The 51st Science & Engineering Fair of Metropolitan Detroit (SEFMD) was held today, March 12, 2008 at Cobo Center. More than 1,400 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, Flint, Michigan and at the International Science Fair May 11-17 in Atlanta, Georgia. (revised 3/14/08)

2008 Senior Division ISEF Finalists

Harrison Nguyen

Project: Combating Muscle Atrophy: A Novel Study of Myofibril Turnover in S. macrurus

Category: Biochemistry

Grade: 12

School: Detroit Catholic Central High

Teacher: Alan Barker

Kevin Shih

Project: IgG Antibody-Attached TiO₂ Nanotubes for Targeted Drug Delivery

Category: Medicine

Grade: 11

School: International Academy

Teacher: David Lyons

Shravani Mikkilineni

Project: Continued Fractions and Orbits of a Linear Fractional Transformation

Category: Mathematics

Grade: 12

School: Detroit Country Day Upper

Teacher: Gene Menton

Helen Yang

Project: Using Arugula to Manage the Northern Root-knot Nematode in Variable Soil Types

Category: Environmental Science

Grade: 12

School: Troy High School Teacher: Rebecca Johns

Rahul K. Pandey

Project: A 3-D Lens with Alternative Unit Cell Design for Negative Refractive Index

Category: Physics Grade: 11

School: Stoney Creek High School

Teacher: David Thomson

Crystal Zhang

Project: Bacterial Polymerase Drives RNA Synthesis by Reading Smooth DNA Template Tract

Category: Microbiology

Grade: 11

School: Troy Athens High School

Teacher: Rachel Peterson

Kuan Ting Chen

Project: Evaluation on Laser Display Projector

Category: Engineering

Grade: 11

School: Cranbrook Kingswood Upper School

Teacher: John Joseph Winter

Kyle A. Kandilian

Project: The Best Bug Barrier

Category: Zoology Grade: 10

School: Divine Child High School

Teacher: Marcia Reetz

Justin D. Vail, Michael Newton

Project: Putting Perfection Category: Team Project

Grade: 12

School: Macomb Math Science Tech Center

Teacher: Mark Supal

2008 Junior Division Grand Awards

Denzel Hobdy

Project: The Effect of Fabric Type on Ignition Time and Burn Rate

Category: Chemistry

Grade: 7

School: Dixon Middle School Teacher: Candice Weaver

Ariel Jordan

Project: Hydrogen Peroxide Effect on Plant Cuttings and Seed Germination

Category: Botany

Grade: 7

School: Faith Christian Academy

Teacher: Julie Marchlewicz

Lateisha Knott

Project: Ice Ice Baby Category: Earth and Space

Grade: 8

School: Halley Magnet Middle School

Teacher: Krystal Bolar

Jane E. Modes

Project: Toothbrush-ology Category: Medicine and Health

Grade: 7

School: St. Michael Elementary - Livonia

Teacher: Kate Harding

Thamar T. Neal

Project: Voltage Flow in Fruits

Category: Physics

Grade: 8

School: William Howard Taft Middle School

Teacher: Rosemary Amene

Destiny D. Norwood

Project: How is Daphnia's Heart Rate Affected by Various Pain Relievers?

Category: Microbiology

Grade: 8

School: Brenda M Scott Middle School

Teacher: Denise Hafner

Sergio Troiani

Project: Which Type of Insulation Works Best?

Category: Engineering

Grade: 8

School: Our Lady of Good Counsel Elementary

Teacher: Mary Beth Nicholas

Bryan Zazaian, Donovan Moore, Matthew Eleweke

Project: Roller Coaster Thrills

Category: Team Project

Grade: 8

School: University of Detroit Jesuit

Teacher: Wesley Hardin

Catherine Buchanan

Project: Separation of Linked Genes in Fruit Flies

Category: Zoology

Grade: 8

School: St. Anne Elementary

Teacher: Linda Foeller