
Awards Ceremony Report

Division: Elementary
**Princeton Plasma Physics Laboratory Young
Engineer and Science Award**
Certificate

Category:
From: Princeton Plasma Physics Lab

737	Harvesting Kinetic Energy and converting it to Electrical Energy	5
	Lawrence Intermediate Anushka Paulchoudhury	
627	That's Pretty Slick	5
	McGalliard Elementary Travis R Weaver	
307	Did You Take Your Medicine ?	6
	Lawrence Intermediate Arnav Aggarwal	
303	Modeling an artificial pancreas to examine and answer design questions	8
	The Pennington School Jordan Bostick	
342	The Shape of Wind Power	8
	St. Gregory the Great School James Joseph Ehring	

Division: Elementary
Earle S. Rommel Communications Award
Plaque

Category:
From: Mercer Science and Engineering Club

636	Would a Mobile App Facilitate More Communication in Inappropriate Behavior in School?	4
	Robinson Elementary Zoe Kurdakul	

Division: Junior
Earle S. Rommel Communications Award
Plaque

Category:
From: Mercer Science and Engineering Club

106	COMPARISON BETWEEN VISUAL AND AUDITORY REACTION TIME - TIMING IT RIGHT AT SWIM MEETS	8
	St. Ann's School Dora Krstic	

Division: Senior
Earle S. Rommel Communications Award
Plaque

Category:
From: Mercer Science and Engineering Club

2500	Point of Care Testing for Malaria Using a Smartphone and a Microfluidic ELISA Chip	10
	Lawrenceville School Nikhil Gopal	

Division: Senior
Computer and Engineering Award

Category:
From: Mercer Science and Engineering Club

- 2800 **Using Computer Simulations to Investigate the Reduction of the Number of Crashes in Intersections** 9
Hopewell Valley Central High
Christian Zapata-Sanin
- 2500 **Point of Care Testing for Malaria Using a Smartphone and a Microfluidic ELISA Chip** 10
Lawrenceville School
Nikhil Gopal
-

Division: Senior
Abbott Marshlands

Category:
From: Abbott Marshlands

- 1700 **Impacts of Phragmites australis invasion on soil enzyme activities and methane emission of tidal marshes in Maryland, USA** 11
Princeton High
Jiyoung Kang
-

Division: Junior
Honorable Mention
Certificate

Category:
From: Theobald Smith Society

- 152 **Yeast Fermentation with Sugar and Wheat** 6
Lawrence Intermediate
Maria Vittadello
- 116 **Bye Bye Bacteria** 8
St. Gregory the Great School
Kathryn Elizabeth Black
-

Division: Senior
3rd
Certificate

Category:
From: Theobald Smith Society

- 2502 **Can Provodine help prevent the spread of infectious disease?** 12
Foundation Academy
Jackie Ketter
-

Division: Senior
2nd
Certificate

Category:
From: Theobald Smith Society

- 1704 **Is Lawrence's Sewage Treatment Polluting a Trenton Stream and Drinking Water?** 12
Trenton Central High West Campus
Braulio Adonys Capps
-

Division: Senior
1st
Certificate

Category:
From: Theobald Smith Society

1700 **Impacts of Phragmites australis invasion on soil enzyme activities and methane emission of tidal marshes in Maryland, USA** 11
Princeton High
Jiyoung Kang

Division: Junior
Best Use of Photography
Gift certificate at Le Camera and Video
Certificate

Category:
From: Le Camera and Video

107 **Does Aspirin Help Plants Grow?** 6
Villa Victoria Academy
Samantha Munoz

Division: Senior
Certificate of Achievement
Each student will receive a certificate, bag and assorted electronics.

Category:
From: Air Force Research Laboratory

2100 **Passive Solar Solutions-Passive Supplements for Conventional Heat** 9
The Peddie School
Kyle Robert Sikkema

2500 **Point of Care Testing for Malaria Using a Smartphone and a Microfluidic ELISA Chip** 10
Lawrenceville School
Nikhil Gopal

1000 **Testing Valproate and Surfactant Regulation as Potential Therapeutics for Nitrogen Mustard-Mediated Lung Injury in Wistar Rats** 11
Lawrence High
James Gordon Gow

1400 **Matrix rigidity and MMP3 signaling regulate genomic instability in mammary epithelial cells** 12
West Windsor-Plainsboro High South
Tiffany Hsia

Division: Junior	Category:
U.S Navy/Marine Corps Award	From: U.S. Navy/Marine Corps
certificate and medal	

303	Modeling an artificial pancreas to examine and answer design questions	8
	The Pennington School	
	Jordan Bostick	
342	The Shape of Wind Power	8
	St. Gregory the Great School	
	James Joseph Ehring	
138	Taxa Richness Variation within the^o Stony Brook Watershed and the^o Surrounding Area: Comparison of Macroinvertebrate Families wi	8
	Timberlane Middle	
	Sonja MS Michaluk	

Division: Senior	Category:
U.S Navy/Marine Corps Award	From: U.S. Navy/Marine Corps
Certificate and medal	

2500	Point of Care Testing for Malaria Using a Smartphone and a Microfluidic ELISA Chip	10
	Lawrenceville School	
	Nikhil Gopal	
1400	Matrix rigidity and MMP3 signaling regulate genomic instability in mammary epithelial cells	12
	West Windsor-Plainsboro High South	
	Tiffany Hsia	

Division: Senior	Category:
ASU Sustainability	From: Arizona State University

2100	Passive Solar Solutions-Passive Supplements for Conventional Heat	9
	The Peddie School	
	Kyle Robert Sikkema	

Division: Senior	Category:
Stockholm Junior Water Prize	From: Water Environment Federation

1700	Impacts of Phragmites australis invasion on soil enzyme activities and methane emission of tidal marshes in Maryland, USA	11
	Princeton High	
	Jiyoung Kang	
1704	Is Lawrence's Sewage Treatment Polluting a Trenton Stream and Drinking Water?	12
	Trenton Central High West Campus	
	Braulio Adonys Capps	

Division: Senior
NJWEA Water Environment Award

Category:
From: New Jersey Water Environment
Association

State winners go to the national competition where they can win a trip to Sweden and a cash award, the U.S. Winner's school will receive a cash award.

1700 **Impacts of Phragmites australis invasion on soil enzyme activities and methane emission of tidal marshes in Maryland, USA** 11
Princeton High
Jiyoung Kang

Division: Senior
NASA Earth

Category:
From: National Aeronautics and Space
Administration

1700 **Impacts of Phragmites australis invasion on soil enzyme activities and methane emission of tidal marshes in Maryland, USA** 11
Princeton High
Jiyoung Kang

Division: Senior
NOAA Award

Category:
From: National Oceanic and Atmospheric
Administration

Certificate

1700 **Impacts of Phragmites australis invasion on soil enzyme activities and methane emission of tidal marshes in Maryland, USA** 11
Princeton High
Jiyoung Kang

Division: Senior
Superior Achievement

Category:
From: ASM International Foundation

1901 **Study on the Surface Plasmon Polaritons in the Metamaterials** 11
Other
Heekyoung Woo

Division: Senior
Superior Achievement

Category: Behavioral and Social Science
From: American Psychological Association

1101 **Analyzing the Challenges in Reaching Out of School (OOS) Children** 11
Other
Jun Ho Song

Division: Senior
Superior Achievement

Category:
From: American Meteorological Society

1700 **Impacts of Phragmites australis invasion on soil enzyme activities and methane emission of tidal marshes in Maryland, USA** 11
Princeton High
Jiyoung Kang

Division: Senior
Special Award

Category:
From: Association for Women Geoscientists

1700 **Impacts of Phragmites australis invasion on soil enzyme activities and methane emission of tidal marshes in Maryland, USA** 11
Princeton High
Jiyoung Kang

Division: Senior
Superior Achievement
1 Certificate

Category:
From: Society for In Vitro Biology

1000 **Testing Valproate and Surfactant Regulation as Potential Therapeutics for Nitrogen Mustard-Mediated Lung Injury in Wistar Rats** 11
Lawrence High
James Gordon Gow

Division: Senior
Intel Excellence in Computer Science
1 Certificate and \$200

Category:
From: Intel Corp.

2800 **Using Computer Simulations to Investigate the Reduction of the Number of Crashes in Intersections** 9
Hopewell Valley Central High
Christian Zapata-Sanin

Division: Senior
Special Award

Category:
From: Mu Alpha Theta

2300 **A Study on the Cevians in a Triangle** 10
Other
Daniel Yi

Division: Senior
Excellence in Engineering
Certificate
Pewter medallion (sent in August)

Category:
From: Yale Science and Engineering Association

1702 **Investigating the Acute Cardiac and Phototactic Effects of Daphnia by Environmental Hormones** 11
Other
Taewon Yoon

Division: Senior
The Regional Ricoh Sustainable Development Award

Category:
From: Ricoh Corp.

Certificate. Winner eligible for drawing for a Ricoh digital camera.

1702 **Investigating the Acute Cardiac and Phototactic Effects of Daphnia by Environmental Hormones** 11
Other
Taewon Yoon

Division: Senior
Genius Olympiad

Category:
From: SUNY Oswego

Students can compete in the Genius Olympiad science competition in SUNY Oswego in New York. Room and board costs covered but winners must provide transportation. The competition open to all other senior division students but they must register and be accepted to compete.

1000 **Testing Valproate and Surfactant Regulation as Potential Therapeutics for Nitrogen Mustard-Mediated Lung Injury in Wistar Rats** 11
Lawrence High
James Gordon Gow

Division: Elementary
Honorable Mention

Category: General Science
From: Mercer Science and Engineering Club

638	Not A Plain Project	4
	Sayen Elementary Adrian Carlisi	
601	Online Vs Offline Shopping	4
	Village School Muskan Manchanda	
628	Heat Conduction	4
	Mercerville Elementary Julia Diane Tusche	
705	Build a Solar- Powered Bristle Bot`	5
	P.J. Hill Elementary Latonya Chiree Brown	
706	Paper Airplane	5
	P.J. Hill Elementary Jordan Deemi	
681	Does A Longer Paper Airplane Fly Farther than a Wide One?	5
	Langtree Elementary Haryindra Ithayakumaran	
735	Grasping with Straws	5
	P.J. Hill Elementary Christopher Michael Justice	
680	It's All About Gum	5
	P.J. Hill Elementary Sha'Asia Michelle Parks	
675	WHICH IS THE MOST POTENT ANTACID	5
	Perry L. Drew Elementary NISTHA AMIT SHETH	
769	How much weight can your boat float ?	5
	P.J. Hill Elementary Miyae Lynn Williams	

Division: Junior **Category:** Physical
Honorable Mention **From:** Mercer Science and Engineering Club

315	Survival of the Fit-Test	6
	Timberlane Middle Emilie Rose Sawicki	
351	Squeaky clean	7
	Villa Victoria Academy Charley Rose Durst	
318	The Effect of Temperature on Tornado Diameter	7
	Chapin School Thomas Maguire	
309	The Effect of Sodium Citrate on Reverse Liquid Spherification	7
	Chapin School Ankita Vaishnavi Suri	
301	The Best and Worst Air Quality Time in Mercer County, NJ: Seasonality, Neighboring Metropolis, and Historical Evolution	8
	Community Middle School Alexander Li	

Division: Junior **Category:** Biological
Honorable Mention **From:** Mercer Science and Engineering Club

100	Dad's Parkinson and Ceylon Cinnamon	6
	Lawrence Intermediate Chaiyo Kosinski	
149	Dirty Surfaces	6
	Villa Victoria Academy Kaitlyn E Schroeder	
152	Yeast Fermentation with Sugar and Wheat	6
	Lawrence Intermediate Maria Vittadello	
141	Turtlegate	7
	Villa Victoria Academy Ariana Rose Lidicker	
156	Battle of the Brains	8
	Villa Victoria Academy Stephanie Daniela Ordonez	

Division: Senior **Category:** Computational Biology and Bioinformatics
Honorable Mention **From:** Mercer Science and Engineering Club

1600 **How the Gaussian Function Maximizes Bio-image Processing Using Computer Simulations** 10
 Other
Kevin Cho

Division: Senior **Category:** Earth and Environmental Sciences
Honorable Mention **From:** Mercer Science and Engineering Club

1703 **Steam Energy** 9
 Villa Victoria Academy
Nia Grace Maywar

1705 **Don't Get Fracked! Is Your Water Quality Affected?** 10
 Trenton Central High
Paul Poyau

1701 **The Waterless Toilet: Looking for Solutions to the Toilet Crisis** 11
 Trenton Central High
Jose Miguel Lapaz

1704 **Is Lawrence's Sewage Treatment Polluting a Trenton Stream and Drinking Water?** 12
 Trenton Central High West Campus
Braulio Adonys Cappas

Division: Senior **Category:** Microbiology
Honorable Mention **From:** Mercer Science and Engineering Club

2502 **Can Provdine help prevent the spread of infectious disease?** 12
 Foundation Academy
Jackie Ketter

Division: Elementary **Category:** General Science
Meritorious Achievement **From:** Mercer Science and Engineering Club

696	Music Mnemonics: Does Singing Help Us Remember Information Better?	4
	Yardville Heights Elementary Ava Marie Calp	
603	Salt vs. Sugar. Do ants prefer salt or sugar?	4
	University Heights Elementary Nick Vernon	
719	Gingerbread Houses	4
	Morgan Elementary Kara Weaver	
604	Does Microwave Food Have More Radiation Than Fresh Food And Is It Bad For My Health?	4
	Other Lucas Zapata-Sanin	
740	Does listening to classical music improve your spacial ability?	5
	Robinson Elementary Larissa J Cooper	
737	Harvesting Kinetic Energy and converting it to Electrical Energy	5
	Lawrence Intermediate Anushka Paulchoudhury	

Division: Junior **Category:** Physical
Meritorious Achievement **From:** Mercer Science and Engineering Club
certificate

339	Penny Wash	7
	Villa Victoria Academy Whitney N Daniels	
308	The Effect of the Type of Bridge on the Maximum Amount Of Weight That Can Be Held	7
	Chapin School Elizabeth Hu	
338	Are girls less interested in STEM related subjects and in pursuing STEM related fields compared to boys	8
	Lawrence Middle Aluen Serena Tomat-Kelly	

Division: Junior
Meritorious Achievement
certificate

Category: Biological
From: Mercer Science and Engineering Club

136	Synesthesia Study Westerly Learning Center Abby Reytblat	6
125	What Makes You Tic? St. Gregory the Great School Rebecca Heimowitz	7
132	High C's Villa Victoria Academy Julia Ryan Henninger	8

Division: Junior

Category:

Broadcom Masters Award

From: Society For Science & The Public

Award winners ARE NOT announced individually !!! Use the following description:

Winners of the Superior and Outstanding awards winners in the Junior Division will be allowed to compete in the Broadcom Master Competition. Winners of this competition will receive an all-expense paid trip to Washington, DC for the student and ONE parent or guardian to compete in the finals.

307	Did You Take Your Medicine ?	6
	Lawrence Intermediate Arnav Aggarwal	
322	Baking Pan Types Can Effect the Way A Cookie Bakes	6
	Albert E. Grice Middle Alexis M Halsey	
328	Basketball: Know When to Bank It	6
	Other Ethan Jones	
101	Growing Your Trash Into Treasures	6
	St. Gregory the Great School Morgan Micallef	
146	Did the Pirates Have It Right at Night?	7
	St. Gregory the Great School Reid Francis Roche	
303	Modeling an artificial pancreas to examine and answer design questions	8
	The Pennington School Jordan Bostick	
342	The Shape of Wind Power	8
	St. Gregory the Great School James Joseph Ehring	
332	A Force to be Reckoned With	8
	Home school Dieter J. Felkner	
126	Saltwater Showers Bring No Flowers	8
	St. Gregory the Great School Sarah B. Gemmell	
121	Hidden Drugs	8
	St. Gregory the Great School Nicole Kiczek	
106	COMPARISON BETWEEN VISUAL AND AUDITORY REACTION TIME - TIMING IT RIGHT AT SWIM MEETS	8
	St. Ann's School Dora Krstic	
138	Taxa Richness Variation within the[♂] Stony Brook Watershed and the[♂] Surrounding Area: Comparison of Macroinvertebrate Families wi	8
	Timberlane Middle Sonja MS Michaluk	

Division: Junior **Category:**
Broadcom Masters Award **From:** Society For Science & The Public

Award winners ARE NOT announced individually !!! Use the following description:

Winners of the Superior and Outstanding awards winners in the Junior Division will be allowed to compete in the Broadcom Master Competition. Winners of this competition will receive an all-expense paid trip to Washington, DC for the student and ONE parent or guardian to compete in the finals.

Division: Elementary **Category:** General Science
Outstanding Achievement **From:** Mercer Science and Engineering Club

666	How Does the Amount of Light Affect Plant Growth?	4
	Ethel McKnight Elementary Max Letourneau	
612	Egg Osmosis: What Substances Are Able to Move Through a Cell Membrane?	4
	Lawrence Intermediate Emma Charlotte Phelan	
610	Keeping it Together	5
	St. Gregory the Great School Thomas Joseph Black	
693	Is this Color Hot or Not?	5
	St. Gregory the Great School Patrick DeLuca	
664	The Great Bounce Debate	5
	Yardville Elementary Matthew Terry	
699	"The Effect of Temperature on the Elasticity of a Rubber Band"	5
	St. Gregory the Great School Massimiliano Angelo Verduci	

Division: Junior **Category:** Physical
Outstanding Achievement **From:** Mercer Science and Engineering Club

certificate and an invitation to compete in the Broadcom Master Competition

322	Baking Pan Types Can Effect the Way A Cookie Bakes	6
	Albert E. Grice Middle Alexis M Halsey	
328	Basketball: Know When to Bank It	6
	Other Ethan Jones	
303	Modeling an artificial pancreas to examine and answer design questions	8
	The Pennington School Jordan Bostick	

Division: Junior **Category:** Biological
Outstanding Achievement **From:** Mercer Science and Engineering Club
certificate and an invitation to compete in the Broadcom Master Competition

- | | | |
|-----|---|---|
| 146 | Did the Pirates Have It Right at Night? | 7 |
| | St. Gregory the Great School
Reid Francis Roche | |
| 126 | Saltwater Showers Bring No Flowers | 8 |
| | St. Gregory the Great School
Sarah B. Gemmell | |
| 121 | Hidden Drugs | 8 |
| | St. Gregory the Great School
Nicole Kiczek | |
-

Division: Senior **Category:** Earth and Environmental Sciences
Second Place **From:** Mercer Science and Engineering Club

- | | | |
|------|---|----|
| 1702 | Investigating the Acute Cardiac and Phototactic Effects of Daphnia by Environmental Hormones | 11 |
| | Other
Taewon Yoon | |
-

Division: Senior **Category:** Engineering Mechanics
Second Place **From:** Mercer Science and Engineering Club

- | | | |
|------|--|---|
| 2100 | Passive Solar Solutions-Passive Supplements for Conventional Heat | 9 |
| | The Peddie School
Kyle Robert Sikkema | |
-

Division: Senior **Category:** Materials Science
Second Place **From:** Mercer Science and Engineering Club

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|------|---|----|
| 2400 | Study on the Reactive Oxygen Species and Photocatalytic Reaction Using Titanium Oxides | 11 |
| | Other
Leah Sohn | |
-

Division: Senior **Category:** Mathematical Sciences
Second Place **From:** Mercer Science and Engineering Club

- | | | |
|------|---|----|
| 2300 | A Study on the Cevians in a Triangle | 10 |
| | Other
Daniel Yi | |
-

Division: Elementary **Category:** General Science
Superior Achievement **From:** Mercer Science and Engineering Club

609	Does Temperature Affect the Distance of a Biscuit?	4
	Lawrence Intermediate Garrett R Heffern	
710	Wash, Wash, Oh My Gosh!!	4
	Morgan Elementary Alyssa Hendricksen	
636	Would a Mobile App Facilitate More Communication in Inappropriate Behavior in School?	4
	Robinson Elementary Zoe Kurdakul	
744	Sand Mineral Variation Within Southern New England as a Way to Map Geological Transformation	4
	Bear Tavern Elementary Charlotte Michaluk	
728	Multitasking - How it affects our reaction time.	4
	Lawrence Intermediate Piyush Nawade	
634	Reflective Properties Of Different Colors	5
	Sayen Elementary Ava M Pihokken	

Division: Junior **Category:** Physical
Superior Achievement **From:** Mercer Science and Engineering Club
certificate and an invitation to compete in the Broadcom Master Competition

307	Did You Take Your Medicine ?	6
	Lawrence Intermediate Arnav Aggarwal	
342	The Shape of Wind Power	8
	St. Gregory the Great School James Joseph Ehring	
332	A Force to be Reckoned With	8
	Home school Dieter J. Felkner	

Division: Junior **Category:** Biological
Superior Achievement **From:** Mercer Science and Engineering Club
certificate and an invitation to compete in the Broadcom Master Competition

- | | | |
|-----|---|---|
| 101 | Growing Your Trash Into Treasures | 6 |
| | St. Gregory the Great School
Morgan Micallef | |
| 106 | COMPARISON BETWEEN VISUAL AND AUDITORY REACTION TIME - TIMING IT RIGHT AT SWIM MEETS | 8 |
| | St. Ann's School
Dora Krstic | |
| 138 | Taxa Richness Variation within thest Stony Brook Watershed and thest Surrounding Area: Comparison of Macroinvertebrate Families wi | 8 |
| | Timberlane Middle
Sonja MS Michaluk | |
-

Division: Elementary **Category:**
Most Superior **From:** Rider University
Plaque and certificate

- | | | |
|-----|---|---|
| 744 | Sand Mineral Variation Within Southern New England as a Way to Map Geological Transformation | 4 |
| | Bear Tavern Elementary
Charlotte Michaluk | |
-

Division: Junior **Category:** Biological
Most Superior **From:** Rider University
Plaque and certificate

- | | | |
|-----|---|---|
| 138 | Taxa Richness Variation within thest Stony Brook Watershed and thest Surrounding Area: Comparison of Macroinvertebrate Families wi | 8 |
| | Timberlane Middle
Sonja MS Michaluk | |
-

Division: Junior **Category:** Physical
Most Superior **From:** Rider University
Plaque and certificate

- | | | |
|-----|--|---|
| 307 | Did You Take Your Medicine ? | 6 |
| | Lawrence Intermediate
Arnav Aggarwal | |
-

Division: Senior **Category:**
Most Superior **From:** Rider University
Plaque and certificate

- | | | |
|------|---|----|
| 1000 | Testing Valproate and Surfactant Regulation as Potential Therapeutics for Nitrogen Mustard-Mediated Lung Injury in Wistar Rats | 11 |
| | Lawrence High
James Gordon Gow | |
-

Division:	Senior	Category:	Animal Sciences
First Place		From:	Mercer Science and Engineering Club
1000	Testing Valproate and Surfactant Regulation as Potential Therapeutics for Nitrogen Mustard-Mediated Lung Injury in Wistar Rats		11
	Lawrence High		
	James Gordon Gow		
Division:	Senior	Category:	Behavioral and Social Science
First Place		From:	Mercer Science and Engineering Club
1101	Analyzing the Challenges in Reaching Out of School (OOS) Children		11
	Other		
	Jun Ho Song		
Division:	Senior	Category:	Biomedical and Health Sciences
First Place		From:	Mercer Science and Engineering Club
1300	Therapeutic Lotion for Atopic Dermatitis Using Flaxseed Oil with Polysorbate 80		11
	Other		
	Yeojin Shin		
Division:	Senior	Category:	Cellular and Molecular Biology
First Place		From:	Mercer Science and Engineering Club
1400	Matrix rigidity and MMP3 signaling regulate genomic instability in mammary epithelial cells		12
	West Windsor-Plainsboro High South		
	Tiffany Hsia		
Division:	Senior	Category:	Chemistry
First Place		From:	Mercer Science and Engineering Club
1500	Developing Intraoral Delivery of Vitamin D using Toothpaste		11
	Other		
	Taekwon Kong		
Division:	Senior	Category:	Earth and Environmental Sciences
First Place		From:	Mercer Science and Engineering Club
1700	Impacts of Phragmites australis invasion on soil enzyme activities and methane emission of tidal marshes in Maryland, USA		11
	Princeton High		
	Jiyoung Kang		

Division: Senior **Category:** Energy: Physical
First Place **From:** Mercer Science and Engineering Club

1901 **Study on the Surface Plasmon Polaritons in the Metamaterials** 11
Other
Heekyoung Woo

Division: Senior **Category:** Microbiology
First Place **From:** Mercer Science and Engineering Club

2500 **Point of Care Testing for Malaria Using a Smartphone and a Microfluidic ELISA Chip** 10
Lawrenceville School
Nikhil Gopal

Division: Senior **Category:** Robotics and Intelligent Machines
First Place **From:** Mercer Science and Engineering Club

2800 **Using Computer Simulations to Investigate the Reduction of the Number of Crashes in Intersections** 9
Hopewell Valley Central High
Christian Zapata-Sanin

Division: Senior **Category:**
1st Runner-up **From:** Mercer Science and Engineering Club
Alternate for the ISEF trip if the Grand Prize winner cannot attend

1000 **Testing Valproate and Surfactant Regulation as Potential Therapeutics for Nitrogen Mustard-Mediated Lung Injury in Wistar Rats** 11
Lawrence High
James Gordon Gow

Division: Senior **Category:**
Grand Prize **From:** Mercer Science and Engineering Club
All expense paid trip to the Intel International Science and Engineering Fair in May

2500 **Point of Care Testing for Malaria Using a Smartphone and a Microfluidic ELISA Chip** 10
Lawrenceville School
Nikhil Gopal
