The following are the results of the 2008 Michigan Science Fair held April 5, 2008 at Kettering University in Flint, Michigan. The Science Fair was the 14th Annual Michigan Science Fair with 60 students participating from the state. Four students won 4 year scholarships toward Kettering University, a total value of \$80,000. The scholarships are payable at \$5,000 per year for four years for each of the recipients.

Kettering University Scholarships

The following students will receive \$20,000 scholarships for Kettering University, payable as \$5,000 per year for four years.

Brittany Stone, David McMillon, Thomas Thompson, and Rahul Pandey

GRAND AWARD

The following Grand Award winners receive a plaque, a \$200 US Savings Bond and an all-expense paid trip to Atlanta, GA (May 11-16, 2008) where they will compete in the International Science and Engineering Fair.

David McMillon

Project: Optimizing the Accuracy of an Innovative Universal Positioning System

Category: Earth & Space Science

Grade: 12

School: Saginaw Arts & Science Academy

Teacher: John Barnes

Rahul Pandey

Project: A 3-D Lens with Alternative Unit Cell Design for Negative Refractive

Index Category: Physics

Grade: 11

School: Stoney Creek High School

Teacher: David Thompson

GRAND AWARD ALTERNATES SELECTED

The following students have been promoted to Grand Award Status by their local, regional Science Fairs due to the elevation of their student winners to Grand Award Status for the State competition. The following students will attend the International Science & Engineering Fair in Atlanta, GA (May 11-16, 2008) and represent their local,

regional Science Fair.and an all-expense paid trip to Atlanta, GA (May 11-16, 2008) where they will compete in the International Science and Engineering Fair.

Hari Arul (Detroit Regional Fair)

Project: Synthesis of Silver Nanoparticle-Enabled Polymeric Membranes for

Biofouling Mitigation

Category: Environmental Science

Grade: 12

School: Detroit Country Day Upper

Teacher: Gene Menton

Nolan Ford (Saginaw Regional Fair)

Project: Using AlamaBlue for an Assessment of ORP of EGCG in a Culture Model

of HD

Category: Biochemistry

Grade: 12

School: Saginaw Arts Science Academy

Teacher: Matt Miller

FIRST PLACE

The following First Place winners receive a \$200 US Savings Bond and a plaque.

Brittany Stone

Project: The Relationship Between Nutrients in Feed and Strength of Eggshells

Category: Zoology Grade: 12

School: Whiteford Agricultural School

Teacher: Janet Weygand

Shubhangi Arora

Project: Effects of Antibacterial Agents on Bacterial Resistance

Category: Microbiology

Grade: 9

School: Novi Senior High School

Teacher: Kristen Shupick

SECOND PLACE

The following Second Place winners receive a \$100 US Savings Bond and a plaque.

Joanne Christy

Project: A Novel Approach to SPF Determination of Sunscreens

Category: Chemistry

Grade: 9

School: Powers Catholic High School

Teacher: Dan Duncan

Cody Campbell

Project: Got Gas--Again

Category: Environmental Sciences

Grade: 11

School: Imlay City high School

Teacher: Paul Druker

Thomas Thompson

Project: The Effects of Autoencoders on Unlabeled Data for Pattern Recognition

Category: Computer Science

Grade: 11

School: Huron High School

Teacher: Dee Drake

Kevin Shih

Project: IgG Antibody-Attached TiO2 Nanotubes for Targeted Drug Delivery

Category: Medicine & Health

Grade: 11

School: International Academy

Teacher: David Lyons

THIRD PLACE

The following Third Place winners receive a \$75 US Savings Bond and a plaque.

Kuan Ting Chen

Project: Evaluation of Laser Display Projector

Category: Engineering

Grade: 11

School: Cranbrook Kingswood Upper School

Teacher: John Joseph Winter

Dalton Allan

Project: An Analysis of Error in Rational Approximations

Category: Mathematics

Grade: 9

School: Saginaw Arts Science Academy

Teacher: Stephen Tack

Christen Robinson

Project: Carbon Dioxide Filtration Caustic Hydroxides and Solid Absorption

Process

Category: Engineering

Grade: 12

School: Saginaw Arts Science Academy

Teacher: Dan Sealey

Jahanavi Ramakrishna

Project: The Effect of Attentional Load on Reaction Times

Category: Behavioral Sciences

Grade: 10

School: Detroit Country Day Upper

Teacher: Gene Menton

Hyunje Cho

Project: Effects of Mercury Exposure on Experimental Autoimmune

Encephalomyelitis (EAE)

Category: Medicine & Health

Grade: 12

School: Grosse Pointe South High

Teacher: James Adams

Helen Yang

Project: Using Arugula to Manage the Northern Root-knot Nematode in Variable

Soil Types

Category: Environmental Science

Grade: 12

School: Troy High School Teacher: Rebecca Johns

FOURTH PLACE

The following Fourth Place winners receive a \$50 US Savings Bond and a plaque.

Charles Zhang

Project: Development of a vibration energy harvesting device

Category: Engineering

Grade: 11

School: Rochester Adams High School

Teacher: Christine Deyo

Giacomo Bologna

Project: Hull Design's Effect of the Efficiency of Displacement Boats

Category: Engineering

Grade: 10

School: Divine Child High School

Teacher: Steven Dickie

Zeinab Hachem

Project: The potential Fertilizer Effect on the Detroit River: Year 2

Category: Botany Grade: 12

School: Dearborn Center for Math, Science & Technology

Teacher: Karen Pikula

Ashwaty Chennat

Project: Is dance really a stress reliever?

Category: Physics Grade: 10

School: Huron High School

Teacher: Dee Drake

Joseph Goetz

Project: The effects of compost on Soil's Characteristics

Category: Environmental Science

Grade: 12

School: Blissfield High School

Teacher: Laurie Isley

Ayse Hiriroglu

Project: Electrical Breakdown of Vegetable Oil as an Insulating Material

Category: Engineering

Grade: 10

School: Carman Ainsworth High School

Teacher: Mrs. Lotfi

Crystal Zhang

Project: Bacterial polymerase drives RNA synthesis by reading smooth DNA

template tract

Category: Microbiology

Grade: 11

School: Troy Athens High School

Teacher: Rachel Peterson