

# 2017 CNY Science & Engineering Fair Awards

## CERTIFICATES & HONORS

The success of a science fair project is judged by a number of standards but should NOT be measured by the awards a participant receives. The goal of the Central New York Science & Engineering Fair (CNYSEF) is to create an opportunity that encourages young people to ask questions and investigate the answers, cultivating a richer understanding of their world. However, the CNYSEF is also a competition and sponsors awards for scientific achievement.

**CNYSEF Certificates of Participation** will be given to all participating students in recognition of their immense effort in developing a project, creating an exhibit and discussing their research.

**MOST Membership:** Each participant will receive a one year membership to the Milton J Rubinstein Museum of Science & Technology located in historic Armory Square, Syracuse New York.

**CNYSEF Award Medallions** will be received by 30-60% of the participants. Three levels of CNYSEF awards are given based on the following criteria and at the discretion of the judges:

**Honors:** The participant shows an above average understanding of a scientific/engineering principle.

**High Honors:** The participant shows an above average effort in understanding a scientific/engineering principle. The oral presentation, exhibit and written report show well-above-average effort, attention to detail and level of interest.

**Highest Honors:** The participant shows a clear, in-depth understanding of a scientific/engineering principle. The oral presentation, exhibit and written report show superior effort, attention to detail and level of interest.

## MERIT AWARDS

### 2017 Ying Scholar Semifinalist

Presented to a project for its potential to impact the world  
AWARD: One senior level research projects. Certificate, \$500, and invitation to advance to the Ying Scholars Competition as semifinalist

### Alpha Chi Sigma (AXE) Chemistry Awards

Recognizes outstanding accomplishments in fundamental or applied chemical sciences.

AWARD: Certificate and the book—The Elements: a Visual Exploration

### Cazenovia College

Recognizes all student participants and research projects.

AWARD: Each participant receives a gift bag from the College.

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

Recognizes excellence in the understanding or implementation of chemistry principles.

AWARD: “Best in Show” certificate and award in two grade divisions: \$75 Barnes and Noble gift card for Junior Division and \$125 Barnes and Noble gift card for Senior Division

### Earth Science Department (SU) Geology Award

This award recognizes excellence in Earth Science research and is open to all participants.

AWARD: Certificate and \$200

### IEEE Awards in Electrical and Computer Engineering

These awards are given to students showing mastery of projects in the area of electricity & magnetism, electronics, computer science or optics.

AWARD: Five awards of a certificate and \$50 each

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

The Le Moyne Excellence in Biology award will recognize a senior project demonstrating excellence in the field of biology.

AWARD: Certificate and book award

### Le Moyne Excellence in Mathematics or Computer Science

The Le Moyne Excellence in Mathematics or Computer Science award will recognize both Junior and Senior projects demonstrating excellence in these fields.

AWARD: One \$100 gift certificate for Junior Division and one \$200 gift certificate for Senior Division

### Lockheed Martin Awards

These awards recognize excellence in engineering and technology.

AWARD: Ten gift bags are awarded to both Junior and Senior projects

### NASA/NY Space Grant Award

This award recognizes excellence in Earth and Planetary Science, and Physics and Astronomy.

AWARD: \$100 for best junior level Earth and Planetary Science (EA) project and \$200 for best High School level Physics and Astronomy (PH) project

### SUNY College of Environmental Science and Forestry Best Environmental Science Project

This award recognizes achievement in environmental science projects.

AWARD: Two \$50 Gift Certificates

### **SUNY Cortland Chemistry Award**

This award recognizes excellence in chemistry research and is open to all participants.

AWARD: Theo Gray's Mad Science: Experiments You Can Do At Home— But Probably Shouldn't [Hardcover]

### **SUNY Oswego Genius Olympiad Awards**

This award recognizes achievement in promotion of environmental issues and finding solutions to global environmental problems through scientific research, experimentation and presentation.

AWARD: Three awards 8th–12th grade. Certificate and invitation to advance to the Genius Olympiad, June 14th –17th, 2017

### **Terra Science and Education Award**

This award will be given to 10 outstanding STEM projects. This award will be given to five projects from the Junior level and five from the Senior level.

AWARD: Certificate and \$50 gift card for each project.

## **INTEL ISEF AWARDS**

These awards are provided by Intel ISEF.

### **American Meteorological Society**

Two awards for individual or team project (junior or senior division) for best meteorological exhibit.

AWARD: Certificate of Recognition

### **American Psychological Association (APA)**

This award recognizes outstanding research in psychology (junior or senior division) under the category of behavioral and social sciences. No team award is given.

AWARD: Certificate

### **ASM Materials Education Foundation (American Society for Metals)**

Award is for the best materials engineering project. This is a single award in the junior or senior division. No team award is given.

AWARD: Certificate and Medallion: The formal certificate and medallion will be mailed in July or August. The student will be presented with a preliminary certificate at the fair.

### **Association for Women Geoscientists**

This award is offered to female students. These projects should exemplify high standards of innovativeness and scientific excellence in the geosciences. Special consideration will be given to projects that increase the public awareness of geosciences, illustrate the interdisciplinary nature of the geosciences, or promote the sensitivity to Earth as a global system. This may be given to the junior or senior division, team or individual.

AWARD: Certificate

### **ASU Walton Sustainability Solutions Initiatives**

ASU Walton Sustainability Solutions Initiatives is pleased to recognize two high school projects in grades 9-12 who seek innovative solutions to humanity's most challenging problems.

AWARD: Certificate and nomination to advance to the

2017 Sustainability Solutions Festival held in Arizona.  
Two awards

### **Intel Excellence in Computer Science Award**

Winners of the Intel Excellence in Computer Science Award will receive an Intel Award. This award may be given to an individual or a team. The award is only for the senior division.

AWARD: Certificate and \$200 to be sent to student after the student completes the required paperwork. If a team award, the \$200 will be shared by members of the team.

### **Mu Alpha Theta**

This is the National High School and Two-Year College Mathematics Club. It is intended that this recognition be awarded to a senior division individual or group project demonstrating the most challenging, thorough, creative investigation of a problem involving mathematics.

AWARD: Certificate

### **NASA Earth Systems Science Award**

Presented to the students whose project offers the greatest insight into Earth's interconnected systems.

AWARD: Certificate

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

This award goes to research that emphasizes NOAA's mission to understand and predict changes in Earth's environment and to conserve and manage coastal and marine resources to meet our nation's economic, social and environmental needs.

AWARD: Certificate, NOAA Medallion

### **Office of Naval Research—Naval Science Award**

This award recognizes any meritorious STEM project Junior or senior division, but no teams.

AWARD: Three senior division: certificate, medallion and \$50 gift card. Three junior division: certificate and medallion.

### **Ricoh Sustainable Development Award**

Presented to the student whose research has demonstrated the principles and technical innovations that offer the greatest potential for sustainable development.

AWARD: Certificate

### **Society for In Vitro Biology**

To be awarded to the most outstanding 11th grade student exhibiting in the areas of plant or animal in vitro biology or tissue culture. This is an individual award.

AWARD: Certificate

### **Stockholm Junior Water Prize**

This is for the best project related to water quality, water resource management, water protection, water treatment or wastewater treatment. This is a senior division award.

AWARD: Certificate for up to three participants in the senior division. Winners may register to compete in the State, competition. All state winners receive an all-expenses paid trip to the national competition. The

U.S. winner receives \$10,000, a trophy, and an all-expenses paid trip to Stockholm, Sweden, to participate in the international competition. Students must complete the online form to compete at the higher level.

### **U.S. Air Force**

In recognition of excellence in science, technology, engineering and mathematics.

AWARD: Four awards: Certificate and US Air Force backpack

### **U.S. Metric Association**

This is for a student whose project involves a significant amount of quantitative measurement and which best uses the SI metric system for those measurements. All students are eligible.

AWARD: Certificate

### **Yale Science and Engineering Association Inc.**

This award is given to the most outstanding 11th grade student exhibiting in the areas of Computer Science, Engineering, Physics or Chemistry (only individual projects).

AWARD: Certificate and pewter medallion will be sent to the winner after the fair Director mails in the winner's form. A preliminary certificate will be provided to the recipient at the fair.

## **REGIONAL AWARDS**

Awards are provided by CNY organizations, colleges, and corporations.

### **SUNY Broome Community College Summer Scholarship**

This scholarship will be awarded to one senior level participant.

AWARD: The scholarship includes a certificate for a 3 credit hour course during the summer session.

### **Honeywell Summer Science Week at the MOST Scholarship**

Recognizes 8th grade students who have shown interest in science and research and provides admission to a weeklong summer science field camp. Up to 20 awards provided.

AWARD: Acceptance to Honeywell Summer Science Week

### **Le Moyne College Scholarship Award—\$50,000**

Two scholarships awarded to high school juniors in recognition of outstanding leadership, research, and accomplishments in the field of science.

AWARD: The winners of the Le Moyne College Scholarship award will receive \$12,500 per year tuition assistance for four years

### **Morrisville State College Scholarship Award—\$5,000**

Senior Level Participant award for exceptional study and accomplishment in a field of technology.

AWARD: The winner of the Morrisville State College Scholarship award will receive \$1,250 tuition

assistance for four years

### **Onondaga Community College Summer Scholarship**

This scholarship will be awarded to one senior level participant.

AWARD: The scholarship includes a certificate for a 3 credit hour course during the summer session

### **SUNY Cortland Science Leadership Scholarship—\$10,000**

This scholarship is awarded to one Senior level participant in recognition of outstanding leadership, research, and accomplishments in the field of science.

AWARD: The winner of the SUNY Cortland Science Leadership Scholarship will receive \$2,500 tuition assistance for 4 years

### **SUNY College of Environmental Science and Forestry Scholarship—\$4,000**

This scholarship is awarded to one senior level participant in recognition of outstanding accomplishments in the field of environmental science.

AWARD: The winner of the SUNY ESF Scholarship award will receive \$1,000 tuition assistance for four years

### **Syracuse Pulp and Paper Foundation at SUNY ESF—\$4,000**

This scholarship is awarded to one senior level participant in recognition of outstanding accomplishments in the field of paper engineering.

AWARD: The winner of the Syracuse Pulp and Paper Foundation Scholarship will receive \$500 per semester tuition assistance for four years at SUNY ESF (student must be enrolled in the Paper Engineering Program)

### **Syracuse University Scholarship—\$20,000**

Two senior level participants will be awarded this scholarship to Syracuse University in recognition of their outstanding achievement in their scientific endeavors.

AWARD: The SU Scholarship Award winners will receive \$5,000 tuition assistance for four years

### **Upstate Dean's Award in the Biological Sciences—\$500**

This award is given to an outstanding high school student whose project has demonstrated creativity, innovation and scientific excellence in the biological sciences. Judges will be faculty from Upstate's College of Graduate Studies.

AWARD: The Dean's Award winner will receive a \$500 award and a plaque

## **GRAND PRIZES**

**Up to 12 Junior Level projects** will be 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 6th, 7th and 8th grade

science fair participants.

**Up to three Senior Level projects** will be chosen to attend the **New York State Science Congress** on Saturday, June 3, 2017 hosted by SUNY at Buffalo. The Central Section of the Science Teachers Association of New York State and the MOST provides \$200 for registration and travel stipend per student.

**The Three top Senior Level projects** will be chosen to attend the **Intel International Science and Engineering Fair** in Los Angeles, California, May 14-19, 2017, all expenses paid.