

The following are the results of the 2010 Michigan Science Fair held April 10, 2010 at Kettering University in Flint, Michigan. The Science Fair was the 16thth Annual Michigan Science Fair with 57 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. REVISED 4/12/2010

Kettering University Scholarships

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

Alexandriya M Emonds, Disha Bora, Norman L. Jin, and Kelsey A Blicharz

GRAND AWARD

The following Grand Award winners receive a certificate, medal and an all-expense paid trip to San Jose, CA (May 9-15, 2010) where they will compete in the International Science and Engineering Fair.

DMontae Jones

Project: Helius: A Solar-Tracking Mechanism for Efficiency Max. Of Photovoltaic Modules
Category: Engineering
Grade: 12
School: Saginaw Arts & Science Academy
Teacher: John Barnes

Sherwin Wu

Project: GCNT2 Gene Expression Influences Breast Cancer Metastasis and Promotes an EMT
Category: Medicine & Health
Grade: 12
School: Detroit Country Day Upper High School
Teacher: Gene Menton

FIRST PLACE

The following First Place winners receive a certificate and a \$150 US Savings Bond

Shubhangi Arora

Project: Multidrug Resistance: C. albicans Gene IPT1 Affects Gene Expression
Category: Microbiology
Grade: 11
School: Novi Senior High School
Teacher: Emily Pohlonski

Nicole Smith

Project: Researching a Relevant Remedy to Repair Riparian Residences
Category: Environmental Science
Grade: 12
School: Saginaw Arts & Science Academy
Teacher: Matthew Miller

SECOND PLACE

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

Kevin Wang

Project: Finding Efficient Shellsort Sequences Using Genetic Algorithms
Category: Computer Science
Grade: 12
School: Birmingham Groves High School
Teacher: Marla Fallucca

Andrew Riopelle Tyrrell

Project: Theory of Reciprocity on Donor Behavior
Category: Behavioral and Social Sciences
Grade: 11
School: Detroit Country Day Upper
Teacher: John Dougherty

Noah Gagnon

Project: Solar Sails: Which Design is Best?
Category: Physics
Grade: 12
School: Seton Home School
Teacher: Thomas Gagnon

Dan Dou

Project: Inhibition of tumor cell growth with capsaicin in hot peppers
Category: Medicine and Health
Grade: 11

School: Grosse Pointe South High
Teacher: James Adams

THIRD PLACE

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

Kathie Chuang

Project: Optimal Deicer Combination for Performance, Cost and Environmental Impact
Category: Environmental Science
Grade: 9
School: Detroit Country Day Upper
Teacher: Gene Menton

Shirley Wu

Project: Proteasome Inhibition and Apoptosis by DSF-analogue #39 in MDA-MB-231 cells
Category: Medicine & Health
Grade: 10
School: Detroit Country Day Upper
Teacher: Gene Menton

Mariam Mohamed

Project: Stimulating Protein Synthesis Using Java Applets
Category: Computer Science
Grade: 12
School: Dearborn Center for Math, Science & Technology
Teacher: Kim Shawver

Ebere Oparaeke

Project: Don't Sweat the Small Stuff
Category: Microbiology
Grade: 10
School: Divine Child High School
Teacher: Marketa Harvey

Matthew Bauerle

Project: Optimizing the Deflation Strategy of a Divide and Conquer Eigensolver
Category: Computer Science
Grade: 10
School: Bauerle Home School
Teacher: Mary Bauerle

Sidharth Chand

Project: Heavy Metal Veggies: The Effect of Soil pH on the Phytoaccumulation of Lead
Category: Environmental Science
Grade: 9
School: Detroit Country Day Upper High School
Teacher: Gillian VonSeeger

Disha Bora

Project: Dendrimer-Dexamethasone Conjugates/Nanodevices for Targeted Delivery
Category: Medicine & Health
Grade: 11
School: Detroit Country Day Upper High School
Teacher: Gene Menton

Anriana Zardus

Project: Preference of Facial Symmetry
Category: Behavioral and Social Sciences
Grade: 10
School: Divine Child High School
Teacher: Kathy Higgins-Luthman

FOURTH PLACE

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

Preeti Gupta

Project: Identifying Biophysical Properties of Iron Sulfur Cluster Assembly Proteins
Category: Biochemistry
Grade: 11
School: International Academy
Teacher: Megan Phillips

Shan Kothari

Project: Mitochondrial DNA Phylogeny of the Family Alligatoridae
Category: Zoology
Grade: 12
School: Plymouth High School
Teacher: Cheri Steckel

Bronna Gurevich

Project: The Electrical Influence on the Cultivation of Seeds and Growth of Oats
Category: Botany
Grade: 11
School: Cranbrook Kingswood Upper School
Teacher: Greg Miller

Hannah Cheriyan

Project: To Eat or Not To Eat? Detecting Free Radical and Antioxidant Levels in Foods
Category: Chemistry
Grade: 11
School: Detroit Country Day Upper School
Teacher: Gene Menton

Lilia Bouzit

Project: Does exposure to different climates affect the pH of a body of water?
Category: Environmental Science
Grade: 10
School: Huron High School
Teacher: Dee Drake

Christine Auzier

Project: A Magnetic Linear Accelerator Made from Magnets and Steel Balls
Category: Physics
Grade: 1
School: Homeschool
Teacher: Home School

Magda Hlavacek

Project: CACT and VNTR: Is There a Linkage
Category: Biochemistry
Grade: 9
School: Saginaw Arts and Sciences Academy
Teacher: Matthew Miller

Alexander Zuelke

Project: Testing the Structural Integrity of Concrete Using Alternate Methods of Reinfo
Category: Engineering
Grade: 12
School: Whiteford Agricultural Schools
Teacher: Janet Weygand

Sachin Padmanabhan

Project: Effect of Car Design Parameters in Protection of Passengers in Car Crashes

Category: Physics
Grade: 10
School: Novi Senior High School
Teacher: James Didio
