

LRSEF 2021 - Virtual Fair - Special Awards Script - Middle School

"Do Science" Award-SAW025-Family membership to the KY Science Center.

Danya Aljabbari - Saint Francis of Assisi, Louisville
Exploring Fruit and Vegetable Batteries

Amazon Innovation Award-SAW30A-\$100

Ellery Reynolds - Saint Francis of Assisi, Louisville
Exploring and Remediating Vinyl Flooring Genotoxicity with Kentucky Plant Extracts

Amazon Innovation Award-SAW30B-\$100

Ifrah Shaik - Nur Islamic School of Louisville
Microbial Fuel Cell

American Chemical Society-SAW002E-Certificate and invite to banquet

First place - Junior Chemistry project

Liam Amick - Saint Francis of Assisi, Louisville
Exploring the Creation of Sodium Lauryl Sulfate Remediation Products

American Chemical Society-SAW002F-Certificate and invitation to the banquet

Second Place - Junior Chemistry related project

Aicha Faiz - Nur Islamic School of Louisville
Adsorption; Dyeing Fabrics with Kool-Aid

American Chemical Society-SAW002G-Certificate and invitation to banquet

First Place - Junior Biochemistry related project

Agnes Loeser - Saint Francis of Assisi, Louisville
Discovering the Effects of Ragweed on Amylase

American Chemical Society-SAW002H-Certificate only and invitation to banquet.

Second Place - Junior Biochemistry related project

Ellery Reynolds - Saint Francis of Assisi, Louisville
Exploring and Remediating Vinyl Flooring Genotoxicity with Kentucky Plant Extracts

American Society of Civil Engineers-SAW003A-1 Certificate + \$25

Awarded to the project best depicting the civil engineering profession

Nate Shields - Saint Francis of Assisi, Louisville
Exploring Seawall Designs and Wave Reflection

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

Awarded to the project best depicting the civil engineering profession

Mason Nunn - Saint Francis of Assisi, Louisville
Earthquakes; Exploring the Effects of Liquid Density on Liquefaction.

Association for Women Geoscientists-NAT004-Certificate

Award to female student whose project exemplify high standards of innovativeness and scientific excellence in the geosciences.

Mary Ballantine - Saint Francis of Assisi, Louisville
Ohio River Water: Creating a Selective Environment for Pathogenic Bacteria

BC Plumbing Company-SAW006B-Middle - \$100

Liam Amick - Saint Francis of Assisi, Louisville
Exploring the Creation of Sodium Lauryl Sulfate Remediation Products

Broadcom Masters-NAT006-

Broadcom Masters Nominee with opportunity to apply for entry into national competition to win a trip and up to \$25,000

Drew Ashley - Saint Francis of Assisi, Louisville
Airflow Modeling: The Removal of COVID-19 in Classrooms

Mary Ballantine - Saint Francis of Assisi, Louisville
Ohio River Water: Creating a Selective Environment for Pathogenic Bacteria

Annika Chadha - Noe Middle
Hydrogen production through electrolysis of water using alkaline battery, photovoltaic solar panel, and organic anthocyanin solar battery

Charlotte Connally - Saint Francis of Assisi, Louisville
Kentucky Native Plant Mugwort Extract and Magnets: Adjunct Cancer Therapy

Vivien Englund - J Graham Brown Middle School
Effect of Blueberries on Children's Short- Term Memory

Sophie Fabing - Saint Francis of Assisi, Louisville
Creating a Photothermal Coating using Carbonized Biomaterials

Aicha Faiz - Nur Islamic School of Louisville
Adsorption; Dyeing Fabrics with Kool-Aid

Sophie Garrett - J Graham Brown Middle School
Taste, Smells, & Temperature: Do They Matter To Dogs?

Veeksha Katta - North Oldham Middle School
Application of Invertase Catalyzation for Diabetic Prevention

Eric Kim - J Graham Brown Middle School
Robotic Basketball Shooter

Nora McDonald - Grace M. James Academy
Does the price of sunglasses affect the amount of UV protection it has?

Fahmeeda Mohammad - Nur Islamic School of Louisville
RFID Readers - Protect Your ID Card from Theft

Louie Murr - Saint Francis of Assisi, Louisville
Using AI to Improve Students Attentiveness In Online Learning

Lucy O'Brien - J Graham Brown Middle School
Effects of Music on Heart Rate

Neil Patil - Louisville Classical Academy
The Mouthwash Wars: Which Mouthwash is the Most Effective Disinfectant for Toothbrushes?

Jarren Patton - Du Bois Academy
Antibacterial Weaponry

Laura Petruska - Saint Francis of Assisi, Louisville
Comparing Different Hydrogels to Make Axonal Conduits

Shazia Shaik - Nur Islamic School of Louisville
Driver Drowsiness Detection

Emerson Wyatt - Saint Francis of Assisi, Louisville
The Potential Synergistic Effects of Rose and Umbido on a Representation of Cancer

Churchill Downs Engineering Award-SAW007B-\$75

Josephine Carmack - Saint Francis of Assisi, Louisville
Exploring Horse Recognition and Memory of Human Facial Expressions

**DoD STEM Leadership Prize-SAW050-
\$100 award and certificate to the middle school student or team that demonstrates excellence in STEM.**

Fahmeeda Mohammad - Nur Islamic School of Louisville
RFID Readers - Protect Your ID Card from Theft

GE APAF - Clear Thinker Award-SAW012A-Certificate + \$100 Junior

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

Kevin Brothers - Saint Francis of Assisi, Louisville
Found: Reuniting Families Using Facial Recognition

Gibson Family Award-SAW011A-\$75 from LRSEF, 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. Their project should have a global approach, believing that their project could help solve a global issue such as access to nutritious food, clean water, and education. The goal is for a student to view their project as a possible solution to the critical global challenges addressed by the United Nations through the 17 Sustainable Development Goals.

Kevin Brothers - Saint Francis of Assisi, Louisville
Found: Reuniting Families Using Facial Recognition

Hexion, Inc. - Community Impact award-SAW013A-1 certificate & \$50

Awarded across any category, preferred chemistry, etc.

Shazia Shaik - Nur Islamic School of Louisville
Driver Drowsiness Detection

Hexion, Inc. - Creative award-SAW013C-1 certificate & \$50

Awarded across any category, preferred chemistry, etc.

Ola Almaliki - Grace M. James Academy
Neutrogena

Jefferson County Conservation District-SAW014A-1st place (\$200)

Mary Ballantine - Saint Francis of Assisi, Louisville
Ohio River Water: Creating a Selective Environment for Pathogenic Bacteria

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

Meredith Elder - Saint Francis of Assisi, Louisville
Does Building Shape Affect Heat Absorbance and Wind Resistance?

Kentucky Gas Association-SAW015A-Certificate + \$50

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

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

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

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

Leo Reinhart - Saint Francis of Assisi, Louisville
Using Piezoelectric Devices to Harness Pipe Outflow Energy

KY Chapter of Air & Waste Management Association (KY-AWMA)-SAW016B-\$75

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

Frances Fendig - Saint Francis of Assisi, Louisville
Ethanol production from wasted way

**Lemelson Early Inventor Prize-SAW40-
\$100 award and a certificate to young inventor (or team)**

Presented By: The Lemelson Foundation

Charlotte Connally - Saint Francis of Assisi, Louisville
Kentucky Native Plant Mugwort Extract and Magnets: Adjunct Cancer Therapy

**Louisville Chapter of the Society for Neuroscience-SAW019-Prize of \$150.
Also invite the winner to present the poster at our annual Neuroscience Day at the UofL.**

Vivien Englund - J Graham Brown Middle School
Effect of Blueberries on Children's Short- Term Memory

Louisville Water Company-SAW020-\$300

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

Mary Ballantine - Saint Francis of Assisi, Louisville
Ohio River Water: Creating a Selective Environment for Pathogenic Bacteria

Maryam's Charity-SAW035A-\$25

Community Service and Social Benefit Award Maryam's Charity, Inc.

Grady Amick - Saint Francis of Assisi, Louisville
Safe Sleep: A device to detect and prevent SIDS by suffocation

Sophie Fabing - Saint Francis of Assisi, Louisville
Creating a Photothermal Coating using Carbonized Biomaterials

Charles Hummel - Saint Francis of Assisi, Louisville
The Effect of Air Fresheners on the Lung Microbiome

Liam Kirby - Saint Francis of Assisi, Louisville
Detecting Cracks in Heat Exchangers

Leah Niemann - Saint Francis of Assisi, Louisville
Exploring Neurotoxin Shed and Neuroprotective Treatment

Matilda Reinhart - Saint Francis of Assisi, Louisville
Does Acorn Extract Act as An Antimicrobial?

Leo Reinhart - Saint Francis of Assisi, Louisville
Using Piezoelectric Devices to Harness Pipe Outflow Energy

Maryam's Charity-SAW035B-\$25

Green or Environmentally Friendly Award Maryam's Charity, Inc.

Iris Apple - Saint Francis of Assisi, Louisville
Exploring Auditory, Learning, and Memory in Plants

Julia Keeney - Saint Francis of Assisi, Louisville
Exploring Carbon Scrubbing with Different Materials

Seth Niemann - Saint Francis of Assisi, Louisville
Milkweed: A New Material for Cleaning Up Oil Spills

Hayden Ramsey - Saint Francis of Assisi, Louisville
Carpet Stain Protector; Source of Stem Cell Dysfunction in Children?

Emary Thomas - Saint Francis of Assisi, Louisville
Exploring Noise Pollution, Weight Gain, and Predator Avoidance in Mystery Snails

Maryam's Charity-SAW035C-\$25

Global Perfection Award Maryam's Charity, Inc.

Caroline Cotton - Saint Francis of Assisi, Louisville
Exploring combination therapy for a possible cancer treatment

Joe Jaso - Saint Francis of Assisi, Louisville
Exploring the Velocity of Downslope Fires

Fahmeeda Mohammad - Nur Islamic School of Louisville
RFID Readers - Protect Your ID Card from Theft

Shazia Shaik - Nur Islamic School of Louisville
Driver Drowsiness Detection

Maryam's Charity-SAW035D-\$25

Health & Safety Award - Award is for projects that explore STEM and showcase creativity/talent and invention to make the world a better place through the advancement of health & safety.

Drew Ashley - Saint Francis of Assisi, Louisville
Airflow Modeling: The Removal of COVID-19 in Classrooms

Molly Baldwin - Saint Francis of Assisi, Louisville
Microfibers Effect on Evaporation

Jacob Holtgrave - Saint Francis of Assisi, Louisville
EXPLORING LATERALITY OF CANCER ON DIFFERENT PARTS OF THE FACE WHILE DRIVING

Rhyse Johnston - Saint Francis of Assisi, Louisville
Radon Mitigation; Remediating a Potential Health Threat

Liam Kirby - Saint Francis of Assisi, Louisville
Detecting Cracks in Heat Exchangers

Jason Millard - Saint Francis of Assisi, Louisville
Exploring Differences in Gene Expression of Lung Cancer

Chloe Nunn - Saint Francis of Assisi, Louisville
Toxic Screen Blue Light: Is Melatonin Depression to Blame?

Ellery Reynolds - Saint Francis of Assisi, Louisville
Exploring and Remediating Vinyl Flooring Genotoxicity with Kentucky Plant Extracts

NASA Earth Systems Science Award-NAT011-Certificate

Ifrah Shaik - Nur Islamic School of Louisville
Microbial Fuel Cell

Alice Vella - Saint Francis of Assisi, Louisville
Microfibers and Their Impact on Soil Dynamics

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.

Nate Shields - Saint Francis of Assisi, Louisville
Exploring Seawall Designs and Wave Reflection

Office of Naval Research-NAT013A-Junior: Certificate and medallion

Meredith Elder - Saint Francis of Assisi, Louisville
Does Building Shape Affect Heat Absorbance and Wind Resistance?

Claire Midland - Saint Francis of Assisi, Louisville
Can Common Supplements Inhibit Nattokinase?

Emerson Wyatt - Saint Francis of Assisi, Louisville
The Potential Synergistic Effects of Rose and Umibudo on a Representation of Cancer

Olive Zitzer - Saint Francis of Assisi, Louisville
The Effect of Sucralose on Minnows

Ricoh USA, Inc.-NAT014-Certificate

Awarded to project that have principles & technical innovations that offer the greatest potential for increasing our ability to grow environmentally friendly & socially responsible businesses.

Project must also protect the environment & conserve resources, pollution prevention, and use all resources in a more sustainable business matter.

Thomas Galla - Saint Francis of Assisi, Louisville
Improving Dye-sensitized solar cells with UV Paint

Finn Oetken - Saint Francis of Assisi, Louisville
Exploring Ultrasound on the Production of Ethanol from Cellulose

U.S. Agency for International Development (USAID)-NAT020-Certificate and Social Media Toolkit

include: increasing access to sustainable safe drinking water and sanitation services and promoting hygiene; protecting freshwater resources; promoting cooperation on shared waters; and strengthening water governance and financing. WORKING IN CRISES AND CONFLICT With a focus on disaster prevention, response, recovery and transition, USAID provides life-

saving humanitarian assistance to save lives and alleviate suffering; provide emergency food assistance while also sowing the seeds for recovery and resilience; and promote peaceful political transitions by strengthening civil society and respect for human rights, facilitating reconciliation, supporting effective democratic governance and fostering the resumption of basic economic activity.

Kevin Brothers - Saint Francis of Assisi, Louisville
Found: Reuniting Families Using Facial Recognition

Mason Nunn - Saint Francis of Assisi, Louisville
Earthquakes; Exploring the Effects of Liquid Density on Liquefaction.