For Immediate Release

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Central New York Science & Engineering Fair 2019

SYRACUSE, NY (April 1, 2019) - The **40th annual Central New York Science & Engineering Fair (CNYSEF)** took place on Sunday, March 31, 2019 from 8 a.m. to 4 p.m. at SRC Arena on the campus of Onondaga Community College. Students competed for many available awards, and three of the top senior-level winners - as selected by the judges - earned all-expense-paid trips to the Intel International Science & Engineering Fair, to be held May 12 through May 17, 2019 in Phoenix, AZ.

CNYSEF is organized by the Milton J. Rubenstein Museum of Science & Technology (MOST) with major funding provided by SRC Inc., Lockheed Martin, and The Dorothy and Marshall M. Reisman Foundation.

GRAND PRIZE - Invitation to Participate in the Intel International Science & Engineering Fair

- **Jason Cho**, grade 11, Fayetteville-Manlius Senior High School, *Creating A Sustainable Engineering System for Urban Green Roof Drainage Irrigation via a Two Way Heavy Metal Removal Mechanism Involving Photocatalytic Reduction and Phytoremediation*
- **Maximilian Du**, grade 11, Fayetteville-Manlius Senior High School, *Enhancing Wind Power Predictions by Using Weather Data and Improving LSTMs*
- **Jay Hunter**, grade 12, Cato-Meridian Senior High School, *Investigating the Potentially Letha Effects of Kratom when Combined with Over the Counter Medications and Readily Available Household Products on Daphnia Heart Rate to Mimic the Dangers of Teen Drug Fabrication and Abuse*

New York State Science Congress

- **Philip Martin**, grade 12, West Genesee Senior High School, *Mechanical Effects of Dynamic Binding between Tau proteins on Microtubules during Axonal Injury*

- **Koshala Mathuranayagam**, grade 12, Fayetteville-Manlius Senior High School, *Structural Studies of Alkaline Earth Metal Trans-Azobenzene Complexes*
- **Rebecca White**, grade 11, Fayetteville-Manlius Senior High School, *Reanalysis and Reclassification of Gravitational Wave Candidate LVT151012 Using PyCBC Matched-Filter Searches*
- **Elise Eng**, grade 7, Manlius-Pebble Hill School, *Roundup for Breakfast? Glyphosate Contamination In Everyday Foods*
- **Drey'Von Simmons**, grade 8, Manlius-Pebble Hill School, *The Force*

Broadcom MASTERS

- **Amitees Fazeli**, grade 6, Manlius-Pebble Hill School, *Sterilizing UV*
- **Suhaib Fakhr**, grade , Ihsan School of Excellence, Which Solution is the Most Effective in Eliminating Bacteria on a Toothbrush?
- **Alina Loginov**, grade 6, Lansing Middle School, *Effects of Diet on Circulating Biomarkers Associated with Microvascular Inflammation*
- **Alexa Rose Battaglia**, grade 6, Manlius-Pebble Hill School, *Backyard Bactericides*
- **Elise Eng**, grade 7, Manlius-Pebble Hill School, *Roundup for Breakfast? Glyphosate Contamination in Everyday Foods*
- **Caoimhe Dudgeon**, grade 7, Homer Junior High School, *Measuring Model Rocket Engine Performance and Consistency on a Test Stand*
- **Connor Boyle** (grade 7) & **Ethan Haahr** (grade 6), Roxboro Road Middle School, *5 Second Rule*
- **Ayden Whitted**, grade 7, Manlius-Pebble Hill, *Gauss Rifle*
- **Drey'Von Simmons**, grade 8, Manlius-Pebble Hill School, *The Force*
- **Abigail Hinshaw**, grade 8, Manlius-Pebble Hill, *A Helping Hand*
- **Amanda Martinez**, grade 8, Seton Catholic-Central High School, *Which is More Effective at Killing Bacteria: Hand Sanitizer vs. Soap*
- **Maggie Stokes-Rees**, grade 8, Manlius-Pebble Hill, *Plastic Failure*

Le Moyne Scholarship Award ($20,000)

- **Rebecca White**, grade 11, Fayetteville-Manlius Senior High School, *Reanalysis and Reclassification of Gravitational Wave Candidate LVT151012 Using PyCBC Matched-Filter Searches*
- **Jianing Xu**, grade 11, Cascadilla School, *Evaluating the Mitogenic Activity of Tetrahymena Pyriformis in Response to Serum IgA and sigA*

Syracuse University Scholarship ($40,000)

- **Lalita Dahal**, grade 11, Syracuse Academy of Science Charter School, *Gonadal Histopathology of Freshwater Mussels (Elliptio complanata) Induced by Atrazine*
- **Maximilian Du**, grade 11, Fayetteville-Manlius Senior High School, *Enhancing Wind Power Predictions by Using Weather Data and Improving LSTMs*

Onondaga Community College Summer Scholarship

- **Zachary Palmo**, grade 11, Paul V. Moore High School, *The Making of Healthier Candy*

SUNY College of Environmental Science and Forestry Scholarship

($4,000)

- **Jason Cho**, grade 11, Fayetteville-Manlius Senior High School, *Creating A Sustainable Engineering System for Urban Green Roof Drainage Irrigation via a Two Way Heavy Metal Removal Mechanism Involving Photocatalytic Reduction and Phytoremediation*

SUNY Cortland Science Leadership Scholarship ($12,000)

- **Div Patel**, grade 11, Auburn High School, *How to Use Stem Cells to Bio-engineer a Kidney*

SUNY Morrisville Scholarship Award ($5,000)

- **Amina Andelija**, grade 12, Syracuse Academy of Science Charter School, *Water Purification*

SUNY Broome Community College Summer Scholarship

- **Daniel Aribisala**, grade 11, Seton Catholic-Central High School, *The Effect of Fluorine in Toothpaste on Oral Bacteria*

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

- **Lalita Dahal**, grade 11, Syracuse Academy of Science Charter School, *Gonadal Histopathology of Freshwater Mussels (Elliptio complanata) Induced by Atrazine*

Syracuse Pulp and Paper Foundation at SUNY ESF ($4,000)

- **Farmaan Pannu**, grade 6, St. John The Evangelist School, *Bio-Batteries. Paper-Based Microbial Fuel Cell*

MERIT AWARDS

2019 Ying Scholar Semifinalist

- **Jason Cho**

Alpha Chi Sigma (AXE) Chemistry Award

- **Benjamin Resig**

Alpha Omega Epsilon Award

- **Rebekah Haris**
- **Karla Anamaria**
- **Nadia Greco**
- **Theresa White**
- **Kaitlyn Cohen**

CNY Section of the American Chemical Society - Awards in Chemistry

- **Farmaan Pannu** - Junior Division Winner
- **Jason Cho** - Senior Division Winner

Earth Science Department (SU) Geology Award

- **Jdaria Thompson**
- **Migual Mathis**

Energy 21 Symposium Award

- **Maximilian Du**

IEEE Awards in Electrical and Computer Engineering

- **Ibrahim Abdul-Qadir**
- **Kyler Crump**
- **Ayden Whitted**
- **Maximilian Du**
- **Emma Effinger**

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

- **Wenyang Wei**

Le Moyne Excellence in Mathematics or Computer Science

- **Caoimhe Dudgeon** - Junior Division Winner
- **Maximilian Du** - Senior Division Winner

Lockheed Martin Awards

- **Abigail Hinshaw**
- **Rebekah Harris**
- **Karla Anamaria**
- **Ayden Whitted**
- **Maximilian Du**
- **Kyler Crump**
- **Nicholas Rockwell**
- **Caoimhe Dudgeon**
- **Drey'Von Simmons**
- **Emma Effinger**

NASA/NY Space Grant Award

- **Madelynn Huff**
- **Rebecca White**

SUNY College of Environmental Science and Forestry Best Environmental Science Project

- **Jaden Duggal**
- **Elise Eng**

SUNY Cortland Chemistry Award

- **Dufort Jackson**

SUNY Oswego Genius Olympiad Awards

- **Ahmad Hassan**
- **Lalita Dahal**

Terra Science and Education Award

- **Leo Nguyen**
- **Jared Duggal**
- **Maximilian Du**
- **Jason Cho**
- **Ahmad Hassan**
- **Rebecca White**
- **Logan Mills**
- **Theresa White**
- **Kevin Gonci**
- **Philip Martin**

Signe Golash Mathematics Award

- **Madina Iskandarov**
- **Danielis Zapata-Perez**

INTEL ISEF AWARDS

American Meteorological Society

- **Shimi Cooper**
- **Jadalynn Vile**

American Psychological Association (APA)

- **Jay Hunter**

Association for Women Geoscientists

- **Morgan Purcell**

ASM Materials Education Foundation

- **Maggie Stokes-Rees**

Intel Excellence in Computer Science Award

- **Rebecca White**

Lemelson Foundation Prize

- **Abigail Hinshaw**

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

- **Rebecca White**

NASA Earth Systems Science Award

- **Jdaria Thompson**
- **Migual Mathis**

National Oceanic and Atmospheric Administration (NOAA) "Taking the

Pulse of the Planet" Award

- **Maximilian Du**

Office of Naval Research - Naval Science Award

- **Maximilian Du**
- **Andrew Zalesski**
- **Jason Cho**
- **Amitees Fazeli**
- **Manya Kukkar**
- **Kari Maxian**

Ricoh Sustainable Development Award

- **Elise Eng**

Society for In Vitro Biology

- **Daniel Aribisala**

Stockholm Junior Water Prize

- **Jason Cho**

U.S. Air Force

- **Jason Cho**
- **Rebecca White**
- **Philip Martin**
- **Liam O'Connor**

U.S. Metric Association

- **Rishi Gudapati**

Yale Science and Engineering Association Inc.

- **Maximilian Du**

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About the MOST

The Milton J. Rubenstein Museum of Science & Technology (MOST) is a hands-on science and technology museum for all ages. The MOST hosts numerous STEM education programs and community outreach events annually and is home to 35,000 square feet of interactive permanent and traveling exhibits, Silverman Planetarium, and Bristol IMAX® Omnitheater - the only domed IMAX theater in New York State. The MOST's 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 5 p.m. Wednesdays through Sundays. The Museum is open on Mondays and Tuesdays for local school Winter Recess, Midwinter Break and Spring Break. For hours and pricing, visit **most.org** or call 315.425.9068.