

# GEARSEF 2020 Awards Ceremony Winners List (Senior Division)

## SPECIAL AWARD RECOGNITIONS

### **American Psychological Association Award**

This award recognizes the top project in the category of Behavior & Social Sciences. The winner will receive a certificate of recognition and a \$50 cash award.

The winner is: Rachel Allen, Elmore County HS

### **Auburn University's 100 Women Strong Achievement Award**

*Sponsored by: 100 Women Strong*

This achievement award recognizes females that exemplify excellence through research in any category. Winners will receive the following -1st place \$100 cash prize and a plaque, 2nd place \$75 cash prize and a certificate, 3rd place \$50 cash prize and a certificate.

The winners are:

1<sup>st</sup> place – Chloe Naquin, Stanhope Elmore HS

2<sup>nd</sup> place – Halle Poole, Eufaula HS

3<sup>rd</sup> place – Bella Antone & Eden Grace, Dothan HS

### **AU Department of Chemistry and Biochemistry Award**

*Sponsored by: AU Department of Chemistry and Biochemistry*

This award recognizes high achievement in scientific research in the field of chemistry or biochemistry. The winner will receive a plaque and a \$100 cash award.

The winner is: Brayden Noh, Auburn HS

### **AU Department of Geosciences Award**

*Sponsored by: AU Department of Geosciences*

This award recognizes high achievement in the categories of geoscience, geology, and geography. The winner will receive a plaque and a \$100 cash award.

The winner is: Keith Chapple, Central HS

### **AU Physics Award for Ingenuity and Inventiveness**

*Sponsored by: AU Department of Physics*

Physical principles underlie all of science. This award is given in recognition of an individual who demonstrated an understanding of the laws of physics and how to use them to interpret and understand the world around us. The winner will receive a plaque and a \$100 cash award.

The winner is: Jaeyoung Lee, Auburn HS

**AU Samuel Ginn College of Engineering Award**

*Sponsored by: Samuel Ginn College of Engineering Award, Office of the Dean*

This award will be given for a project in any category that demonstrates an innovative application of math or science to a challenge of our society. The winner will receive a plaque and a \$100 cash award.

The winner is: Brantley Laney, Central HS

**AU Society of Women in Sciences and Mathematics Achievement Award**

*Sponsored by: The Society of Women in Sciences and Mathematics – Auburn University*

This award recognizes high achievement in scientific research by a female. It will be awarded to the top-scoring female in the senior division. Winners of this award will receive a plaque and a \$100 cash award

The winner is: Shivani Babu, Auburn HS

**Auburn University Biological Sciences Award for Creative Application of Biological Principles, sponsored by the AU Biological Sciences Dept.**

This award recognizes the project that best demonstrated a creative application of biological principles. The winner will receive a plaque and \$100 cash award.

The winner is: Shivani Babu, Auburn HS

**AU Spirit of Excellence**

*Sponsored by: The Auburn University COSAM Office of Inclusion, Diversity and Equity*

This award recognizes any student for any category considered an underrepresented minority in STEM (African Americans, American Indians including Native Alaskans, Hispanics and Native Pacific Islanders), or persons with disabilities. The winner will receive a certificate and a \$100 cash award.

The winner is: Shemaiya Peak, Stanhope Elmore HS

**Biophysical Society Award**

*Sponsored by: The Biophysical Society*

This award will be given to the student whose project shows great promise for innovation in a biophysics related field. The winner will receive a certificate and a \$100 cash award.

The winner is: Julian Vialrdi, Wetumpka HS

### **Future Scientist Award**

*Sponsored by: AU College of Sciences and Mathematics, Dean's Office*

The award will be given to a student, in any category, who demonstrated a complete, thorough and current understanding of a scientific topic during their interview. As such, this student shows great promise as a future researcher. The winner will receive a plaque and a \$100 cash award.

The winner is: Jaeyoung Lee, Auburn HS

### **Genius Olympiad Award**

*Sponsored by: Genius Suny Oswego*

This award will be given to the top 3 seniors projects that address a global environmental issue. The winner will receive a certificate.

The winner is: Shemaiya Peak, Stanhope Elmore HS

The winner is: Arnav Srivastava, Auburn HS

### **Innovation of Robotic Systems Award**

*Sponsored by: Southeastern Center of Robotics Education*

This award will recognize a project from any category that demonstrates the greatest promise for innovation in the use of robotic systems. The winner will receive a plaque and a \$100 cash award.

The winner is: Benjamin Davis, Auburn HS

### **International Development Science Champion Award**

*Sponsored by: US Agency for International Development (USAID)*

This award will be given to the student(s) whose project is an outstanding demonstration of solving an important global development challenge in areas such as agriculture and food security, democracy and governance, economic growth, education, environment and global change, gender equality, global health, science, technology and innovation, water and sanitation or working in crises and conflict. The winner will receive a certificate and a social media packet.

The winner is: Benjamin Davis, Auburn HS

### **Most Outstanding Exhibit in Materials Science Award**

*Sponsored by: ASM Materials Education Foundation*

This award will be given to the top project with a materials science theme. The winner will receive a certificate and a medallion to follow.

The winner is: Brayden Noh, Auburn HS

### **Mu Alpha Theta Award**

This award is presented for the project that best demonstrated challenging, original, thorough, and creative investigation of a problem using mathematics. The winner will receive a certificate of recognition.

The winner is: Grace He & Angela Fan, Auburn HS

### **NASA Earth System Science Award**

This award will be given to the student whose project offers the greatest insight into earth's interconnected systems. The winner will receive a certificate of achievement.

The winner is: Ethan Blecher, Wetumpka HS

### **Naval Science Award**

*Sponsored by: Office of Naval Research*

This award recognizes three students who demonstrated excellence in science research or engineering design. The winners will receive a certificate of achievement, a medallion, and a \$50 gift card to follow.

The winners are:

1. Brayden Noh, Auburn HS
2. Benjamin Davis, Auburn HS

### **Ricoh Sustainable Development Award**

This award recognizes the project that best reflects the principles of sustainability --balancing economic development with environmental responsibility. The winner will receive a certificate of recognition.

The winner is: Stanton Tarboro & Mollie Erwin, Wetumpka HS

### **Science Technology, Engineering & Math (STEM) Award**

*Sponsored by: The United States Air Force*

This award recognizes three projects from any category that demonstrated outstanding science or engineering. The winners will receive a certificate of achievement and a messenger bag with power bank charger, dog tag USB flashdrive and a dual USB car charger.

The winners are:

1. Jaeyoung Lee, Auburn HS
2. Andre' Bordlee, Wetumpka HS
3. Halle Poole, Eufaula HS

### **Society of Hispanic Professional Engineers Young Innovator Award**

*Sponsored by: Auburn University Chapter of SHPE*

In an effort to encourage a lifelong enthusiasm for the sciences in traditionally underrepresented demographics, this award recognizes research excellence presented by a minority student from any category. The winner will receive a certificate and a \$75 cash award.

The winner is: Keltric Jakes, Central HS

### **Stockholm Junior Water Prize (certificate and chance to enter on-line competition)**

This award is considered the most prestigious award for water related sciences, both nationally and internationally. The prize strives to encourage enthusiasm in today's youth regarding water issues, build an international community of young scientists bonded together for the water environment, raise public awareness about the future of water resources, and develop and ensure future leadership in the water quality community.

The Stockholm Water Foundation recognizes up to three projects that best address water related issues. The winner(s) of this award are invited to enter a statewide on-line competition hosted by the Stockholm Water Foundation.

The winners are:

1. Shemaiya Peak, Stanhope Elmore County HS
2. Ethan Belcher, Wetumpka HS
3. Brantley Laney, Central HS

### **Talent in Mathematics and Statistics Award**

#### **Sponsored by: AU Department of Mathematics and Statistics**

This award will recognize a project, from any category, that demonstrated strong mathematical and statistical analysis. The winner will receive a plaque and a \$100 cash award.

The winner is: Benjamin Davis, Auburn HS

### **Yale Science and Engineering Association Award**

*Sponsored by: Yale Science and Engineering Association*

This award will be given to the most outstanding 11th grade project in the areas of computer science, engineering, physics, or chemistry. In extraordinary cases, it may be awarded to 10th or 12th grade. The winner will receive a certificate and a medallion to follow.

The winner is: Jaeyoung Lee, Auburn HS

**Now we will shift gears and announce the placement winners of each category. A judging panel of over 40 scientists and engineers determined which projects scored highest today in each category. In addition, the judges determined which projects should advance from GEARSEF to the state Science Fair in April by only awarding category medals to those projects meriting advancement to the State Fair. Students receiving a category medal will automatically qualify to advance to the Alabama State Science Fair held March 24-25, 2020 at the University of Alabama Huntsville. In addition, the 1st place winner of each category will receive a \$100 cash prize. Students, if I call your name please come forward to receive your prize.**

## **CATEGORY AWARDS**

Category 100: Animal & Plant Sciences

3<sup>rd</sup> Tori Jones, Wetumpka HS

2<sup>nd</sup> Hart Hughes & Brooks Barbaree, Central HS

1<sup>st</sup> Arnav Srivastave, Auburn HS

Category 200: Behavioral & Social Sciences

3<sup>rd</sup> Rachel Allen, Elmore County HS

2<sup>nd</sup> Brennan Worrell, Wetumpka HS

1<sup>st</sup> Grace He & Angela Fan, Auburn HS

Category 300: Cellular & Molecular Biology, and Microbiology

3<sup>rd</sup> N/A

2<sup>nd</sup> Richelle Sanders & Samaya Persons, Central HS

1<sup>st</sup> Shivani Babu, Auburn HS

Category 400: Chemistry & Biochemistry, and Materials Sciences

3<sup>rd</sup> N/A

2<sup>nd</sup> Asher McMillan & Logan Bracknell, Wetumpka HS

1<sup>st</sup> Juwon Ro, Auburn HS

Category 500: Engineering, Computer Science and Mathematics

3<sup>rd</sup> Keith Chapple, Central HS

3<sup>rd</sup> Ashraf Mansour, Auburn HS

2<sup>nd</sup> Brantley Laney, Central HS

1<sup>st</sup> Benjamin Davis, Auburn HS

Category 600: Energy: Chemical and Physical

3<sup>rd</sup> N/A

2<sup>nd</sup> Julian Vilardi, Wetumpka HS

1<sup>st</sup> Brayden Noh, Auburn HS

Category 700: Earth and Environmental Sciences

3<sup>rd</sup> N/A

2<sup>nd</sup> N/A

1<sup>st</sup> Shemaiya Peak, Stanhope Elmore HS

Category 800: Medicine and Health Sciences

3<sup>rd</sup> Courtney Sides, Elmore County HS

2<sup>nd</sup> Bella Antone & Eden Grace, Dothan HS

1<sup>st</sup> Avery Piles, Wetumpka HS

Category 900: Physics and Astronomy

3<sup>rd</sup> Chloe Naquin, Stanhope Elmore HS

2<sup>nd</sup> Logan Hammock, Wetumpka HS

1<sup>st</sup> Jaeyoung Lee, Auburn HS

**GEARSEF will also advance our top three Best of Fair winners directly to the Regeneron International Science and Engineering Fair 2020. This year's event will be held in Anaheim, CA, May 10-15, 2020. Auburn University will cover all expenses for three students to attend ISEF as representatives of GEARSEF at Auburn University. This year's Best of Fair winners are:**

Benjamin Davis, Auburn HS

Jaeyoung Lee, Auburn HS

Brayden Noh, Auburn HS

**Congratulations to all of our participants and winners today!**

A few notes for winners:

- 1.) Directions and any additional forms, paperwork or instructions are included in your award packet. Please pay close attention to all stated deadlines.
- 2.) Broadcom MASTER winners, please see the letter inside your award packet for registering online. All winners are expected to complete this step!
- 3.) If you are advancing to the state science fair, your paperwork will be submitted electronically to the Alabama Science and Engineering Fair (ASEF) Review Committee by our office for approval. Any corrections/revisions that are needed must be completed by March 20, 2020 in order to compete at ASEF on March 26-27, 2020.