

**23 March 2017**

**2017 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 63<sup>th</sup> 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:

- Ron Eng – NASA MSFC
- Mark Stahl – NASA MSFC
- Phil Stahl – NASA MSFC

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 and HEOS Awards.**

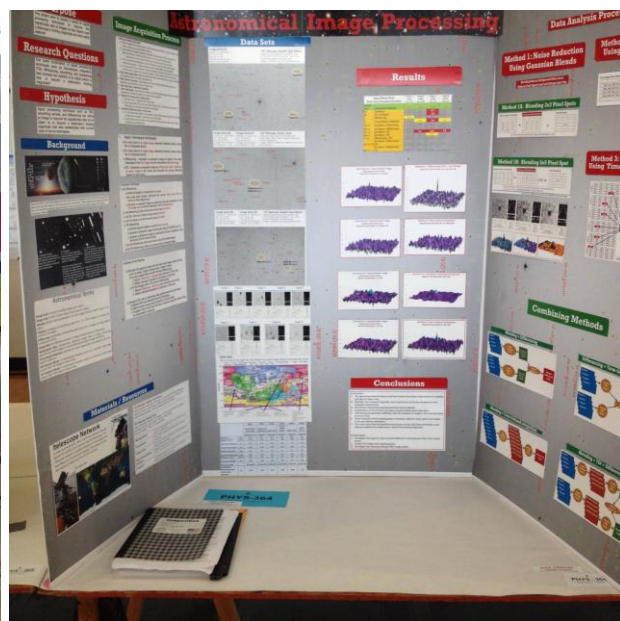
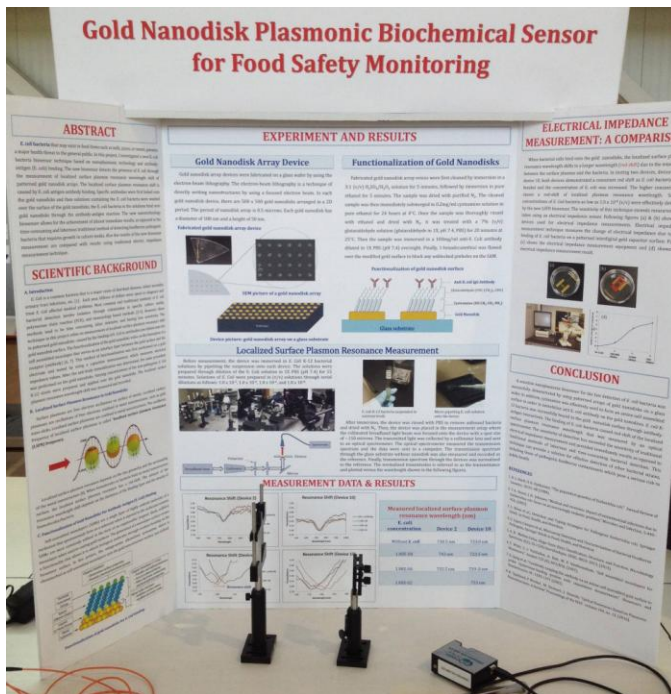
## SPIE Awards

### Senior Division Awards

**First Prize (\$250) – Sophie Joy Guo, “Fiber Optic Nanoplasmonic Biochemical Sensor for Food Safety Monitoring”** 11<sup>th</sup> grade, James Clemens High School, Madison  
Sponsor Carol Bohatch (EBED-338)

**Second Prize (\$150) – Therese Michelle Breithaupt, “A Helping Hands”**  
10<sup>th</sup> grade, Pope John Paul II High School, Madison  
Sponsor Brian Finzel (MEDC-350)

**Third Prize (\$100) – Tucker Edison Honeycutt, “Astronomical Image Processing”**  
10<sup>th</sup> grade, Covenant Christian Academy, Harvest  
Sponsor Rhonda Lisauckis (PHYS-364)



## HEOS Awards

### Junior Division Awards

#### **First Prize (\$150) – Miles Thompson, “Making Rainbows”**

8<sup>th</sup> grade, St. Joseph Regional Catholic School, Florence Sponsor Rita Magrini (PHYS-257)

#### **Second Prize (\$100) – Javon Zion Jennings**

#### **“Solar Revolution: Using the Sun for a More Efficient Solar Cooker”**

6<sup>th</sup> grade, Key Destiny Academy, Huntsville Sponsor Keelan Jennings (ENMC-207)

#### **Third Prize (\$50) – Elena A. Tetrault**

#### **“Building a better Household Robot by Sensing Our World”**

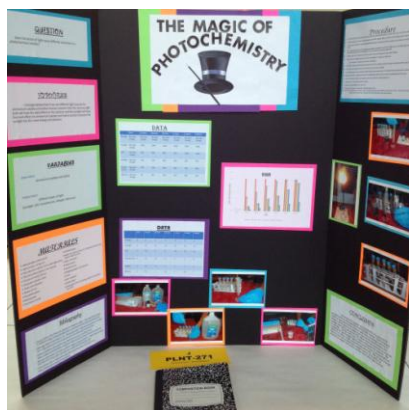
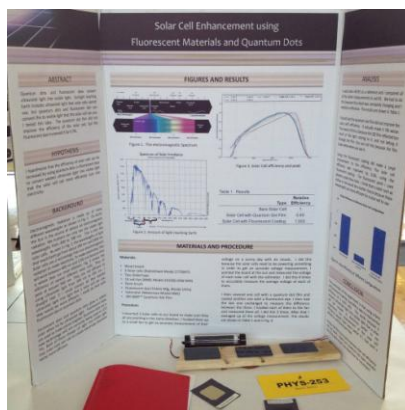
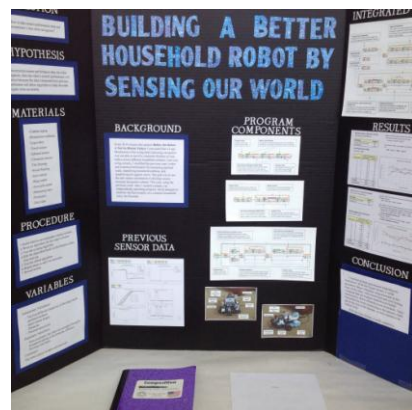
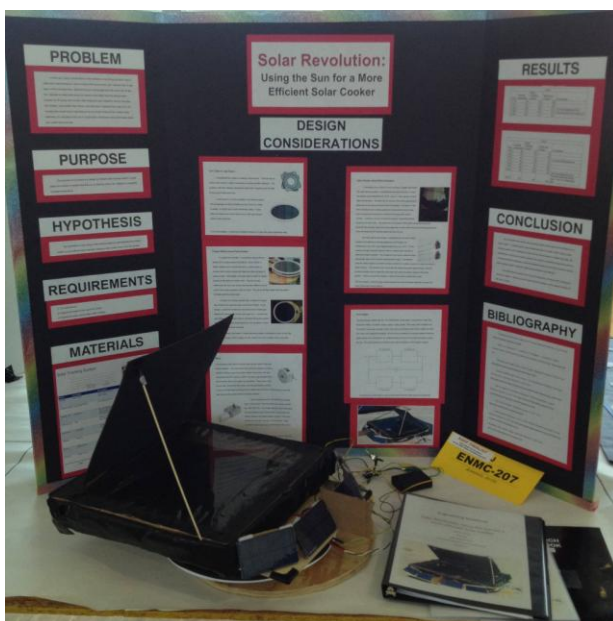
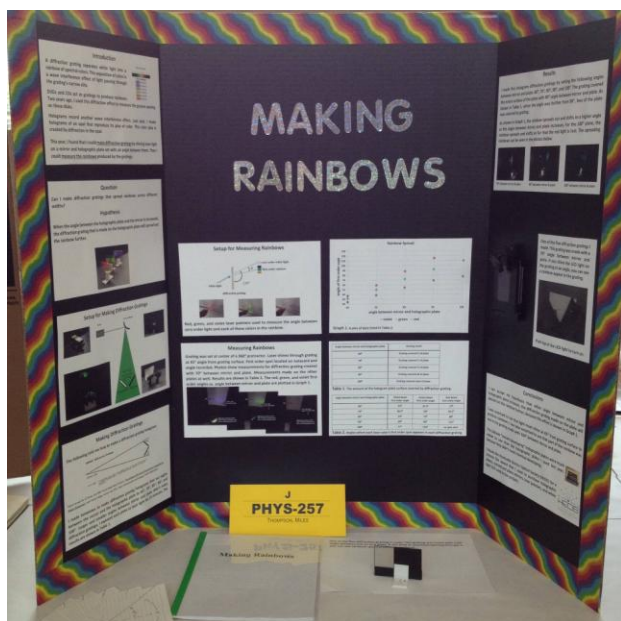
8<sup>th</sup> grade, Hampton Cove Middle School, Huntsville Sponsor Sarah Fields (ENMC-220)

#### **Third Prize (\$50) – Wyatt Smith, “Solar Cell Enhancement Using Fluorescent Materials and Quantum Dots”**

7<sup>th</sup> grade, St. John the Baptist Catholic School, Madison Sponsor Jennifer Dieselberg (PHYS-253)

#### **Third Prize (\$50) – Avani Singireddy, “Magic of Photochemistry”**

7<sup>th</sup> grade, Liberty Middle School, Madison Sponsor Carla Beardslee (PLNT-271)



## HEOS Awards

### Elementary Division Awards

#### **First Prize (\$75) – Logan Thomason, "Go with the Slope"**

5<sup>th</sup> grade, Columbia Elementary School, Madison, Sponsor Laura Roberson (ENMC-043)

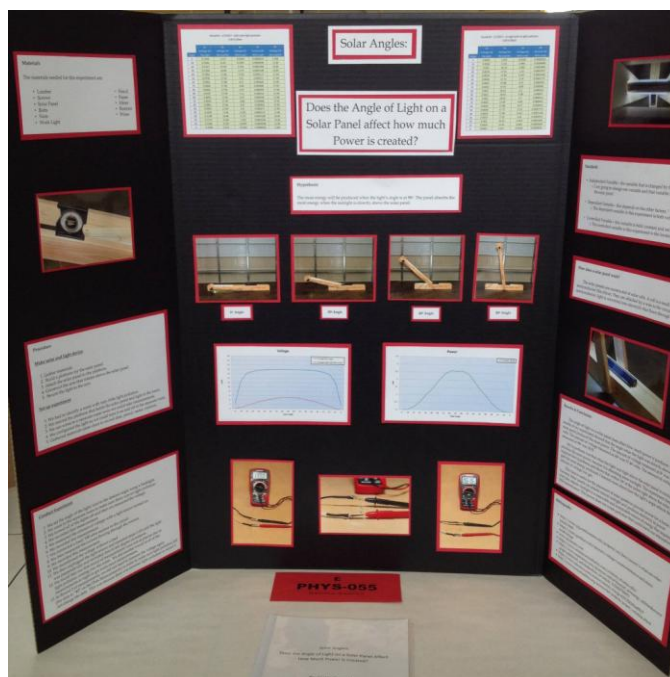
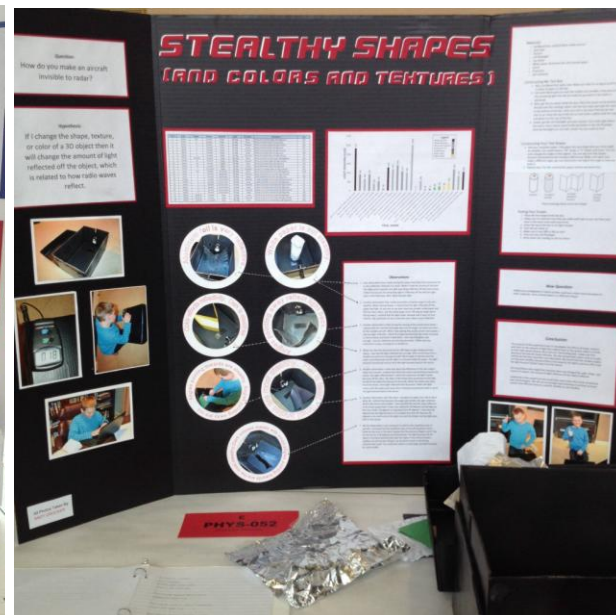
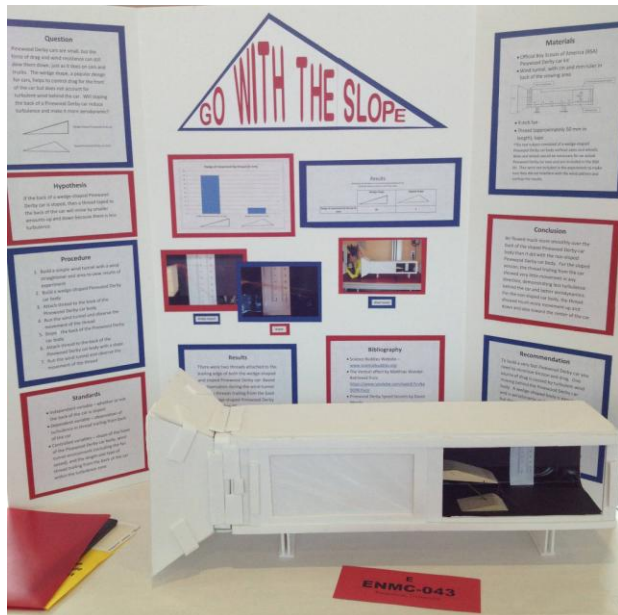
#### **Second Prize (\$50) – Andrew D. Crocker, "Stealthy Shapes"**

5<sup>th</sup> grade, Rainbow Elementary School, Madison, Sponsor Teresa Shurtz (PHYS-052)













#### **Third Prize (\$25) – Carter Gjesvold**

#### **"Does the Angle of Light on a Solar Panel Affect How Much Power is Created?"**

5<sup>th</sup> grade, Columbia Elementary School, Madison, Sponsor Laura Roberson (PHYS-055)



## HEOS Corporate Sponsors

 <p>Polaris Sensor Technologies, Inc.</p>	 <p><b>MTSi</b> MODERN TECHNOLOGY SOLUTIONS, INC.®</p>	 <p><b>AG</b> <i>Optical</i> SYSTEMS</p>	 <p>Optical Sciences Corporation <i>Infrared Systems Specialists</i></p>
<p>Polaris Sensor Technologies</p>	<p>Modern Technology Solutions, Inc.</p>	<p>AG Optical Systems</p>	<p>Optical Sciences Corporation</p>
 <p><b>UAH</b> THE UNIVERSITY OF ALABAMA IN HUNTSVILLE</p>	 <p><b>K Sciences</b></p>	 <p><b>MECH</b> <b>OPTIX</b></p>	 <p><b>JENOPTIK</b></p>
<p>Physics Department</p>	<p>K Sciences</p>	<p>MechOptix</p>	<p>Jenoptik Optical Systems</p>
 <p><b>TELEDYNE</b> <b>BROWN ENGINEERING, INC.</b> A Teledyne Technologies Company</p>	 <p><b>IERUS</b> TECHNOLOGIES <small>SEE THE SOLUTION</small></p>	 <p><b>IDair</b></p>	 <p><b>Dynerics</b> <i>The Power of Solutions®</i></p>
<p>Teledyne Brown Engineering</p>	<p>Ierus Technologies</p>	<p>IDair LLC</p>	<p>Dynerics</p>