Greater East Alabama Regional Science and Engineering Fair- General Award Script - Senior Divisions (grades 9-12)

Senior Divisions (grades 9-12)

0100 Animal and Plant Sciences

3rd Place

Sania Kazmi - Auburn High School

SR-0100-0009 - Genetic Variation in Heat Tolerance in Drosophila

2nd Place

Kira LeFevre - Wetumpka High School

SR-0100-0019 - Will Adding Artificial Light to a Chicken Coop Help With Egg Production During Molting?

1st Place

Annie Bao - Auburn High School

SR-0100-0010 - Development of a Novel Plasma Assay for Plasminogen Activator-Inhibitor (PAI-1) Activity in Healthy Dogs and Dogs with Immune-Mediated Hemolytic Anemia (IMHA)

0200 Behavioral & Social Sciences

2nd Place

Jeremiah Ray - Wetumpka High School

SR-0200-0049 - Smartphones: Are We Addicted?

1st Place

Parker Thompson - Wetumpka High School

SR-0200-0013 - Leveraging Artificial Intelligence to Improve Health Literacy and Promote Health Equity

0300 Cell, Molecular, Microbiology & Biochemistry

3rd Place

Gaeun Lee - Auburn High School

SR-0300-0133 - The Role of KatG-Specific Structures in Hydrogen Peroxide-Mediated Activation of the Anti-Tubercular Drug Isoniazid

2nd Place

Liam Felio - Stanhope Elmore HIgh School

SR-0300-0082 - Sugar Rush

1st Place

Mira Menon - LAMP

SR-0300-0134 - Dynamic Modulation of Axonal Trafficking of Synaptic Vesicles in Activity-Dependent Presynaptic Function

0400 Chemistry

3rd Place

Jaida Davis - Central High School, Lowndes County

SR-0400-0052 - Assessing Water Qualities

2nd Place

Hayden Mckenzie - Wetumpka High School

SR-0400-0036 - Illuminating the Evidence

1st Place

Alexis Saffold - Dothan High School

SR-0400-0107 - Clean Skin Mission!

0500 Engineering

3rd Place

Morgan Purdy, Zachariah Shleibak - Smiths Station High School

SR-0500-0097-T - Impact of EVOH Dissolution Rate in Multi-layer Packaging through Geometric and Shear Modifications

2nd Place

Jessica Shu - Auburn High School
SR-0500-0012 - VisionMouse: Integrating Deep Learning with Eyeball Tracking to Assist People with Reduced Motor Skills in Interacting with Touch-Screen Devices in the Digital Age

1st Place
Will Bao, Austin Zhan - Auburn High School
SR-0500-0005-T - 3D-Printed Textiles via Computer Simulation and Machine Learning Optimization

0600 Energy
3rd Place
Colby (CJ) Allen, Dominic Jones - Stanhope Elmore HIgh School
SR-0600-0115-T - Power Play: Watt's The Best Energy Source?

2nd Place
Nicholas Davis, Dominic Vilardi - Wetumpka High School
SR-0600-0039-T - Revolutionizing Saving Energy Through Means of Tactical and Plentiful Sources

1st Place
Andrew Zhang - Auburn Jr. High School
SR-0600-0083 - Hydrogen Synthesis via Electrolysis with Different Electrolytes

0700 Earth and Environmental Sciences & Environmental Engineering
3rd Place
Gabrol Dubose, Taelynn Teel - Central High School, Phenix City
SR-0700-0121-T - Parameter Optimization of Reclaiming Polyolefins from Multilayer Plastics by Selective Dissolution

2nd Place
Shalom McCloud - Holtville High School
SR-0700-0041 - Protect the Environment with Biodegradable Magic

1st Place
Alexander Bian, Christopher Valeri - Auburn High School
SR-0700-0125-T - The Effect of 3D Printer Infills on the Mechanical Properties of Printed Parts

0800 Biomedical Engineering & Biomedical and Health Sciences
1st Place
Jatin Banna, Yujin Bong - LAMP
SR-0800-0143-T - Investigating the Effects of Commercial Ganoderma lucidum Powder on Cancer Cell Proliferation

0900 Physics, Astronomy & Mathematics
3rd Place
Kaylee Oh - Auburn Jr. High School
SR-0900-0011 - Investigating the Relationship between Leaf Dimensions and Airflow Induced Transport

2nd Place
Jackson Taylor - Elmore County High School
SR-0900-0037 - Up Up and Away

1st Place
John Parsons - Auburn High School
SR-0900-0006 - Examining and Mathematically Modeling the Einstein-de Haas Effect Under Varied Conditions

1100 Robotic Systems & Communication Technology
3rd Place
John Belew - Wetumpka High School
SR-1100-0016 - Developing an Enhanced Feature-Rich Dataset for Portable Executable Malware Classification with Deep Learning and Static Analysis

2nd Place
Adonay Mahatsente-Tewelde - GEARSEF direct high school
SR-1100-0120 - Occlusion-Resilient Learning: A Novel Application of Synthetic Radar Data and the Orthogonal Matching Pursuit for Search and Rescue

1st Place
Edwin Wu - GEARSEF direct high school
SR-1100-0020 - Intelligent IoT-Driven Medication Dispenser with Predictive Machine Learning Algorithms for Enhanced Senior Care

1200 Computational and Bioinformatics Sciences
2nd Place
Cynthia Kim, Hyekyung Kim - LAMP
SR-1200-0142-T - Utility Cost Analysis of Separating Two Different Solvents of EVOH

1st Place
Rhea Arya - LAMP
SR-1200-0135 - Computational Prediction of Nonabine as a Novel Cannabinoid Receptor Subtype 2 Selective Agonist