

21 March 2018

**2018 North Alabama Regional Science and Engineering Fair
Special Awards in Optics and Photonics**

The Huntsville Electro-Optical Society (HEOS) was able to award over \$1000 in scholarships at the 64th North Alabama Regional Science and Engineering Fair (NARSEF) for Special Awards in optics and photonics related projects. The award funding was generously provided by SPIE, NASA, and HEOS. HEOS would like to thank all the volunteer judges for taking the time out of their schedules to participate in this event. The volunteer judges for this year were:

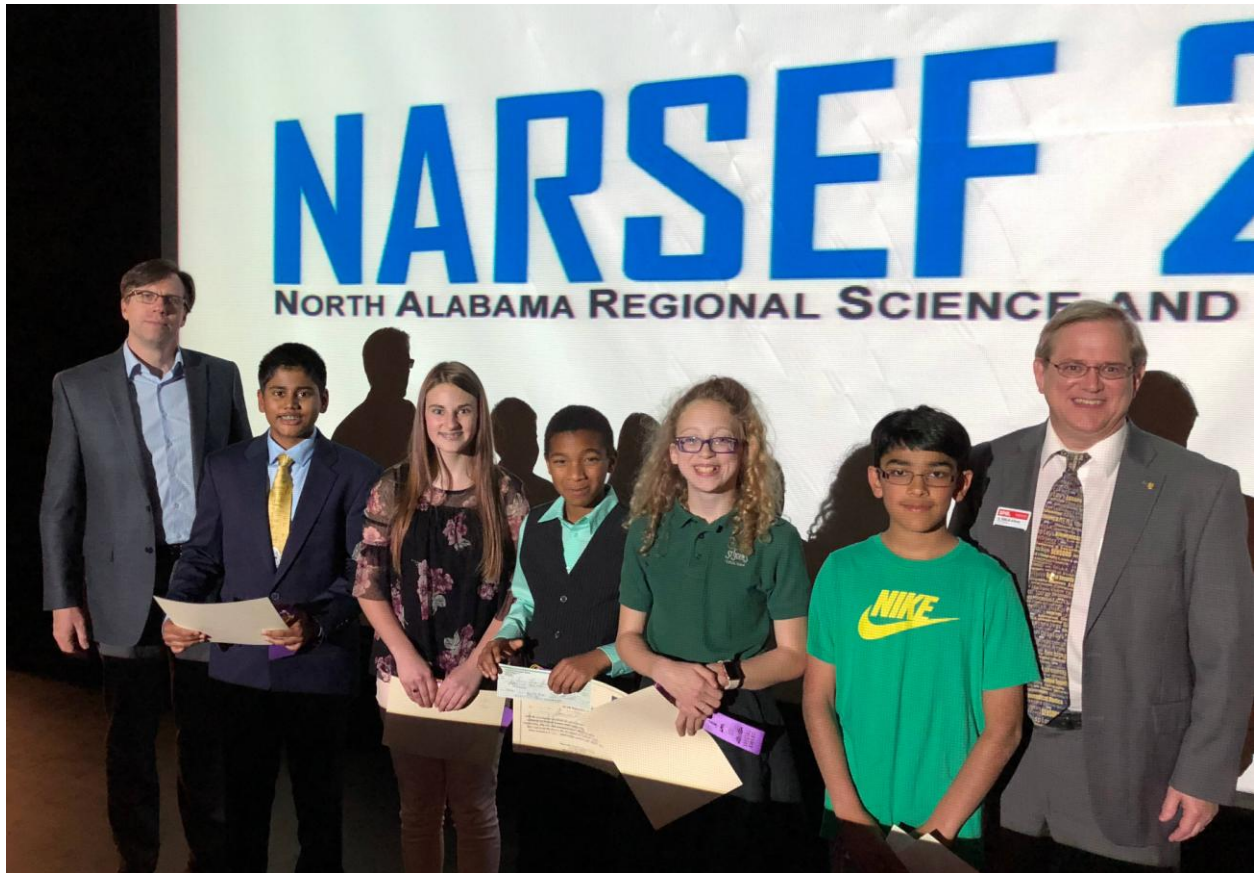
Phil Stahl – NASA MSFC

Tommy Cantey – K Sciences

These judges were responsible for evaluating the merit and application of optics in the science fair entries. All winners received SPIE or HEOS certificates and award scholarships. HEOS is greatly appreciative of the opportunity to help inspire the nation's future scientists and engineers. HEOS is about community and our optics community only works with continued dedication and participation of our membership.



Recipients from SPIE Awards (Senior)



Recipients from HEOS and NASA Optics Awards (Junior and Elementary)

SPIE Awards

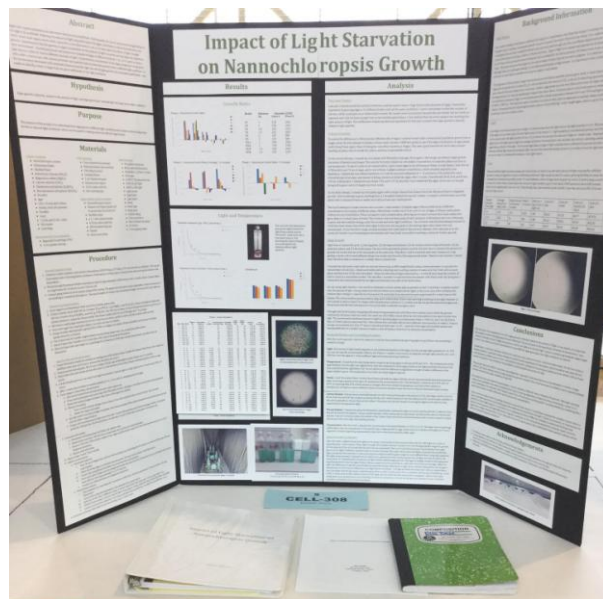
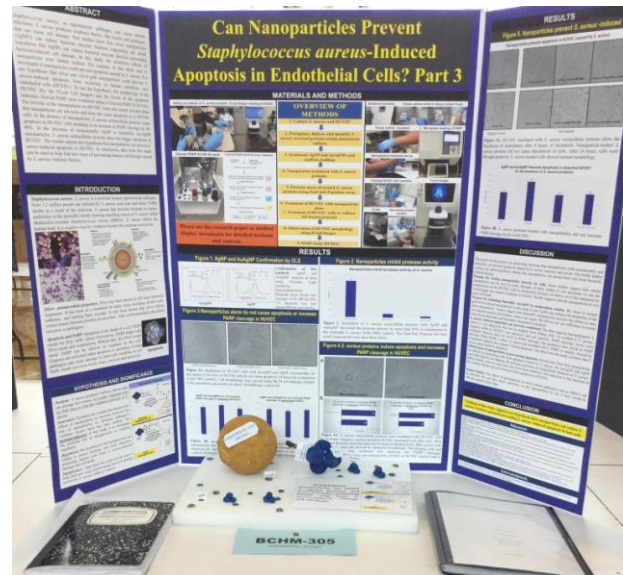
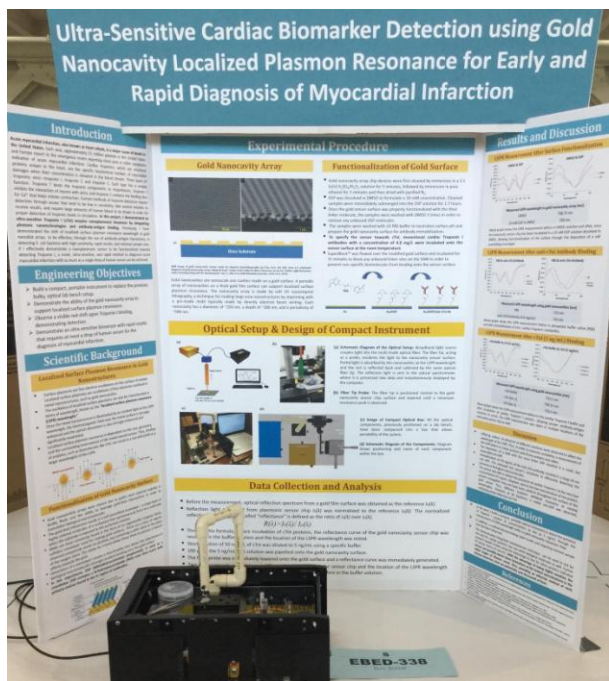
Senior Division Awards

First Prize (\$250) – Sophie Joy Guo, “Ultra-sensitive Cardiac Biomarker Detection using Gold Nanocavity Localized Plasmon Resonance for Rapid Diagnosis of Myocardial Infarction” 12th grade, James Clemens High School, Madison
Sponsor Carol Bohatch (EBED-338)

Second Prize (\$150) – Jayden Vanterpool, “Can nanoparticles prevent Staphylococcus aureus-induced apoptosis in endothelial cells? Part 3”
9th grade, Oakwood Adventist Academy, Huntsville, Sponsor Nanetta Presley (BCHM-305)

Third Prize (\$100) – Alexa Kloske, “Impact of Light Starvation on Nannochloropsis Growth”
10th grade, Pope John Paul II High School, Madison
Sponsor Brian Finzel (CELL-308)

SPIE.



HEOS Awards

Junior Division Awards

First Prize (\$150) – Ashwin Prabhakar,

"Synthetic Enhancement of Photosynthesis"

7th grade, Discovery Middle School, Sponsor William Smith (BCHM-120)

Second Prize (\$100) – Anna Bekah Cress, “Fiber Optic Communications”

7th grade, Libertas Classical, Huntsville Sponsor Glynessa Cress (PHYS-240)

Honorable Mention Prize (\$50) – Javon Zion Jennings, “4.5 Billion Meets the 21st Century: Harnessing Solar Energy with Modern Technology”

6th grade, Key Destiny Academy, Huntsville Sponsor Keelan Jennings (ENMC-205)

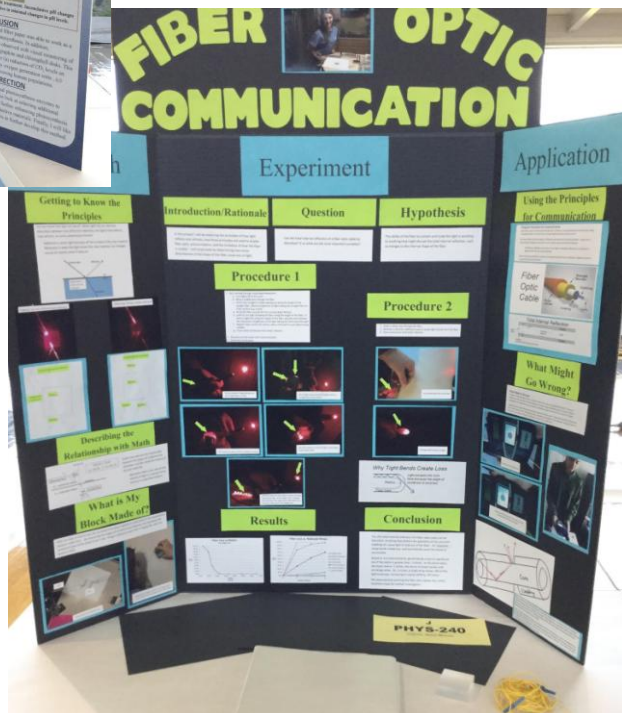
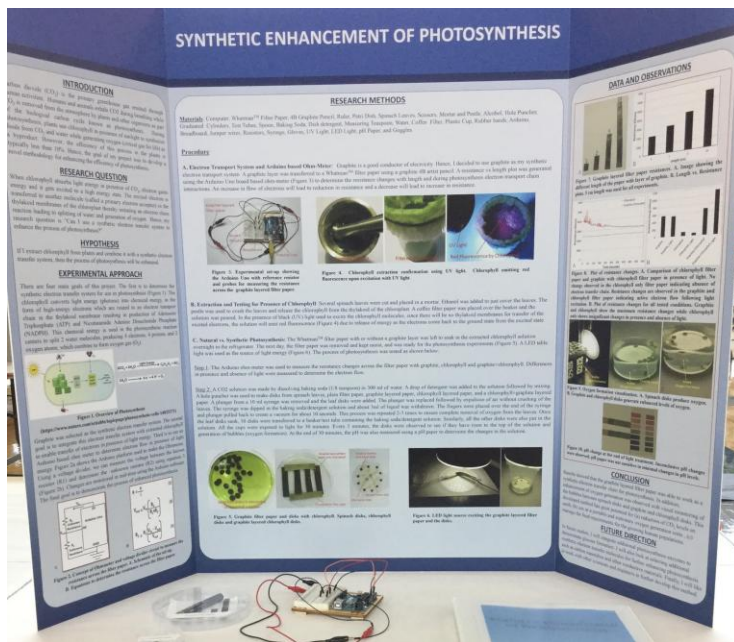
Honorable Mention Prize (\$50) – Evelyn Grace Detwiler,

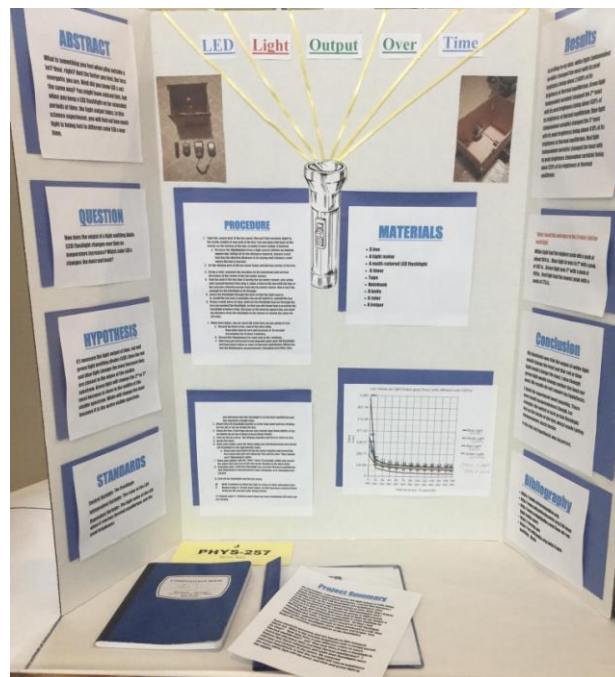
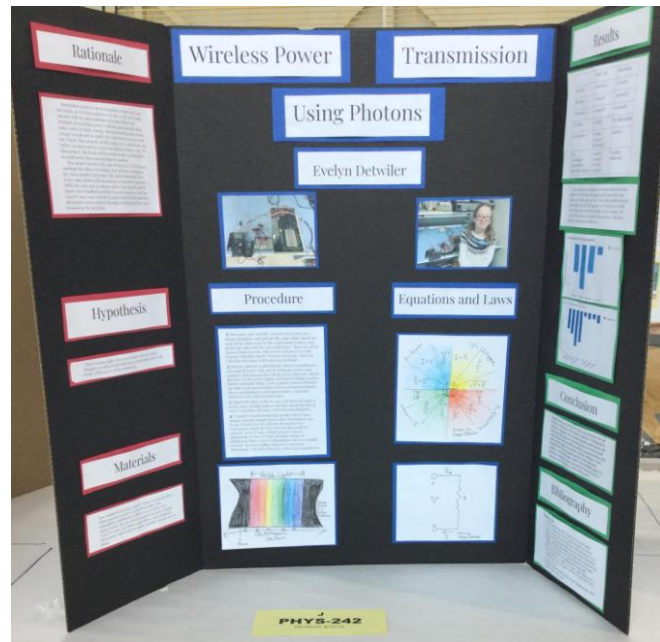
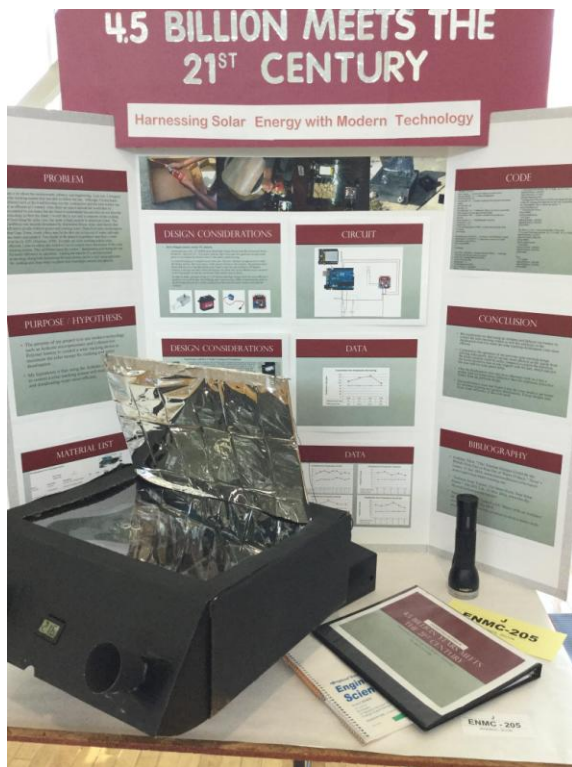
"Wireless Power Transmission Using Photons"

7th grade, St. John's Catholic School, Madison Sponsor Jennifer Dieselberg (PHYS-253)

Honorable Mention Prize (\$50) – Neil Sethi, “LED Light Output Over Time”

6th grade, Columbia Elementary School, Sponsor Diana Blackwood (PHYS-257)





NASA Awards

Elementary Division Awards

First Prize (\$75) – Jack Gregory Revera, “Tracking Asteroids”

5th grade, Horizon Elementary School, Sponsor Tesa Hernandez (PHYS-063)

Second Prize (\$50) – Urvi Mysore and Bronwyn Paribelle Sanders

“Sneaky Figures”

5th grade, Heritage Elementary School, Sponsor Michelle Schmitt (ENMC-044)

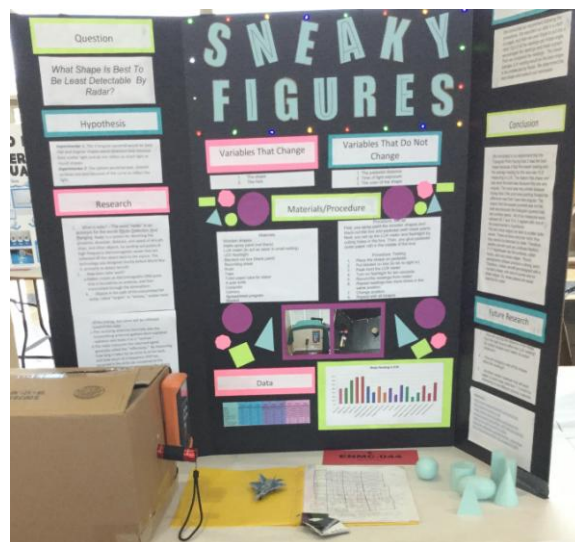
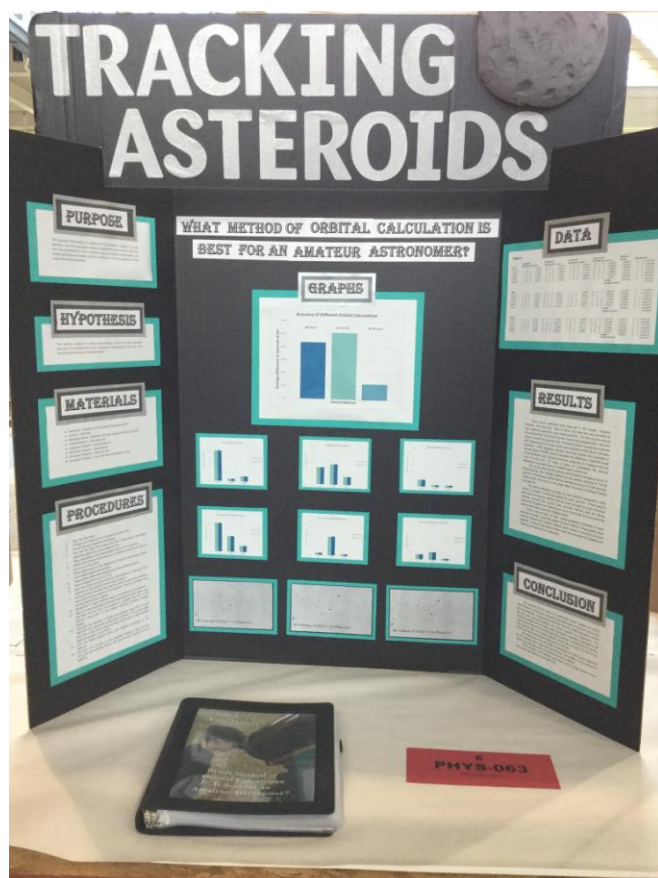
Honorable Mention Prize (\$25) – Patrick Bruce, “The Effects of Polarized Filters”

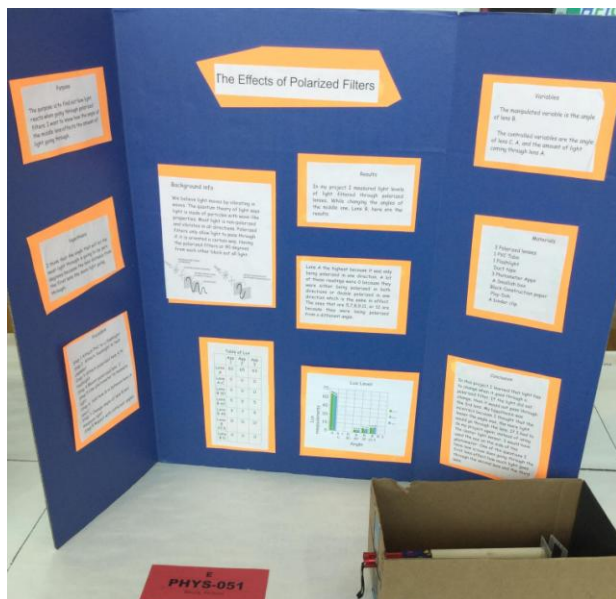
5th grade, Horizon Elementary School, Sponsor Elizabeth Bero (PHYS-051)

Honorable Mention Prize (\$25) – Makaila Simone Jennings,

“The Shadow Effect: Discovering Other Worlds”

5th grade, Key Destiny Academy, Huntsville Sponsor Keelan Jennings (PHYS-055)





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