



2022 Awards

MOBILE REGIONAL SCIENCE and ENGINEERING FAIR



University of South Alabama - Jag Gym
March 11, 2022

SENIOR DIVISION

Biomedical Engineering & Bioinformatics

1st Place: Kenneth Womble, Alabama School of Math and Science:

“A Comparative Analysis of Three Eukaryotic Motor Proteins' Evolutionary Histories Obtained Through the use of Bioinformatics Tools”

Cellular/Molecular Biology/Microbiology

1st Place: Dev Mahta, Davidson High School:

“Bacillus cereus Spores Cause Increased Adherence to Radiation Therapy Thermoplastic Immobilization Mask Material”

Chemistry

1st Place: Louisa Forbes, Davidson High School:

“Do differing wasted animal fats and cooking oils differ in their saponification value and therefore densities of their transesterified fatty acid methyl esters?”

Engineering: Mechanics

1st Place: Nicholas Kim, Alabama School of Math and Science:

“3-D Printed Origami Precreaser”

Environmental Engineering

1st Place: Dakota Perry, Davidson High School:

“A Mechanism Utilizing Renewable Energy for Eliminating Aquatic Trash in Waterways that does not Contribute to Global Warming and Air Pollution.”

Materials Science

1st Place: Sanjana Mupparaju, Alabama School of Math and Science:

“Synthesis Methods of 2-D Tin Sulfide Nanomaterials”

Mathematics

1st Place: Jacob Kim, Alabama School of Math and Science:

“Properties of Stieltjes-Rogers Polynomials and Random Polynomials”

Physics & Astronomy

1st Place: Elbread Roh, Alabama School of Math and Science:

“Long Term X-Ray Flux Solar Flare Intensity Prediction Using Machine Learning”

Moore Statistical Award

1st Place: Dev Mahta, Davidson High School:

“Bacillus cereus Spores Cause Increased Adherence to Radiation Therapy Thermoplastic Immobilization Mask Material” (Cellular/Molecular Biology/Microbiology)
Received \$100 Gift card to the USA Bookstore

2nd Place: Louisa Forbes, Davidson High School:

“Do differing wasted animal fats and cooking oils differ in their saponification value and therefore densities of their transesterified fatty acid methyl esters?” (Chemistry)
Received \$50 Gift card to the USA Bookstore

3rd Place: Sanjana Mupparaju, Alabama School of Math and Science:

“Synthesis Methods of 2-D Tin Sulfide Nanomaterials” (Materials Science)
Received \$25 Gift card to the USA Bookstore

Best-In-Show Awards

1st Place: Sanjana Mupparaju, Alabama School of Math and Science:

“Synthesis Methods of 2-D Tin Sulfide Nanomaterials” (Materials Science)
Funding to attend the International Science & Engineering Fair: \$1200.00

2nd Place: Dakota Perry, Davidson High School:

“A Mechanism Utilizing Renewable Energy for Eliminating Aquatic Trash in Waterways that does not Contribute to Global Warming and Air Pollution.” (Environmental Engineering)
Funding to attend the International Science & Engineering Fair: \$1200.00

Runners Up for Best-In-Show

Nicholas Kim, Alabama School of Math and Science:

“3-D Printed Origami Precreaser” (Engineering: Mechanics)
Received \$50 Gift card to the USA Bookstore

Louisa Forbes, Davidson High School:

“Do differing wasted animal fats and cooking oils differ in their saponification value and therefore densities of their transesterified fatty acid methyl esters?” (Chemistry)
Received \$50 Gift card to the USA Bookstore

BEST IN FAIR

To be announced

Community Innovation Award Winner

To be announced