

4 April 2014

2014 Alabama Science and Engineering Fair (ASEF) Special Awards in Optics and Photonics

The Huntsville Electro-Optical Society (HEOS) was able to award over \$1375 in scholarships at the 2014 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:

Bill Decker – Defense Acquisition University
Randy Crouse – Jenoptik Optical Systems
Tommy Cantey – Optical Sciences Corporation
Ron Eng – NASA MSFC
Phil Stahl – NASA MSFC and SPIE President

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.

SPIE Awards

Senior Division Awards

First Prize (\$250) – Joseph Lee

“The Development of a Novel, Low Cost, High Power, Tunable UV Supercontinuum Laser Source”

11th grade, Saint Peter's Academy, Huntsville
Sponsor Kevin Nishimuta (PH-560)

Second Prize (\$150) – Sean Benson

“More Than a Feeling - A 3D Haptic Vest for the Visually Impaired”

11th grade, Satsuma High School (CS-350)

Third Prize (\$100) – Timothy Brown and Gilchrist Grady

“Taking Solar Collectors for a Spin: Comparison of Tessellated Parabolic Collectors with Spun Resin Parabolic Collector”

9th grade, Life Christian Academy, Toney
Sponsor Lynne Johnson (ET-381)

Junior Division Awards

First Prize (\$150) – Therese Michelle Breithaupt

“Harvesting Solar Energy with Arduino”

7th grade, St. John's Catholic School, Madison, Sponsor Ronald Shepard (EV-199)

Second Prize (\$100) – Christopher Wright

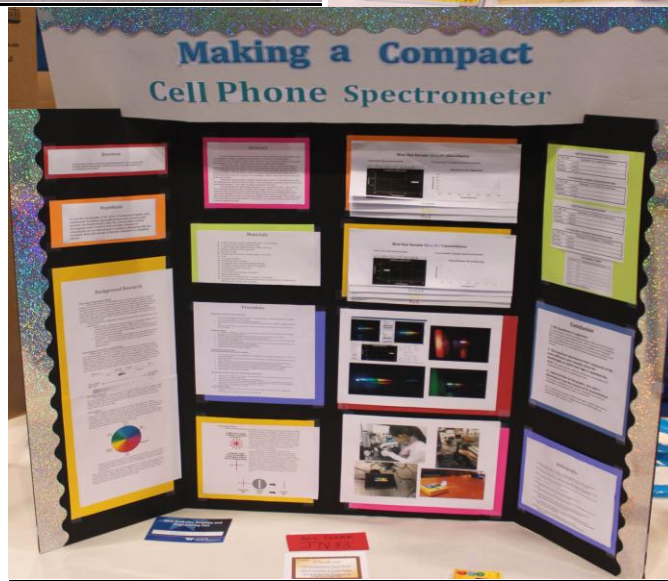
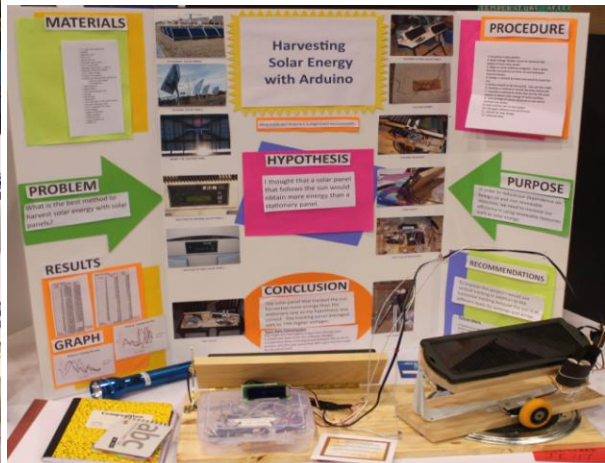
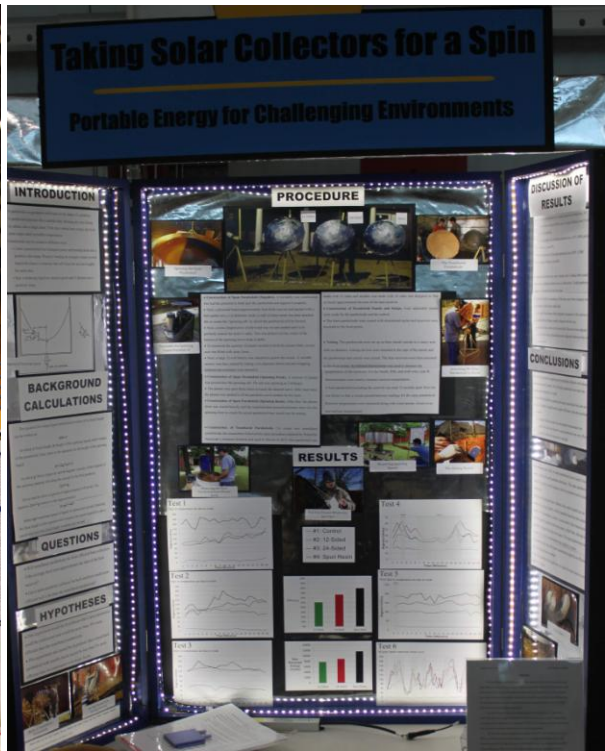
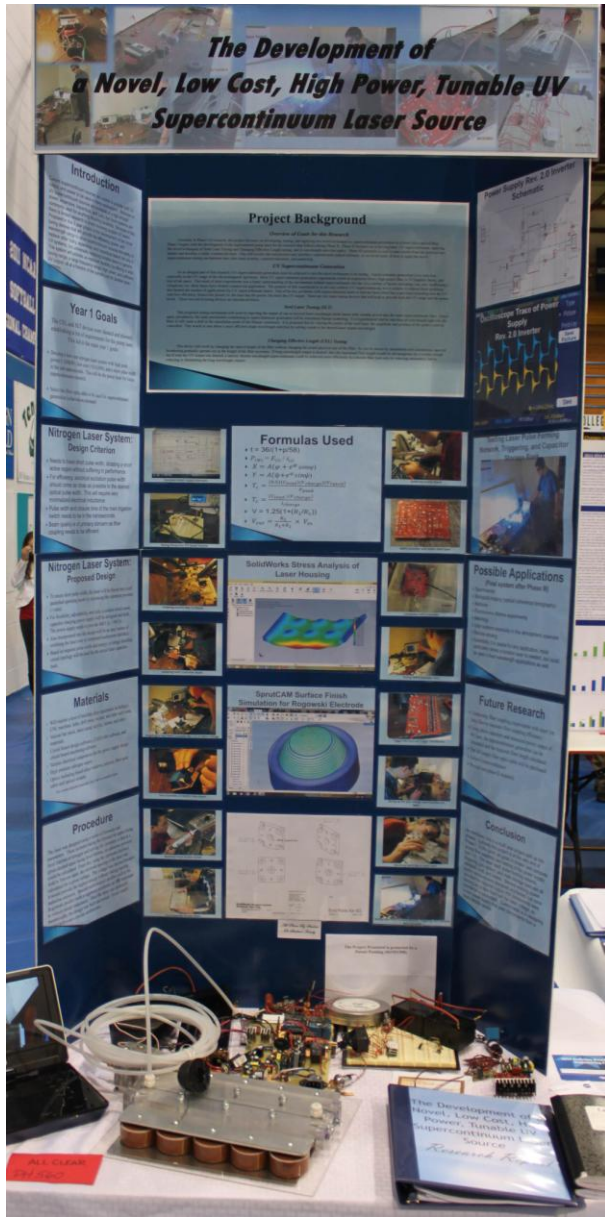
“The Patterns in Sunspots”

6th grade, Hampton Cove Middle School, Sponsor Heather Givens (Z-226)

Third Prize (\$50) – Sophie Guo

“A Compact Cell Phone Spectrometer”

8th grade, Liberty Middle School, Sponsor Carla Beardslee (N-83)



HEOS Awards

Senior Division Awards

First Prize (\$200) – Paul Boulet and Andrew Carlson

“The Laser Harp-Inator”

12th grade, St. Peter's Academy, Sponsor Jon David Jackson (EE-410)

Honorable Mention (\$50) – Rupa Palanki

“Energy Harvesting via Pyroelectric Effect”

9th grade, W.P. Davidson High School, Sponsor Barbara Hall (ET-384)

Honorable Mention (\$50) – Davina Ho

“Solar Cooking”

9th grade, Murphy High School, Sponsor Julie Prerost (EN-31)

Honorable Mention (\$50) – Jasmin Revanna

“Linking Images to Digital Cameras by Observing Noise Patterns”

11th grade, Alabama School of Fine Arts, Sponsor Kimal Djam (PH-565)

Junior Division Awards

First Prize (\$75) – Erin Kuech

“The Effects of Solutes on the Refraction Index of Water”

6th grade, Rainbow Elementary School, Madison, Sponsor Andrea Cushing (Z-209)

Second Prize (\$50) – Taylor Romanczuk

“Can You Measure the Sugar Content of a Liquid with a Laser?”

8th grade, Liberty Middle School, Madison, Sponsor Carla Beardslee (N-88)

Second Prize (\$50) – Lucas Lynn

“Angle Management 2: Are Multi-Angled Solar Panels More Efficient?”

8th grade, Wetumpka Middle School, Sponsor Virginia Villardi (N-94)

Honorable Mention (\$25) – Grant Pethel

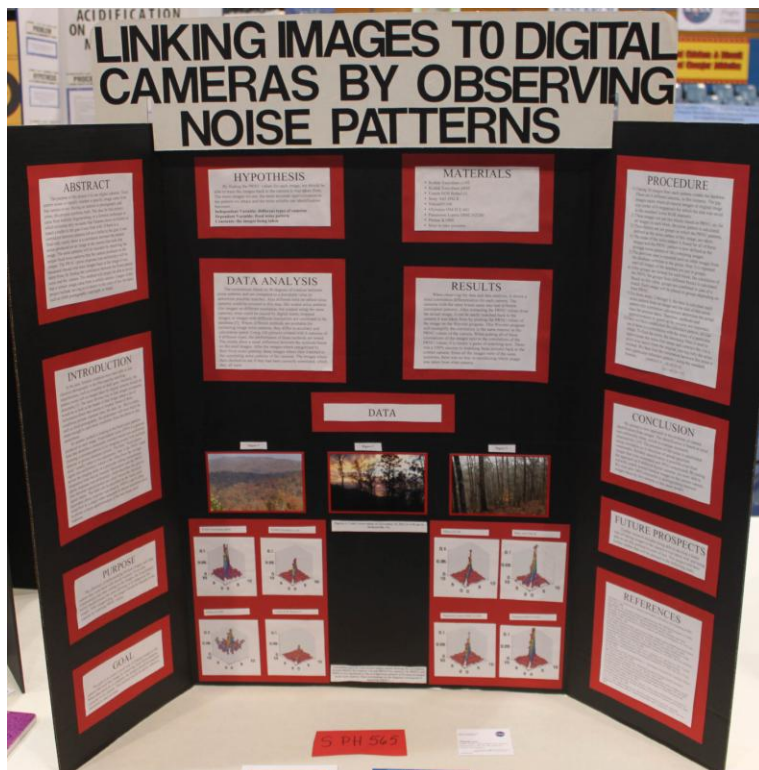
“Water Lens”

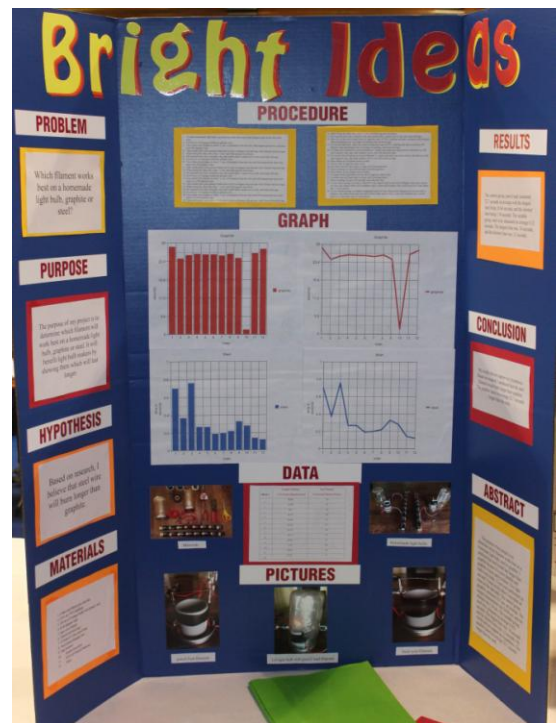
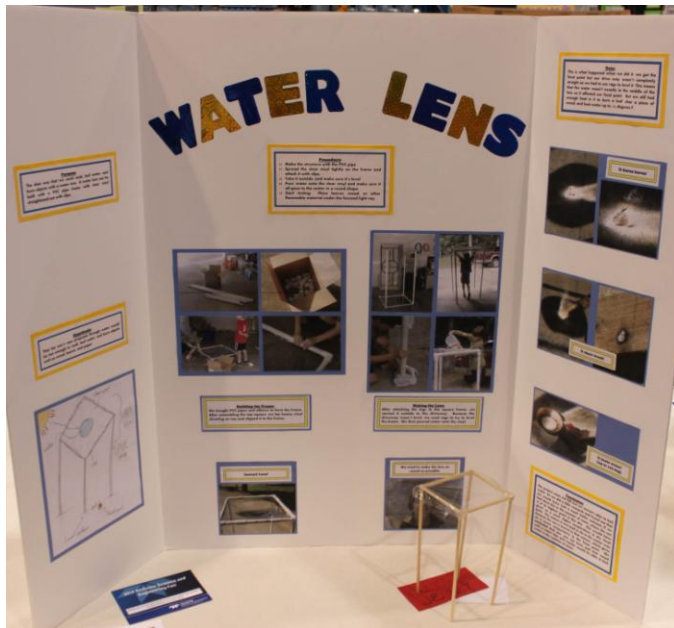
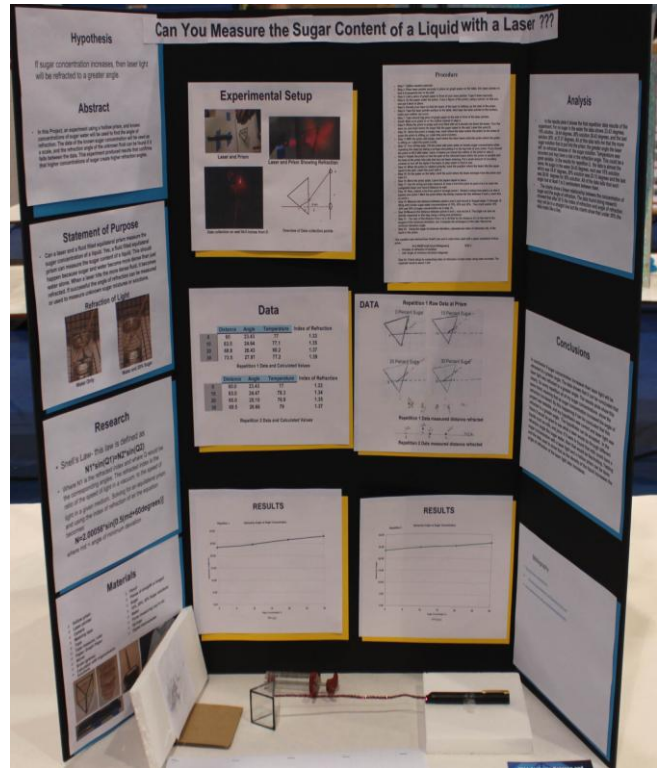
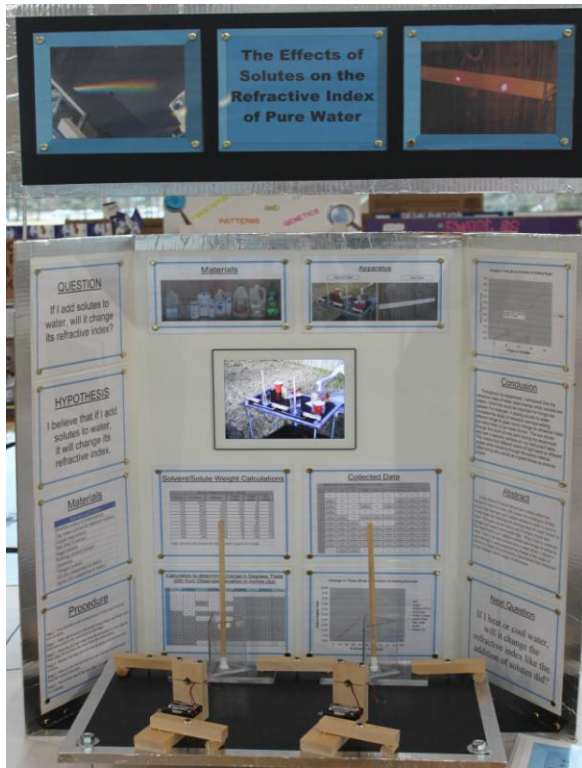
5th grade, Horizon Elementary School, Sponsor Lauren Harrison (E-127)

Honorable Mention (\$25) – Jackson Craft

“Bright Ideas”

6th grade, Phillips Preparatory Middle School, Sponsor Cynthia Prewitt (Z-205)





HEOS Corporate Sponsors

