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Who won at MOST science fair? (list, photos)

MOST science fair

Helena Giner a fourth grader at Edward Smith School in Syracuse does a test in her "Color changing Colors" project during the MOST Science Fair, Sunday at SRC Arena at Onondaga Community College. (*Scott Schild | sschild@syracuse.com*)

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Onondaga, NY -- Budding scientists in fourth through 12th grades competed Sunday for scholarships, awards and trips at the 2014 Central New York Science & Engineering Fair at the SRC Arena at Onondaga Community College.



Jay Khurana, a junior at Fayetteville Manlius High School, explains his computer program for predicting genetic disease during the 2014 Central New York Science & Engineering Fair on Sunday at SRC Arena.

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Of the 154 projects entered, 56 were in the senior level, for ninth through 12th graders. The rest were in the junior division: 15 in eighth grade, 21 in seventh grade, 17 in sixth grade, 26 in fifth grade and 19 in fourth grade.

The top 10 percent of projects in each grade of the junior division and the senior division as a whole received highest honors medallions. The next 20 percent earned high honors medallions, and the next 30 percent earned honor medallions, according to the Milton J. Rubenstein Museum of Science & Technology.

In addition to the medallions, the MOST announced the following awards:

Grand prizes

The two top Senior Level projects chosen to attend the Intel International Science and Engineering Fair on May 11 to 16 in Los Angeles, Calif., all expenses paid, are:

- Olivia Sheppard, junior at Manlius Pebble Hill School, Reduction of Circulating Tumor Cells by Induction of Apoptosis via a TRAIL-Functionalized Nanostructured Shunt Device.
- Emerson Czerwinski Burkhard, a junior at Manlius Pebble Hill School, Improvement in Crosswind Landing by Use of Intelligent Holonomic Landing Gear.

Up to three Senior Level projects were chosen to attend the New York State Science Congress on May 31. The Central Section of the Science Teachers Association of New York State provides a \$50 travel stipend per student.

- Rebecca Hunter, a senior at Cato Meridian High School, The Effect of Water Acidification on Lumbriculus variegatus.
- Bilgenur Sirin, a senior at Syracuse Academy of Science Charter School, Degradation of Polycyclic Aromatic Hydrocarbons in Contaminated Soil Amended with Fishbone Apatite and Iron (III) Oxide.
- Alexander Wulff, a freshman at Skaneateles Senior High School, Bioplastics: An Exploration of Nature's Plastic.



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Rebecca Hunter, a Cato-Meridian High School senior, explains her project on the Effect of Water Acidification on Lumbriculus Variegatus during a science fair sponsored by the MOST Sunday at SRC Arena at OCC.

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Up to five Junior Level projects were nominated for the Broadcom MASTERS. Broadcom MASTERS (Math, Applied Science, Technology and Engineering for Rising Stars) is intended to encourage, reward and celebrate the mastery of science, technology, engineering, and math among sixth, seventh and eighth grade science fair participants.

- Christopher Edmonds, seventh-grader at Edward Smith K-12 School, The Hidden Web: Internet Browsing, Behavioral Targeting and Tracking.
- Andrew Goldberg, seventh-grader at Christian Brothers Academy, Building My Battleship: Concerns for Galvanic Corrosion.
- Marlena Kruman and Mattie Riter, both sixth-graders at Homer Intermediate School, DNA: The Letters of Life.
- Jamila Eatman, eighth-grader at Syracuse Academy of Science Charter School, The Effects of Acid Rain on Non-Vertebrae Organisms in Lakes.
- Zachary Sussman, eighth-grader at Manlius Pebble Hill School, What's My HW?

Scholarships

Honeywell Summer Science Week at the MOST Scholarship, for eighth grade students,

worth \$1,000 each.

- Martin Welych-Flanagan, Bishop Grimes Junior Senior High School, The Effects of Short-Term Sea Level Fluctuations on Devonian Brachiopods.
- Imane Aitnajim and Amela Mujak, H.W. Smith School, Best Way to Preserve Apples.
- Nathan Lesch, Manlius Pebble Hill School, Phototropism.
- Bianca Melendez Martineau, Manlius Pebble Hill School, Tall Enough?
- Jamila Eatman, Syracuse Academy of Science Charter School, The Effects of Acid Rain on Non-Vertebrae Organisms in Lakes.
- Max Moore, Lincoln Middle School, The Greatest Achievement of a Potato Cannon.
- LuAnn Phillips and Mikayla Lang, East Middle School, The Erupting Volcano.
- Mariah McClendon, Syracuse Academy of Science Charter School, Color Affects.
- Zachary Sussman, Manlius Pebble Hill School, What's My HW?
- Max Charlamb, Manlius Pebble Hill School, Printing on Air.
- Sarah Babcock, Syracuse Academy of Science Charter School, What Liquid Causes Plants to Grow the Best?
- Mariah Storie, Manlius Pebble Hill School, Radioactive.
- Aubrey Trett and Alex Piczkur, West Genesee Middle School, Gel Electrophoresis Chamber.
- Joanna Maressa and Jeffrey Bush, Camillus Middle School, Rain or Snow: How Low Can It Go?
- Haley Morgan, Manlius Pebble Hill School, Radioactive Bacteria.

Le Moyne College Scholarship Award - \$45,000 each

- Olivia Sherppard, junior at Manlius Pebble Hill School, Reduction of Circulating Tumor Cells by Induction of Apoptosis via a TRAIL-Functionalized Nanostructured Shunt Device.
- Jay Khurana, a junior at Fayetteville Manlius High School, GESPA: A Novel Bioinformatics Tool for Prediction of Genetic Disease.

Morrisville State College Scholarship Award - \$5,000

- Cameron Baker, a senior at LaFayette Big Picture School, Compost Heated Greenhouse.

Onondaga Community College Summer Scholarship - \$492

- Clarice Edwards, a junior at Syracuse Academy of Science Charter School, Global Warming Can Give You a Heart Attack.

SUNY Cortland Science Leadership Scholarship - \$10,000

- Margaret Lovier, a junior at Skaneateles High School, Evaluation of MS and DKW Basal Salts on the Tissue Culture of Juglans nigra.

SUNY College of Environmental Science and Forestry Scholarship - \$4,000

- Cimone Jordan, a junior at G.W. Fowler High School, Effect of Greywater on Plant Growth.

Syracuse Pulp and Paper Foundation at SUNY ESF - \$4,000

- Gillian Lightenfield, a sophomore, and Safa ALQuraishi, a senior, both at Syracuse Academy of Science Charter School, More Jobs from the Same Tree.

Syracuse University Scholarship - \$20,000

- Bilgenur Sirin, a senior at Syracuse Academy of Science Charter School, Degradation of Polycyclic Aromatic Hydrocarbons in Contaminated Soil Amended with Fishbone Apatite and Iron (III) Oxide.

College of Engineering & Computer Science and Summer College at Syracuse University Scholarship Award - \$8,420

- Nyezee Goe, a junior at G.W. Fowler High School, Robopollution.

Upstate Dean's Award in the Biological Sciences - \$1,000

- Jay Khurana, a junior at Fayetteville Manlius High School, GESPA: A Novel Bioinformatics Tool for Prediction of Genetic Disease.

Merit Awards

Alpha Chi Sigma Chemistry Awards

- Hannah Goldberg, fifth-grader at Syracuse Hebrew Day School, Helping Frozen Toes: Effect of Catalyst on an Exothermal Reaction.

Central New York Section of the American Chemical Society - Awards in Chemistry

- Ryan Hinshaw, fifth-grader at Syracuse Hebrew Day School, Lincoln's Wash.
- Hannah Goldberg, fifth-grader at Syracuse Hebrew Day School, Helping Frozen Toes: Effect of Catalyst on an Exothermal Reaction.
- Katelyn Jasmin, fourth-grader at Bolivar Road Elementary School, Rock Candy.
- Olivia Sherppard, junior at Manlius Pebble Hill School, Reduction of Circulating Tumor Cells by Induction of Apoptosis via a TRAIL-Functionalized Nanostructured Shunt Device.

Cornell Women's Club of Syracuse Book Awards

- Kaitlyn Britt, fifth-grader at Homer Intermediate School, Does Age Affect Memory?
- Abby Morgan, sixth-grader at Manlius Pebble Hill School, Can Artificial Flavors Taste Natural?
- Madeline Scott, fourth-grader at Edward Smith K-12 School, Cat Toy Enrichment Study.

Earth Science Department (SU) Geology Award

- Martin Welych-Flanagan, eighth-grader at Bishop Grimes Junior Senior High School, The Effects of Short-Term Sea Level Fluctuations on Devonian Brachiopods.

IEEE Awards in Electrical and Computer Engineering

- Jay Khurana, a junior at Fayetteville Manlius High School, GESPA: A Novel Bioinformatics Tool for Prediction of Genetic Disease.
- Mariah Storie, and eighth-grader at Manlius Pebble Hill School, Radioactive.

- Kayla Vidal and Marwa AlQuraishi, both seniors at Syracuse Academy of Science Charter School, The Growth of Fe₃O₄ Nanoparticles on Graphene as Advanced Electrode Materials for Supercapacitors.
- Zaynah Wazen, a fourth-grader at Edward Smith K-12 School, Lauspeaker Concept.
- Signe Golash, a freshman at Corcoran High School, RSA Cryptography.

Le Moyne Excellence in Mathematics or Computer Science

- Zachary Sussman, an eighth-grader at Manlius Pebble Hill School, What's My HW?
- Jay Khurana, a junior at Fayetteville Manlius High School, GESPA: A Novel Bioinformatics Tool for Prediction of Genetic Disease.

Lockheed Martin Awards

- Kayla Vidal and Marwa AlQuraishi, both seniors at Syracuse Academy of Science Charter School, The Growth of Fe₃O₄ Nanoparticles on Graphene as Advanced Electrode Materials for Supercapacitors.
- Max Charlamb, eighth-grader at Manlius Pebble Hill School, Printing on Air.
- Mariah Storie, and eighth-grader at Manlius Pebble Hill School, Radioactive.
- Signe Golash, a freshman at Corcoran High School, RSA Cryptography.
- Jackson Marko, fourth-grader at Edward Smith K-12 School, Up, Up and Away.
- Addison Simone, a seventh-grader at Edward Smith K-12 School, Trajectory of an Arrow.
- Tyler Broschart, fourth-grader at Edward Smith K-12 School, Tyler's Undersea Explorer.
- Liza Cotter, sixth-grader at A.A. Gates Elementary School, Using Inexpensive Gyroscopic Sensors in Robotics Competitions.
- Aireyanna Kennedy and Elizabeth Morffi, both sophomores at Syracuse Academy of Science Charter School, Filtering Water Naturally.
- Grace Wright, fifth-grader at Homer Intermediate School, Which Windmill.

NASA/NY Space Grant Award

- Katite Roff, fifth-grader at Mae E. Reynolds School, Our Solar System.
- Emerson Czerwinski Burkhard, a junior at Manlius Pebble Hill School, Improvement in Crosswind Landing by Use of Intelligent Holonomic Landing Gear.

SUNY College of Environmental Science and Forestry Best Environmental Science Project

- Alexander Wulff, a freshman at Skaneateles Senior High School, Bioplastics: An Exploration of Nature's Plastic.
- M.P. Geiss, seventh-grader at Manlius Pebble Hill School, Are You Really Safe In Your Home?

SUNY Cortland Chemistry Award

- Olivia Sherppard, junior at Manlius Pebble Hill School, Reduction of Circulating Tumor Cells by Induction of Apoptosis via a TRAIL-Functionalized Nanostructured Shunt Device.

SUNY Oswego Genius Olympiad Awards

- Kaya Pagano, a freshman at Corcoran High School, Rain Garden Soil Suitability

- Jamaica Glass and Alana Barrot, both juniors at Syracuse Academy of Science Charter School.

Intel ISEF Awards

American Meteorological Society Award

- Joanna Maressa and Jeffrey Bush, both eighth-graders at Camillus Middle School, Rain or Snow: How Low Can It Go?

American Psychological Association Award

- Mark Gonzalski, a senior at Syracuse Academy of Science Charter School, CSI Effect

ASM Materials Education Foundation Award

- Vincent D'Arrigo, a senior at Cato-Meridian High School, Composite Concrete Compression Strengths and Their Relation to Different Additives and Concrete Mixtures.

Association for Women Geoscientists Award

- Grace Wright, fifth-grader at Homer Intermediate School, Which Windmill?

Intel Excellence in Computer Science Award

- Jay Khurana, a junior at Fayetteville Manlius High School, GESPA: A Novel Bioinformatics Tool for Prediction of Genetic Disease.

Mu Alpha Theta

- Juliann Hall, a sophomore at Cato-Meridian High School, The Study of Student Attributes' Effect on Mathematic Pattern Recognition.

National Oceanic and Atmospheric Administration (NOAA) "Taking the Pulse of the Planet" Award

- Clarice Edwards, a junior at Syracuse Academy of Science Charter School, Global Warming Can Give You a Heart Attack

Office of Naval Research - U.S. Navy and Marine Corps

- Rachel Annett, a junior at Cato-Meridian High School, The Effect of Various Professed Topical Healing Agents on the Regeneration Rate in *Dugesia tigrina*.
- Juliann Hall, a sophomore at Cato-Meridian High School, The Study of Student Attributes' Effect on Mathematic Pattern Recognition.
- Emerson Czerwinski Burkhard, a junior at Manlius Pebble Hill School, Improvement in Crosswind Landing by Use of Intelligent Holonomic Landing Gear.
- Allison Piedmonte, a senior at Cato-Meridian High School, A Physical Analysis of Ingestion Devices for Familial Tremor Patients.

Regional Ricoh Sustainable Development Award

- Gillian Lightenfield, a sophomore, and Safa ALQuraishi, a senior, both at Syracuse Academy of Science Charter School, More Jobs from the Same Tree.

Society for In Vitro Biology

- Jennifer DeRosa, a junior at Skaneateles High School, Inheritance and Segregation of Genes in Transgenic American Chestnut F1 Generation.

Stockholm Junior Water Prize

- Caleb Gretsky, a freshman at LaFaeytte Big Picture School, What Is the Better Growing Form?
- Kaya Pagano, a freshman at Corcoran High School, Rain Garden Soil Suitability.

U.S. Metric Association

- Kaya Pagano, a freshman at Corcoran High School, Rain Garden Soil Suitability .

United States Public Health Service - Surgeon General's Special Science Award

- Rachel Elman, seventh-grader at Manlius Pebble Hill School, Rolling With Routinization.

Yale Science and Engineering Association Inc.

- Emerson Czerwinski Burkhard, a junior at Manlius Pebble Hill School, Improvement in Crosswind Landing by Use of Intelligent Holonomic Landing Gear.

The **Milton J. Rubenstein Museum of Science & Technology** organized the science and engineering fair; Lockheed Martin, SRC Inc., Time Warner's Connect a Million Minds and the Technology Alliance of Central New York sponsored the event.

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