



MRSEC

Materials Research Science and Engineering Center

A Collaborative Endeavor by The National Science Foundation, The University of Maryland and Colleagues in Industry, Education and Federal Laboratories

14th Annual Student Science Conference

May 26, 2011

How does Air Work?

M. Winston

Mentor: Dr. John Weeks, *Distinguished University Professor*

The Tsunami Solution

A. Rivers

Mentor: Dr. Lourdes Salamanca-Riba, *Professor*

Facing Angle vs. Efficiency of Solar Cell

A. Truong

Mentor: Qian Shao, *Graduate Student*

Creating a P-N Junction Semiconductor Solar Cell

L. Klett

Mentor: Alexandra Curtin, *Graduate Student*

Effect of Weight Distribution on Distance

B. Davis

Mentor: Rick Remsing, *Graduate Student*

Static Electricity Storage in a Leyden Jar

K. Canoy-Weller

Mentor: Jack Hellerstedt, *Graduate Student*

Safe Attractors: Using Gravity Tractors to Avoid Asteroid Collisions

B. Verschell

Mentor: Dr. Diego Gonzalez Cabrera, *Research Associate*

Effect of Light Bulb Materials on Bulb Performance

T. Awosika & T. Harvey

Mentor: Dr. Bill Cullen, *Associate Research Scientist*

Effect of Fan Outlet Size on the Speed of a Hovercraft

V. Yetley

Mentor: Paul Syers, *Graduate Student*

The Effect of CpG Methylation on a Plant's Embryogenesis

D. Zhao

Mentor: Micah Hawkins, *Graduate Student*

Self-Parking Car

A. Yetley

Mentor: Dr. Andrei Sushkov, *Research Associate*

The Effect of Magnesium on the Hill Reaction of Photosynthesis

S. Wagner

Mentor: Shudong Xiao, *Graduate Student*

Effect of Material Compositions on Polymerization Reaction of Polyurethane

M. Ojetola

Mentor: Dr. Alex Prasertchoung, *Assistant E.O. Director*

Accelerating Rust

A. Gomes

Mentor: Dr. Farah Dawood, *Faculty Research Assistant*

Electrolysis with Different Electrodes.

E. Guthrie

Mentor: Shule Liu, *Graduate Student*