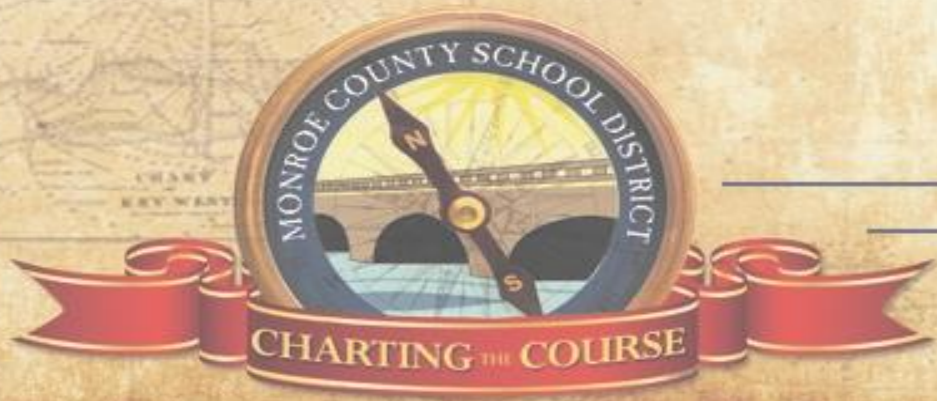


# STEM Fair Update 2019

Melissa Alsobrooks  
Science Coordinator



---

*To Excellence in the Monroe County Schools*

# State Recognition for MCSD STEM Fair

- **2015-2016 State Recognition-**
  - Junior Division- Two 3<sup>rd</sup> Place Awards
  - Received one special award
    - \$50- Junior Division- South Florida Regional Science Fair Award
- **2016-2017 State Recognition-**
  - Junior Division- An Honorable Mention Award and Recognition Award
  - Received two special awards
    - \$50- Senior Division- Collier Regional Science and Engineering Fair Award
    - \$25- Junior Division- Brevard: Intracoastal Regional Science and Engineering Fair
- **2017-2018 State Recognition-**
  - Junior Division- 3<sup>rd</sup> and 4<sup>th</sup> Place Awards
  - Senior Division- Recognition Award
  - Received two special awards
    - Echo Dot- Senior Division- Sarasota Regional Science and Engineering Fair
    - \$50- Senior Division- St. Johns Regional Science Fair



*To Excellence in the Monroe County Schools*



# School Based STEM Fairs

- All MCSD Schools are asked to hold a school based STEM Fair/ Science Night for their students and families.
- Schools are responsible for:
  - Organizing students/ projects and communicating requirements to students
  - Hosting the STEM Fair, including arranging for judges
  - Facilitating necessary paperwork for Regional Qualifying students
  - Review/ Approve projects at school level that require additional forms
- District Responsibilities:
  - Provide updated rules and forms for teachers and students
  - Provide training on rules and updates
  - Provide project boards for all students
  - Review/ Approve all student research that requires additional review procedures



---

*To Excellence in the Monroe County Schools*

# Regional Fair

- MCSD Regional Fair is in its 6<sup>th</sup> full year of participation with the State Science and Engineering Fair. We currently are allotted 8 student participation slots. 6 for individual projects and 2 for team projects.
- This year we had two special awards added to our regional fair- Key West Botanical Garden “Most Green” Award and Florida Association of Science Teachers Sponsored Award
- Regional Fair has 13 categories that may be entered, these are the categories approved by the State and International Science Fair



---

*To Excellence in the Monroe County Schools*



# Regional Fair February 9<sup>th</sup>, 2019 at Sugarloaf

- MCSD Regional STEM Fair includes entries from all of Monroe County public and charter schools.
- Elementary Schools:
  - Grades 4-5
  - 72 Entries, 92 student participants
- Junior Division
  - Grades 6-8
  - 46 Entries, 68 student participants
- Senior Division
  - Grades 9-12
  - 11 Entries, 20 student participants
- 12 Judges participated from organizations like:
- Reef Relief, FCAA, Ft. Jefferson National Park, Lignumvitae State Park, Dolphin Research Center, KW Botanical Garden, FIU, The Turtle Hospital, NOAA and National Weather Service

*To Excellence in the Monroe County Schools*

# Categories:

1. Animal Sciences
2. Behavioral & Social Sciences
3. Biomedical & Health Sciences
4. Cellular/ Molecular Biology & Biochemistry
5. Chemistry
6. Earth & Environmental Sciences
7. Engineering
8. Environmental Engineering
9. Intelligent Machines, Robotics and Systems Software
10. Mathematics & Computational Sciences
11. Microbiology
12. Physics & Astronomy
13. Plant Sciences



*To Excellence in the Monroe County Schools*

# 2018-2019 STEM Fair Results

## Senior Division:

1<sup>st</sup>- Bernado Burga – CSHS- Assessing the Health of “Thalassium testudinum” Off Plantation Key

2<sup>nd</sup> – Marsella Munoz- KWHS- Rate of Progression of Stony Coral Tissue Loss Disease in Correlation with Dissolved Oxygen and Temperature

3<sup>rd</sup> – Cameron Perkins – KWHS – It’s a Trap!

## Group Winners:

Kyle Kraus and Michael Petrusha- CSHS- Lobster and Litter

## Key West Botanical Garden- Most Green Award:

Skylynn Lindback- CSHS- Sunscreen Vs Coral



*To Excellence in the Monroe County Schools*



# 2018-2019 STEM Fair Results

## Junior Division:

1<sup>st</sup> – Connor Dixon- KLS- Can I Design a Sturdy, Cost-Efficient and Environmentally Friendly Nest for the Key Largo Woodrat?

2<sup>nd</sup> – Alexander Smith- KLS- What is the Effect of Automation of a Robot on Task Completion Time?

3<sup>rd</sup> – Kara Norman- MSM- The SCTLD Crisis

## Group Winners:

William Stolze and Edward Strunk – SCS- Shade Over Ecology

## Key West Botanical Garden- Most Green Project:

Aiden Pegues – TVM- Can a Flotilla of Cattails Reduce Nitrates in Lake Okeechobee?



*To Excellence in the Monroe County Schools*