

## **LRSEF - High School - Special Awards**

### **American Chemical Society - SAW002A - Invitation to ACS section Awards & Recognition Reception.**

First Place - Senior Chemistry related project  
Nick Taylor - Saint Xavier High School, Louisville  
Lethal Carbon Monoxide Levels

### **American Chemical Society - SAW002B - Invitation to ACS section Awards & Recognition Reception.**

Second Place - Senior Chemistry related project  
Maggie Sikes, Mattie Heppner - Eastern HS  
Do Plastics Interfear With BioMud?

### **American Chemical Society - SAW002C - Invitation to ACS section Awards & Recognition Reception.**

Third Place - Senior Chemistry related project  
Sasha Sairajeev - Gatton Academy of Science & Mathematics  
Synthesis of platinum anticancer compound oxalato(1,4-dimethylpiperzine)platinum(II)

### **American Society of Civil Engineers - SAW003B - 1 Certificate + \$25**

Awarded to the project best depicting the civil engineering profession  
Lea Mitchell - Gatton Academy of Science & Mathematics  
Longitudinal Study of Water Quality in Jennings Creek, Bowling Green, Kentucky: Urbanization Impacts on Karst Groundwater

### **ASM Materials Education Foundation - NAT003 - Certificate**

Presented By : ASM Materials Education Foundation  
We would like to have the following as criteria for the award: 1. Use of materials-related concepts 2. Demonstration of some aspect of the materials paradigm, i.e., structureprocessing-properties-performance relationships 3. Clarity in presentation 4. Clear understanding of the scientific method 5. Aesthetics - layout of the project, neatness, etc.  
Isabel Gladys - Ballard High School Science & Engineering Fair  
Thermos Evaluation

### **BC Plumbing Company - SAW006A - Senior - \$100 + Certificate (student needs to contact BC Plumbing for check)**

Sasmi Heellage - Ballard High School Science & Engineering Fair  
Smart Irrigation

### **Bluegrass Section - Institute of Food Technologists - SAW005A - Certificate + \$150**

No restrictions on categories. Top Science Fair Projects that is related to Food  
Nicole Drucker - Ballard High School Science & Engineering Fair  
The Effect of Different Flours on a Cake's Density

### **Bluegrass Stars Section, Mercedes-Benz Club of America - SAW021A - Certificate + \$100 + Invitation to Technical Session with the Club**

Automotive Science Award  
Arya Pallavarapu - Ballard High School Science & Engineering Fair  
How wind turbines on an electric powered vehicle can help it be more efficient and environmentally friendly without impacting the aerodynamics of the vehicle excessively

### **Churchill Downs Engineering Award - SAW007A - \$100 to High School**

LRSEF to write check  
Aditi Kona - North Oldham High School

Human Genome Editing

**Delta Kappa Gamma - SAW010A - Certificate + \$25 Senior**

Jennifer brings cash

saeedatu shamsudeen - Central High School  
Benefit of CO2 absorption by Mossballs on Mollusks.

**Delta Kappa Gamma - SAW010B - Certificate + \$25 Senior**

Jennifer brings cash

Isabella Garza - Ballard High School Science & Engineering Fair  
How Does Dance Affect Heart Rate, Blood Pressure, and Oxygen Saturation?

**Delta Kappa Gamma - SAW010C - \$25 + Certificate Senior**

Jennifer brings cash

Lily Schapmire, Kennedy Howard, Kristin Nediano - Eastern HS  
Can plant juice be a substitute for road salt?

**GE APAF- Clear Thinker Award - SAW012B - Certificate + \$100 Senior**

Awarded to project that demonstrates clear understanding of the problem with conclusions drawn from competent research and observations and clearly communicated by presenter. Preferred Categories: Engineering, Computer Science, Physics, and Chemistry

Sasmi Heellage - Ballard High School Science & Engineering Fair  
Smart Irrigation

**Gibson Family Award - SAW011C - \$50 plus certificate to high school**

LRSEF to write check

Mason Steineker - North Oldham High School  
Analyzing Hazardous Air Conditions Through an Embedded System

**Gibson Family Award - SAW011D - \$50 plus certificate for high school**

LRSEF to write check

Soleila Elliott Gonzalez - Ballard High School Science & Engineering Fair  
The Effect of Lying Behavior on Non-Verbal Communication

**Hexion, Inc. - Community Impact award - SAW013B - 1 certificate & \$50**

Awarded across any category, preferred chemistry, etc.

Nick Taylor - Saint Xavier High School, Louisville  
Lethal Carbon Monoxide Levels

**Hexion, Inc. - Creative award - SAW013D - 1 certificate & \$50**

Awarded across any category, preferred chemistry, etc.

Anna Turlington - Central Hardin High School  
The Effects of E-Liquid on the Regeneration of Planarians

**INTEL Excellence in Computer Science - NAT007 - Certificate, \$200 cash prize**

Top 1st place Computer Science Category winner

Ben DeLozier - Ballard High School Science & Engineering Fair  
How do Physics Apply to the Game Design of Fighting Games

**Kentucky Society of Professional Engineers - SAW018 - Certificate + \$50**

Awarded across any category for projects exhibiting excellence in the engineering fields.

Rachel Spaulding - Eastern HS  
Solar Updraft Tower-Wind Turbine Hybrid: Maximizing Power Output through Vortex Shedding , Water Droplet Atomization and Arduino Servo Control Feedback Loop

### **KFC Be Original award - SAW042B - KFC Gift Basket**

Awarded to the most original projects across any category.

Vaitheesh Jaganathan - Ballard High School Science & Engineering Fair

Tender Coconut Water Inhibits the Growth of HepG2 Cancer Cell by Reversing 'Epithelial to Mesenchymal Transition' Process

### **KFC Be Original award - SAW042E - Gift Basket**

Most original project awarded across any category.

Ben DeLozier - Ballard High School Science & Engineering Fair

How do Physics Apply to the Game Design of Fighting Games

### **KFC Be Original award - SAW042I - Gift Basket**

Most original project awarded across any category.

Aditi Kona - North Oldham High School

Human Genome Editing

### **KFC Be Original award - SAW042K - Gift Basket**

Most original project awarded across any category.

Sasmi Heellage - Ballard High School Science & Engineering Fair

Smart Irrigation

### **KY Chapter of Air & Waste Management Association (KY-AWMA) - SAW016B - \$75 + certificate (LRSEF to write check)**

Waste management in any category

Katie Bollinger - Ballard High School Science & Engineering Fair

How Quickly do Personal Care Wipes Break Down Over Time?

### **KY Chapter of Certified Hazardous Materials Managers (KCHMM) - SAW017 - Certificate + \$500 check from KCHMM at meeting \*\*no check from LRSEF\*\***

Awarded only in Enviro. Management or Enviro. Science categories

Zachary Schneider - Saint Xavier High School, Louisville

Pressure Assisted Cryogenic Carbon Dioxide Extraction

### **Louisville Dental Society, UofL School of Dentistry, - SAW001A - Senior Winner \$150 for the student(s)**

Presented By : and Louisville Section of the American Assoc. for Dental Research

Dental Science Award

Madelyn Steineker - North Oldham High School

Fluoride Absorption in the Body

### **Louisville Water Company - SAW020 - \$300 plus a certificate.**

Awarded across any category that exhibits a knowledge of water quality.

Madelyn Steineker - North Oldham High School

Fluoride Absorption in the Body

### **Mu Alpha Theta, The Honorary Mathematics Society - NAT010 - Certificate**

Awarded to individual or group project demonstrating the most challenging, original, thorough, and creative investigation of a problem involving mathematics accessible to a High School student.

Jessica Wood - Valley High School

We Know The Way

### **National Oceanic and Atmospheric Assoc. (NOAA) - NAT012 - Letter, certificate, and NOAA medallion**

Award will go to one individual (middle or high school) selected from among all general award categories whose

research emphasizes NOAA's mission of Science, Service, and Stewardship in climate, weather, ocean and coastal sciences.

Lea Mitchell - Gatton Academy of Science & Mathematics

Longitudinal Study of Water Quality in Jennings Creek, Bowling Green, Kentucky: Urbanization Impacts on Karst Groundwater

### **Office of Naval Research - NAT013B - Senior: Certificates, medallions and \$50 gift cards.**

Naval Science Award given to projects competing as individuals only. Up to 3 senior and 3 junior award winners

Megan Broecker - Ballard High School Science & Engineering Fair

Sun protection against meat cells

Matthew Knerr - Gatton Academy of Science & Mathematics

Artificial Light at Night on Biomarkers in Zebra Finches

Edward Zhong - KY Country Day School

Yeast Boosts the Immune Response to Cancer

### **Regeneron Science Talent Search - NAT008A - Invitation to apply for a free trip to annual Regeneron Science Talent Search**

Top best 11th grade projects

Elisha VanZant, Miriam Richardson - Gatton Academy of Science & Mathematics

The Isolation, Characterization, and Comparison of Novel Microbacteriophages PilotOrr and Triard

### **Regeneron Science Talent Search - NAT008B - Invitation to apply for a free trip to annual Regeneron Science Talent Search**

Top best 11th grade projects

Vaitheesh Jaganathan - Ballard High School Science & Engineering Fair

Tender Coconut Water Inhibits the Growth of HepG2 Cancer Cell by Reversing 'Epithelial to Mesenchymal Transition' Process

### **Regeneron Science Talent Search - NAT008C - Invitation to apply for a free trip to annual Regeneron Science Talent Search**

Top best 11th grade projects

Madelyn Steineker - North Oldham High School

Fluoride Absorption in the Body

### **Regeneron Science Talent Search - NAT008D - Invitation to apply for a free trip to annual Regeneron Science Talent Search**

Top best 11th grade projects

briaunna anglin, taylor keen - Valley High School

which pain reliever dissolves the fastest in the stomach

### **Society for In Vitro Biology - NAT015 - Certificate**

Winner must be in 11th grade with an exhibit in the area of plant or animal in vitro biology or tissue culture.

Vaitheesh Jaganathan - Ballard High School Science & Engineering Fair

Tender Coconut Water Inhibits the Growth of HepG2 Cancer Cell by Reversing 'Epithelial to Mesenchymal Transition' Process

### **Stockholm Junior Water Prize - NAT016A - Regional certificate and nomination for the state SJWP Competition**

Water prize certificates are awarded to the US high school student, age 15-20 and presently in 9-12 grades displaying the best water-related high school science projects.

Lea Mitchell - Gatton Academy of Science & Mathematics

Longitudinal Study of Water Quality in Jennings Creek, Bowling Green, Kentucky: Urbanization Impacts on Karst

**Success Through STEM - SAW023 - \$50 plus attending the Presentation Workshop w/ ISEF Finalist.**

Presented By : Aimee Turner

Awarded to a non-category winner w/ an interest and passion for pursuing growth and advancement of their project.

Joaquin Quilling - Central High School

Investigation on Differences Between Genders Identifying Micro Expressions

**U.S. Air Force - NAT017A - certificate**

Middle or High school project

Rachel Spaulding - Eastern HS

Solar Updraft Tower-Wind Turbine Hybrid: Maximizing Power Output through Vortex Shedding , Water Droplet

Atomization and Arduino Servo Control Feedback Loop

**U.S. Air Force - NAT017B - certificate**

Middle or High school project

Arya Pallavarapu - Ballard High School Science & Engineering Fair

How wind turbines on an electric powered vehicle can help it be more efficient and environmentally friendly

without impacting the aerodynamics of the vehicle excessively

**U.S. Fish and Wildlife - SAW034B - Senior Plaque**

Rachel Spaulding - Eastern HS

Solar Updraft Tower-Wind Turbine Hybrid: Maximizing Power Output through Vortex Shedding , Water Droplet

Atomization and Arduino Servo Control Feedback Loop

**Women Environmental Leaders of Louisville (WELL) - SAW040B - \$TBD + Certificate Senior**

GALS - Girls Achieving Leadership through Science

Lea Mitchell - Gatton Academy of Science & Mathematics

Longitudinal Study of Water Quality in Jennings Creek, Bowling Green, Kentucky: Urbanization Impacts on Karst

Groundwater

**Yale Science & Engineering Association - NAT019 - Certificate - to an 11th grader or 10th if no 11th grade projects**

Awarded to 11th grade winner in the Computer Science, Engineering, Physics or Chemistry Category.

Madelyn Steineker - North Oldham High School

Fluoride Absorption in the Body