

# UAB-CORD CARSEF Winners

March 7, 2026

## CARSEF TOP HONORS SENIOR DIVISION

The 4 projects on this page advance directly to the Regeneron International Science and Engineering Fair

### **Harsha Bheemanathini**

9<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: The Effects of Menstrual Product Leachates on Planarian Survival

### **Sophia Guo**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Developing Sustainable Glycerol-Based Monomers for Polymer Blends Using 3D Printing

### **Saisha Sahoo**

10<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Examining the Phytoremediation Potential of *Pontederia Cordata* for Lithium, Cobalt, and Lead

### **Will Ren**

11<sup>th</sup> Grade

Hoover High School

Project Title: Improving In Vitro and In Vitro RadioBiology Models Through Standardized Irradiation and Cerium Oxide Nanoparticle-Mediated Radioprotection

# CARSEF CATEGORY WINNERS

## Senior Division

### BEHAVIORAL AND SOCIAL SCIENCE

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

#### 1<sup>st</sup> Place

**Emalyn Smitherman**

11<sup>th</sup> Grade

Locust Fort High School

Project Title: Under Pressure

#### 2<sup>nd</sup> Place

**Srihitha Vem**

11<sup>th</sup> Grade

Hoover High School

Project Title: Patterns of Activity in Subregions of the Prefrontal Cortex After Sucrose Operant Conditioning

#### 3<sup>rd</sup> Place

**Ashley Guo**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Effects of Child Opportunity Index on Student Health

#### Honorable Mention

**Victor Jordan**

9<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Necessity of Visual Imagery on Career Success

**Maeve Loehr**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Snark Measure and Relation of Snarkiness in Adolescents' Friendships

**Lillian Bahena**

9<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: The Potential for Social Learning to Align Domestic Conures' Skill Acquisition with that of Their Wild Counterparts

## **BIOLOGY – Senior Division**

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### *1<sup>st</sup> Place*

**Harsha Bheemanathini**

9<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: The Effects of Menstrual Product Leachates on Planarian Survival

### *2<sup>nd</sup> Place*

**Rania Masri**

10<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: The Effects of Olive Oil on the Growth and Life Span of Caenorhabditis Elegans

### *3<sup>rd</sup> Place*

**Clark Baty**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Impact of tRNA Gene Knockouts on Yeast Cell Quiescence

### *Honorable Mention*

**Mays Mango**

10<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Investigating Honey's Antiparasitic Properties

**Jenna Patel & Benjamin Wynn**

10<sup>th</sup> Grade

Oxford High School

Project Title: The Effects of Temperature, Substrate Concentration, and Potato Type on Catalase Enzyme Activity

**Karl Harris & Sultan Alburaiki**

11<sup>th</sup> Grade

Jacksonville High School

Project Title: An Interpretable Machine Learning Framework for Prioritizing RAAS Variants Associated with Hypertension

## CHEMISTRY – Senior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Sophia Guo**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Developing Sustainable Glycerol-Based Monomers for Polymer Blends Using 3D Printing

### 2<sup>nd</sup> Place

**Jaye Choi**

10<sup>th</sup> Grade

Indian Springs School

Project Title: Cinnamon's Efficacy as  $\alpha$ -amylase and  $\alpha$ -glucosidase inhibitor in Diabetic Patients

### 3<sup>rd</sup> Place

**Akhil Batchu**

11<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Computational Investigation of Electronic Effects on Reactivity in Aromatic Heterocycles

### Honorable Mention

**Colette Kennedy & Mollie Turner**

11<sup>th</sup> Grade

Spring Valley School

Project Title: Cold Wars: Chemical Dyes vs. Synthetic Dyes

**Mariam Alharim**

10<sup>th</sup> Grade

Iqra Math and Science Academy

Project Title: Does Temperature Affect Your Henna Stain?

**Sara Aboumoussa**

9<sup>th</sup> Grade

Iqra Math and Science Academy

Project Title: How Does Sunscreen Protect From UV Rays?

## ENERGY AND TRANSPORTATION – Senior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Ayesha Izhar**

10<sup>th</sup> Grade

Iqua Math and Science Academy

Project Title: Efficient, or Just Expensive

### 2<sup>nd</sup> Place

**Tyler Anderson & Natalie Bowyer**

12<sup>th</sup> Grade

Hewitt-Trussville High School

Project Title: Emergency Electric Power

## ENGINEERING – Senior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Mia Hall & Michael Mazur**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Parametric Evaluation of a Deployable Kresling Origami Lattice Structure for Enhanced Automotive Crashworthiness

### 2<sup>nd</sup> Place

**Wanchen Yao**

11<sup>th</sup> Grade

Indian Springs School

Project Title: An Edge-AI Smart Toothbrush for Real-Time Detection of Pediatric Dental Caries

### 3<sup>rd</sup> Place

**Weijin Xu**

10<sup>th</sup> Grade

Indian Springs School

Project Title: A Modular and Detachable Ankle Rehabilitation Device with Multimodal Training Functions

### Honorable Mention

**Noor Abouhouli**

9<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Shaping the Wind: The Effect of Battle Design and Wind Speed on Windcatcher Cooling

**Jaiden Lee**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Mechanical Strain and VEGF Signaling Enhance TNBC Proliferation in 3D Microtissues

**Greeshma Vinoy**

11<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Fabrication of Laser-Inducted Carbon-Based Interdigitated Electrodes for Vitamin B12 Sensing

## ENVIRONMENTAL AND EARTH SCIENCE – Senior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Saisha Sahoo**

10<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Examining the Phytoremediation Potential of *Pontederia cordata* for Lithium, Cobalt, and Lead

### 2<sup>nd</sup> Place

**Anushka Behara**

9<sup>th</sup> Grade

Vestavia Hills High School

Project Title: Epigenetic Memory of Environmental Pollution: Long-Term Effects of Urban Toxicants on Planarian Regeneration

### 3<sup>rd</sup> Place

**Leen Dabbous & Maryam Rasheed**

9<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Microplastic Imaging: Does Filtering Your Water Really Work?

### Honorable Mention

**Annuska Dsa**

10<sup>th</sup> Grade

Vestavia Hills High School

Project Title: Engineering a Low Environment Impact Packaging Solution for Highly Viscous Consumer Products: Minimizing Product Losses, Carbon, Water Footprint, and Life Cycle Costs

**Saikarunya Kesireddy & Jao Chen**

9<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Investigating the Potential of Bacteria Bioprecipitation to Treat Heavy Metal Contaminated Water

**Ezra ElNaggar**

9<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Using Ferrofluid to Clean Oil Spills and Comparing it to Traditional Methods

## MATHEMATICS AND COMPUTER SCIENCE – Senior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Yusuf Nabi & Hudhayfah Rasheed**

11<sup>th</sup> Grade & 12<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Mind Control: Using Brain Waves to Control Robotic Objects Might Be the Future of Assistive Technologies

### 2<sup>nd</sup> Place

**Walter Anderson & Parker Madden**

12<sup>th</sup> Grade

Spring Valley School

Project Title: Magic: The Gathering Price Prediction Model

### 3<sup>rd</sup> Place

**Jayden Dao & Star Kim**

12<sup>th</sup> Grade & 11<sup>th</sup> Grade

Home School

Project Title: Super Seniors and Portal Players: Can Experience Buy a Championship?

### Honorable Mention

**Shrey Nehwal**

9<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: The Impact of Tariffs on the Sectors of the U.S. Economy

**Olvin Mancía-Andino**

10<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Predicting the Population Movement Dynamics of Woodland Caribou Using a Simplified Modeling Simulation

**Austin Lu**

9<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: How Leaf Weight and Shape Affects Distance a Leaf Falls from its Tree

## MEDICINE AND HEALTH SCIENCE – Senior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Will Ren**

11<sup>th</sup> Grade

Hoover High School

Project Title: Improving In Vitro and In Vitro RadioBiology Models Through Standardized Irradiation and Cerium Oxide Nanoparticle-Mediated Radioprotection

### 2<sup>nd</sup> Place

**Danielle George**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Exploring Tampon-Derived Vaginal Fluids for Early Detection of Endometrial Cancer via Biomarker Analysis

### 3<sup>rd</sup> Place

**Dev Patel**

11<sup>th</sup> Grade

Vestavia Hills High School

Project Title: Studying the Impact of WOA3d Inhibitor Molecule on Triple-Negative Breast Cancer Cells Utilizing Western Blots and Time Course Treatments

### Honorable Mention

**Shreyas Keshava**

11<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Methyltransferase Identified to Decrease Sensitivity to Menin Inhibition in Acute Myeloid Leukemia

**Noah Lowry**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Non-invasive Representation Learning Finds Cancer Features in Prostate MRI

**Chloe Wagener**

11<sup>th</sup> Grade

Hoover High School

Project Title: Differential Paracellular Permeability from Amyloid-beta Secreted from Alveolar Epithelial Cells Infected with Pseudomonas aeruginosa Variants Isolated from Critically Ill Patients

## PHYSICAL SCIENCE – Senior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Jackson Odom**

12<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: The Effect of Fiber Orientation on HDPE/Vinyl Ester Composites

### 2<sup>nd</sup> Place

**Ella Watkins**

12<sup>th</sup> Grade

Spring Valley School

Project Title: Humidity's Greater Effect on the Photodegradation of Prismacolor Colored Pencils on Bristol Vellum Paper

### 3<sup>rd</sup> Place

**Alexander Mendell**

9<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: The Effect of Polymer Bond Type on the Strength and Durability of Consumer Appropriate Polymer Gels

# CARSEF CATEGORY WINNERS

## Junior Division

### BEHAVIORAL AND SOCIAL SCIENCE

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

#### 1<sup>st</sup> Place

**Liam Patel, David DeLaire, & Beren Melouk**

8<sup>th</sup> Grade

Tuscaloosa Magnet Schools – Middle

Project Title: Mind Over Matter: The Power of Your Brainwaves

#### 2<sup>nd</sup> Place

**Ana Singh**

8<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Slow and Steady Wins the Race (\*NOT)

#### 3<sup>rd</sup> Place

**Aisha Humaira & Rykard Lindeman**

7<sup>th</sup> Grade & 8<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: The Impact of Perceived Parachute Effectiveness on Fear When Skydiving

#### Honorable Mention

**Khloe Covington & Zoey King**

8<sup>th</sup> Grade

The Alberta School of Performing Arts

Project Title: Color Perception: Changes in Color Based on Background

#### Honorable Mention

**Avery Doss**

8<sup>th</sup> Grade

Montevallo Middle School

Project Title: Is Music Medicine to Your Memory?

#### Honorable Mention

**Anthony Skagen**

7<sup>th</sup> Grade

Holy Spirit Catholic School

Project Title: Can Humans Tell the Difference Between AI & Human Images?

## **BIOLOGY – Junior Division**

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### *1<sup>st</sup> Place*

**Peyton Moody**

8<sup>th</sup> Grade

Chelsea Middle School

Project Title: Motherhood in Question: Testing Her Responsibilities to Foster Chicks

### *2<sup>nd</sup> Place*

**Rneem Mafahi, Anwar Aldhbyani & Entesar Almansoob**

8<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Painted Lady

### *3<sup>rd</sup> Place*

**Omar Aldabbas**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Algae-Based Ammonia Removal

### *Honorable Mention*

**Sarah Alsabahi**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Milkin It

**Baylee Cowans**

6<sup>th</sup> Grade

John Herbert Phillips Academy

Project Title: Fingerprint Patterns

**Cole Voorhees & Ali Moftakhari**

8<sup>th</sup> Grade

Northridge Middle School

Project Title: How Do Different Species of Mold Coexist?

## CHEMISTRY – Junior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Durga Mamidi**

8<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: A Comparative Analysis of pH in Natural Ingredients and Cosmetic Products

### 2<sup>nd</sup> Place

**Maria Ahmed & Maha Saleh**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Scent Lab

### 3<sup>rd</sup> Place

**Jacee Summers & Widada Alyousef**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: The Chemistry of Popping Perfection

### Honorable Mention

**Reetall Jaber & Roya Jaber**

6<sup>th</sup> Grade

Holy Spirit Catholic High School

Project Title: Fruit Dehydration

**Roya Jaber & Reetall Jaber**

7<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Fluffy Factory

**Sammy Sterritt, Ashley Dong & Thomas Wingard**

6<sup>th</sup> Grade

Tuscaloosa Magnet Schools – Middle

Project Title: Fruit Battery

## ENERGY AND TRANSPORTATION – Junior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### *1<sup>st</sup> Place*

**Woodsea Hutchison & Luisa Barthelmes**

6<sup>th</sup> Grade

Tuscaloosa Academy

Project Title: Conductivity Counts

### *2<sup>nd</sup> Place*

**Bayan Mohamed & Maysaa Alfakeeh**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Spinning of Science

## ENGINEERING – Junior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Adam Dabbous**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Hang in There

### 2<sup>nd</sup> Place

**Omar Ghannoum**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Light Bot

### 3<sup>rd</sup> Place

**Zayan Ashraf & Mohamed Nasher**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: DIY Drone Project

### Honorable Mention

**Andrew Kilgore**

7<sup>th</sup> Grade

Holy Spirit Catholic High School

Project Title: A Natural Hoover

**Callen Tierney**

7<sup>th</sup> Grade

Holy Spirit Catholic School

Project Title: The Gyroscope of Things

**Pious Muehlbauer**

8<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Bristlebotic Navigator

## ENVIRONMENTAL AND EARTH SCIENCE – Junior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**River Foster**

7<sup>th</sup> Grade

Spring Valley School

Project Title: How Old Are Our Fish? Linking Otolith Ages with Lake Water Quality – A Health Assessment on Million Dollar Lakes in Lakeview, AL

### 2<sup>nd</sup> Place

**Entesar Albahlol**

7<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Bio-Strength

### 3<sup>rd</sup> Place

**Darshith Paturi**

8<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Water Quality

### Honorable Mention

**Abdullah Ali & Bachir Diallo**

8<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Absorbent Polymers

**Harlan Duley**

6<sup>th</sup> Grade

John Herbert Phillips Academy

Project Title: If We Build It Will Bats Come?

**Ian Whitman**

8<sup>th</sup> Grade

Holy Spirit Catholic School

Project Title: Shell Shock

## MATHEMATICS AND COMPUTER SCIENCE – Junior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Shlok Templin**

8<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Convolutional Neural Networks and Their Parameters that Affect Image Recognition

### 2<sup>nd</sup> Place

**Kaylee Swanquist, Lily Miksis, & Emily Snodsmith**

6<sup>th</sup> Grade

Tuscaloosa Academy

Project Title: Middle School vs. AI

### 3<sup>rd</sup> Place

**Meryem Zengul**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Is AI Gender and Racially Biased?

### Honorable Mention

**Yeeman Kanpher**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Title: What Materials Can Block a Wi-Fi Signal

**Emoni McKenzie**

6<sup>th</sup> Grade

John Herbert Phillips Academy

Title: The Sign Gap: AI vs. Colloquial ASL

**Anastasia Gleyzer & Elia Meyal**

7<sup>th</sup> Grade

Northridge Middle School

Title: Machine Learning for Covid Predictions

## MEDICINE AND HEALTH SCIENCE – Junior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### *1<sup>st</sup> Place*

**Johitha John Victor**

6<sup>th</sup> Grade

Northridge Middle School

Project Title: Is Skin the First Line of Defense?

### *2<sup>nd</sup> Place*

**Khidr Kishan Budhwani & Brahma Mubarak Budhwani**

8<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Characterizing Tumor Microenvironment Barriers Using Dual-Stain Histology

### *3<sup>rd</sup> Place*

**Evelyn Atkins**

8<sup>th</sup> Grade

Northridge Middle School

Project Title: Will It Mold?

### *Honorable Mention*

**Anwar Almansoob & Noor Almansoob**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Sugar Shock

**Dulce Perez**

7<sup>th</sup> Grade

Wilkerson Middle School

Project Title: What Drink Damage Teeth the Most

**Sehzade Yavuz**

7<sup>th</sup> Grade

Iqra Math and Science Academy

Project Title: Does Caffeine Affect Heart Rate

## PHYSICAL SCIENCE – Junior Division

1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place will advance to the Alabama Science and Engineering Fair

### 1<sup>st</sup> Place

**Tarek Alsabahi**

7<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: 3D Pattern

### 2<sup>nd</sup> Place

**Jonah Jeffreys**

7<sup>th</sup> Grade

Holy Spirit Catholic School

Project Title: My David II

### 3<sup>rd</sup> Place

**Sagar Yellamraju**

8<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: How Much Energy is Retained Following Each Inelastic Collision of a Bouncing Basketball?

### Honorable Mention

**Creed Stano**

8<sup>th</sup> Grade

Montevallo Middle School

Project Title: Power Soccer Angles and Speed

**Sophia Sori**

7<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Power of a Pinwheel

**Mera Bradbury**

8<sup>th</sup> Grade

Helena Middle School

Project Title: The Turning Point of Friction

## **SPECIAL AWARD WINNERS**

### **AMERICAN PSYCHOLOGICAL SOCIETY**

*"Best" in Research in Psychological Science*

**Srihitha Vem**

11<sup>th</sup> Grade

Hoover High School

Project Title: Patterns of Activity in Subregions of the Medial Prefrontal Cortex After Sucrose Operant Conditioning

### **ASSOCIATION FOR WOMEN GEOSCIENTISTS**

*"Best" Female Project in Geosciences*

**Ainsley Atwood**

8<sup>th</sup> Grade

Duran North Junior High School

Project Title: What Lies Beneath

### **CITADEL SECURITIES INNOVATION PRIZE**

*"Best" in Innovation*

***\$100 Award***

**Ayesha Izhar**

10<sup>th</sup> Grade

Iqra Math and Science Academy

Project Title: Efficient, or Just Expensive

**Khidr Kishan Budhwani & Brahma Mubarak Budhwani**

8<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Characterizing Tumor Microenvironment Barriers Using Dual-Stain Histology

## LEMELSON EARLY INVENTOR PRIZE

*"Top" Inventor*

**Adam Dabbous**

6<sup>th</sup> Grade

Islamic Academy of Alabama

Project Title: Hang in There

## NASA EARTH SYSTEM SCIENCE AWARD

*"Best" Insight into Earth's Interconnected System*

**Ella Watkins**

8<sup>th</sup> Grade

Spring Valley School

Project Title: Humidity's Greater Effect on the Photodegradation of Prismacolor Colored Pencils on Bristol Vellum Paper

## NOAA'S TAKING PULSE OF PLANET AWARD

*"Best" Innovation for Improved Understanding of Earth's Dynamic Process*

**Xiu Wan Hu**

11<sup>th</sup> Grade

Indian Springs School

Project Title: Predicting Land Surface Temperature and Optimizing Greening to Reduce Urban Heat

## REGENERON BIOMEDICAL SCIENCE AWARD

*"Best" Biomedical Science*

***\$375 Award***

**Shreyas Keshava**

11<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Methyltransferase Identified to Decrease Sensitivity to Menin Inhibition in Acute Myeloid Leukemia

**RICOH**

*“Outstanding” Achievement in Environmental Challenges or Sustainability*

**Simon Barger**

8<sup>th</sup> Grade

Berry Middle School

Project Title: Charcoal Optimization in a Modular, Found-Object Water Filtration System

**Annuska Dsa**

10<sup>th</sup> Grade

Vestavia Hills High School

Project Title: Engineering a Low Environmental Impact Packaging Solution for Highly Viscous Consumer Products

**STOCKHOLM WATER PRIZE**

*“Best” Water Quality Project*

**Saisha Sahoo**

10<sup>th</sup> Grade

Alabama School of Fine Arts

Project Title: Examining the Phytoremediation Potential of Pontederia Cordata for Lithium, Charcoal, and Lead