

The 53rd Science & Engineering Fair of Metropolitan Detroit (SEFMD) was held today, March 17, 2010 at Cobo Center. Approximately 1,200 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 10 at Kettering University and at the International Science Fair May 9-14 in San Jose, California.

This year, for the first time, there was a tie for Senior Division team projects. Consequently, both team projects received Grand awards.

2010 Senior Division ISEF Finalists

Peter N Gardner

Project: The Impact of Soil Thermal Diffusivity Fluctuation on Geothermal Heating
Category: Environmental Sciences
Grade: 12
School: Dearborn Center for Math, Science & Tech
Teacher: Kim Shawver

Siddhartha G Jena

Project: High Cholesterol Impairs Water and Gas Transport in Red Blood Cells
Category: Medical and Health
Grade: 10
School: International Academy
Teacher: Chrystal Osinski

Norman L Jin

Project: High Efficiency High Power Factor Electric Vehicle Battery Charger
Category: Environmental Sciences
Grade: 11
School: Notre Dame Prep. High School
Teacher: Michelle Garcia

Nithya P Vijayakumar

Project: Characterizing Novel Loci Important for Demyelinating Peripheral Neuropathy
Category: Biochemistry
Grade: 11
School: Detroit Country Day Upper
Teacher: Gene Menton

Kevin Wang

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

Frank W Woo, Tammy Hsia

Project: Effect of Diff. Velocities and Diff. Hair Lengths on Drag Force of Model Head
Category: Team Project
Grade: 11
School: Macomb Math Science Tech Center
Teacher: Mark Supal

Michael C Yurko

Project: A Parallel Computational Framework for Solving Quadratic Assignment Problems E
Category: Computer Science
Grade: 12
School: Detroit Catholic Central High
Teacher: Alan Barker

Stephen J Morrison, Laree Gardner and Genevieve Wong

Project: H alpha [OIII] Photometry of Galactic Plane Candidate Planetary Nebulae
Category: Team Project
Grade: 11
School: Grosse Pointe North High and Grosse Pointe South High
Teacher: Ardis Herrold

Frank W Woo and Tammy Hsia

Project: Effect of Diff. Velocities and Diff. Hair Lengths on Drag Force of Model Head
Category: Team Project
Grade: 11
School: Macomb Math Science Tech Center
Teacher: Mark Supal

2010 Junior Division Grand Awards

Eesh Dadheech

Project: Green Energy Solution For The Future!
Category: Environmental Sciences

Grade: 8
School: Detroit Country Day Middle
Teacher: Susan Janiczek

Teonna L Evans

Project: The Effect of Ethanol on the Heart Rate of Daphnia
Category: Zoology
Grade: 7
School: Brenda M Scott Middle School
Teacher: Susan Clark

Aaron Harris

Project: The effect of Pterocarpus Marsupium on GAD negative type-1 diabetics
Category: Biochemistry
Grade: 8
School: Friends School of Detroit
Teacher: Edwin Harris

LaNae T Heard

Project: Racing For A Cure
Category: Medical and Health
Grade: 6
School: Clippert Academy Middle School
Teacher: George Goff

Xandria D Mitchell

Project: Electrolyte challenge orange juice versus energy drink and sports drink
Category: Chemistry
Grade: 7
School: William Howard Taft Middle School
Teacher: Rosemary Amene

Asseel Shammakh with Taziah Miah and Jenny Ghose

Project: Edible Electricity
Category: Team Project
Grade: 7
School: Kosciuszko Middle School
Teacher: Eva Klikovac

Daniel Vaughn

Project: Science
Category: Behavioral & Social Science
Grade: 8

School: Hally Magnet Middle School
Teacher: Krystal Bolar