

The 59th Science & Engineering Fair of Metropolitan Detroit (SEFMD) was held today, March 9, 2016 at Cobo Center. 1,149 students from 110 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 state Science Fair on April 9 at the Kettering University in Flint, Michigan and at the International Science Fair May 8-13 in Phoenix, Arizona.

2016 Senior Division ISEF Finalists

Shrikant Chand

Project: Novel Ultrastable Fluorescent PCB-DSPE Encapsulated Quantum Dot Synthesis
Category: Chemistry
Grade: 10
School: Detroit Country Day Upper
Teacher: Riccardo Di Pasquo

Alden Kane

Project: Wheelchair-Stroller: A Solution to Infant Transportation for Wheelchair-Users
Category: Engineering Mechanics
Grade: 12
School: University of Detroit Jesuit High School
Teacher: Dominic Coccitti-Smith

Amy Li

Project: Development of Cobalt Recovery Process from Waste Lithium-Ion Batteries
Category: Chemistry
Grade: 12
School: Troy High School
Teacher: Rebecca Brewer

Malini Mukherji

Project: Dye-Sensitized Solar Cells
Category: Energy: Chemical
Grade: 10
School: Indus Center for Academic Excellence High School
Teacher: Rahul Mital

Varun Sathyan

Project: SPARQL Query Generation and Semantic Similarity for Medical RDF Databases
Category: System Software
Grade: 11
School: Troy Athens High School
Teacher: Rachel Peterson

Darrell Tubbs

Project: Investigation of Nanoparticle Size to Optimize SERS Substrates for Aerosol Par
Category: Earth & Environmental Sciences
Grade: 12
School: Cass Technical High School
Teacher: Sonya Ross

Jonathan Ni with Elien Michielssen and Marlies Michielssen

Project: Effectiveness of Wastewater Treatment Plants at Removing Microplastics
Category: Environmental Engineering – Team
Grade: 12
School: Detroit Country Day Upper
Teacher: John Dougherty

2016 Junior Division

Hera Akmal

Project: Benchmarking the Performance of Cloud Computing Instances
Category: System Software
Grade: 7
School: Noor International Academy
Teacher: Kayla Myers

Kailah Collins

Project: How Much Do You Use?
Category: Behavioral & Social Sciences
Grade: 6
School: Gompers Elementary-Middle School
Teacher: Derek Sale

Ashley Fan

Project: Temperaure's Effect on Catalase
Category: Biochemistry
Grade: 8
School: Novi Middle School
Teacher: Nicole Stusick

Dangalese Johnson

Project: Health Alternatives

Category: Biomedical & Health Sciences
Grade: 8
School: Ann Arbor Trail Magnet School
Teacher: Valerie Booker-Bryant

Rohit Mital

Project: Mathematical Science + Java Programming = Melodious Music
Category: Mathematics
Grade: 8
School: Indus Center for Academic Excellence-Middle School
Teacher: Allan Zhao

Maya Odom

Project: Get the Lead Out: An Environment Water Quality Study of Michigan's Water
Category: Earth & Environmental Sciences
Grade: 8
School: Edward Duke Ellington Elementary-Middle School at Beckham
Teacher: Krystal Bolar

Isabella Slifko

Project: What is the Effect of Hydrogen Peroxide on the Germination of a Seed?
Category: Plant Sciences
Grade: 7
School: St. Patrick Elementary School
Teacher: Jennifer Sanderson

Dejanina Thomas

Project: Rusty Nail
Category: Chemistry
Grade: 6
School: Fisher Magnet Upper Academy
Teacher: Susan Morandy

Faiqa Alam with Zobia Wasiullah and Sana Ishaqsei

Project: The Flint Water Crisis: Corrosion of Confidence
Category: Team
Grade: 8
School: Huda School & Montessori
Teacher: David Egan