



For Immediate Release

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Central New York Science & Engineering Fair 2018

Top students continue to international competition

SYRACUSE, NY (March 27, 2018) - The 39th annual Central New York Science & Engineering Fair (CNYSEF) took place on Sunday, March 25, 2018 from 8:00 a.m. to 3:00 p.m. at SRC Arena on the Onondaga Community College campus. Students competed for more than \$200,000 in awards, and three of the top senior-level winners - as selected by the judges - earned all-expense-paid trips to the International Science & Engineering Fair, to be held May 13 through 18, 2018, in Pittsburgh, PA.

CNYSEF is organized by the Milton J. Rubenstein Museum of Science & Technology (MOST) with major funding support from Lockheed Martin and SRC Inc.

Congratulations to all 2018 CNYSEF winners!

Grand Prize - Invitation to Participate in the Intel International Science & Engineering Fair

- **Marina Cousins**, grade 12, Manlius-Pebble Hill School, *The Synthesis and Characterization of Novel Heteroleptic Alkaline Earth Metal Compounds*
- **Maximilian Du**, grade 10, Fayetteville-Manlius Senior High School, *Non-Invasive Detection of Life-Threatening Conditions During Sleep Using Recurrent Neural Networks*
- **Rachel Elman**, grade 11, Fayetteville-Manlius Senior High School, *Cognitive and Metabolic Effects of a High Fat Diet*

New York State Science Congress

- **Jamila Eatman**, grade 12, Syracuse Academy of Science Charter School, *Onondaga County Metro WWTP: A Quantitative Investigation to Determine*

the Transformations of THG in Correlation to Tn, Tc, and Dom Properties during Wastewater Treatment

- **Jacey Phillips**, grade 12, Cato-Meridian Senior High School, *The Effects of Washing Methods on a Population of Known Food-Borne Bacteria Colonizing in Craze Lines of Ceramic Plates*
- **Samantha Tuberman**, grade 11, Binghamton High School, *The Effects of Antibiotics on the Development of Drosophila Melanogaster*

Broadcom MASTERS

- **Robyn Fong**, grade 6, Immaculate Conception, *The Deadly Zebra Mussel: Lake Killer!*
- **Elise Eng**, grade 6, Manlius-Pebble Hill, *Wood Structure be teh Strongest?*
- **Jay Lu**, grade 6, Eagle Hill Middle School, *Is Your Password Secure?*
- **Caoimhe Dudgeon**, grade 6, Homer Junior High School, *How Heavy, Is Too Heavy*
- **Jonathan Braverman**, grade 7, Manlius-Pebble Hill, *What's In Your Water?*
- **Evan Zimmerman**, grade 7, Manlius-Pebble Hill, *Corrosion of Metals*
- **Neha Chhablani**, grade 7, Manlius-Pebble Hill, *Pain Relief and Drug Solubility*
- **Maggie Stokes-Rees**, grade 7, Manlius-Pebble Hill, *"Water" You Talking About?*
- **Liam O'Connor**, grade 8, Camillus Middle School, *Magnetism and Iron in our Blood*
- **Kiru Morrissette**, Manlius-Pebble Hill, *Harnessing the Power of a Virus in the War Against Bacteria*
- **Mary Smorol**, grade 8, Manlius-Pebble Hill, *Insta-Cool*
- **Matthew Roberson**, grade 8, Manlius-Pebble Hill, *Natural Remedy or Antibiotic? Inhibiting the growth of e. Coli*

Le Moyne College Scholarship Award (\$50,000)

- **Rachel Elman**, grade 11, Fayetteville-Manlius Senior High School, *Cognitive and Metabolic Effects of a High Fat Diet*
- **Runxin Li**, grade 11, Cascadilla School, *Investigating the Pathways of LDL, Triglycerides and HDL*

Syracuse University Scholarship (\$40,000)

- **Jamila Eatman**, grade 12, Syracuse Academy of Science Charter School, *Onondaga County Metro WWTP: A Quantitative Investigation to Determine the Transformations of THG in Correlation to Tn, Tc, and Dom Properties during Wastewater Treatment*
- **Jacey Phillips**, grade 12, Cato-Meridian Senior High School, *The Effects of Washing Methods on a Population of Known Food-Borne Bacteria Colonizing in Craze Lines of Ceramic Plates*

Onondaga Community College Summer Scholarship

- **Jeffrey Shi**, grade 11, Marcellus High School, *Analysis of Energy Conversation and GHG Reduction of Modified Trombe Wall*

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

- **Matthew Castrello**, grade 12, East Syracuse-Minoa Central High School, *Comparison of African Clawed Frogs and Goldfish in Aquaponics with Corresponding Vegetation Growth*
-

SUNY Cortland Science Leadership Scholarship (\$12,000)

- **Cole Wilson**, grade 11, Paul V. Moore High School, *The Effect of Electricity on the pH of Two Magnesium Sulfate Solutions Connected by a Salt Bridge*
-

Morrisville State College Scholarship Award (\$5,000)

- **Jasmine Sanz**, grade 12, Binghamton High School, *Rock My World! Impact of meteors using Earth sand and simulated Martian soil*
-

SUNY Broome Community College Summer Scholarship

- **Samantha Tuberman**, grade 11, Binghamton High School, *The Effects of Antibiotics on the Development of Drosophila Melanogaster*
-

Upstate Dean's Award in the Biological Sciences (\$500)

- **Rachel Elman**, grade 11, Fayetteville-Manlius Senior High School, *Cognitive and Metabolic Effects of a High Fat Diet*

MERIT AWARDS

2018 Ying Scholar Semifinalist

- **Jamila Eatman**

Alpha Chi Sigma (AXE) Chemistry Award

- **Mary Smorol**

CNY Section of the American Chemical Society-Awards in Chemistry

- **Farmaan Pannu** - Junior Division Winner
- **Jamila Eatman** - Senior Division Winner

Earth Science Department (SU) Geology Award

- **Matthew Castrello**

Energy 21 Symposium Award

- **Jesse Hunter**

IEEE Awards in Electrical and Computer Engineering

- **Cole Wilson**
- **Riley Phuc**
- **Azamat Karimov**

- Maximilian Du
- Dory Sinclair
- Kyler Crump

Le Moyne Excellence in Biology-Professor David L. Smith Memorial Award

- Matthew Castrello

Le Moyne Excellence in Mathematics or Computer Science

- Jay Lu - Junior Division Winner
- Maximilian Du - Senior Division Winner

Lockheed Martin Awards

- Jeffrey Shi
- Kyler Crump
- Ethan Haahr
- Maximilian Du
- Nicholas Capece
- Ayden Whitted
- Simon Fortner
- Jake Aretsky
- Landon Cook
- Gracie Bottrill
- Jay Lu

NASA/NY Space Grant Award

- Abigail Walsh
- Alicia Oberlender

SUNY College of Environmental Science and Forestry Best Environmental Science Project

- Jamila Eatman
- Jeffrey Shi

SUNY Cortland Chemistry Award

- Arabella Henry

SUNY Oswego Genius Olympiad Awards

- Jamila Eatman
- Jeffrey Shi
- Marina Cousins

Terra Science and Education Award

- Liam Scully
- Kevin Gonci
- Kyler Crump
- Farmaan Pannu
- Nehemiah Chao
- Jay Lu
- Jeffrey Shi

- Jamila Eatman
- Wah Hee Dar
- MooRa Say
- Marina Cousins
- Maximilian Du

Signe Golash Mathematics Award

- Caoimhe Dudgeon

INTEL ISEF AWARDS

American Meteorological Society

- AJ Sikora
- Eden Shirilan-Howlett

American Psychological Association (APA)

- Rachel Elman

Association for Women Geoscientists

- Jasmine Sanz

ASU Walton Sustainability Solutions Initiatives

- Jeffrey Shi

Intel Excellence in Computer Science Award

- Maximilian Du

Mu Alpha Theta National High School and Two-Year College Mathematics Club

- Maximilian Du

NASA Earth Systems Science Award

- Jaden Duggal

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

- AJ Sikora

Office of Naval Research-Naval Science Award

- Maximilian Du
- Rachel Elman
- Marina Cousins
- Nehemiah Chao
- Caoimhe Dudgeon
- Ayden Whitted

- **Evan Zimmerman**

Ricoh Sustainable Development Award

- **Anigail Walsh**
- **Alicia Oberlender**

Society for In Vitro Biology

- **Runxin Li**

Stockholm Junior Water Prize

- **Jamila Eatman**
- **Matthew Castrello**
- **Yechen Yang**

U.S. Air Force

- **Giovanni Kerner**

U.S. Metric Association

- **Caoimhe Dudgeon**

Yale Science and Engineering Association Inc.

- **Jeffrey Shi**

About the MOST

The Milton J. Rubenstein Museum of Science & Technology (MOST) is a science and technology museum for people of all ages whose vision is to be a preeminent science and technology center, inspiring all generations through hands-on education and entertainment.

The MOST is regularly open 10 a.m. to 4 p.m. Wednesday through Sunday. The Museum is open Monday and Tuesday for holidays and local school vacations. For hours and pricing information, visit most.org or call 315.425.9068.

Milton J. Rubenstein Museum of Science & Technology
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