



2020 Awards

MOBILE REGIONAL SCIENCE and ENGINEERING FAIR



University of South Alabama - Jag Gym
March 6, 2020

J U N I O R D I V I S I O N

Behavioral & Social Sciences

1st Place: Jonas Stay, "DWI: Driving While InTEXTicated"

2nd Place: Cullen Host, "Getting Crabby?"

3rd Place: Matalyne Kroll, "Music and Personality"

Botany/Zoology Group 1

1st Place: Jonathan Russel, "Birds and Aerodynamics"

2nd Place: Destiny Bjorensen, "The Little Creatures of Pond Water"

3rd Place: Corbin May, "Rusty Plants"

Botany/Zoology Group 2

1st Place: Shelby Davis, "Shoo Fly"

2nd Place: Potter Boutwell, "Sweet, Semi Sweet, or Bitter Nectar"

3rd Place: Lila Solano, "The Companion Planting Game"

Chemistry Group 1

1st Place: Cooper Cox, "Sarcophagus Science"

2nd Place: Abigale Van den Bosch, "Building a Gel Electrophoresis Chamber"

3rd Place: Jackson Reiney, "Fizzy Pop"

Chemistry Group 2

1st Place: Liam West, "Basically . . . How Soap Works"

2nd Place: Oscar Jones, "Will it Mummy?"

3rd Place: Lilly Bolton, "Egg-Cellent Muffins"

Engineering Group 1

1st Place: Caydn Eades, "Attack of the Monarch"

2nd Place: Elise Henderson, "Battle of the Glues"

3rd Place: Eva Waters, "Fire Up Your Phone!"

Engineering Group 2

1st Place: Sariah Hossain, "Between the Bridges"

2nd Place: Samuel Itza, "Just Wing It"

3rd Place: Neshwan Arif, "How Far Will It Fly?"

Environmental Science 1

1st Place: Dakota Perry, "Putting the Brakes on a Tsunami"

2nd Place: Carley Eaton, "Dangerous Dirt"

3rd Place: No Award Made

Environmental Science 2

1st Place: Thomas Carmichael, "Are Mardi Gras Beads Toxic: A test of Weights"

2nd Place: Josiah Cazalas, "Crystal Clear?"

3rd Place: Vivianne Prerost, "It's Electric"

Math & Computers

1st Place: Merrick Anderson, "Why don't I have a wifi signal"

2nd Place: Ryan Morvany, "Analyzing the Temp...Versus Inland Locations"

3rd Place: Nolan Pham, "Heat Loss= Money Loss"

Medicine & Health

1st Place: Hannah Mills, "Screen Time!"

2nd Place: Nathan Martin, "Glucose and Invertase"

3rd Place: Ginny Waites, "Do You Want Fries With That?"

Physical Science Group 1

1st Place: Daltrey LaGros, "Batter Up"

2nd Place: Catherine Williams, "Counting Carbs"

3rd Place: Amanda Barnickel, "Tame the Flame"

Physical Science Group 2

1st Place: Graham West, "Red Hot Cranberries"

2nd Place: Kaleigh Freeman, "Jumping Gymnast"

3rd Place: James Crowell, "Gerbusters"

Physical Science Group 3

1st Place: Madeline Borchert, "Resisting the Rust"

2nd Place: Robert Cowell, "Far Flying Paper Airplanes"

3rd Place: Quinn Huddleston, "Totally Tubular"

The Moore Family Statistical Excellence Award

1st Place: Thomas Carmichael, "Are Mardi Gras Beads Toxic: A test of Weights"

2nd Place: Aris Richter, "Does Minimizing/Maximizing...Affect Accuracy?"

3rd Place: Madeline Borchert, "Resisting the Rust"

Best-In-Fair

1st Place: Dakota Perry, "Putting the Brakes on a Tsunami"

2nd Place: Thomas Carmichael, "Are Mardi Gras Beads Toxic: A test of Weights"



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SENIOR DIVISION

Animal Sciences

1st Place: No Award Made

2nd Place: Caroline Toler, "Do Cats Exhibit Handedness"

3rd Place: Lily Welch, "Store Bought versus Fresh Eggs"

Behavioral/Social Sciences

1st Place: Samantha Oyler, "Do fabricated responses to increasingly embarrassing questions correlate with the degree of involuntary pupil dilation?"

2nd Place: Charity King, "Egg extermination"

3rd Place: Ava Zediker, "Screen or Paper"

Biochemistry

No Awards Made

Biomedical & Health Sciences

1st Place: Tonia Pettway, "Meditate Your Lungs"

2nd Place: Savannah Dinkel, "The Effect of Time and Cooking Types on the Availability of Nutritional Pigments in Vegetables"

3rd Place: Cat Elortegui, "Hot and Cold"

Biomedical Engineering/ Bioinformatics

1st Place: Gabriella Taylor, "Design and Implementation of a Novel Thermographic Device for Rapid Diagnosis of Partial Thickness Burns"

2nd Place: No Award Made

3rd Place: No Award Made

Cellular/Molecular Biology/Microbiology

1st Place: Addie Allred, "The Effectiveness of Home Remedies at Controlling Candidiasis"

2nd Place: Dev Mehta, "The Effect of Different Dilutions of Pomegranate, Lemon, Ginger, Turmeric Extracts on the Growth of E. coli Bacteria"

3rd Place: Ta'Niyah Phalo, "What's In My Water"

Chemistry

1st Place: Liberty Wigen, "Caffeine concentration in drip brew and cold brew coffee"

2nd Place: Rachel Majumder, "Which Humectant Retains the Most Moisture?"

3rd Place: Maria Moxey, "Neutralization of HCl using Antacid Medication as Indicated by PH"

Computer Science

1st Place: Taya Scott, "Codes Lines"

2nd Place: Taylor Carey, "Is it Worth It? (Disposable vs. Digital Cameras)"

3rd Place: Phoenix Brayan, "Lag, Lag, Lag!"

Earth and Environmental Sciences

1st: Casey Dinkel, "How is the rate of nutrient uptake and change in biomass by phytoplankton and Sargassum affected when they are permitted to compete?"

2nd Place: Anushka Sikdar, "Assessing Nutrient & Metal Variation in Surface Water of the Mobile Bay Water"

3rd Place: Elizabeth Turberville, "Environmental Sulfuring"

Embedded Systems

1st Place: Cary Xiao, "A Low-Cost Approach to Handheld Laser Diode Communication"

2nd Place: No Award Made

3rd Place: No Award Made

Energy Chemical/ Physical

1st Place: Haydan Emmertson, "Enhancing Solar Cells"

2nd Place: Oluwatimilehin Ogunade, "The Citrus Battery"

3rd Place: John Boucher-Ferry, "Wahoo for Wind"

Engineering: Mechanics

1st Place: Triston Buckley, "Applying Pressure"

2nd Place: Ansley Perea, "All of Favorite Colors"

3rd Place: Dashiell Allred, "How much weight does your boat float?"

Environmental Engineering

1st Place: Julianne Berte, "Vegetation and Sand Fencing: Effects on Beach Erosion"

2nd Place: Dustin Brown, "Converting Bio-Plastics to Bio-Fuel Using Sources w/Similar Polymers as Petroleum-Based Fuel"

3rd Place: Tucker Horn, "How Different Types of Aggregates Effect the Strength of Concrete"

Materials Science

1st Place: Akanksha Rawat, "A facile method of producing TiO₂ nanoparticles through dusty plasma process"

2nd Place: Jordan Hobbs, "Ripped at the Seams"

3rd Place: Keondra King, "Does wood or metal bat has the most pop"

Mathematics

1st Place: Gregory Li, "K₆ Minors in 2-Apex 6-connected Graphs with the Icosahedral Subgraph"

2nd Place: No Award Made

3rd Place: No Award Made

Physics and Astronomy

1st Place: Pierson Easter, "Planes of Physics"

2nd Place: Tyler Thornton, "Hit Your Spot, but with Gas I Think Not"

3rd Place: Matthew Leyk, "Blood Drop Forensics"

Plant Sciences

1st Place: Aleksandra Naylor, "Live Oak Trees' Seasonal Storage Changes of Biochemical Energy in their Leaves and Roots"

2nd Place: Marie-Claire Don Jayawardena, "The Effects of Light on the Altruism of Pea Plants"

3rd Place: Callie Thompson, "Analysis of Light Attenuation on Ilex vomitoria Pigment Concentration"

Robotics/Intelligent Machines

1st Place: Destine Diggs, "A Low-cost Intelligent Anthropomorphic Machine designed for Multiple Applications"

2nd Place: No Award Made

3rd Place: No Award Made

BEST IN FAIR

1st Place: Cary Xiao, "A Low-Cost Approach to Handheld Laser Diode Communication"

2nd Place: Akanksha Rawat, "A facile method of producing TiO₂ nanoparticles through dusty plasma process"

3rd Place: Gabriella Taylor, "Design and Implementation of a Novel Thermographic Device for Rapid Diagnosis of Partial Thickness Burns"

4th Place: Rachel Majumder, "Which Humectant Retains the Most Moisture?"

1st Alternate: Julianne Berte, "Vegetation and Sand Fencing: Effects on Beach Erosion"

2nd Alternate: Savannah Dinkel, "The Effect of Time and Cooking Types on the Availability of Nutritional Pigments in Vegetables"

The Moore Family Statistical Excellence Award

1st: Dev Mehta: "The Effect of Different Dilutions of Pomegranate, Lemon, Ginger, Turmeric Extracts on the Growth of E. coli Bacteria"

2nd Place: Samantha Oylar: "Do fabricated responses to increasingly embarrassing questions correlate with the degree of involuntary pupil dilation?"

3rd Place: Savannah Dinkel: "The Effect of Time and Cooking Types on the Availability of Nutritional Pigments in Vegetables"