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FOR IMMEDIATE RELEASE

June 21, 2014

CONTACT: Sherrie Emoto, board@mbhsmagnet.org

**Montgomery Blair High School Magnet Students
Honored at Intel International Science and Engineering Fair 2014**

Silver Spring, MD—Neil Davey of Gaithersburg and Daniela Ganelin and Jessica Shi of Rockville, all 2014 graduates of the Montgomery Blair High School Science, Mathematics, and Computer Science Magnet Program, received recognition for their research at the Intel International Science and Engineering Fair (ISEF) 2014, which was held in Los Angeles, CA last month. For his paper entitled “Early Cancer Diagnosis and Treatment Through the Detection of Circulating Tumor Cells Using Drop-Based Microfluidics,” Davey received a First Place Award along with \$3,000 in the competition’s Medicine and Health Sciences Category. Shi’s research entitled “The Speeds of Families of Intersection Graphs” was selected as one of eight showing excellence in science and engineering, and she was awarded \$3,000 in United Technologies Corporation stock. For Ganelin’s paper, “Differences in Word Usage Patterns between ‘Well-Recovered’ Aphasic Patients and Control Subjects on a Picture Description Task,” she received a Fourth Place Award and \$500 in the competition’s Behavioral and Social Sciences Category. In addition, Vinay Sriram of Poolesville High School won a Fourth Place Award and \$500 in the competition’s Computer Science Category for his research, “Design and Performance Analysis of Optimization Algorithms for Efficient Cryptographic Processing in Secure Internet Routing Protocol.”

The students qualified to compete at the Intel ISEF by first entering the county area science fair for students in grades six through twelve, *ScienceMONTGOMERY*, in March. Based on their research posters and interviews, their projects were selected to continue on to the Intel ISEF, including all-expense paid travel for the students. The world’s largest international pre-college science competition, the Intel ISEF is funded jointly by Intel and the Intel Foundation with additional awards and support from dozens of other corporate, academic, governmental, and science-focused organizations. Blair Magnet science and research teacher, Ms. Angeliq Bosse, served as the teacher chaperone for this international competition. In her research class, she oversees original research conducted by students during the summer preceding their senior year, the Blair Magnet Senior Research Project, which Davey’s, Ganelin’s, and Shi’s papers all represent.

Ms. Bosse congratulates the students, “I was very proud of Daniela, Jessica, and Neil for representing the Blair Magnet and *ScienceMONTGOMERY* at Intel ISEF, where they were all award winners. With guidance and support from the fair organization, the

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students worked very hard to prepare their posters and paperwork and to fine-tune their presentations for the judging process. In addition to their successes in competition, the students had an enriching experience at the competition, meeting many other student researchers, listening to Nobel Prize-winning scientists, visiting NASA's Jet Propulsion Laboratory, and taking part in other social and celebratory events."

Reflecting on the competition, Davey comments, "Being in Los Angeles for the Intel ISEF was an incredible experience. I met so many different people from across the globe and learned about many projects in numerous disciplines. I would like to sincerely thank Ms. Bosse for chaperoning on the trip and the whole Blair Magnet Program, in general, for the opportunities it has provided me over the past four years."

Ganelin agrees, "I am grateful for the support of Ms. Bosse and all my other Blair Magnet teachers. Intel ISEF was fantastic, and completing my Senior Research Project was a great experience."

Davey, Ganelin, and Shi will attend Harvard University, Massachusetts Institute of Technology, and Princeton University, respectively, in fall.



Montgomery Blair Magnet 2014 graduates, Daniela Ganelin, Jessica Shi, and Neil Davey (first, second, and fourth from left, respectively), were recognized for their research at the Intel International Science and Engineering Fair 2014. Poolesville High School 2014 graduate, Vinay Sriram (third from left) was also honored. (Photo courtesy of Ms. Angeliqe Bosse)

About The Montgomery Blair High School Magnet Foundation

This organization was founded by a group of concerned students, teachers, administrators, and alumni in 2008. Its purpose is to promote science, mathematics, and computer science education by supporting the Magnet Program at Montgomery Blair High School in its efforts to develop resources and refine practices needed to

Keeping a Special Program Special
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Montgomery Blair High School Magnet Foundation Inc.

provide a rigorous and enriched education for students, staff, and the community at large. The Foundation is incorporated in the state of Maryland and is a 501(c)(3) tax-exempt organization.

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