

The 57th Science & Engineering Fair of Metropolitan Detroit (SEFMD) was held today, March 12, 2014 at Cobo Center. Over 1,600 students from schools in Wayne, Oakland and Macomb counties competed at SEFMD, one of the longest running and largest science fairs in the world. The Senior Grand Award winners will compete at the Michigan Science Fair on April 5 at Kettering University, and at the International Science Fair May 11-16 in Los Angeles, California.

****** REVISED **** 4/13/2014**

2014 Senior Division ISEF Finalists

Andrew Lekarczyk with Sam Ilkka

Project: The Utilization of Bioluminescence for the Diagnosis of AD & Related Tauopathies
Category: Biochemistry (Team)
Grade: 11
School: University of Detroit Jesuit High School
Teacher: Priscilla Oshikiri

Nadim Bari

Project: Enhancing Target Efficiency of a Laser By the Integration of a Stabilization S
Category: Engineering
Grade: 12
School: Cass Technical High School
Teacher: Nathaniel Lewis

Madhurima Das

Project: Cancerous Tumor Identification from MRI Image Analysis
Category: Mathematics
Grade: 12
School: Plymouth High School
Teacher: Karen Ludema

Vipul Nandigala (Upgraded to Michigan Science Fair Winner on 4/5/2014)

Project: An Application of Dean's Flow in Spiral Micro Channels for Particle Separation
Category: Physics
Grade: 11
School: Walled Lake Western High
Teacher: Thomas Saloka

Michael Shao

Project: Toward Understanding the Neural Circuitry Regulating Cold Sensation in *C. eleg*
Category: Zoology
Grade: 11
School: Detroit Country Day Upper
Teacher: Gene Menton

Daniel Jin

Project: Electronic Anti-Counterfeit Protection Using a Pseudorandom Binary Sequence
Category: Engineering
Grade: 11
School: Rochester Adams High School
Teacher: Eric Lohr

Anirudh Sridhar

Project: Increased Efficiency in Tip-Enhanced Raman Spectroscopy (TERS)
Category: Physics
Grade: 12
School: International Academy-East Campus
Teacher: David Lyons

Mahata Vavilala (Previously was 1st alternate – elevated to Grand Award winner on 4/5/2014 due to Vipul Nandgila winning Grand Award at State Fair Competition)

Project: Assessment of AZ31 for Biodegradable Stent Applications
Category: Engineering
Grade: 11
School: Novi Senior High School
Teacher: James Didio

2014 Junior Division Grand Awards

Hiba Huseini, with Eman Azrak and Danya Obeid

Project: Shark Shock
Category: Team Project
Grade: 8
School: Huda School & Montessori
Teacher: David Egan

Arushi Arora

Project: Colloidal Silver to the Rescue!
Category: Microbiology
Grade: 8
School: Novi Middle School
Teacher: Greg Durham

Avery Burch

Project: The Mathematics in Tsunami
Category: Mathematics
Grade: 6
School: Ann Arbor Trail Magnet School
Teacher: Valerie Booker-Bryant

Kaliyah Gunter

Project: Birds and Color Configuration
Category: Behavioral/Social Sciences
Grade: 6
School: Paul Robeson Malcolm X Academy
Teacher: Rosemary Amene

Jayna Jones

Project: Potatoes, Kale and Beets: A Recipe for Winter Roads
Category: Chemistry
Grade: 7
School: Thurgood Marshall Elementary

Teacher: Krystal Bolar

Eivette Martinez

Project: Using Daphnia to Monitor Water Toxicity
Category: Environmental Sciences
Grade: 7
School: Gompers Elementary-Middle
Teacher: Derek Sale

Matthew Milez

Project: Soundproofing
Category: Physics
Grade: 6
School: Macomb Math, Science and Technology Center - Middle School
Teacher: Tari Michaelson

Mitchell Morris

Project: The Effect of Buildings on GPS Accuracy
Category: Engineering
Grade: 7
School: Our Lady of Good Counsel Middle School
Teacher: Terry Zimmerman

Ryan Thomas

Project: Hydraulic Fracturing and the Potential Effect on Water Aquifers
Category: Earth and Space Sciences
Grade: 8
School: Ivan Ludington Magnet Middle
Teacher: Denise Wallace Hytower