

The 60th Science & Engineering Fair of Metropolitan Detroit (SEFMD) was held today, March 15, 2017 at Cobo Center. 2,001 students from 142 schools in Wayne, Oakland, Macomb, Washtenaw, Lenawee, Livingston and Monroe 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 state Science Fair on April 1 at the Kettering University in Flint, Michigan and at the International Science Fair May 14-19 in Los Angeles, California.

2017 Junior Division Grand Award Winners

Adnan Khan

Project: Dangers of EMF
Category: Biomedical & Health Sciences
Grade: 6
School: Huda School & Montessori
Teacher: Mona Helmy

Vihaar Nandigala

Project: Simulation of Genes and Population Growth
Category: Computational Biology & Bioinformatics
Grade: 8
School: Home School Nandigala
Teacher: Usha Nandigala

Anisa Pharr

Project: It's All In the Grind
Category: Chemistry
Grade: 7
School: Gompers Elementary-Middle School
Teacher: Melissa Goins

Hans Lindor

Project: Orange Juice vs. Sport Drinks
Category: Energy: Chemical
Grade: 6
School: Douglass Academy for Young Men Middle School
Teacher: Sheryl Evans

Amira Rasul

Project: Generating Electricity from Fruits
Category: Energy: Physical
Grade: 6
School: Paul Robeson Malcolm X Academy
Teacher: Rosemary Amene

Zaire Harps

Project: Using Paint Additives to Increase Your Home's Energy Efficiency
Category: Material Science
Grade: 7
School: Ellington Conservatory of Music & Art at Beckham Academy
Teacher: Krystal Bolar

Ryan Luke

Project: Picking a Pumpkin Preserver
Category: Microbiology
Grade: 7
School: St. Patrick Elementary
Teacher: Jennifer Sanderson

Saipranav Janyavula

Project: Are Nutrition Labels on Drinks Accurate?
Category: Physics & Astronomy
Grade: 8
School: Novi Middle School
Teacher: Kim Osmonson

Akshara Karthik with Priya Shah

Project: The Vital Vitamin C
Category: Team
Grade: 7
School: Orchard Lake Middle School
Teacher: Andrea Williams

2017 Senior Division ISEF Finalists

Neha Seshadri

Project: A Novel Application of Microfluidic Assay to Evaluate the Role of Calponin in Platelet Function and Clot Formation
Category: Biomedical & Health Sciences
Grade: 11
School: Skyline High School
Teacher: Teresa Schneider

Madeleine Yang

Project: High-Dimensional Single-Cell Cytometry Analysis of Cancer Stemness
Category: Biomedical Engineering
Grade: 10
School: Detroit Country Day Upper
Teacher: Ross Arseneau

Marlies Michielssen with Shrikant Chand

Project: A Novel Zwitterionic Superparamagnetic Iron Oxide Nanoparticle Synthesis
Category: Chemistry
Grade: 12
School: Washtenaw International High School
Teacher: Alyson Thompson

Rashad Prendergast

Project: Impact of Road Salt Usage on Atmosphere Concentrations of Cl and Na PM_{2.5}
Category: Earth & Environmental Sciences
Grade: 12
School: Cass Technical High School
Teacher: Sonya Ross

Malini Mukherji

Project: Determining Light-Source Location Using Machine Learning and Solar Cells
Category: Energy: Chemical
Grade: 11
School: Notre Dame Prep. High School
Teacher: Jocelynn Yaroeh

Richard Yang

Project: Optimization of Electro Pulsing on 3Y-TZP Ceramic Water Filter Sintering
Category: Material Science
Grade: 11
School: Troy High School
Teacher: Rebecca Brewer

Varun Sathyan

Project: Cloud-Based Data Preparation for Medical Observational Research
Category: System Software
Grade: 12
School: Troy Athens High School
Teacher: Rachel Peterson