

## **Dr. Nelson Ying Orange County Science Exposition Special Awards**

**The American Meteorological Society offers a certificate and the Dr. Nelson Ying Orange County Science Exposition adds a \$25.00 gift card to a student whose project earned recognition for the study of atmospheric conditions or related oceanic and hydrologic sciences.**

- **From International Community School, the team of Ethan and Aaron Dittmer**

**The American Psychological Association offers a certificate and the Dr. Nelson Ying Orange County Science Exposition offers a \$25.00 gift card to a student who best met their criteria in the area of Behavioral Science.**

- **From Orlando Science Middle School, Ananya Purimetla**

**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 Gift Card.**

- **From Lake Eola Charter School, Rai' Johnson**

**From ASM Materials Education Foundation – A preliminary certificate and a ribbon are awarded to a project demonstrating the materials paradigm and clarity in presentation. The ribbon is awarded after receipt of the results by the foundation.**

- **From Trinity Preparatory School, Genesis Cely**

**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 Orlando Science Middle School, Affan Bilal**
- **And from Leaders Preparatory School, Malak Dohset**

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

- **From Lake Highland Preparatory School, Aidan Reese Van Duyne**

**Kelly's Homemade Ice Cream awards two projects in any category that display exemplary use of the scientific method with \$25.00 gift certificates**

- **From International Community School, Hunter Nickerson**
- **And from Trinity Preparatory School, Aaron Rubinow**

**Leaders Preparatory School recognizes the following projects for their innovation and creativity and awards each student with a \$25.00 gift card**

- **From Lake Eola Charter School, Daniel Simmons**
- **From Leaders Preparatory School, Yaseen De'Reese**
- **From St. John Vianney Catholic School, the team of Isabella Giove and Mahi Patel**

**Lukas Nursery offers a \$25 gift certificate to a student whose project exemplified outstanding research in Plant Sciences**

- **From Leaders Preparatory School, Taha Al-Gumary**

**Mu Alpha Theta Math Honor Society – Awards a certificate and a congratulatory letter to a student whose project displayed a challenging, original, thorough, and creative investigation of a problem involving mathematics. In addition, the Dr. Nelson Ying Orange County Science Exposition adds a \$25.00 gift card to this award.**

- **From Lake Highland Preparatory School, Asha Reddy**

**The National Aeronautics and Space Administration (NASA) offers a certificate and the Dr. Ying Orange County Science Exposition offers a \$25.00 gift card to two students whose projects demonstrated insight into Earth's interconnected systems (atmosphere, climate, water systems, geosciences, environment, etc.)**

- **From International Community School, Ann Dixon**
- **And from Lake Highland Preparatory School, Siddarth Kasi**

**National Oceanic and Atmospheric Administration (NOAA) awards a certificate to a student, and a congratulatory letter to the students' teacher. The projects involve research that emphasizes climate, weather, oceans, coasts, and conservation of aquatic ecosystems. In addition, the Dr. Nelson Ying Orange County Science Exposition adds a \$25.00 gift card to these awards.**

- **From Lake Eola Charter School, Reagan O'Neil Hemenway**
- **And from Leaders Preparatory School, Nuh Musri**

**The Office of Naval Research awards a certificate and medallion to the following junior division student whose project exhibited Naval applications**

- **From Lake Eola Charter School, Ethyn Scott Wade**

**The Office of Naval Research awards a certificate and medallion to the following senior division student whose project exhibited Naval applications**

- **From Trinity Preparatory School, Fenghai Li**

**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 gift card to the project that displayed technological and scientific innovations that best reflect the principles of sustainability.**

- **From Trinity Preparatory School, Lene Jean Mortimer**

**The Society for In-Vitro Biology awards a certificate, congratulatory letter, and the Dr. Nelson Ying Orange County Science Exposition adds a \$25 gift card, to the student whose project exhibited plant or animal in vitro biology or tissue culture.**

- **From Lake Highland Preparatory School, Anay Shah**

**The Stockholm Junior Water Prize competition awards a certificate, and the Dr. Nelson Ying Orange County Science Exposition adds a \$25.00 gift card to two Junior division students who exhibited outstanding water-related projects.**

- **From Lake Eola Charter School, James David Hollingsworth**
- **And from Orlando Science Middle School, Kalea Wombles**

**The United States Air Force awards a certificate, and the Dr. Nelson Ying Orange County Science Exposition adds a \$25.00 gift card to the student who exhibited an outstanding project with Air Force applications.**

- **From Maitland Middle School, Brooke Leah Cohn**

**The U. S. Metric Association awards a certificate and the Dr. Nelson Ying Orange County Science Exposition adds a \$25.00 gift card to a student who used the greatest variety of metric measurements and symbols, and uses them properly.**

- **From Trinity Preparatory School, Andrew Lopez-Cuoto**

**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 Orlando Science High School, Tiffani Gay**

## **Fourth Place, Honorable Mention Category Awards**

### **Junior Animal Sciences**

- **From Lake Eola Charter School, Anelle Louise Lorena Combs**
- **And from International Community School, Anne M. Dixon**

### **Junior Biomedical & Health Sciences**

- **From Lake Eola Charter School, Dominic Mirande**

### **Junior Cellular/Molecular Biology & Biochemistry**

- From Lake Eola Charter School, Kate Lynch

### **Junior Chemistry**

- From Maitland Middle School, Sophie Lois Carrasquel
- From St. John Vianney Catholic School, Xander Pijuan
- And from Leaders Preparatory School, Sedra Luqman Mohammed

### **Junior Earth & Environmental Sciences**

- From Orlando Science Middle Charter School, Kalea Rose Wombles
- From Orlando Science Middle Charter School, Vaibhav Pradeep
- And from Lake Eola Charter School, Samantha Dimulescu

### **Junior Engineering**

- From Orlando Science Middle Charter School, Andrew Chai
- From Saint John Vianney Catholic School, Julian Thompson
- And from Lake Eola Charter School, Ethyn Scott Wade

### **Junior Microbiology**

- From Lake Eola Charter School, Mahr Soomra
- And from Saint John Vianney Catholic School, Mikaela Bell

### **Junior Physics and Astronomy**

- From Saint John Vianney Catholic School, Ananya Amene
- From Leaders Preparatory School, Layla Omar Abdullah
- And from International Community School, Hunter W. Nickerson

### **Junior Plant Sciences**

- From Leaders Preparatory School, Suhail Al-Gumary
- From Orange County Preparatory Academy, Suri Nieves
- From Lake Eola Charter School, Caleb Rivera
- From Lake Eola Charter School, Gia Gomez
- And from Saint John Vianney Catholic School, Cesar Borjas

### **Senior Engineering**

- From Orlando Science High Charter School, Matthew Boughton

## **Third Place Category Awards**

### **Junior Animal Sciences**

- From Maitland Montessori School, Cara Dean Mathis

### **Junior Behavioral and Social Sciences**

- From International Community School, Riley J. Earley

### **Junior Biomedical and Health Sciences**

- From Leaders Preparatory School, Tala Hnaihen
- And from Saint John Vianney Catholic School, Sophia Dimetry

### **Junior Cellular/Molecular Biology & Biochemistry**

- From Lake Eola Charter School, Amelia Persad
- And also from Lake Eola Charter School, Reagan O'Neil Hemenway

### **Junior Chemistry**

- From Leaders Preparatory School, Taufeeq Chowdhury
- And from Lake Eola Charter School, Allory Boston

### **Junior Earth & Environmental Sciences**

- From Orlando Science Middle Charter School, Anusha Gupta
- From Lake Eola Charter School, Gemma Elizabeth Santurri
- And also from Lake Eola Charter School, Isabella Ann Santurri

### **Junior Engineering**

- From Orlando Science Middle Charter School, Melanie Weber Maldonado
- And from Leaders Preparatory School, Zakaria Hamood Ansari

### **Junior Environmental Engineering**

- From Orlando Science Middle Charter School, Shahrizoda Yusupova
- And from Leaders Preparatory School, Nuh Musri

### **Junior Intelligent Machines, Robotics and Systems Software**

- From Saint John Vianney Catholic School, Alejandro Guarnizo

### **Junior Microbiology**

- From Lake Eola Charter School, Zane Benson

### **Junior Physics and Astronomy**

- From Leaders Preparatory School, Eyman Fathalla
- From Maitland Middle School, Brooke Leah Cohn
- And from Maitland Montessori School, Sophia Forster

### **Junior Plant Sciences**

- From Orlando Science Middle Charter School, Aditi Swain
- From Maitland Middle School, Elliott Olveri
- And from Orlando Science Middle Charter School, Diya Somnali

### **Senior Biomedical and Health Sciences**

- From Lake Highland Preparatory School, Anay Shah

### **Senior Engineering**

- From Trinity Preparatory School, Fenghai Li

### **Senior Intelligent Machines, Robotics and Systems Software**

- From Lake Highland Preparatory School, Stephi Lyou

### **Senior Mathematics and Computational Sciences**

- From Lake Highland Preparatory School, Neha Patil
- And from Lake Nona High School, Aditya Krishnan

### **Senior Physics and Astronomy**

- From Orlando Science Middle Charter School, Kaavya Bhawe

## **Second Place Category Awards**

### **Junior Animal Sciences**

- From Lake Eola Charter School, Daniel Simmons

### **Junior Behavioral and Social Sciences**

- From Orlando Science Middle Charter School, Ananya Purimetla

### **Junior Biomedical & Health Sciences**

- From Orlando Science Middle Charter School, Ziyang Stella Chen

### **Junior Cellular/Molecular Biology & Biochemistry**

- From Orlando Science Middle Charter School, Aanvi Mathur

**Junior Chemistry**

- From Lake Highland Preparatory School, Aakash Manaswi
- And from Lake Eola Charter School, Angelinne Oliveira

**Junior Earth & Environmental Sciences**

- From Orlando Science Middle Charter School, Monish Saravana

**Junior Engineering**

- From Leaders Preparatory School, Sofia Dirawi
- And from Lake Eola Charter School, Timothy Paul Barton, Jr.

**Junior Environmental Engineering**

- From Orlando Science Middle Charter School, Yikang Zhu
- And from Lake Eola Charter School, Rai' Johnson

**Junior Intelligent Machines, Robotics & Systems Software**

- From Orlando Science Middle Charter School Arav Sonawane

**Junior Mathematics & Computational Sciences**

- From St. John Vianney Catholic School, Alessandro Ottone

**Junior Microbiology**

- From Maitland Middle School, Victoria Vanuno

**Junior Physics**

- From Orlando Science Middle Charter School, Tristan Hoon
- And from Orlando Science Middle Charter School, Yuthika Panigrahi

**Junior Plant Sciences**

- From Orlando Science Middle Charter School, David Anthony Go
- And from Lake Eola Charter School, Olivia Ada Gulsoy

**Senior Animal Sciences**

- From Orlando Science High Charter School, Atreya Manaswi

**Senior Behavioral and Social Science**

- From Leaders Preparatory School, Malak Dohset

**Senior Biomedical and Health Sciences**

- From Trinity Preparatory School, Lilly Nguyen

**Senior Cellular/Molecular Biology & Biochemistry**

- From Orlando Science High Charter School, Prince-Howard Starr Currie

**Senior Chemistry**

- From Orlando Science High Charter School, Emily Kaitlyn Dorman

**Senior Earth & Environmental Sciences**

- From Lake Highland Preparatory School, Amukta Vennam

**Senior Engineering**

- From Lake Highland Preparatory School, Aayna Bhatheja

**Senior Environmental Engineering**

- From Lake Highland Preparatory School, Siddarth Kasi

**Senior Intelligent Machines, Robotics & Systems Software**

- From Orlando Science High Charter School, Tiffani Gay

**Senior Mathematics & Computational Sciences**

- From Lake Highland Preparatory School, Asha Reddy

**Senior Physics**

- From Lake Highland Preparatory School, Aliza Hasan

**Senior Plants**

- From Leaders Preparatory School, Taha Al-Gumary

## **First Place Category Awards**

**Junior Animal Sciences**

From Lake Eola Charter School, Molly Logan Pennisi

**Junior Behavioral & Social Sciences**

From Trinity Preparatory School, Elliot Harper McDermed



**Junior Biomedical & Health Sciences**

**From Orlando Science Middle Charter School, Mahie Patil**

**Junior Cellular/Molecular Biology & Biochemistry**

**From Leaders Preparatory School, Malak Yehia Salem**

**Junior Chemistry**

**From Lockhart Middle School, the team of Noah Anderson Hall-King and James Lyman Green**

**Junior Earth & Environmental Science**

**From Maitland Middle School, Taylor Jayde Burnett**

**Junior Engineering**

**From St. John Vianney Catholic School, Vivienne Tarnowski**

**Junior Environmental Engineering**

**From Orlando Science Middle Charter School, Snehal Sahu**

**Junior Intelligent Machines, Robotics and Systems Software**

**From Orlando Science Middle Charter School, Zara Serrano-Diaz**

**Junior Mathematics and Computational Sciences**

**From Leaders Preparatory School, Adam Gareeboo**

**Junior Microbiology**

**From Maitland Middle School, Chloe Manak**

**Junior Physics & Astronomy**

**From St. John Vianney Catholic School, the team of Matthew Ison and Kaiden Le**

**Junior Plant Sciences**

**From Orlando Science Middle Charter School, Keerthi Karri**

**Senior Animal Sciences**

**From Lake Highland Preparatory School, Varun Madan**

**Senior Behavioral & Social Sciences**

**From Orlando Science High Charter School, Roma Rushang Patel**

**Senior Biomedical & Health Sciences**  
**From Lake Highland Preparatory School, Krithik Seela**

**Senior Cellular/Molecular Biology & Biochemistry**  
**From Lake Highland Preparatory School, Anne Fang**

**Senior Chemistry**  
**From Lake Highland Preparatory School, Meghana Konda**

**Senior Earth & Environmental Sciences**  
**From Leaders Preparatory School, Hamza Syed**

**Senior Engineering**  
**From Trinity Preparatory School, Genesis Cely**

**Senior Environmental Engineering**  
**From Trinity Preparatory School, Lene (Lay na) Jean Mortimer**

**Senior Intelligent Machines, Robotics & Systems Software**  
**From Trinity Preparatory School, Danush Kumar Singla**

**Senior Mathematics and Computational Sciences**  
**From Trinity Preparatory School, Isabella Delbakhsh**

**Senior Microbiology**  
**From Lake Highland Preparatory School, Naina Aggarwal**

**Senior Physics and Astronomy**  
**From Trinity Preparatory School, Cara Annette Mortimer**

**Senior Plant Sciences**  
**From Trinity Preparatory School, Jeffrey Wang**

## **Broadcom Awards**

**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're proud to award this prize to, from Orlando Science School, Abigail Merchant.**

**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 – 4th 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 goes to Timothy Paul Barton, Jr. from Lake Eola Charter School**

## **GENIUS Olympiad Awards**

**This year we have nominated three projects from the Dr. Nelson Ying Orange County Science Exposition to participate in the virtual GENIUS Olympiad. The Dr. Nelson Ying Orange County Exposition pays your registration fees if you enter.**

**For her project titled, "Precycling – Novel Strategies for Dealing with Household Plastic Recycling, Year 3" from Trinity Preparatory School, Lene Mortimer.**

**For his project titled, "Simulating the Impact of Coastal Vegetation on Storm Surge", from Lake Highland Preparatory School, Siddarth Kasi**

**And for her project titled, "Creating Naturally Enhanced Concrete for Seismic Resistance" from Trinity Preparatory School, Genesis Cely**

## **Junior 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:**

**For her project titled, “The Sufficiency of the Use of Dried and Saturated Lake Algae as a Plant Growth Medium for *Phaseolus vulgaris* ”, from Maitland Middle School, Taylor Jayde Burnett**

**For her project titled, “Generating Electricity From the Soil Using Microbial Fuel Cells”, from Orlando Science Middle Charter School, Snehal Sahu**

**For her project simply titled, “Keep Away!” from Orlando Science Middle School, Mahie Patil**

**For her project titled, “An Investigation of the Dirtiest Location in a Home”, from Maitland Middle School, Chloe Manak**

## **Senior Ying Scholar Grand Prize Awards**

**Among the first place award winners in the senior division the following students stood out to the judges as the best in the fair:**

**With his project titled, “Novel AI Algorithms for Better Segmentation of Prostate MRI scans Towards an Improved Prostate Cancer Management”, from Trinity Preparatory School, Danush Kumar Singla**

**For her project titled, “Developing a Molecular Scale DNA Nanochip for Educational Purposes Phase III”, from Lake Highland Preparatory School, Anne Fang.**

**For his project titled, “Year 5: Developing a Novel Multiple Linear Regression Model To Optimize Honey Bee Gut Immunity Using a Lactic Acid Bacteria Probiotic Mixture”, from Lake Highland Preparatory School, Varun Madan.**

**With his project titled, “Using Computational Models and Artificial Intelligence Graph Neural Networks to Repurpose Pre-existing Drugs and Analyze Drug Relationships: Year 2”, from Lake Highland Preparatory School, Krithik Seela**

**With her project titled, “Study of Magnesium Based Migraine Therapeutics”, from Lake Highland Preparatory School, Meghana Konda.**

**With her project titled, “Creating Naturally Enhanced Concrete for Seismic Resistance”, from Trinity Preparatory School, Genesis Cely**