**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.**

**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**

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

**Omkar Shende**

Project: A Novel Method of Enhancing Thermopower in Bulk Engineered Semiconductors

Category: Engineering

Grade: 12

School: Troy High School

Teacher: Rebecca Brewer

**Anirudh Sridhar**

Project: Increased Efficiency in Tip-Enhanced Raman Spectroscopy (TERS)

Category: Physics

Grade: 12

School: International Academy-East Campus

Teacher: David Lyons

**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/SocialSciences

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