



DELAWARE VALLEY SCIENCE FAIRS, INC.

Intel International Science and Engineering Fair 2015 Awards Ceremony

May 15, 2015

Pittsburgh, Pennsylvania

Society for Science and the Public, in partnership with the Intel Foundation, announced Awards of the Intel International Science and Engineering Fair (ISEF) 2015. Student winners are ninth through twelfth graders who earned the right to compete at the Intel ISEF 2015 by winning a top prize at a local, regional, state, or national fair. This year's Intel International Science and Engineering Fair featured approximately 1,700 young scientists selected from 422 affiliate fairs in more than 75 countries, regions and territories.

Award winners from the Delaware Valley Science Fairs

Behavioral and Social Sciences:

Sarah Vicol, 15, 10th Grade, High Technology High School, Lincroft, NJ

The Effect of Bilingualism on the Multitasking Ability of Adolescents

Grand Award: Fourth Place - \$500

Biomedical and Health Sciences:

Ralph Ignacio Lawton, 16, 11th Grade, PA Leadership Charter School, West Chester, PA

Don't Be Led Ashtray: Toxicological Effects of Electronic Cigarettes on Inflammation and Lung Cell Viability with Comparison by Brand, Flavor, and Generation

Special Award: National Anti-Vivisection Society: Second Place - \$2,000

Special Award: National Institutes of Health: Second Place - \$1,500

Special Award: West Virginia University – Presidential Scholarship – Full Tuition

Jeremy Wang, 14, 9th Grade, Methacton High School, Norristown, PA

Development of a Novel Biomarker Algorithm for the Early Detection of Liver Cancer

Special Award: American Statistical Association – Honorable Mention

Roy Ghosh, 15, 9th Grade, Parkland High School, Allentown, PA

Novel Method of Circulating Prostate Tumor Cell Separation Using Adhesion Rolling in a Micropatterned, Microfluidic Device

Grand Award: Second Place - \$1,500

Special Award: - MIT – Lincoln Laboratory, Ceres Connection – Lifetime Naming of an Asteroid

Energy: Physical:

Vikram I. Pandian, 14, 9th Grade, Parkland High School, Allentown, PA

Measuring and GeoMapping Ambient RF Energy for Battery Free Applications

Grand Award: Fourth Place - \$500

Environmental Engineering:

Ananya Joshi, 17, 12th Grade, High Technology High School, Lincroft, NJ

Developing Effective Solar-Powered Agitators for Mosquito Control in Stagnant Water

Grand Award: Fourth Place - \$500

Special Award: Bruno Kessler Foundation: WebValley Program – Three Week Trip to Trento, Italy to further research

Materials Science:

Milind Jagota, 17, 11th Grade, Liberty High School, Bethlehem, PA

An Efficient Computational Model for Metal Nanowire Transparent Conductors

Grand Award: Fourth Place - \$500

Mathematics:

Shashwat Kishore, 18, 12th Grade, Unionville High School, Kennett Square, PA

Signatures of Multiplicity Spaces in Tensor Products of sl_2 and $U_q(sl_2)$ Representations

Special Award: American Mathematical Society – 3rd Place - \$500

Microbiology:

Rachel Danielle Swope, 16, 10th Grade, Central Bucks West High School, Doylestown, PA

*Isolation of a Bacteriophage for *Staphylococcus aureus* from Rumen Fluid*

Special Award: American Society for Microbiology – 5th Place - \$400

Plant Sciences:

Rachel Paige Weinstein, 16, 11th Grade, Biotechnology High School, Freehold, NJ

*The Effects of Varying Methods of Gibberellic Acid Exposure on the Growth and Development of Wild-Type and PKL1-1 Mutant *Arabidopsis thaliana**

Grand Award – Third Place – \$1,000

Since 1949, Delaware Valley Science Fairs, Inc. (DVSF) has stimulated interest in science, technology, engineering and mathematics (STEM) among middle and high school students in the tri-state region. Our vision is to bring parents, teachers and industry together to stimulate and nurture young people so that they can grow and develop into contributing members of the community. DVSF's philosophy is that students learn by doing. They learn how to think, how to identify problems that need to be solved, and to design solutions to those problems.

*For more information, visit www.DVSF.org or call
Henry Disston, President and Executive Director, at: 215-895-5840.*