

2005 Winners of the Alabama State Science Fair in Optics

The awards were generously provided by the Optical Society of America (OSA). Ted Mooney and Tommy Cantey were the judges responsible for evaluating the merit and application of optics in the science fair entries. The following awards were presented to three recipients for the most outstanding projects in optics or optics related project. Others awards for SPIE and APS are listed below as well and awarded by Don Gregory, Jessica Korman, Elizabeth Tanner and Dennis Morell.

HEOS Awards

First Prize (\$150 and OSA goodie bag)

– **Robert Campbell**

“Refractometry”,

11th Grade Murphy High School,
Sponsor Wanda Griffis, Mobile.

Second Prize (\$100) - Mingwei Gu

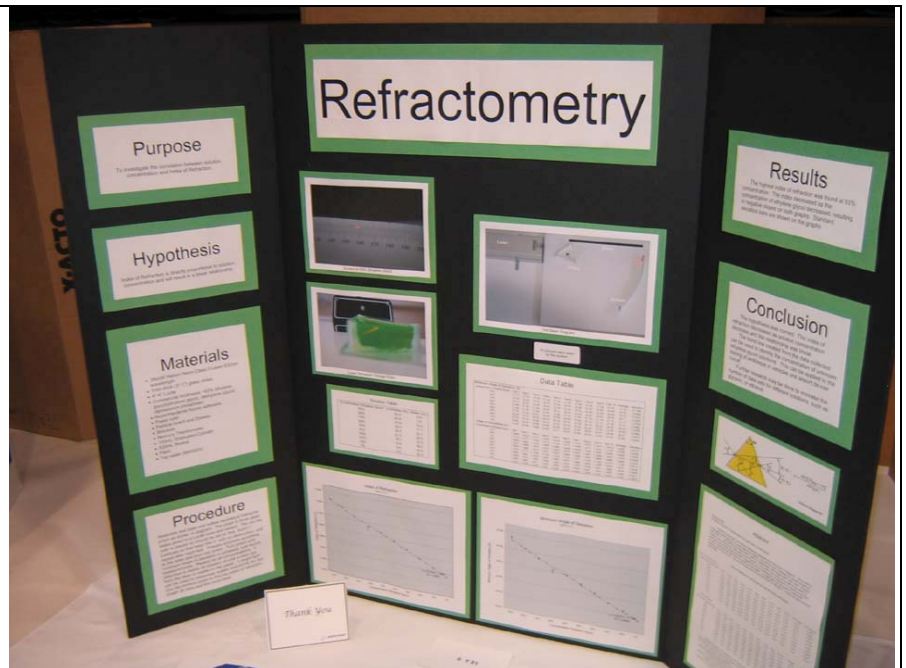
“Silver nanoparticle coatings prepared by thermal decomposition of PVP/Ag”,

11th Grade Hoover High School, Hoover.

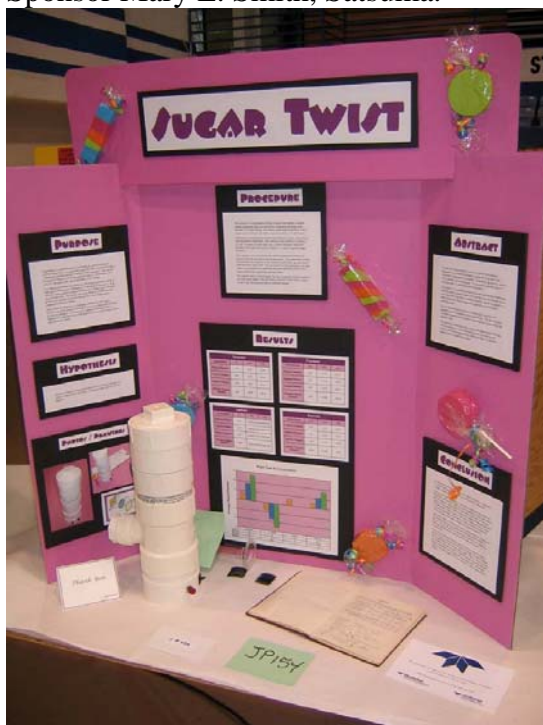
Third Prize (\$50) – Courtney Weaver

“Sugar Twist – A study of the optical activity of various sugars”,

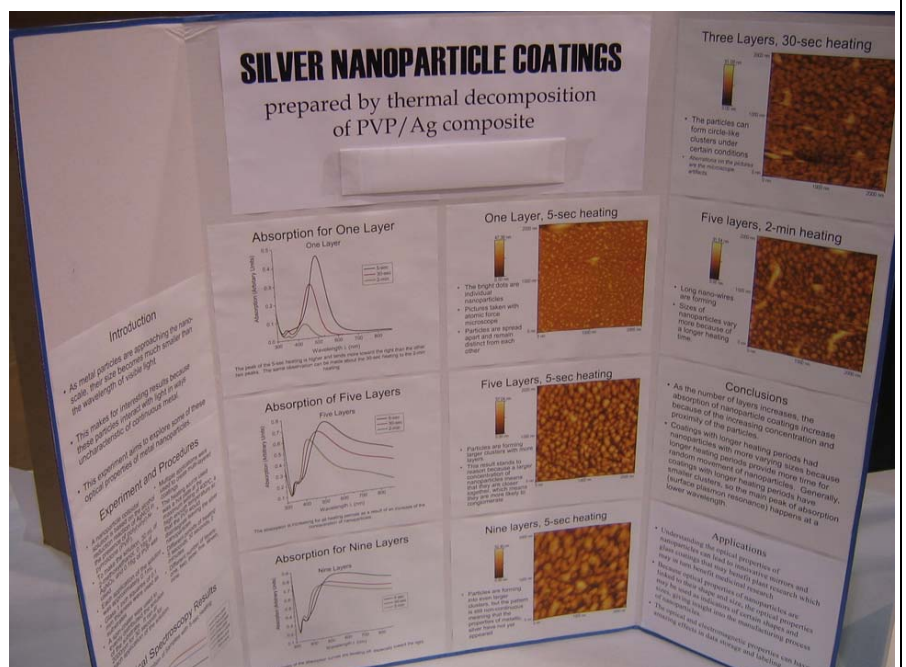
7th Grade Clark School of Mathematics,
Sponsor Mary E. Smith, Satsuma.



Refractometry of Ethyl Glycol



Polarimetry of Sugars



Silver Nanoparticles

SPIE Awards

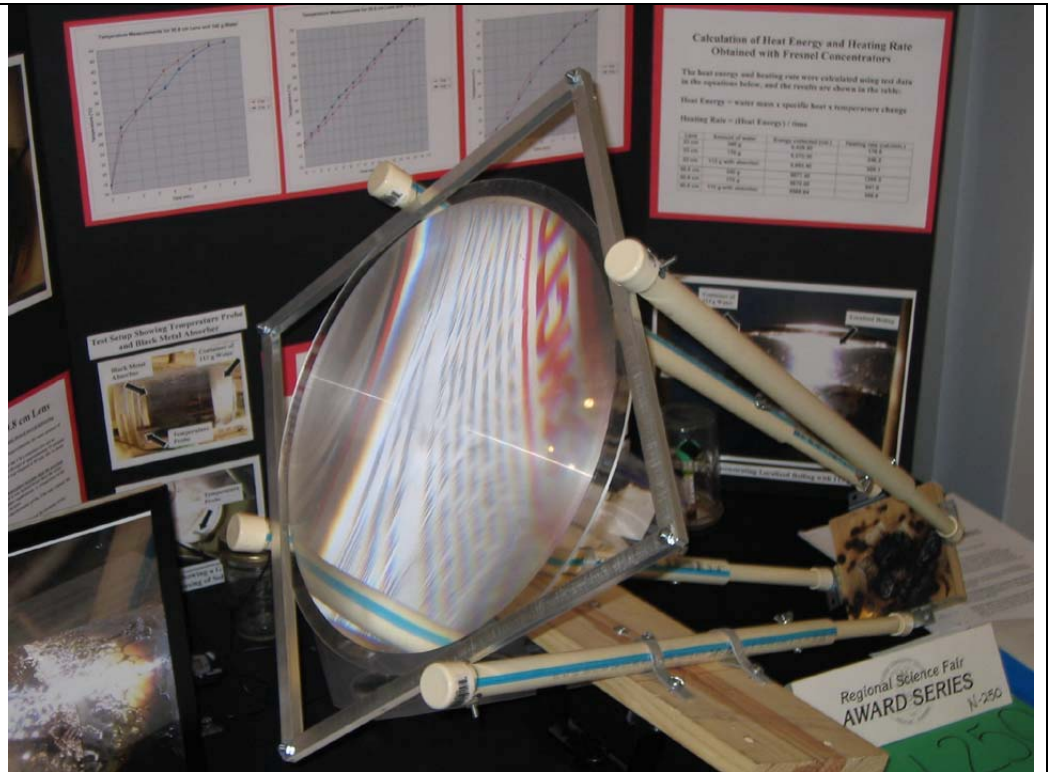
First Prize

- Mingwei Gu

“Silver nanoparticle coatings prepared by thermal decomposition of PVP/AG”,
11th Grade Hoover High School, Hoover.

Third Prize (\$50) – Nathan Tinker

“Burn Baby Brun: Using Fresnel concentrators for space power and propulsion”,
8th Grade Covenant Christian Academy,
Sponsor Rhonda Lisauckis, Huntsville.



Fresnel Lens Project

APS Awards

First Prize

– Joshua Kalin

“A non-intrusive investigation of a simulated ball lightning phenomena”,
12th Grade Catholic High School,
Sponsor Brian Finzel, Huntsville.



Simulated Ball Lightning

