

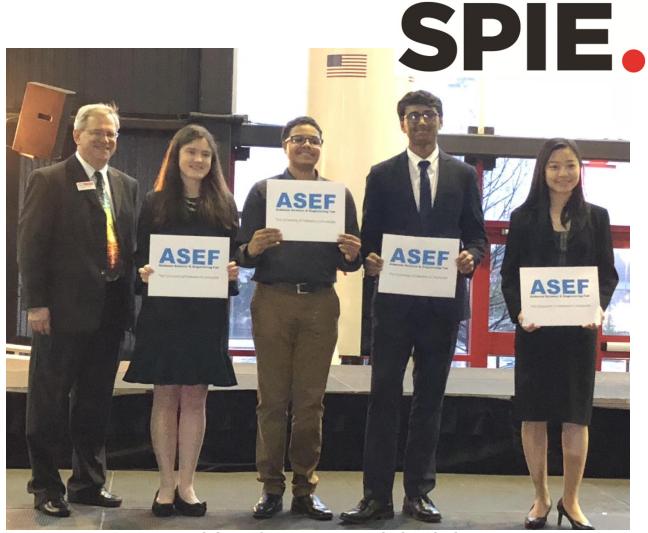
6 April 2018

2018 Alabama Science and Engineering Fair (ASEF) Special Awards in Optics and Photonics

The Huntsville Electro-Optical Society (HEOS) was able to award over \$800 in scholarships at the 2018 Alabama Science and Engineering Fair (ASEF) 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 photonics 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)

SPIE Awards

Senior Division Awards

First Prize (\$250) - Sophie Guo

"Ultra-Sensitive Cardiac Biomarker Detection using Gold Nanocavity Localized Plasmon Resonance for Early and Rapid Diagnosis of Myocardial Infarction"

12th grade, James Clemens High School, Madison Sponsor Carol Bohatch (ESSS-332)

Second Prize (\$150) – Mary Alice Jouve, "Kepler-Keck, Double-Check: Confirming Kepler Exoplanet Candidates using Keck Radial Velocity Data"

11th grade, McGill-Toolen Catholic High School Sponsor Adrian O'Keefe (PH-361)

Third Prize (\$100) - Aniket Pant

"Optical Studies of Nanostructures for Biosensing Applications"

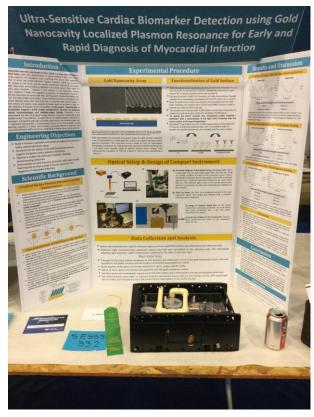
10th grade, Jefferson County International Baccalaureate High School Sponsor Kelly Breland (CH-277)

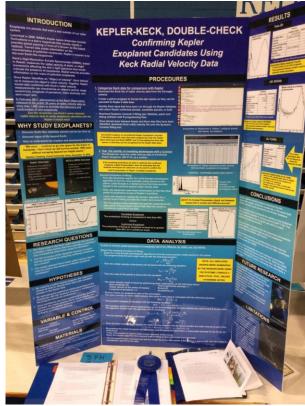
Honorable Mention Prize (\$50) – John Dennis, "A Novel Robotic Fire Extinguishing Device Utilizing Machine Vision for Flame Detection"

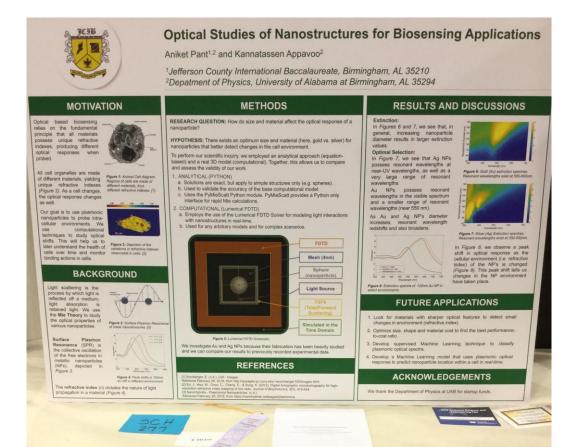
12th grade, Wetumpka High School Sponsor Virginia Vilardi (RI-380)

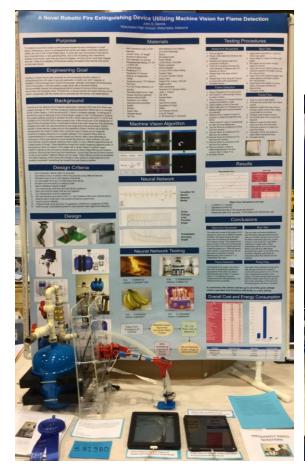
Honorable Mention Prize (\$50) – Jayden Vanterpool, "Can Nanoparticles Prevent Staphylococcus Aureus Induced Apoptosis in Endothelial Cells? Part 3"

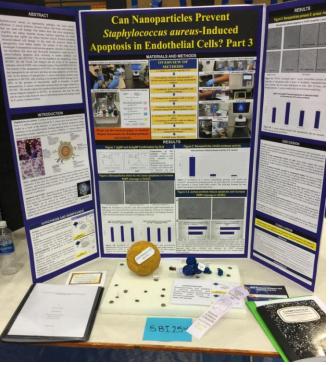
9th grade, Oakwood Adventist Academy Sponsor Nanetta Pressley (BI-254)











HEOS Awards



Recipients from HEOS and NASA Optics Awards (Junior)

Junior Division Awards

First Prize (\$150) – Ashwin Prabhakar,

"Synthetic Enhancement of Photosynthesis"

7th grade, Discovery Middle School, Sponsor William Smith (E-67)

Second Prize (\$100) - Jack Revera, "Tracking Asteriods"

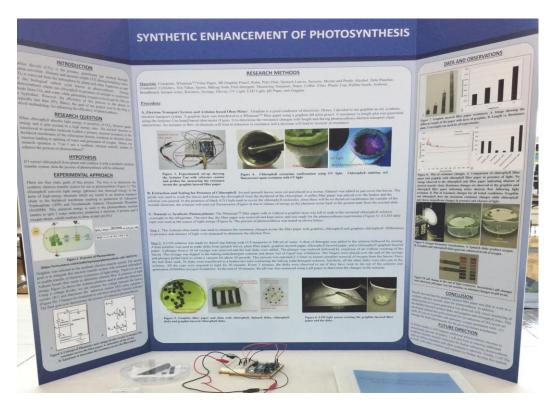
5th grade, Horizon Elementary School, Sponsor Elizabeth Bero (Z-147)

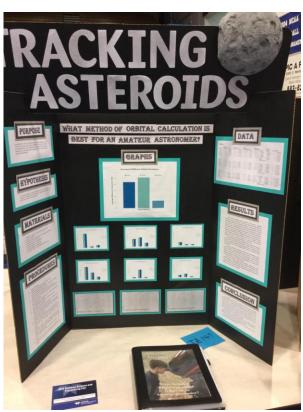
Third Prize (\$50) - William Tomlinson, "Get Your Fill"

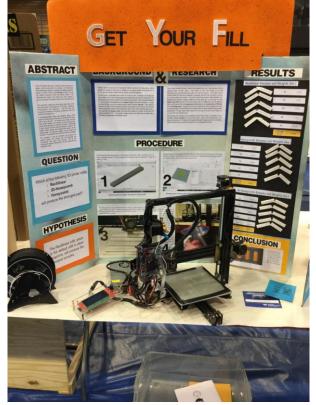
8th grade, St. Joseph Regional Catholic School, Sponsor Rita Magrini (N-114)

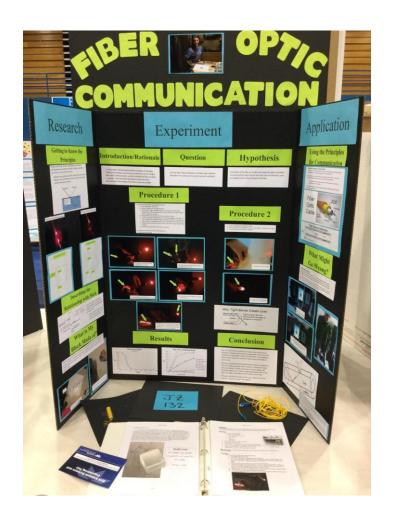
Honorable Mention Prize (\$50) – AnnaBekah Cress "Fiber Optic Communications"

7th grade, Libertas, Sponsor Jared Cress (Z-132)









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