



News Advisory

What: Annual Winners Breakfast for the Delaware Valley Science Fairs.

When: 9 to 10 a.m. Friday, April 22, 2011.

Where: University of the Sciences, McNeil Science and Technology Center building, 45th and St Avenue, Philadelphia, Pa.

Why: It's the only event where all the student winners are together before International.

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Area finalists move on to international science fair

The student winners of the Delaware Valley Science Fairs will present and discuss their “winning” projects to the media and University of the Science faculty at its annual event at the college.

This event is the last time the fifteen future scientists will be together in one place before leaving to participate in the Intel International Science and Engineering Fair, May 8-13, at the Los Angeles Convention Center. The 15 students hail from southern and central New Jersey and southeastern Pennsylvania were medalists in the Delaware Valley Science Fairs, held April 6 at the Greater Philadelphia Convention Center, Oaks, Pa.

At that competition, students in grades 6 through 12 competed for more than \$1 million in scholarships and awards including the all-expense-paid trip to the international competition in Los Angeles, where high school freshmen through seniors from 65 foreign countries and 48 states will compete for scholarships and prizes valued in the millions.

Gone are the days of volcano and solar system models. Projects in this competition, hailed as the “Olympics” of science fairs, included cancer research, mathematical proofs and forensics.

The list of winners is as follows:

SENIORS

Gold medal

Nicole Tsai, 17, Holmdel, NJ, High Technology High School, Lincroft, NJ, *Extending the Motional Stark Effect Diagnostic to Low Magnetic Fields: Towards Implementing a Laser-induced Fluorescence Technique. (NOT ATTENDING)*

Silver medal

Benjamin Kraft, (age and town unavailable) Liberty High School, Bensalem, Pa., *Entries of Random Matrices. (NOT ATTENDING)*

Bronze medal

Bernadette Hritz, 17, Holland, Pa., Villa Joseph Marie High School, Holland, Pa., *The Analysis and Characterization of the Bioactive Antimicrobial Natural Products from Marine Sponges*. Bernadette isolated and identified antimicrobial compounds from marine sponges that have inhibited growth of staph and a tuberculosis mimic. **(ATTENDING WINNERS BREAKFAST)**

JUNIORS

Gold medal

Sanjana Salwi, 16, Morganville, NJ, High Technology High School, Lincroft, NJ, *Retinal Proteins in Dorsal vs. Ventral Hemiretina of Pantodon Bucccholzi*. Sanjana contrasted proteins in fish to bovine proteins to support theories of neuronal regeneration. **(ATTENDING WINNERS BREAKFAST)**

Silver medal

Andrew Feldman, 16, Freehold, NJ, Manalapan High School, Englishtown, NJ, *Acoustic Array Imaging Using Optimizing Beam-forming Techniques*. Andrew proved how acoustic imaging uses sound to form images. **(ATTENDING WINNERS BREAKFAST)**

Bronze medal

Jack Huang, 16, Allentown, Pa., Parkland High School, Allentown, Pa., *From Dusk to Dawn: Contact Lenses in the Night Tear Protein*. Jack investigated the protein interaction with contact lenses during overnight wear.

SOPHOMORES

Gold medal

Jonah Kallenbach, 16, Ambler, Pa., Germantown Academy, Fort Washington, Pa., *Monte Carlo Simulation of a Serial Dilution PCR Experiment*. Jonah created random simulation of a DNA-cloning serial dilution. **(ATTENDING WINNERS BREAKFAST)**

Silver medal

Meghan Shea, 16, West Chester, Pa., Unionville, High School, Kennett Square, Pa. *The Effect of Nitrogen and Sulfur and Phosphorus Compounds on the Bioremediation of Oil by Pseudomonas Fluorescence and Bacillus Subtilis for Use During Oil Spills*. Meghan attempted to increase the effectiveness of two bacteria at degrading oil for use during the oil spill cleanup. (NOT ATTENDING)

Bronze medal

Angela Han, (age and town unavailable), High Technology High School, Lincroft, NJ. *Mechanistic Study of Sulforaphane Induced Cytotoxicity*. (NOT ATTENDING)

FRESHMEN

Gold medal

Lucy Hritz, 15, Holland, Pa., Villa Joseph Marie High School, Holland, Pa., *Survey of Bacterial Prevalence in Raw Milk*. Lucy investigated if there are bacteria in raw, unpasteurized milk. **(ATTENDING WINNERS BREAKFAST)**

Silver medal

Hannah Kim, 15, Allentown, Pa., Parkland High School, Allentown, Pa. *Omega Fatty Acid Levels*. Hannah studied the effects of the human diet on his or her own levels of fatty omega acids. **(ATTENDING WINNERS BREAKFAST)**

Bronze medal

Alan Yang, (age and town unavailable), Upper Dublin High School, Fort Washington, Pa.,

Proofs of Two Archimedean Propositions Using Euclidean Geometry. (NOT ATTENDING)

TEAM

Gold medal

Tara Knox, 18, Philadelphia, and Kacie Farrell, 18, Philadelphia, both seniors and Savannah Lee, 17, Audubon, Pa., a junior. All attend Mount St. Joseph Academy, Flourtown, Pa., *Enolase: A Glycolic Enzyme of Blood Stage Malaria*. The team studied the potential of enolase as a vaccine target. **(ATTENDING WINNERS BREAKFAST)**

Finalists are available to explain their projects and their passion for science further. High quality JPGs and video are available, too. Please don't hesitate to contact me to arrange a meeting.

For interviews, photos or more information, call Cheryl Squadrito at (856) 857-0146 or e-mail chersquad@mac.com.

For 61 years, the Delaware Valley Science Fairs have stimulated interest in science, engineering and technology among middle and high school students in the tri-state region. DVSF's philosophy is that students learn science by doing science. Its mission is to bring together parents, teachers and industry leaders to motivate and nurture young people's curiosity in science and problem solving as we build lifelong learners. For more information, visit www.DVSF.org or call (215) 895-5840.