Special Awards 2024

The American Psychological Association offers a certificate and a one-year student membership to the American Psychological Association to the student whose project demonstrates excellence in the study of Behavioral Science.

From Orlando Science Middle School: Ayaan Patel And from Lake Highland Preparatory School: Harris Layson

A member of the Arnold Palmer Invitational Tournament Volunteer Team offers two tickets to the Saturday, March 9, tournament date to a student in the Junior category with a golf project:

From International Community School: Jacob Currie

The Association for Women Geoscientists awards a female student whose project exemplifies high standards of innovativeness and scientific excellence in the geosciences. In addition, the Dr. Nelson Ying Orange County Science Exposition adds a \$25.00 cash award.

From St. John Vianney Catholic School: Valentina Justiniano Rodriguez And from Lake Eola Charter School: Olivia Gulsoy

The Florida Association of Science Teachers (FAST) awards a certificate and \$25.00 to two students, one in the Junior Division and one in the Senior Division, whose projects exemplified creative research in any area

From Leaders Preparatory School: Talyah Elimairi And from Lake Highland Preparatory School: Isabella Delbakhsh

The International Community School offers a \$25 gift card to a student whose project demonstrated the application of the scientific method to an original idea in the Physical Sciences

From Leaders Preparatory School: Saif Alsalaimeh

Kelly's Ice Cream awards a \$25 gift card to a student in any category that displays exemplary use of the scientific method.

From Lake Eola Charter School: Colby Howard Parrish

Leaders Preparatory School recognizes the following projects for their innovation and creativity and awards each student with \$25.00 cash.

From International Community School: Olivia Hyer From St. John Vianney Catholic School: Leiya de la Rosa From Orlando Science Middle School: Riddhi Patel From Leaders Preparatory School: Rawan Nehri From Trinity Preparatory School: Jadyn Jessen

And also from Trinity Preparatory School: Elliet McDermed

The National Aeronautics and Space Administration (NASA) offers a certificate and the Dr. Ying Orange County Science Exposition adds a \$25.00 cash award to a student whose project demonstrated insight into Earth's interconnected systems (atmosphere, climate, water systems, geosciences, environment, etc.)

From Orlando Science High School: Monish Saravana Sundari

The National Oceanic and Atmospheric Administration (NOAA) awards a certificate to a student and a congratulatory letter to the student's teacher. The project involved research that emphasizes climate, weather, oceans, coasts, and conservation of aquatic ecosystems.

From Orlando Science High School: Mahie Patil And from Saint John Vianney Catholic School: Valentina Justiniano Rodriguez

The Office of Naval Research awards a certificate and medallion to the following junior division students whose projects exhibited Naval applications:

From St. John Vianney Catholic School: Zara Weber From Lake Eola Charter School: Mason Batista From Lake Eola Charter School: Timothy Barton

And from St. John Vianney Catholic School: Valentina Justiniano Rodriguez

The Office of Naval Research also awards a certificate and medallion to the following senior division students whose projects exhibited Naval applications.

From Orlando Science High School: Mahie Patil And from Trinity Preparatory School: Jerry Chen

Peritz Properties of Winter Park offers the following awards to students whose projects exemplified excellence related to Sports, Exercise, and/or the Health Sciences:

From Maitland Montessori School, Hudson Corbin From Saint John Vianney Catholic School, Max Bell From Lake Eola Charter School, Gabriel Luces And from Leaders Preparatory School, Alma Sibai. Peterbrooke Chocolate of Winter Park awards the "Eat More Chocolate" award of a \$25.00 gift card to a high-quality project in the food sciences:

From Lake Eola Charter School: Indigo Higgs

Ricoh Americas Corporation awards a certificate and publicity on the RICOH website and the Dr. Nelson Ying Orange County Science Exposition adds a \$25.00 cash award to the projects that displayed technological and scientific innovations that best reflect the principles of sustainability.

From International Community School: Judah Stanley

And from Horizon High School: Harsh Jha

The Society for In-Vitro Biology awards a certificate, congratulatory letter, and publicity in the society's newsletter to the student whose project exhibited plant or animal in vitro biology or tissue culture.

From Trinity Preparatory School: Dylan Wang

And from Lake Highland Preparatory School: Anya Shah

The Stockholm Junior Water Prize competition awards a certificate to Junior division students who exhibited outstanding water-related projects.

From Orlando Science Middle School: Neela Jagmohan

From Lake Eola Charter School: Sofia Brown From Orlando Science Middle School: Aarit Dixit And from Lake Eola Charter School: Brianna Mendoza

The Stockholm Junior Water Prize also awards a certificate and the opportunity to enter a STATE competition to the following Senior level projects:

From Orlando Science High School: Monish Saravana Sundari

From Orlando Science High School: Tiffani Gay From Orlando Science High School: Mahi Patil

And from Trinity Preparatory School: Elliet McDermed

The U.S. Metric Association offers a certificate and a membership to the U.S. Metric Association to a student whose project demonstrated extensive use of metric measurements and used them properly.

From Orlando Science High School: Abigail Merchant

The United States Air Force awards packages that include a sling pack, a power bank, a USB Flash Memory Drive, a USB Car Charger, and an Official Air Force Certificate to four students who exhibited outstanding projects with Air Force Applications.

From Lake Eola Charter School: Mason Batista

From Saint John Vianney Catholic School: Brianna O'Neal

From Lake Eola Charter School: Julian Powell

From Saint John Vianney Catholic School: Anastasios Mayrofrides

From Saint John Vianney Catholic School: Luke Fleischman

From Lake Eola Charter School: Benjamin Soliman From International Community School: Jacob Currie

And from Saint John Vianney Catholic School: Sabrina Atencio

The Yale Science and Engineering Association awards a certificate and a pewter medallion to an outstanding Senior Division student in one of the following categories: Computer Science, Engineering, Physics, or Chemistry.

From Trinity Preparatory School: Jerry Chen

And also from Trinity Preparatory School: Will Martyny

The International Science and Engineering Fair, Regeneron, and the Society for Science which offers a \$375 cash award and a certificate to an exceptional student scientist who demonstrates an impressive command of biomedical science and research.

From Trinity Preparatory School: Dylan Wang

The D.O.D. STEM Leadership Prize is to be given to one project of a middle school student(s) in the 6th, 7th, or 8th grade that meets the following award criteria. The criteria are that the student or students:

- Excel in STEM knowledge and technical skills by placing 1st 8th place in category judging
- Demonstrate problem-solving skills and determination to overcome challenges throughout their research project
- Exemplify leadership qualities through excellent communication skills and creative thinking

This year's award went to:

From Orlando Science Middle School, Anishka Sharma

The Lemelson Early Inventor Prize of \$100.00 goes to a sixth--, seventh--, or eighth-grade student inventor competing in the Dr. Nelson Ying Orange County Science Exposition. This year, The Lemelson Early Inventor Prize is only being offered at 270 affiliate science fairs that also award the Thermo-Fisher Scientific Junior Innovators Challenge nominations. The Lemelson Early Inventor Prize is given to one project of a middle school student that meets the invention award criteria of:

- Demonstrates problem-finding skills by identifying a critical problem that impacts their life and others;
- Develops a tangible, inventive solution that is novel and that positively impacts others;
- Identifies and explains how STEM principles relate to their solution;
- Have a well-developed design process that demonstrates critical thinking skills by identifying, testing, and documenting various design choices;
- Create a functional prototype or have a clearly, developed design or process.

The Lemelson Early Inventor Prize, sponsored by the Lemelson Foundation and the Society for Science & the Public, celebrates young inventors whose projects exemplify the ideals of inventive thinking. This year, we were proud to award this prize to: From Lockhart Middle School, Adrian Jose Alvarez.

Category Awards

4th place, honorable mention in Junior Animal Sciences:

From Orlando Science Middle School, Iris Dhananjay

4th place, honorable mention in Junior Behavioral & Social Sciences:

From Lake Eola Charter School, Hazel Goodsell

 4^{th} place, honorable mention in Junior Biomedical & Health Sciences:

From Lake Eola Charter School, Oliver Van Voorhis

From Maitland Montessori School, Sophia Morales

And from Saint John Vianney Catholic School, Adrianna Morrison

4th place in Junior Cellular/Molecular Biology & Biochemistry:

From Orlando Science Middle School, Anushka Sinha

4th place, honorable mention in Junior Chemistry:

From Orlando Science Middle School, Riddhi Patel

From International Community School, Olivia Hyer

And from International Community School, the team of Bryce Hand & Joshua Tejera

4th place, honorable mention in Junior Earth & Environmental Sciences:

From Leaders Preparatory School, Fatima Bouidre

From Lake Eola Charter School, June Vinton

And from Lake Eola Charter School, Brianna Mendoza

4th place, honorable mention in Junior Engineering:

From Orlando Science Middle School, David Avila

And from Lake Eola Charter School, Jaycob Soliman

4th place, honorable mention in Junior Environmental Engineering:

From Leaders Preparatory School, Suhail Al-Gumary

And from Lake Eola Charter School, Sofia Brown

 4^{th} place in Junior Intelligent Machines, Robotics and Systems Software:

From Leaders Preparatory School, Rawan Nehri

From Lake Eola Charter School, Solen Sequenzia

And from Lake Eola Charter School, Ivanka Seale

4th place in Junior Mathematics and Computational Sciences:

From Orlando Science Middle School, Neyati Devnani

And also from Orlando Science Middle School, Soha Chhabra

4th place, honorable mention in Junior Microbiology:

From International Community School, Sarah Burman

From Saint John Vianney Catholic School, Mariano Rocafort Rivera

And from International Community School, Asher Angstrom

4th place, honorable mention in Junior Physics and Astronomy:

From Orlando Science Middle School, Sudhiksha Matha From Lake Eola Charter School, Amir Meitis From Lake Eola Charter School, James Hollingsworth From International Community School, Addison Dilger And from Leaders Preparatory School, Eyman Fathalla

4th place, honorable mention in Junior Plant Sciences:

From Leaders Preparatory School, Sabrin Amiry

In the Senior Division:

 4^{th} place, honorable mention in Senior Behavioral & Social Sciences:

From West Orange High School, April Surac

Congratulations to all of the fourth-place winners of the 2023-2024 Ying Expo!

 $3^{rd} \ place \ in \ Junior \ Animal \ Sciences$:

From Saint John Vianney Catholic School, Sophia Santana

 $3^{\rm rd}$ place in Junior Behavioral and Social Science:

From Leaders Preparatory School, Ellior Umar

 $3^{\rm rd}$ place in Junior Biomedical and Health Sciences:

From Leaders Preparatory School, Chaiya Deane

And also from Leaders Preparatory School, Laith Hnaihen

3rd place in Junior Cellular/Molecular Biology & Biochemistry:

From Leaders Preparatory School, Abdullah Alnaizy

And From Lake Eola Charter School, Lazar Becker

3rd place in Junior Chemistry:

From Saint John Vianney Catholic School, Leiya de la Rosa

And from Lake Eola Charter School, Ethyn Wade

3rd place in Junior Earth & Environmental Sciences:

From Saint John Vianney Catholic School, Valentina Justiniano Rodriguez

And also from Saint John Vianney Catholic School, Valentina Mayorquin

3rd place in Junior Engineering:

From Lake Eola Charter School, Mason Batista
From Leaders Preparatory School, Butoul Dohset
And also from Leaders Preparatory School, Layla Abdullah Abdullah

3rd place in Junior Environmental Engineering: From Orlando Science Middle School, Gagana Sajja And from Lake Eola Charter School, Shane Wall

3rd place in Junior Intelligent Machines, Robotics and Systems Software: From Orlando Science Middle School, Aarit Moolchandani And also from Orlando Science Middle School, Athary Tiwary

3rd place in Junior Mathematics and Computational Sciences: From Leaders Preparatory School, Eshan Rahman And from International Community School, the team of Jack Hemphill and Wyatt Mander

3rd place in Junior Microbiology: From Leaders Preparatory School, Kamar Felo And from International Community School, Kaitlyn Orr

3rd place in Junior Physics and Astronomy: From Maitland Middle School, Sebastian Alzate From International Community School, Brooks Bruner And from Orlando Science Middle School, Revansh Sane

3rd place in Junior Plant Sciences:

From Leaders Preparatory School, Najwa Khan

In the Senior Division...

3rd place in Senior Behavioral and Social Science:

From Trinity Preparatory School, Bianca Pelin

3rd place in Senior Cellular/Molecular Biology & Biochemistry:

From Lake Highland Preparatory School, Brooks Rivera

3rd place in Senior Mathematics and Computational Sciences:

From Lake Highland Preparatory School, Brianna Yoskin

3rd place in Senior Physics and Astronomical Sciences:

From Lake Highland Preparatory School, Aryan Pathak

Congratulations to all of the third-place winners of the 2023-2024 Ying Expo!

2nd place in Junior Animal Sciences: From Leaders Preparatory School, Alisher Israilov

2nd place in Junior Behavioral and Social Sciences:From International Community School, Emmalyn Porter

2nd place in Junior Biomedical & Health Sciences: From Orlando Science Middle School, Abinandh Parthiban

2nd place in Junior Cellular/Molecular Biology & Biochemistry: From Orlando Science Middle School, Anahi Desai

2nd place in Junior Chemistry:

From Orlando Science Middle School, Nikhil Dereddy From Leaders Preparatory School, Noreen Abdelhalim And also from Leaders Preparatory School, Salma Elmasri

2nd place in Junior Earth & Environmental Sciences: From Orlando Science Middle School, Anwesha Byadagi And from Lake Eola Charter School, Riley Hemenway

2nd place in Junior Engineering:From International Community School, Judah StanleyAnd from Lake Eola Charter School, Timothy Paul Barton

2nd place in Junior Environmental Engineering: From Leaders Preparatory School, Mohammed Salem

2nd place in Junior Intelligent Machines, Robotics & Systems Software: From Orlando Science Middle School, Abigail Merchant

2nd place in Junior Mathematics & Computational Sciences: From St. John Vianney Catholic School, Gabriel Fayain

2nd place in Junior Microbiology: From Lake Highland Preparatory School, Anwita Dereddy

2nd place in Junior Physics:
 From Maitland Montessori School, Eric Hsieh
 And from Leaders Preparatory School, Nuh Musri

2nd place in Junior Plant Sciences: From Orlando Science Middle School, Shishir Sajja

And now, the Senior Division: 2nd place in Senior Animal Sciences: From Lake Highland Preparatory School, Sohana Srinivasa

2nd place in Senior Behavioral and Social Science: From Lake Highland Preparatory School, Daniel Go

2nd place in Senior Biomedical and Health Sciences:
 From Lake Highland Preparatory School, Prateek Seela
 And from Horizon High School, Clara Martins de Belis Silva

2nd place in Senior Cellular/Molecular Biology & Biochemistry: From Winter Park High School, Neel Chhabra

2nd place in Senior Chemistry:From West Orange High School, Daniel McNeil

2nd place in Senior Earth & Environmental Sciences: From Orlando Science High School, Monish Sarayana Sundari

2nd place in Senior Engineering: From Lake Nona High School, Kiet Luu 2nd place in Senior Environmental Engineering:
 From Trinity Preparatory School, Katherine Alvarez
 And also from Trinity Preparatory School, Gabriel Villalba

2nd place in Senior Intelligent Machines, Robotics & Systems Software to: From Horizon High School, Harsh Jha

2nd place in Senior Mathematics & Computational Sciences: From Lake Highland Preparatory School, Dhanush Tella

2nd place in Senior Physics and Astronomical Sciences: From Lake Highland Preparatory School, Suchita Vennam And from West Orange High School, Noah Hall-King

2nd place in Senior Plants:From Trinity Preparatory School, Elliet McDermedAnd from Lake Highland Preparatory School, Anya Shah

Congratulations to our Junior and Senior 2nd place category winners!

All first-place winners in the Junior Division receive a personalized plaque, \$50.00 cash, a nomination to apply to the Thermo-Fisher Scientific JIC, and move on to the Florida State Science and Engineering Fair in April.

1st Place Junior Projects

Animal Sciences From Lake Highland Preparatory School, Aakash Manaswi

Behavioral & Social Sciences From Orlando Science Middle School, Aayan Patel

Biomedical & Health Sciences From International Community School, Sarah Larche

Cellular/Molecular Biology & Biochemistry From Leaders Preparatory School, Malak Salem

Chemistry From Leaders Preparatory School, Tala Hnaihen

Earth & Environmental Science From Lake Eola Charter School, Olivia Gulsoy

Engineering From Orlando Science Middle School, Anishka Sharma **Environmental Engineering From Orlando Science Middle Charter School, Aarit Dixit**

Intelligent Machines, Robotics and Systems Software From Lockhart Middle School, Adrian Jose Alvarez

Mathematics and Computational Sciences From Orlando Science Middle School, Guari Borkar

Microbiology

From Leaders Preparatory School, Fayyoz Jabborov

Physics & Astronomy From Orlando Science Middle School, Anishka Jindal

Plant Sciences From Orlando Science Middle School, Anya Bollineni

All first-place winners in the Senior Division receive a personalized plaque, \$100 cash, and are moving on to the Florida State Science and Engineering Fair.

1st Place Senior Projects

Animal Sciences From Orlando Science High School, Atreya Manaswi

Behavioral & Social Sciences From Lake Highland Preparatory School, Harris Layson

Biomedical & Health Sciences From Trinity Preparatory School, Dylan Wang

Cellular/Molecular Biology & Biochemistry From Lake Highland Preparatory School, Wali Hasan

Chemistry (we have a tie) From Orlando Science High School, Aanvi Mathur And from Trinity Preparatory School, Will Martyny

Earth & Environmental Sciences From Windermere Preparatory School, Diya Somnali

Engineering

From Lake Highland Preparatory School, Ashna Mathur

Environmental Engineering From Orlando Science High School, Tiffani Gay

Mathematics and Computational Sciences From Lake Highland Preparatory School, Neha Patil Microbiology From Orlando Science High School, Mahie Patil

Physics and Astronomy From Trinity Preparatory School, Jerry Chen

GENIUS Olympiad

GENIUS Olympiad promotes a global understanding of environmental issues and the achievement of sustainability through basic science, arts, creative writing, engineering, design, and business development. GENIUS Olympiad provides challenges and opportunities for secondary school students, to instill in them the skills and knowledge needed to be the citizens, leaders, scientists, artists, writers, engineers, and policymakers of the future—agents who will promote and contribute to greater environmental sustainability throughout their lives. GENIUS is also an abbreviation of Global Environmental Issues and us. This year we have three nominees.

Our first nominee:

For her project titled, "Resistant electromagnet propulsion for petroleum removal employing biocompatible Fe3O4 nanoparticles in water emulsion", from Orlando Science High School, Tiffani Gay.

Our second nominee:

For her project titled, "Year 2: A Novel Biodegradable Sorbent for Oil Spills", from Orlando Science High School, Mahie Patil

And our third nominee:

For his project titled, "Year IV: Cost-Effective Recycling of Sorbents to Improve Oil Spill Cleanup Efficiency with OCTOPAS", from Orlando Science High School, Monish Saravana Kumar Divya Sundari.

Ying Scholar Grand Prize Awards

Among the first-place award winners in the junior division, the following students stood out to the judges as the best in the fair!

Junior Ying Scholar Grand Prize Award Winners will receive two tickets to the Orlando Science Center, a special plaque, and a \$500.00 cash award.

In the division of Junior Biological Sciences there were two Junior Ying Scholar Grand Prize Award winners.

Our first winner:

For his project titled, "What is the Effect of Color on Memory for Ages 60+?", from Orlando Science Middle School, Ayaan Patel

And our second winner:

For his project titled, "A Novel Investigation using Carbon Dioxide for Varroa mites Treatment in Honey Bee Colonies", from Lake Highland Preparatory School, Aakash Manaswi

<u>In the division of Junior Physical Sciences, there are two Junior Ying Scholar Grand Prize Award winners.</u>

Our first winner:

For his project titled, "The Solar-Powered Irrigation System", from Orlando Science Middle School, Aarit Dixit

Our second winner:

For his project titled, "Year 1: Designing a Plant Disease Suppression Robot", from Lockhart Middle School, Adrian Jose Alvarez

Among the first-place award winners in the senior division, the following students stood out to the judges as the best in the fair!

Senior Ying Scholar Grand Prize Award alternates will replace the winners for any reason the Senior Ying Scholar Grand Prize Award Winners are unable to attend the International Science and Engineering Fair or should they qualify for the International Science and Engineering Fair by winning the Florida State Science and Engineering Fair.

And Dr. Nelson Ying Sr. has decided to award each of these students with a personalized plaque and \$500.00 cash!!

In the division of Senior Physical Sciences the alternate is:

With her project titled, "Comparing Plasmonic Properties of Solid and Hollow Gold and Silver Nanoparticles for Early Diagnosis and Disease Detection", from Orlando Science High School, Aanvi Mathur

And in the division of Senior Biological Sciences the alternate is:

For his project titled, "The Effects of Guilt Induction When Negotiating with Hostile AI Agents Using The Interactive Arbitration Guide", from Lake Highland Preparatory School, Harris Layson

The Senior Ying Scholar Grand Prize Award Winners

These students receive an automatic bid to the Regeneron International Science and Engineering Fair, May 12-17, 2024 in Los Angeles, California where they will compete and represent the Dr. Nelson Ying Orange County Science Exposition and the State of Florida. Senior Ying Scholar Grand Prize Award Winners will receive a personalized plaque and a \$1000.00 cash award.

In the division of Senior Biological Sciences, there are two Senior Ying Scholar Grand Prize Award winners.

Our first winner is:

With her project titled, "Year 2: A Novel Biodegradable Sorbent for Oil Spills", from Orlando Science High School, Mahie Patil

Our second winner is:

For his project titled, "Year 5: Engineering a Novel IoT Trapping System with a Multiple Linear Regression Model Towards Eco-Friendly, High-Efficacy, Low-Cost Honey Bee Pest Treatment and Management", from Orlando Science High School, Atreva Manaswi

In the division of Senior Physical Sciences, there are two Senior Ying Scholar Grand Prize Award winners.

Our first winner is:

With his project titled, "Fabrication of Super-Hydrophobic Materials Through Femtosecond Laser Ablation", from Trinity Preparatory School, Jerry Chen

And our final winner:

With his project titled, "Nutritional Content in Edible Insects: A Spectrophonic Analysis", from Trinity Preparatory School, Will Martyny