

LRSEF - High School - Special Awards

American Association for Dental Research, Louisville Dental Society, and UofL School of Dentistry - SAW001A - Senior Winner \$150 for the student(s) plus \$100 for the science department of their school.

Dental Science Award

Kavisca Kuruparanantha - Ballard High School Science & Engineering Fair
circumvallate taste bud volume does not predict innervation volume defined by phox2b

Madelyn Steineker - North Oldham High School
How much fluoride is absorbed in the mouth from drinking water?

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

First Place - Senior Chemistry related project

Shirlin Kingston - Ballard High School Science & Engineering Fair
Can The Efficiency Of Hydrogen Gas Production By Electrolysis Be Increased?

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

Second Place - Senior Chemistry related project

Mariann Sleimat - Ballard High School Science & Engineering Fair
Do teens that have or had caries take more time for pH to go back to normal than the teens that don't have caries

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

Third Place - Senior Chemistry related project

Madelyn Steineker - North Oldham High School
How much fluoride is absorbed in the mouth from drinking water?

American Meteorological Society - NAT001A - Certificate and name in magazine

Winning projects should be limited to the atmospheric and related oceanic and hydrologic sciences. Summary of winners e-mailed to the AMS sciencefair@ametsoc.org by Aug. 1

Nathan Waring - Ballard High School Science & Engineering Fair
How to charge a phone using a windmill?

American Meteorological Society - NAT001B - Certificate and name in magazine

Winning projects should be limited to the atmospheric and related oceanic and hydrologic sciences. Summary of winners e-mailed to the AMS sciencefair@ametsoc.org by Aug. 1

Carlos Montalvo - Eastern High
Climate Change is associated with carbon dioxide, so where are the highest levels in Louisville?

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

Awarded to the project best depicting the civil engineering profession

Aidan Villegas - Eastern High
The Viability of Alternative Energy in the Indian Ocean

ASU Walton Sustainability Solutions Initiatives - NAT005A - Certificate and nomination to submit for the Grand Prize, a trip to Arizona for the 2018 Sustainability Solutions Festival. Winning entry must be mailed by May 1, 2018 to be considered for the Grand Prize

Winners selected from any category and should convey intent in their research to solve a complex problem that

involves social justice, environmental and economic prosperity.

Rachel Spaulding - Eastern High

Solar Updraft Tower-Wind Turbine Hybrid: Optimizing Power Generation in Multifarious Climatic Conditions Using Computational Fluid Dynamics Analysis

ASU Walton Sustainability Solutions Initiatives - NAT005B - Certificate and nomination to submit for the Grand Prize, a trip to Arizona for the 2018 Sustainability Solutions Festival. Winning entry must be mailed by May 1, 2018 to be considered for the Grand Prize

Winners selected from any category and should convey intent in their research to solve a complex problem that involves social justice, environmental and economic prosperity.

Sasmi Heellage - Ballard High School Science & Engineering Fair

Building a Sensor Based Automated Irrigation System

Azland Risk Management, LLC - SAW004 - Senior only - Certificate

Award can be given across any category.

Katie Bollinger - Ballard High School Science & Engineering Fair

Comparing Biodegradation of Wipes Marketed as "Flushable"

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

Collin Kemper - Saint Xavier High School, Louisville

Essential Features of Hyperloop Systems

Churchill Downs Engineering Award - SAW007A - \$100

1st place - High School

Rachel McIntyre - Ballard High School Science & Engineering Fair

How does music effect a horses' emotions

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

Awarded across any category

Zane Heil - Central High School

Hydroponics VS Hydroculture

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

Awarded across any category

Hannah Martin - Ballard High School Science & Engineering Fair

Does Gender Play A Role In Risk For A Total Joint Replacement?

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

Jacoda Carr - Central Academy School

Are Fingerprint Patterns Inherited?

Delta Kappa Gamma - SAW010D - \$25 + Certificate Senior

Brittany Box - Valley High School

Differences Between C-Sections

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

Joshua Jacob - Saint Xavier High School, Louisville

Development of a Hybrid Direct Write 3D Printer: a Novel One-Step Approach to Fabricating Multi-Layer Functional Devices and Flexible Electronics Through Reactive Inkjet Printing

GE Best of Fair Award - Senior - SAW25 - Certificate and \$420 each

Top 4 Senior Division Project

Joshua Jacob - Saint Xavier High School, Louisville

Development of a Hybrid Direct Write 3D Printer: a Novel One-Step Approach to Fabricating Multi-Layer Functional Devices and Flexible Electronics Through Reactive Inkjet Printing

Collin Kemper - Saint Xavier High School, Louisville

Essential Features of Hyperloop Systems

Rachel Spaulding - Eastern High

Solar Updraft Tower-Wind Turbine Hybrid: Optimizing Power Generation in Multifarious Climatic Conditions Using Computational Fluid Dynamics Analysis

Edward Zhong - Kentucky Country Day

Can Yeast Help Boost the Immune Response to Cancer

Gibson Family Award - SAW011C - \$50 plus certificate

\$50 plus Certificate to high school

Patrick Yopp - Ballard High School Science & Engineering Fair

Smart Pipes

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

\$50 plus certificate for high school

Yafet Zewdie - Eastern High

Can we use Nanotechnology clean oil spills

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

Awarded across any category, preferred chemistry, etc.

Shirlin Kingston - Ballard High School Science & Engineering Fair

Can The Efficiency Of Hydrogen Gas Production By Electrolysis Be Increased?

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

Awarded across any category, preferred chemistry, etc.

Kaden Grant - Ballard High School Science & Engineering Fair

Reducing Pollution from Light Fixtures through Efficiency and Shielding

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

Top 1st place Computer Science Category winner

Vishnupriya Ramasamy - Ballard High School Science & Engineering Fair

Voice Technology For Speech or Hearing Impaired

Jefferson County Conservation District - SAW014C - 3rd place - \$100 award

Environmental Science

Delaney Ballard - Ballard High School Science & Engineering Fair

The Impact of Dog Fecal Coliform on Nearby Waterways

KFC Be Original award - SAW042B - KFC Gift Basket

Awarded to the most original projects across any category.

Khalida Raheem - Central Academy School

The Relationship between People and Laughter

KFC Be Original award - SAW042C - Gift basket

Most original project awarded across any category.

Edward Zhong - Kentucky Country Day

Can Yeast Help Boost the Immune Response to Cancer

KFC Be Original award - SAW042D - Gift Basket

Most original project awarded across any category.

Joshua Jacob - Saint Xavier High School, Louisville

Development of a Hybrid Direct Write 3D Printer: a Novel One-Step Approach to Fabricating Multi-Layer Functional Devices and Flexible Electronics Through Reactive Inkjet Printing

KFC Be Original award - SAW042E - Gift Basket

Most original project awarded across any category.

Raymond Pfeiffer IV - Saint Xavier High School, Louisville

Investigation of the Health Risks for Restaurant Employees

KFC Be Original award - SAW042F - Gift Basket

Most original project awarded across any category.

Patrick Yopp - Ballard High School Science & Engineering Fair

Smart Pipes

KFC Be Original award - SAW042H - Gift Basket

Most original project awarded across any category.

Rachel Spaulding - Eastern High

Solar Updraft Tower-Wind Turbine Hybrid: Optimizing Power Generation in Multifarious Climatic Conditions Using Computational Fluid Dynamics Analysis

KFC Be Original award - SAW042I - Gift Basket

Most original project awarded across any category.

Jada Graham - Ballard High School Science & Engineering Fair

Tic-Tac-Toe Analysis

KFC Be Original award - SAW042J - Gift Basket

Most original project awarded across any category.

Vaitheesh Jaganathan - Ballard High School Science & Engineering Fair

CAN TENDER COCONUT WATER INHIBIT THE GROWTH OF DIFFERENT TYPES OF CANCER CELLS

KY Chapter of Air & Waste Management Association (KY-AWMA) - SAW016A - \$100 plus certificate

Awarded across any category in field of waste management

Yafet Zewdie - Eastern High

Can we use Nanotechnology clean oil spills

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

Kaden Grant - Ballard High School Science & Engineering Fair

Reducing Pollution from Light Fixtures through Efficiency and Shielding

Louisville Water Company - SAW020 - \$200 plus a certificate.

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

Madelyn Steineker - North Oldham High School

How much fluoride is absorbed in the mouth from drinking water?

NASA Earth Systems Science Award - NAT011 - Certificate

Jayanshi Pathak - Ballard High School Science & Engineering Fair

Microbial Fuel Cells

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.

Carlos Montalvo - Eastern High

Climate Change is associated with carbon dioxide, so where are the highest levels in Louisville?

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

Joshua Jacob - Saint Xavier High School, Louisville

Development of a Hybrid Direct Write 3D Printer: a Novel One-Step Approach to Fabricating Multi-Layer Functional Devices and Flexible Electronics Through Reactive Inkjet Printing

Shirlin Kingston - Ballard High School Science & Engineering Fair

Can The Efficiency Of Hydrogen Gas Production By Electrolysis Be Increased?

Edward Zhong - Kentucky Country Day

Can Yeast Help Boost the Immune Response to Cancer

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.

Shivani Nellore - North Oldham High School

Some Cancer-Associated K-Ras Mutants can have Gain of Function Even When Bound to GDP

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.

Madelyn Steineker - North Oldham High School

How much fluoride is absorbed in the mouth from drinking water?

Stockholm Junior Water Prize - NAT016B - 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.

Delaney Ballard - Ballard High School Science & Engineering Fair

The Impact of Dog Fecal Coliform on Nearby Waterways

Stockholm Junior Water Prize - NAT016C - 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.

Hadley Jostsons - Ballard High School Science & Engineering Fair

The effect of water filtration systems on levels of Copper and Manganese in water.

U.S. Air Force - NAT017A - certificate

Middle or High school project

Jack Federico - Saint Xavier High School, Louisville

Mitigation of Wingtip Vortices with Scimitar-like Device Could Increase Airport Efficiency

U.S. Air Force - NAT017D - certificate

Middle or High school project

Rachel Spaulding - Eastern High

Solar Updraft Tower-Wind Turbine Hybrid: Optimizing Power Generation in Multifarious Climatic Conditions Using Computational Fluid Dynamics Analysis

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

GALS - Girls Achieving Leadership through Science

Delaney Ballard - Ballard High School Science & Engineering Fair

The Impact of Dog Fecal Coliform on Nearby Waterways