



# P<sub>3</sub> ECO Challenge



## Awards Ceremony

May 8, 2019



The Broward P<sub>3</sub> Eco-Challenge is a multi-divisional and organizational effort between Broward County Public Schools (BCPS), Broward County Environmental Planning and Community Resilience Division, and the Environmental Conservation Organization. A P<sub>3</sub> Committee, represented

by members from these organizations was formed to create and implement this wonderful initiative to recognize and reward our schools, teachers, students, non-instructional individuals and custodial staff for their many efforts to learn about and implement environmentally sustainable measures and green initiatives within our schools and communities.

There are two areas of recognition: The P<sub>3</sub> School Challenge and the P<sub>3</sub> Stewardship Recognition. The school challenge entails demonstrating participation in or implementation of different sustainability metrics based on a rubric composed of six comprehensive categories: School Grounds Enhancement, School Sustainability, Curriculum Integration, Community Involvement, Administrative Support, and Innovation/Special Projects.

The P<sub>3</sub> Stewardship Recognition rewards teachers, students, non-instructional individuals and custodial staff who show evidence of promoting civic responsibility, environmental stewardship, and education of environmental issues. The metrics of this category include: Awareness and Involvement, Current Professional Development/Affiliation, Instructional Soundness/Creativity, and Skill Building.

### **P<sub>3</sub> Committee**

Dr. Jennifer Jurado, Director, Broward County Environmental Planning and Community Resilience Division. Staff Members: Carolina Maran, Robert Rudolph, Victor Suarez, Kimberly Mayo, Maena Angelotti, and Rose Bécharde-Butman

Susan Cantrick, Director, BCPS Applied Learning Department. Dr. Lisa Milenkovic, STEM+CS Supervisor. Instructional Facilitators: Rebecca Malones, Sheryl Arriola, Cindy Griffin, Erik Leitner, Annmargareth Marousky, Kelly Thomas, and Justin Feller

BCPS Environmental Health & Safety Department: Robert Jindracek, Ed See, and Gianet Puma

Ed Hineline, Director, Business Applications, BCPS Information and Technology Department. Staff Members: Melanie Riles, James Li

Environmental Conservation Organization: Dawn Miller-Walker – Science Eye, Andy Roberts - Youth Environmental Alliance; Steve Weinsier – Allstate Resource Management; and Robin Reccasina - Sawgrass Nature Center and Wildlife Hospital

**PROGRAM  
AGENDA**

## **P<sub>3</sub> Eco-Challenge Awards Ceremony**

### **Reception**

#### **Opening Remarks**

Dr. Lisa Milenkovic, STEM+CS Supervisor, BCPS Applied Learning Department

#### **Welcome**

Broward County Commissioner Beam Furr

Laurie Rich Levinson, School Board of Broward County, District 6

#### **Introduction**

Dr. Carolina Maran, Water Resources Manager, Broward County Environmental Planning and Community Resilience Division

Recognition of Junior Sustainability Steward Program

#### **Keynote Speaker**

Darlene Cavalier – Founder of SciStarter and Science Cheerleader

#### **Recognition of All Stewards**

Dawn Miller-Walker, Robin Reccasina, Andy Roberts - Environmental Conservation Organization

Dr. Lisa Milenkovic, STEM+CS Supervisor, BCPS Applied Learning Department

#### **Sponsor Videos**

#### **PSA Awards**

Stewardship Awards

#### **School Awards**

Individual Categories

All Categories

#### **Closing Remarks**

## Thank you Long Key Nature Center for hosting the P<sub>3</sub> Eco-Challenge Awards Ceremony!



About Long Key Natural Area & Nature Center: At 164.8 acres, this site is one of the largest natural areas managed by Broward County Parks and Recreation. As recently as a century ago this elevated oak hammock was part of a series of islands surrounded by Everglades marshes. Long Key encompasses some of the most significant archaeological, historical, and ecological resources in the county, as the area was inhabited by the ancient Tequestas and the more modern Seminoles.

Long Key's magnificent live oak hammock has served as an important habitat for wildlife and is one of the largest remaining stands of upland hardwood forest in Broward County. Typical trees found in the hardwood forest include live oak, red bay, paradise tree, strangler fig, and the occasional cabbage palm and gumbo limbo. Among the diverse plants you can see are many species of epiphytic bromeliads and ferns that abundantly line the limbs of the oaks. Additional features include a 14-acre orange grove, a remnant of a once-active citrus industry; restored wetland marshes, which have become a haven for a variety of migratory and resident birds; several man-made ponds and canals; and, an active bird roost/rookery. The site is also a refuge for butterflies and a variety of mammals, including foxes and bobcats.



More information on this park can be found at [broward.org/Parks](http://broward.org/Parks)



### Southeast Regional Envirothon

The Southeast Regional Envirothon is an annual competition in which high school teams demonstrate their knowledge of environmental science and natural resource management. The competition is centered on five universal testing categories: Aquatic Biology, Forestry, Soil & Land Use, Wildlife and a Current Issue topic that changes every year. Winners from the regional competition advance to the Florida Envirothon, and then the state winner advances to the national event, North American Envirothon, that includes the U.S.A. and Canada. All three levels have cash awards and other prizes. Visit [Eco-tan.org](http://Eco-tan.org) for more information about participating in the Envirothon.



**DARLENE  
CAVALIER**

**KEYNOTE SPEAKER**

Darlene Cavalier is a professor of practice at Arizona State University's School for the

Future of Innovation in Society. Professor Cavalier is the founder of SciStarter (a popular citizen science portal and research platform connecting millions of people to real science they can do), founder of Science Cheerleaders (a nonprofit organization comprised of current and former NFL, NBA and college cheerleaders pursuing STEM careers), and cofounder of ECAST: Expert and Citizen Assessment of Science and Technology. She is a founding board member of the Citizen Science Association, an advisor and Fellow at National

Geographic, a member of the EPA's National Advisory Council for Environmental Policy and Technology and she recently appointed to the National Academy of Sciences "Designing Citizen Science to Support Science Learning" committee. She is the co-editor of "The Rightful Place of Science: Citizen Science," author of "The Science of Cheerleading," and co-author of the Field Guide to Citizen Science (Timber Press, Jan 2020). She resides in Philadelphia, PA with her husband and their four children.



**SCHOOLS**

Apollo Middle School - Category 4  
 Beachside Montessori Village -  
 Categories 1, 2, 3, 4, 5, 6  
 Crystal Lake Middle School - Category 1  
 Cypress Elementary School - Categories  
 1, 3  
 Dania Elementary School - Categories  
 3, 4, 5  
 Driftwood Middle School - All  
 Categories  
 Griffin Elementary School - All  
 Categories  
 McFatter Technical College - Category 3  
 Park Springs Elementary School -  
 Category 1  
 Sea Castle Elementary School - Category 1  
 Silver Shores Elementary School -  
 Category 1  
 South Plantation High School -  
 Categories 1, 4

**STEWARDSHIP****Elementary Educators**

Emily Conrad - Forest Hills  
 Elementary  
 Kelly DeVarona - Davie Elementary  
 Joanne Ewart - Sheridan Hills  
 Elementary  
 Georgia Hocke - Annabel C. Perry Pre-K-8  
 Michele London - Driftwood  
 Elementary  
 Averil Mark - Annabel C. Perry Pre-K - 8  
 Gloria Mejia - Orange Brook  
 Elementary  
 Maritza Morel - Annabel C. Perry Pre-K - 8  
 Betsy Norrell - Griffin Elementary  
 Heather Rowe - Nob Hill Elementary  
 Victor Yuen - Sheridan Park  
 Elementary

**Middle School Educators**

Renee Bond - Plantation Middle  
 Katharine Cook - Crystal Lake Middle  
 Jacqueline Foster - Annabel C. Perry  
 Pre-K- 8  
 Barbara Humphreys - New River  
 Middle  
 Daniel Jones - Whispering Pines  
 Lenecia McCrary - Crystal Lake Middle  
 Carolyn Sant Angelo - Parkway  
 Middle

**High School Educators**

Dr. Jody Berman - South Plantation  
 High  
 Eric Bonny - Sheridan Technical  
 College  
 Monique Mitchell - Dillard 6-12

**Students****Elementary Students:**

Anthony Cunningham - Sheridan Hills  
 Elementary  
 Kingston DeSouza - Griffin  
 Elementary  
 Jenessa Hodgson - Annabel C. Perry  
 Pre-K - 8  
 Mathew Malave - Annabel C. Perry  
 Pre-K- 8  
 Nicholas Patsalos - Sheridan Hills  
 Elementary  
 Joseph Pino - Griffin Elementary  
 Manya Singh - Central Park  
 Elementary  
 Aubrey Struzenberg - Sheridan Hills  
 Elementary  
 Maria Villavicencio - Sheridan Hills  
 Elementary

**Middle School Students:**

Tristan Castillo - Driftwood Middle  
 Kylie Castro - Driftwood Middle

Khushi Desai - Crystal Lake Middle  
 Aniya Emanuel - Annabel C. Perry  
 Pre-K - 8  
 Keefer Hershewe - New River Middle  
 Jacob Melendez - Annabel C. Perry  
 Pre-K - 8

**High School Students:**

Derod Deal - South Broward High  
 Adrian Hienz - South Plantation High  
 Fred Waring - Whispering Pines  
 School  
 Jack Wu - McFatter Technical College

**Non-Instructional**

Laura Castelli - Hollywood Hills  
 Elementary School  
 Julia Chia - Hollywood Hills Elementary  
 School  
 Melanie Cutler - Sheridan Hills  
 Elementary School  
 Brenda Hall - Annabel C. Perry Pre-K - 8  
 Tiffany Mosca - Pioneer Middle  
 School  
 Chandler Thompkins - Griffin  
 Elementary School  
 Marc Zelin - Food & Nutrition Service

**Custodial**

Jeffrey Dove - Crystal Lake Middle  
 School  
 Verol Frith - Sheridan Hills Elementary  
 School  
 Claudia O'Connor - Broward Estates  
 Elementary School  
 Jose Pena - Riverside Elementary  
 School

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P3 Eco Challenge

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P<sub>3</sub>  
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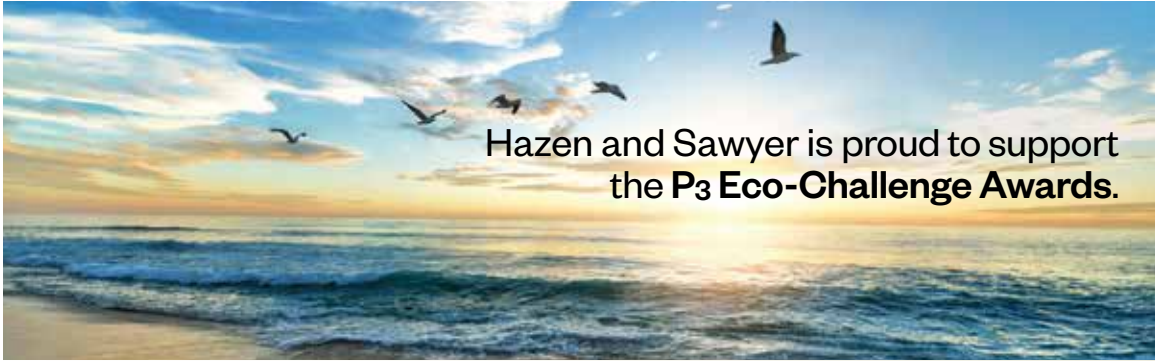
**National Wildlife Federation Salutes the Broward  
P3 Eco-Challenge Honorees! We applaud the efforts of Broward  
County schools, administrators and volunteers who carry out  
green initiatives through environmental stewardship.**

**For more information on how NWF's Eco-Schools USA program  
can help your school reach its sustainability goals please visit,  
nwf.org/eco-schoolsusa.**

**ECO-SCHOOLS-USA**

**SCHOOLYARD  
HABITATS**





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South Florida Audubon Society is proud to be a sponsor of the 7th Annual P<sub>3</sub> Eco-Challenge

We continue to support conservation, sustainability environmental education and provide effective advocacy for the citizens of Broward County.

It is our partnerships that make us strong and effective in the community!

Congratulations!

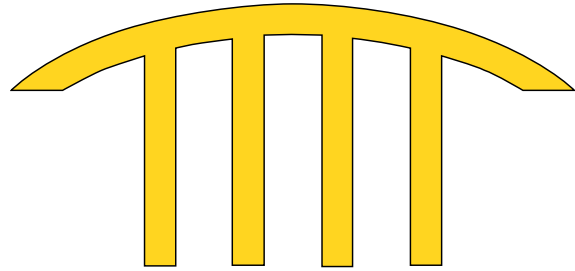
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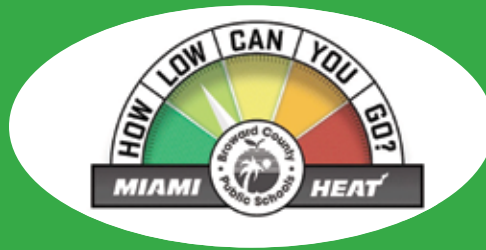
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**The  
 Desoto**



## Miami HEAT Teams Up with Schools to Reduce Energy and Water Consumption via “How Low Can You Go?” Initiative

### Congratulations to the 6th Annual How Low Can You Go Challenge winners!

The program has expanded and now invites participants from Miami-Dade and Palm Beach County. This year 109 schools participated, 64 from Broward.

The most ever participated in the Water Challenge, 35 schools !

Winners were invited to the American Airlines Arena to be recognized at halftime Ceremony for the Miami Heat game on April 3, 2019. Winning schools got a plaque and banner courtesy of Miami Heat. Broward County EPCRD supplied t-shirts for the winners and Chill sunglasses.

Thanks to all of the participating schools in this year’s Energy/Water Challenge!

Congratulations to these Broward County top WINNERS!

**Greatest % of Reduction** -William Dandy Middle School 12%

**Greatest Reduction in Water**-Crystal Lakes Middle 87% reduction

**Most Sustainable( 4 Years in a row)**-Walter C. Young

**MVP Energy & Water**-Westwood Heights Elementary





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Broward Sierra Group  
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Congratulations to the 2017 P<sub>3</sub> Eco-Challenge finalists!

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## Professional Development Opportunities

National Wildlife Federation Habitat Steward Training K-12 (June 24 - 28, 2018) 36 points

Participants will learn to implement the NatureScape initiative, achieve Schoolyard Habitat certification through the NWF and strategies for teaching water conservation, urban ecology, and environmental stewardship. The five-day course offers cross-curricular environmental activities that enhance the current science, literacy and math curriculum. Each day of this professional development will take place at a different location, giving the participants a chance to see the many habitats and natural resources in Broward County.

### Schoolyard Habitat K-12

This class will provide a curriculum for teaching health, science, language arts, mathematics and social studies. Gardening for Nutrition from Florida Agriculture in the Classroom, Schoolyard Habitat certification through the NWF learning gardens and environmental education in partnership with NatureScape Broward will be covered in two one day sessions.

For these workshops, please register through Learning Across Broward (LAB)



### STEM and the Future of Sustainability

Broward County Sistrunk Bioswale Demonstration Project, Broward County Environmental Planning and Community Resilience Division

Participating Schools

Global Scholar students at Parkway Middle School and Mr. Amro Ibrahim

Global Scholar students at Dillard High School and Ms. Monique Mitchell

Consultants

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### Congratulations to 2019 Emerald Award Winner

Sheridan Hills Elementary Students and Ms. Joanne Ewart

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## Water Conservation PSA Contest



For the third year, a Water PSA Contest was held as part of the P3 Eco-Challenge. Students were asked to create a 60 second PSA rap music video with the focus “The answer is nature”. This contest seeks to inspire and empower students to educate others to by storytelling through music, a powerful teaching tool that helps us learn faster and remember more.

The contest raises awareness and educates others about the value of water and the importance of water conservation. The PSA's have a creative way to communicate the importance of conserving water through visually showing the central message is that nature-based solutions, such as planting trees to replenish forest and create canopy in urbanized areas, restoring wetlands and coastal areas, and creating green infrastructure, are sustainable and cost-effective ways to help rebalance the water cycle, mitigate the effects of climate change and improve human health.

The winning school will win a water bottle filler and the winning team will win an additional prize.

The top five videos were submitted by:

- Linda Gancitano, Driftwood Middle
- Lenecia McCrary, Crystal Lake Middle
- Jacqueline Sanchez, Griffin Elementary
- Jack Wu, McFatter Technical College
- Lisa Bagiotti and Diane Kennedy, Silver Shores Elementary



## P<sub>3</sub> Eco-Challenge

**NOTES:**

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# P3 Eco-Challenge

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### Eco-Friends



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