GRADES 9 to 12 | 2022-2023

Epirchild Challongo Awards

Fairchild Challenge Awards



The Fairchild Challenge is made possible by the generous support of the Batchelor Foundation.

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Participating Schools 2022-2023

Alonzo And Tracy Mourning Senior High Archimedean Upper Conservatory Atlantis Academy Barbara Goleman SHS Carrollton School of the Sacred Heart Christi/STEPSS Academy Coral Reef SHS Dorothy M. Wallace COPE Center Dr Michael M. Krop SHS **Everglades High School Everglades Preparatory Academy High School** Felix Varela SHS Florida Christian School G. Holmes Braddock SHS Hialeah Gardens SHS **Hialeah SHS** Hialeah-Miami Lakes SHS

iMater Preparatory Academy High School International Studies Preparatory Academy iPreparatory Academy iTech @ Thomas A. Edison Ed. Ctr. John A. Ferguson SHS Jose Marti Mast 6-12 Academy Maritime & Science Technology Academy Mater Academy Lakes High School Miami Beach SHS Miami Community Charter High School Miami Lakes Educational Center Miami Norland SHS Miami Palmetto SHS Miami SHS Miami Southridge SHS **Miami Springs SHS** Miami Sunset SHS







Thank You Judges!









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EDUCATOR CHALLENGE: Expedition Discovery

Educator Challenge: High School



Jesus L.

G. Holmes Braddock Senior High School

SPECIAL MERIT: Director's Choice – Incorporating Historical Context



Educator Challenge: High School



Elizabeth K.

Mater Lakes Academy High School

FIRST PLACE





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CHALLENGE 1: Green Treasures – Food of the Gods



Green Treasures: Student Workshop



Photos by Fairchild Staff as well as students and teachers from Dorothy M. Wallace COPE Center





miami-dade library system











Melany T.

Miami Community Charter High School

> SPECIAL MERIT: Powerful Storyteller



Challenge 1: Green Treasures – Food of the Gods





Marnique R. and Kathleen M.

Mater Lakes Academy High School

> SPECIAL MERIT: Fact Finder



Challenge 1: Green Treasures – Food of the Gods





A.P.E.S.

Hialeah Senior High School

SPECIAL MERIT: Artistic Excellence



Challenge 1: Green Treasures – Food of the Gods





Eleana L. and Amaya J.

Miami Palmetto Senior High School

SECOND PLACE









Elizabeth P., Samantha G., Annabella T., Laura L., Yesica B.

Miami Lakes Educational Center

FIRST PLACE





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CHALLENGE 2: Miami, My Garden

Filmmaking: Student Workshop



We hosted a series of 4 online workshops for students to learn the basics of videography from documentarian Richard Kern of Odyssey Earth.

Students learned about visual storytelling, videography basics, and the basics of editing.



Challenge 2: Miami, My Garden



Tiffany C.

Dr. Michael M. Krop Senior High School

SPECIAL MERIT: Most Engaging Presentation Challenge 2: Miami, My Garden



iMater Knights

iMater Preparatory Academy High School

SECOND PLACE

Challenge 2: Miami, My Garden



The Big Five

Miami Lakes Educational Center

FIRST PLACE



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CHALLENGE 3: Environmental Debate Tournament

Thank you, Randall, Director Emeritus of Debate!













Luke Y.

Miami Palmetto Senior High School

SPECIAL MERIT: Best Use of Research



Carlineiss J.

Miami Lakes Educational Center

SPECIAL MERIT: Creative Arguments



Stephanie R.

Hialeah-Miami Lakes Senior High School

SPECIAL MERIT: Most Impassioned



Tatiana G. and Mateo P.

Miami Lakes Educational Center

SECOND PLACE





Karoline B. and Krishna S.

Archimedean Upper Conservatory

FIRST PLACE





Changing the way we understand and live with nature

CHALLENGE 4: The Million Orchid Project





BGHS Science National Honor Society:

Thaddeus W., Tatiana V., Aracely R., Sophia D., Maria G., Nicole T., Margarett H., Jessia G., Mia T., Daniela C., Edie O., Gustavo S.

Barbara Goleman Senior High School

SPECIAL MERIT: Best Perspective







Adriana G. and Hannah N.

South Miami Senior High School

SPECIAL MERIT: Most Comprehensive



James C., Janie C. and Ali M., a.k.a. Agents of Change

> Miami Palmetto Senior High School

SPECIAL MERIT: Excellent Analysis

The climate in which an orchid grows directly affects its health; every plant has its own ranges of tolerance. We planted our 25 *Encyclia tampcusis* around the east-side of our school in a row of live oak trees, with microelinates ranging from hot and sump to evoler, shaded areas with many surrounding build; as and trees. The tree. on the edges of the planting region typically received more sunlight and heat since they had less protection and shade from surrounding structures. The orchids in %hs areas hod both higher average leaf temperatures and seemed to receive more sunlight. However, there was no significant difference in rainfall as well as other factors including wind and humidity.

Through our observations, it was evident that the orchids in the shady, cool environments both grew stronger and had higher survivonship. Only a few orchids in this environment died. The eness on the border trees faced more intense sanlight and temperatures seemingly out of the species' range of tolerance. They appeared yellow, had leaf scorehing, and more in that region died. On the other hand, the shaded orchids were larger, greener, displayed healthier root growth, and were more likely to form root attachment. These effects may have been exacerbated by the fact that the rainy season ended in October and there have been lengthy periods without much water when the orchids were not watered, even if that was an uncommon occurrence. Overall it appeared that orchids perform better in moderate environments with plentiful water and mitrims.







Environmental Science Club

Mater Academy Lakes High School

SECOND PLACE





Team Fernandez, Gouveia and Lorie

Jose Marti Mast 6-12 Academy

FIRST PLACE





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CHALLENGE 5: Growing Beyond Earth®





Biology Team Alpha

Archimedean Upper Conservatory

SPECIAL MERIT: Relevance & Applicability





Mary Parker

Dorothy M. Wallace COPE Center

SPECIAL MERIT: Outstanding Communicator The Effect of Red/Green Light on Misome Growth and Edible Mass Production





Space Veggie Team

Palmer Trinity

SPECIAL MERIT: Data-centric Presentation and Conclusion **ReptiSoil: Not for Space Travel**



Braylen W.

Northeast High School

SPECIAL MERIT: Strong, Comprehensive Answers





Agents of Change

Miami Palmetto Senior High School

SECOND PLACE – Miami Maker Faire





Varela Space Farmers

Felix Varela Senior High School

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SECOND PLACE – Miami Maker Faire



Mater Lakes Bears

Mater Lakes Academy High School

SECOND PLACE – Virtual Symposium





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CHALLENGE 6: School Garden – Growing Up!



Art & Science Team

Miami Springs Senior High School

SPECIAL MERIT: Sustainable Design





Garden to Table Team

Hialeah Gardens Senior High School

SPECIAL MERIT: Gourmet Vibe

HIALEAH GARDENS HIGH SCHOOL Zucchini Lasagna





Honor's Experimental Science Classes

Barbara Goleman Senior High School

SECOND PLACE











Braddock SHS Students

G. Holmes Braddock Senior High School

FIRST PLACE

Spinach Pasta with Passionfruit Vinaigrette

<u>Vinaigrette Ingredients</u>

1/4 cup red wine vinegar

1 tsp Dijon mustard

1/4 tsp pepper, to taste

frozen

1/4 tsp salt

Passionfruit vinaigrette

Add all ingredients to a

food processor and blend

Instructions

for 30 seconds

1/2 cup olive oil

1 1/2 cups passion fruit pulp, fresh or

• 1 small shallot, diced (about 2 tbsp)

Spinach Ingredients

1/2 med brown onion

1 large clove garlic

8 oz fresh spinach

1/2 tsp sea salt

Pasta Ingredients

5-6 quarts water

1/3 cup sea salt
16 oz Spaghetti Pasta

2 tbsp olive oil



§<u>reinach pasta instructions</u> Step 1: Add 3-6 quarts of water to a large pot and bring it to a boil. Step 2: When the water starts to boil add 1/3 cups of sea salt and the pasta. Step 3: After pasta is added stir 2-3 times, add the spinach, 2 thsp

olive oil, ½ brown onion, 1 clove garlic, ½ tsp salt and drain your pasta. Do not rinse. Step 4: Now serve the pasta and enjoy.





THE FAIRCHILD CHALLENGE

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NATIONAL CHALLENGE : The Next NASA Mission Patch



National Challenge: The Next NASA Mission Patch





Janie C.

Miami Palmetto Senior High School

SECOND PLACE



THE FAIRCHILD CHALLENGE

Changing the way we understand and live with nature

FAIRCHILD CHALLENGE AWARDS

Fairchild Challenge Award Recipients

Barbara Goleman SHS

Christi/STEPSS Academy

Hialeah Miami Lakes SHS

Miami Palmetto SHS

Miami Springs SHS

Northeast HS

Pinecrest Glades Preparatory AMHS

Terra Environmental Research Institute



Top Schools - BRONZE AWARDS



Jose Marti MAST 6-12 Academy





Archimedean Upper Conservatory

G. Holmes Braddock SHS

Mater Lakes Academy High School

Palmer Trinity School

Riviera Schools

Top Schools - GOLD AWARD



iMater Preparatory Academy High School

THE FAIRCHILD CHALLENGE

Changing the way we understand and live with nature

Congratulations and Thank You!

High School 2022-2023



The Fairchild Challenge is made possible by the generous support of the Batchelor Foundation.