

**Amazon Innovation Award-\$100**

Presented By: Amazon Fund of the KY Science and Engineering Fair

**Joelle Spalding Sherley and Brysen Stoner - Brown School Science Fair**  
Gender behavior

**Kevin Stone - Carrithers Middle School**  
Reaction Time

**American Chemical Society –ACS—Louisville Chapter**

**Liam Amick - Saint Francis of Assisi, Louisville**  
Wastewater Remediation Using Chitin Coagulation

**ELI Oetken - Saint Francis of Assisi, Louisville**  
making foam glass from natural resources

**Margaret Beatty - Saint Francis of Assisi, Louisville**  
Kentucky Native Plants: Agents Against Metastasis

**Ellery Reynolds - Saint Francis of Assisi, Louisville**  
Does inhaling air fresheners affect DNA integrity

**American Psychological Association - Certificate**

Special award recognizing outstanding research in psychological science

**Lucy Doyle - Saint Francis of Assisi, Louisville**  
The Link Between Bullying, Anxiety, and Childhood Trauma

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

Awarded to the project best depicting the civil engineering profession

**Cole Sanderfer - Saint Francis of Assisi, Louisville**  
Anti-Slide: A Device to Detect Black Ice

**ASM Materials Education Foundation - Certificate**

Presented By: ASM Materials Education Foundation

**Sophie Fabing - Saint Francis of Assisi, Louisville**  
Better Bags: Creating New Hydrophobic Coatings for Paper Bags

**Bluegrass Section - Institute of Food Technologists- Certificate and \$100 Cash Award**

**Mary Ballantine - Saint Francis of Assisi, Louisville**  
Hemp Extract: Miracle Cure or Microbiome Disruptor?

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

**Drew Ashley - Saint Francis of Assisi, Louisville**  
Exploring Vehicle In-Cabin Air Pollution

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Certificate + \$100 + Invitation to Technical Session with the Club**

**Drew Ashley - Saint Francis of Assisi, Louisville**  
Exploring Vehicle In-Cabin Air Pollution

**Jacob Quinn - Saint Francis of Assisi, Louisville**  
Exploring the Energy Content of Biofuel Raw Materials

**Broadcom Masters:** Top 10% of junior division projects, nominees are invited to apply for entry into national competition to win a trip to Washington DC and up to \$25,000.

**\*Note USKY02 is the LRSEF fair ID for Broadcom**

**Liam Amick - Saint Francis of Assisi, Louisville**  
Wastewater Remediation Using Chitin Coagulation

**Pete Ansert - Saint Francis of Assisi, Louisville**  
ERES: Elderly Emergency Response System

**Drew Ashley - Saint Francis of Assisi, Louisville**  
Exploring Vehicle In-Cabin Air Pollution

**Vedha Balamurugan - North Oldham Middle School**  
Anti-diabetic effect of bitter tasty plant products on type 2 diabetic children:  
Importance of human neglected bitter taste

**Mary Ballantine - Saint Francis of Assisi, Louisville**  
Hemp Extract: Miracle Cure or Microbiome Disruptor?

**Margaret Beatty - Saint Francis of Assisi, Louisville**  
Kentucky Native Plants: Agents Against Metastasis

**Kevin Brothers - Saint Francis of Assisi, Louisville**  
Level Five Autonomous Vehicle Ethics: A Proof of Concept

**George Bryant - Saint Francis of Assisi, Louisville**  
Engineering a Novel Alert System for Wound Monitoring

**Broadcom Masters, continued.**

**Mattie Diehl - Saint Francis of Assisi, Louisville**

**Ailanthus Altissima: Exploring Noise Pollution's Impact on Allelopathic Toxicity**

**Josie Dunn - Saint Francis of Assisi, Louisville**

**Can Asian Carp Fish Scales Remove Waste Dyes?**

**Sophie Fabing - Saint Francis of Assisi, Louisville**

**Better Bags: Creating New Hydrophobic Coatings for Paper Bags**

**Teklu Hemme - Saint Francis of Assisi, Louisville**

**In Thin Air; Acoustic Levitation of Liquids**

**Fahmeeda Mohammad - Nur Islamic School of Louisville**

**Voice Recognition Modules**

**Jack Mulvihill - Saint Francis of Assisi, Louisville**

**Fractal Dimension and Flooding in US Rivers**

**Annemarie Murr - Saint Francis of Assisi, Louisville**

**Delicious but Immoral? Food Trace Influences Taste**

**Chloe Nunn - Saint Francis of Assisi, Louisville**

**Screen Light Poison: Does Digital Screen Blue Light Impact Health?**

**Shazia Shaik, and Amina Albarqawi - Nur Islamic School of Louisville**

**Living Plant Battery**

**Emerson Wyatt - Saint Francis of Assisi, Louisville**

**Hyssop: a Kentucky Native Cancer Treatment**

**Churchill Downs Engineering Award –**

**Emary Thomas - Saint Francis of Assisi, Louisville**

**Equine Number Recognition**

**Josie Carmack - Saint Francis of Assisi, Louisville**

**Exploring Horse Recognition of Human Vocal Emotion**

## **LRSEF - Special Awards: Junior/Middle School – March 7, 2020 page 4**

### **Delta Kappa Gamma Certificate + \$30 Junior**

Creative thinking to solve common problems or a twist on a traditional project.

**Fahmeeda Mohammad - Nur Islamic School of Louisville**

Voice Recognition Modules

**Louie Murr - Saint Francis of Assisi, Louisville**

Scald Alert: A Device to Prevent Burns

### **DoD STEM Leadership Prize-**

**\$100 award and certificate to the middle school student or team that demonstrates excellence in STEM.**

Society for Science & the Public is proud to be a member of the Defense Science, Technology, Engineering and Mathematics (STEM) Education Consortium (DSEC) in an effort to develop student interest in STEM and increase opportunities for engagement in STEM activities. Sponsored by the Department of Defense (DoD), the \$100 "DoD STEM Leadership Prize" will only be given

to 30 Broadcom MASTERS - affiliated middle school science fairs **that serve military impacted areas in 2020.**

**Emerson Wyatt - Saint Francis of Assisi, Louisville**

Hyssop: a Kentucky Native Cancer Treatment

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

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

**Shazia Shaik and Amina Albarqawi - Nur Islamic School of Louisville**

Living Plant Battery

### **GE Best of Fair Award – Junior Trophy and \$240 each**

**Vedha Balamurugan - North Oldham Middle School** Anti-diabetic effect of bitter tasty plant products on type 2 diabetic children: Importance of human neglected bitter taste

**Chloe Nunn - Saint Francis of Assisi, Louisville**

Screen Light Poison: Does Digital Screen Blue Light Impact Health?

**Emerson Wyatt - Saint Francis of Assisi, Louisville**

Hyssop: a Kentucky Native Cancer Treatment

**Gibson Family Award - certificate, book for the student and teacher**

Students should have a passion for sustainability, want to make it a more just and equitable place for all.

Lorelai Underwood - Montessori School of Louisville  
Fertilizer impacts on the Environment

**Jefferson County Conservation District-1st place (\$200)**

Environmental Science awards

Amy Hunley - Homeschool  
Eco-Deadly!

**Jefferson County Conservation District-2nd place (\$150)**

Jack English - Saint Francis of Assisi, Louisville  
Urbanized Areas: Do They Cause More Stress in Deer?

**Jefferson County Conservation District-3rd place (\$100)**

Canyon Beggarly - Montessori School of Louisville  
What Is the Effect of Drug Infested Waters on Plants?

**Kentuckiana Friends of V-\$200 - Junior only**

Kentuckiana Friends of V is an extension of the V-

Foundation (Victory Over Cancer) supporting local cancer research initiatives within KY as well as Indiana and Ohio. We have centered our support around preemptive activities such as prostate and lung cancer screenings, encouraging awareness and early detection. These initiatives are supported through donations to both the UofL James Graham Brown Cancer Center and the UK Markey Cancer Center and to date, we have raised over \$125,000.

Our award, one prize of \$200, seeks to identify young scientists who have engaged in any work which might help the cancer research community to raise awareness, teach about, prevent, or find a cure for cancer.

**Emerson Wyatt - Saint Francis of Assisi, Louisville**  
Hysop: a Kentucky Native Cancer Treatment

**Kentucky Gas Association-Certificate + \$50 any grade**

Awarded across any category for projects related to the natural gas industry including safety, corrosion, etc.

**Patrick Snider - Carrithers Middle School**  
Electrolyte Energy

**Carson Wilder - Carrithers Middle School**  
Which household items clean pennies the best?

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

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

**Alice Vella - Saint Francis of Assisi, Louisville**  
Soil Type and Impact on Slope Stability

**KPFF Engineering Achievement Award**

**50 plus certificate plus \$50 restaurant gift card to parent or guardian for their support.**

Middle school project showcasing achievement in engineering.

**Silas Noonan - Saint Francis of Assisi, Louisville**  
Lunargrout: Exploring Lunar Building Materials

**LRSEF - Special Awards: Junior/Middle School – March 7, 2020 page 6**

**KY Chapter of Air & Waste Management Association (KY-AWMA) \$75 + certificate**

Junior - Awarded across any category focusing on conservation and/or responsible waste management

**Annabel Bryant - Saint Francis of Assisi, Louisville**

**Exploring the Potential Antimicrobial Abilities of Maclura Pomifera**

**Lemelson Early Inventor Prize - \$100 award and a certificate to young inventor (or team)**

Presented By: The Lemelson Foundation

The award winner will: 1. Demonstrate problem-

solving by identifying a critical problem. 2. Apply empathy and STEM knowledge to find a practical solution.

3. Display entrepreneurial thinking by developing a tangible method, process or device. 4. Develop an invention to solve a critical societal problem and improve the lives of others. 5. Ideally, exemplify environmentally responsible thinking in their research and creation of the product.

**Vedha Balamurugan - North Oldham Middle School**

**Anti-diabetic effect of bitter tasty plant products on type 2 diabetic children:**

**Importance of human neglected bitter taste**

**Louisville Dental Society, UofL School of Dentistry: Junior Winner \$150 for the student(s)**

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

Dental Science Award

**Weston Corak - Saint Francis of Assisi, Louisville**

**Amylase is Affected By Oral Care Products**

**Maryam's Charity- \$100 - Community Service and Social Benefit Award**

Maryam's Charity, Inc. The mission of Maryam's Charity Inc. is to encourage and support by providing funds elementary, middle school, and high school grade students to explore STEM or educational projects with the intention in a way that showcases their creativity so that their gifts and invention can make the world a better place.

**Charlotte Connally - Saint Francis of Assisi, Louisville**

**Exploring Magnetic Fields as a Potential Cancer Treatment**

**Matthew McGuire - Saint Francis of Assisi, Louisville**

**Beetle remediation of plastics**

**Chloe Nunn - Saint Francis of Assisi, Louisville**

**Screen Light Poison: Does Digital Screen Blue Light Impact Health?**

**Shazia Shaik and Amina Albarqawi - Nur Islamic School of Louisville**

**Living Plant Battery**

## **LRSEF - Special Awards: Junior/Middle School – March 7, 2020 page 7**

### **Maryam's Charity - \$100 Global Perfection Award**

Maryam's Charity, Inc. The mission of Maryam's Charity Inc. is to encourage and support by providing funds elementary, middle school, and high school grade students to explore STEM or educational projects with the intention in a way that showcases their creativity so that their gifts and invention can make the world a better place.

**Jason Millard - Saint Francis of Assisi, Louisville**

**Bully Buster: An App to Protect Kids from Online Bullying**

### **NASA Earth Systems Science Award-Certificate**

**Nathaniel Shields - Saint Francis of Assisi, Louisville**

**Exploring Hurricane Damage on Structures with Construction**

### **National Oceanic and Atmospheric Assoc.**

#### **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, Stewardship in climate, weather, ocean, coastal sciences.

**Molly Baldwin - Saint Francis of Assisi, Louisville**

**Hanging by a Thread, Microfibers Effect Polar and Glacier Ice**

### **Office of Naval Research - Junior: Certificate and medallion**

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

**Liv Ashley - Saint Francis of Assisi, Louisville**

**Exploring Toxicity of Vitamin E Acetate in E-Cigarettes**

**Mary Ballantine - Saint Francis of Assisi, Louisville**

**Hemp Extract: Miracle Cure or Microbiome Disruptor?**

**Claire Midland - Saint Francis of Assisi, Louisville**

**Nattokinase and Serrapeptase: Discovering an OTC Cure for Alzheimer's Disease**

**Isaac Stroud - Saint Francis of Assisi, Louisville**

**Creating Fire Retardant Hydrogels**

### **Society for Neuroscience –Louisville Chapter**

**Claire Midland - Saint Francis of Assisi, Louisville**

**Nattokinase and Serrapeptase: Discovering an OTC Cure for Alzheimer's Disease**

### **Success Through STEM**

Presented By: Aimee Turner

\$50 plus attending presentation workshop

**Jason Millard - Saint Francis of Assisi, Louisville**

**Bully Buster: An App to Protect Kids from Online Bullying**

**U.S. Air Force-Certificate**

Middle or High school project

**Oliver Carmack - Saint Francis of Assisi, Louisville**  
**Improving Rigidity in Bioplastics**

**Chloe Nunn - Saint Francis of Assisi, Louisville**

**Screen Light Poison: Does Digital Screen Blue Light Impact Health?**

**Women Environmental Leaders of Louisville (WELL) \$\$ + Certificate Junior**

GALS - Girls Achieving Leadership through Science

**Amy Hunley - Homeschool**  
**Eco-Deadly!**

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