Rates in Simulated Contact Lenses
Medicine/Health/Behavioral Science	The Effect of Age and Gender on Executive Functioning Over Time in Children Following Treatment for a Brain Tumor

Medicine/Health/Behavioral Science	Does Fear Change within Gender?

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