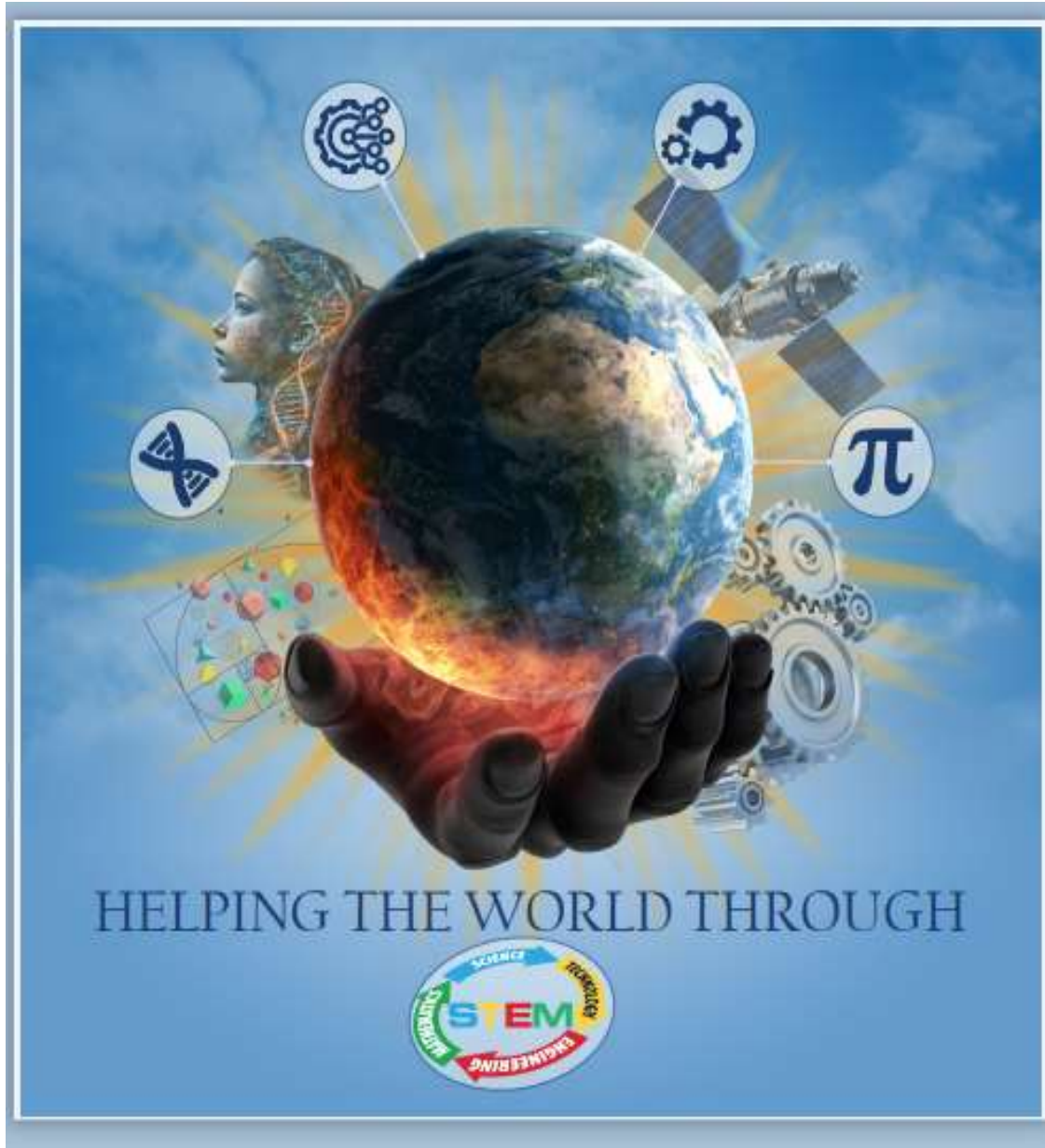


2024 PROGRAM BOOK

**74th ANNUAL CPS Exhibition of Student Research
CHICAGO PUBLIC SCHOOLS STUDENT SCIENCE FAIR, INC**

Helping the World Through STEM



**2024 EXHIBITION OF STUDENT STEM RESEARCH
Illinois Tech, Wednesday, March 13- Friday, March 15, 2024
Awards Presentations, Saturday, March 16, 2024**



City of Chicago
Mayor Brandon Johnson

Chicago Board of Education

Jianan Shi- President
Elizabeth Todd-Breland- Vice President

Members

Mariela Estrada | Mary Fahey Hughes | Rudy Lozano, Jr | Michelle Morales | Tanya D. Woods

Chicago Public Schools

Pedro Martinez
Chief Executive Officer

Nicole Milberg
Chief Officer
Office of Teaching and Learning

Kelli Easterly
Director of the Department of STEM
Office of Teaching and Learning



Chicago Public School Student Science Fair, Inc

Board of Directors 2023-2024

In memory of Luba Johnson

Paul Valaitis, President

Ethelene Hare, Retired CPS Educator

Elizabeth S. Copper, Executive Director

Charles W. Graham

Carrie Kaestner, Chairperson

Glennie King, Ed. D

Melvin Munsaka, Ph.D., Secretary

Ruby Sheree Parnell-Booth

Jacqueline Di Lorenzo, Treasurer

Kenneth Zdunek, Ph. D

Roy Coleman, Retired CPS Educator



Table of Contents

Schedule of Events.....	4
2022-23 City Symposium and Project Presentations.....	5
About the Chicago Public Schools Student Science Fair (CPSSSF)	6
Contributors.....	7-8
Symposium, Essay Contest, and Brief Schedule.....	9-11
Exhibits by Category.....	12-16
Sixth-Grade Regional Winners.....	17-18
Awards Ceremony....	19
2023 Scholarship Winner.....	20
Peoples Gas Middle School STEM Clubs.....	21
Thank you!!!.....	22



Schedule of Events

Thursday, March 14, 2024- Symposium

8:30 A.M. – 11:30 A.M	Symposium Morning Sessions (Rooms: HH 002, HH 003, & HH 010)
11:30 A.M.- 12:45 P.M	Symposium Luncheon (Hermann Hall Expo) by invitation only Guest speaker- Kimberly Moore, founder of KDM Engineering and Calculated Genius
1:00 p.m.- 3:30 p.m.	Symposium Afternoon Sessions (Rooms: HH 002, HH 003, & HH 010)

Thursday, March 14, 2024- Project Setup

8:00 A.M. – 12:00 P.M	Middle School Setup (Hermann Hall Ballroom)
12:00 P.M. - 4:00 P.M	High School Setup (Hermann Hall Ballroom)

Friday, March 15, 2024- Exhibit Judging

7:15 A.M.- 8:00 A.M.	Judges Breakfast (Alumni Hall)
8:00 A.M.- 8:30 A.M	Judges Briefing (Hermann Hall Auditorium)
8:30 A.M – 12:00 P.M	Judging of Exhibits (Hermann Hall Ballroom/Gallery) <ul style="list-style-type: none"> Academic, Special awards, ISEF
12:00 P.M. – 1:00 P.M	All students' lunches in Hermann Hall Expo Judges lunch Hermann Hall Expo/Alumni Room ISEF judges' lunch in Hermann Hall Lounge Special Awards judge's lunch in Hermann Hall Lounge
1:00 P.M – 3:00 P.M	Judging of Exhibits cont.(Hermann Hall Ballroom)
2:00 P.M.- 3:00 P.M	Open to the Public
3:30 P.M. – 4:00 P.M	PROJECTS ARE TAKEN DOWN

Saturday, March 16, 2024 Awards Ceremony

1:00 P.M. – 3.00 P.M.	Awards Ceremony (Hermann Hall- Auditorium) by ticket only
-----------------------	---



2022-23 CPS Exhibition of Student STEM Research

Symposium

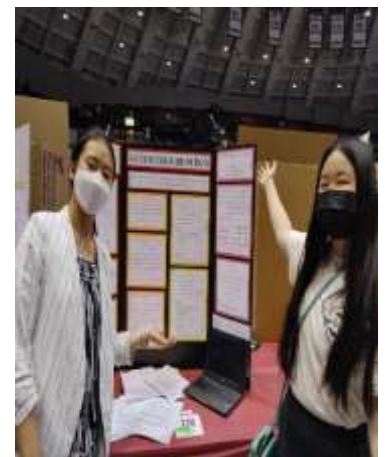


DoSTEM

Museum of Science & Industry 2023



IJAS State Southern Illinois University





About the Chicago Public Schools Exhibition of Student STEM Research

About the Exhibition

We are proud to present the 74th Annual Chicago Public Schools (CPS) Exhibition of Student STEM Research. The exhibition originated in 1950 as a vehicle to encourage and motivate young high school science students. Since then, a volunteer army of teachers and administrators has sustained this exemplary program. The objectives of the CPS Student STEM Exhibition are to:

- provide opportunities and support for students to conduct authentic research.
- expose students to diverse STEM learning communities.
- obtain scholarships for selected Chicago Public Schools graduating seniors.
- maintain perpetual interest in fostering scientific and design research, invention, and technological development.
- promote scientific/design interests and hobbies of students.
- conduct an annual student STEM exhibition, symposium and essay contest.

School, Regional and City Student STEM Exhibitions

Prior to the 2020-2021 Pandemic, more than 8,000 students enter projects, beginning at the local school level. Local school winners exhibit at the regional level. This 2023-2024 school year, there were over 325 students from 60 schools who competed in their local science fair. The 4th Annual Virtual Regional Science Fair. 280 winners from Regional STEM Exhibition of Student Research were held February 2024. There are 280 students participating in the 74th Annual CPS Exhibition of Student STEM Research will be IN PERSON from March 14-16, 2024. The CPS Exhibition of Student STEM Research is always held in the spring.

Student STEM Symposium and IJAS Essay Contest

Additional components of the exhibition are the CPS Student STEM Symposium and IJAS Essay Contests. High school students participate in the symposium competition, presenting their research to a panel of judges. High school students and 7th- and 8th-graders participate in an essay contest, writing about a given

contemporary issue in science.

State and International Exhibitions

Each year, approximately 50 projects are selected to participate at the Illinois Junior Academy of Science (IJAS) State Fair, and 15 research paper presentations are delivered at the IJAS. This event is scheduled May 3-4, 2024, at Milliken University in Decatur, Illinois. In addition, four top-scoring students from the CPS Exhibition of Student STEM Research will participate at the International Science and Engineering Fair (ISEF), which will be held in Los Angeles, California on May 11-17, 2024.

Sponsors

Primarily, the CPS Student Science Fair, Inc. has three sponsoring organizations. The Chicago Public Schools, Office of Teaching and Learning is the host department for CPSSSF, employing the Regional STEM Exhibition Coordinators, CPS/SSF Liaison and contributing operational funds to run the exhibition each year. Illinois Tech (Illinois Tech) is our site host of the citywide Student STEM Exhibition. Chicago-area corporations spearhead the drive within the Chicago business community to obtain the necessary financial support for a successful Student STEM Exhibition experience. People Gas & Energy and ComEd, and Illinois Tech are this year's corporate sponsors.

How You Can Help

To help the CPS Student STEM Exhibition and encourage students to consider careers in the STEM fields, monetary contributions must be solicited. Without this financial support, the school and regional exhibition support, the production of the high-quality event of the City Exhibition of Student STEM Research, and the participation in the state and international science fairs would be greatly limited.

Please consider being a contributor to the operating fund, scholarship fund, or providing special awards and tours prizes. Please send a letter of interest to contribute to CPS Student Science Fair, Inc., P.O. Box 803945, Chicago, IL 60680-3945, or visit website at cpsstemfair.org.



Contributors 2023-2024 at the time this was published.

Operating Fund

Donations to the Operating Fund help produce the City Exhibition of Student STEM Research, the Regional Virtual Fair, and programs supporting students' independent research for Student STEM Exhibition.

Academic Sponsor

*CPS, Office of Teaching & Learning

Site Sponsor

*Illinois Tech

Corporate Sponsor

*Peoples Gas Community Fund
*Anonymous

Executive Circle \$5,000

*Roy Coleman & Dianna Uchida
*Ken Zdunek & Mary

Angels-\$1,000 Minimum

*Anonymous
*James M. Schaletter Fund(CCF)

Patrons-\$500 Minimum

Donors \$100 Minimum

*Elizabeth Copper
*Denise Gamble
*Marty Gartzman
*Joanne & Kenneth Gray
*David Gulligan
*Liz Jones
*Naylor Pipe Company

*Henry Rosenbaum

Scholarship Fund

Donations to the Scholarship Fund go to qualified CPS high school seniors who have submitted a project at the Virtual Regional and City-wide Student STEM Exhibitions and will major in a STEM field in college.

Donations to Special Awards go directly to students, whose projects meet criteria set by the donors and are selected by Special Awards Judges.

Benefactors of Academic Scholarships

- DePaul University
- Illinois Tech (IIT)
- Loyola University
- University of Chicago
- University of Illinois Chicago
- University of Illinois Champaign Urbana

Other Amounts

*Edward Burton
*Elizabeth Copper
*Susan Cottrell
*Barry Finkel
*Patricia Gaines
*Denise Gamble
* Martin Gartman

*David Gilligan
*Alpha Delta Chapter Of Delta
*Joanne & Kenneth Gray
*Ethelene Hare
*Judith & Philip Hasson
*Thelma Bond-Johnson

*Ernest Kaminski
*Miichael & Marshan Leib

*Rudy Lubov
*Steven McVeigh
*Eva Pitts
*Allan & Mary Reisberg
*Mark Renz
*Joan Rog
*Rosemary Smith

*Karen Strabel
*Donna Tarbunas
*Kenneth & Andrea Tyszkiewicz
*Lynne White
*Lewis & Deonne Wright

Angels-\$1,000 Minimum

*Roy Coleman & Dianna Uchida
*Kovler Family Foundation
*Alan Insley
*Marlyn Levin

*Henry Rosebaum
*Melanie Wojulewicz



Special Awards 2023-2024 at the time this was published

Donations to the Scholarship Fund go to qualified CPS high school seniors who have submitted a project at the Virtual Regional and City-wide Student STEM Exhibitions and will major in a STEM field in college.

Donations to Special Awards go directly to students, whose projects meet criteria set by the donors and are selected by Special Awards Judges.

Angels-\$1,000 Minimum

- **Fogleson Family Foundation**
- **Illinois Intellectual Property Alliance**
- **Omega Psi Phi-Iota Chapter**

Other Amounts

- **Charles B. Brown Jr**
- **Janice Lemar Brown**
- **Charms, Inc**
- **Chicago Section STLE**
- **Copper's Encouragement Award**
- **Denise Gamble**
- **Gonzalez, Rivera, Wahlberg, James, Roger Award**
- **Illinois Speech-Language**
- **Carolyn McBride**
- **Gary Morrissey**
- **National Technical Association**
- **Dixie Reyes**
- **Science Merit**
- **Cynthia Slater Insurance Agency**
- **Sharper Focus**
- **Slater Association**
- **Teach Our Children, Inc.**
- **Young Scientists**



Symposium and Essay Contests

Symposium Information

Symposium is an integral and popular feature of the Chicago Public Schools Exhibition of Student STEM Research. This event held on Thursday, March 14, 2024, takes place at Illinois Tech in Hermann Hall's lower level. Student presenters from Grades 9-12, through their teacher sponsor, first submit a scientific research paper. In January/February, a committee of volunteer readers evaluate these papers, and these research papers were chosen to be presented on March 14, 2024. Each student must have performed the primary research described in their paper, must defend the scientific merit of the research and display written and oral communication skills. During the Symposium competition, a panel of judges from the scientific, academic, and business communities listen to, question, and evaluate each presentation. Fifteen finalists are selected to participate at the Illinois Junior Academy of Science (IJAS) State Science Fair at Millikin University in Decatur, Illinois on May 3rd and May 4th, 2024.

Name	City Paper Number	Type	Grade	Category	School	NTWK
AEROSPACE						
Ramona Harold	601 E	E	9th	Aerospace Science	Amundsen High School	14
Olivia Jones	602 E	E	10th	Aerospace Science	Lane Tech College Prep HS	14
Eva Weber	603 E	E	11th	Aerospace Science	Northside College Prep	14
BEHAVIORAL SCIENCE						
Stephany Aguirre	604 E	E	11th	Behavioral Science	Carver Military Academy	17
Brianna Arrez	605 E	E	11th	Behavioral Science	Lane Tech College Prep HS	14
Sydney Coomer	606 E	E	12th	Behavioral Science	Lane Tech College Prep HS	14
Andres Marquez	607 E	E	9th	Behavioral Science	Carver Military Academy	17
BIOCHEMISTRY						
Diego Landeros	608 E	E	10th	Biochemistry	Lane Tech College Prep HS	14
Sasha Roth	609 E	E	10th	Biochemistry	Lane Tech College Prep HS	14
Indigo Wall	610 E	E	10th	Biochemistry	Lane Tech College Prep HS	14
BOTANY						
Annika Hutcheson	611 E	E	11th	Botany	Amundsen High School	14
CHEMISTRY						
Olivia Chier	612 E	E	9th	Chemistry	Amundsen High School	14
Yamileth Gamez-Rocha	613 E	E	11th	Chemistry	Carver Military Academy	17
Adrian Lee	614 D	D	11th	Chemistry	Lane Tech College Prep HS	14
Payman Rajaie	615 E	E	10th	Chemistry	Lane Tech College Prep HS	14
Ella Schieleit	616 E	E	11th	Chemistry	Northside College Prep	14

Noah Wilson	617E	E	9th	Chemistry	Amundsen High School	14
EARTH SCIENCE						
Nikita Agrawal	618 D	D	12th	Earth Science	Whitney Young HS	15
ENGINEERING						
Divinefavour Osuji	619 D	D	11th	Engineering	Lane Tech College Prep HS	14
ENVIRONMENTAL SCIENCE						
Emily Ba	620 E	E	10th	Environmental Science	Lane Tech College Prep HS	14
Elliana Cagua	621 E	E	9th	Environmental Science	Amundsen High School	14
Riley Coomer	622 E	E	10th	Environmental Science	Lane Tech College Prep HS	14
Alexander Czempinski	623 E	E	11th	Environmental Science	Lane Tech College Prep HS	14
Akosua Haynes	624 E	E	11th	Environmental Science	Walter Payton	15
Jason Lukian	625 E	E	10th	Environmental Science	Lane Tech College Prep HS	14
Yairely Marchan	626 E	E	10th	Environmental Science	Lane Tech College Prep HS	14
David Morowitz	627 E	E	10th	Environmental Science	Lane Tech College Prep HS	14
Anna Tataryn	628 E	E	10th	Environmental Science	Lane Tech College Prep HS	14
Peter Tolzmann	629 E	E	9th	Environmental Science	Amundsen High School	14
HEALTH SCIENCE						
Matilda Burgess	630 E	E	11th	Health Science	Amundsen High School	14
Rita Ibe	631 E	E	11th	Health Science	Carver Military Academy	17
Julia Poulos	632 E	E	10th	Health Science	Lane Tech College Prep HS	14
Landra Ream	633 E	E	11th	Health Science	Lane Tech College Prep HS	14
MATERIALS SCIENCE						
Hannah Sperling	634 E	E	10th	Materials Science	Lane Tech College Prep HS	14
MICROBIOLOGY						
Griffin Stofko	635 E	E	11th	Microbiology	Lane Tech College Prep HS	14
Lana Surgit	636 E	E	10th	Microbiology	Lane Tech College Prep HS	14
PHYSICS						
Jacklin Richman	637 E	E	10th	Physics	Amundsen High School	14
ZOOLOGY						
Jaylee Pratt	638 E	E	9th	Zoology	Carver Military Academy	17



Essay Contest

IJAS Essay Contest

Also evaluated by volunteer readers during January/February Symposium & Essay virtual reading sessions are the essays. As an ancillary activity of the State Science Fair, the IJAS sponsors an essay contest for students, in Grades 7-12, who conduct library research and prepare a 1500-word essay. The 2023-2024 prompt is: **From Grains to Brains!** Four top student essays will be forwarded to the IJAS for evaluation at the state level. These finalist lists are listed below.

2024 Essay Contest Semi-Finalists

Student Name	Grade	Essay Title	School	Network
Platon Belesiotis	8th	Sheltering Agriculture from Natural Disasters	Grissom Elementary School	13
Paulina Briones	12th	The California Drought (2012-2017) and Its Future Evolution	Gurdon Hubbard High School	16
Marco Garcia	12th	Aral Sea and Preventative Measures	Gurdon Hubbard High School	16
Katie Lopez	12th	The Impact of Deforestation	Gurdon Hubbard High School	16

Thursday, March 14, 2024 High School Symposium Presentation Day 8:30 a.m. until 3:30p.m.

ALL PARTICIPANTS must dress professionally. This does **not** include jeans, sweatshirts, t-shirts, shorts, or mini-skirts and/or halter-tops. This is a professional occasion. Professional attire is expected.

Morning session presenters arrive at Illinois Tech-Hermann Hall by 8:30 a.m. and Go To Station #1. Sign in and obtain your ID Badge and Badge Holder, and then go to Illinois Tech – Alumni Lounge.

Symposium Luncheon with Guest Speaker,

Afternoon session presenters will arrive at the Illinois Tech – by 11:00 p.m. and Go To Station #1. Sign in and obtain your ID Badge and Badge Holder, and then go to Illinois Tech – Alumni Lounge.



2024 CPS Science Exhibition Participants

Last Name, First Name	Grade	Type	Project Title	School Name
Aerospace				
Katrotzanakis, Panayiotis	7th	Exp	The Study of Airplane Brakes	Budlong
Lee, Yena	7th	Exp	What is the Best Shape for Stealth Aircrafts?	Franklin Fine Arts Center
Harold, Ramona	9th	Exp	Effects of Solar Flares on Radio Signals	Amundsen High School
Jones, Olivia	10th	Exp	Effect of Fin Angle on Bottle Rocket Apogee	Lane Tech College Prep
Weber, Eva	11th	Exp	Crater Morphology and Density of Lunar Maria	Northside Prep
Agricultural Sciences				
Klocke, Lila	7th	Exp	Atomic Aquaponic	Chappell School
Diaz, Elena	9th	Exp	Microgravity's Affect on Plant Growth	Amundsen High School
Behavioral Science				
Asher, Ian	7th	Exp	How Piaget's Theory Stands Today	Burley School
Blakeman, Mae	7th	Exp	How do Incentives Affect our Performance?	Lenart
Herrera, Marissa Moore, Adellen	8th	Exp	Is It Love or Is It Chemistry?	Grissom
Carroll, Loi	8th	Exp	How does Caffeine Affect Heart Rate	Lenart
Ramirez, Jax	8th	Exp	Identifying AI Text	Newberry Math and Science Academy
Jassal, Srishti Zoldan, Gweniveve	8th	Exp	Reading Online Versus On Paper	Skinner North Classical School
Mitev, Alexander Bibbo, Giuseppe	8th	Exp	Does Music have an Effect on Retention?	Skinner North Classical School
Marquez, Andres	9th	Exp	Music Moves: Reaction Rhythms	Carver Military Academy
Wu, Marlina	10th	Exp	Exposing Kinship in Familial Relationships	Payton College Prep
Ware, Ayana	11th	Exp	Little Star, Do You Affect Who We Are?	Carver Military Academy
Coomer, Sydney	12th	Exp	Effect of Mental Factors on Athlete Burnout	Lane Tech College Prep
Biochemistry				
Wang, Andrew	7th	Exp	What fermented fruit produces the most gas	Lenart
Ijimakin, Julia	7th	Exp	Burn it Down	Taft
Ajca-Chan, Darli Pareja, Alejandra	7th	Exp	Which Sport Drink has the Most Electrolytes?	West Park STEAM Academy
Marin, Jayleen Rodriguez, Daisy	8th	Exp	What Perseveres Meat the Best?	West Park STEAM Academy
Botany				
Carter, Kathryn	7th	Exp	Growing Greens	Chicago World Language Academy
Lewis, Molly Blake, Lillian	7th	Exp	Does Compost Help Radish Seeds Grow?	Franklin Fine Arts Center
Lopez, Jaslyn Salinas, Leah	7th	Exp	Which Soil Brand Grows a Plant Faster	Grissom
Herranz, Olivia	7th	Exp	How do different liquids affect plant growth?	Palmer Elementary School
Muench, Lauren	7th	Exp	How Plants Respond to Different Lights	Skinner North Classical School
Weiss, Joey	8th	Exp	Plants Of Rock	Audubon
Gonzalez, Esai	8th	Exp	Which Plants Adapt Best to Heat?	Chappell School
Sadovskiy, Martin	8th	Exp	What Vegetable?	Chicago World Language Academy
Rizal, Mikayla Garcia, Emily	8th	Exp	Can Worms Affect Plant Growth?	Hannah G. Solomon
Milsap, Elijah	8th	Exp	How Well Does UV Light Work For Plants?	Lenart
Brewer, Madison	8th	Exp	Flower Power	McDade Classical Elementary School
Anderson, Darren	8th	Exp	How do plants grown in different liquids?	Vanderpoel
Alvarez, Henry Martinez, Edgar	8th	Exp	Does Light Color Affect Plant Growth?	West Park STEAM Academy
Sims, Sky	9th	Exp	What type of flower has the best absorbancy	Carver Military Academy
Lenihan, Alexis	10th	Exp	Does PH/Environment Affect Ways Plants Grow	Chicago Agriculture
Hutcheson, Annika	11th	Exp	Effects of Water Sources on Plant Growth	Amundsen High School

2024 CPS Science Exhibition Participants

Last Name, First Name	Grade	Type	Project Title	School Name
Chemistry				
Downey, Jack	7th	Exp	Bready Or Not: A Crumby Experiment	Beaubien Elementary
Rynell, Flannery	7th	Exp	Which Moisturizer Works Best?	Beaubien Elementary
Chase, Catherine Murillo, Sophia	7th	Exp	Tap water Vs. Filtered	Budlong
Leftridge, A'niylah	7th	Exp	Body Scrub for Sensitive Skin	John D. Shoop Academy
Reyes, Jake	7th	Exp	Oxidation	Josephine C. Locke Elementary
Darden, Amelia	7th	Exp	Which Drink Gives You More Electrolytes?	Keller Regional Gifted Center
Newport, Logan	7th	Exp	Measuring the Viscosity of Pseudoplastics	Keller Regional Gifted Center
Cobb, Zafira	7th	Exp	Iron Rusting	McDade Classical Elementary School
Ibarra, Nicole	7th	Exp	Are You Gassy?	McPherson
Angeles, Lucas	7th	Exp	Turtle Tank Filters: Which Work Best?	Taft
Epure, Christopher	7th	Exp	Acid Rain is Breaking Down Your House	Taft
Novak, Anora	7th	Exp	Which citrus best prevents brown apples?	Waters
Crawford, Ariaun	8th	Exp	Which Drink Contains the Most Electrolytes?	Arthur Dixon
Wear, Danielle	8th	Exp	Shampoo Showdown	Audubon
Soliman, Isabella	8th	Exp	pH Level and Corrosion	Beaubien Elementary
Schuch, Frank	8th	Exp	How Do Types of Vinegar Affect Reaction?	Byrne
Frasor, Margaret Kupiec, Gabriela	8th	Exp	The Effect of Egg Substitutes on Cookies	Ebinger School
Kopier, Ella Murphey, Caroline	8th	Exp	The effect of bottled water on pH levels	Ebinger School
Vojtas, Payton	8th	Exp	What are the contaminants in our water?	Ebinger School
Kelly, Micah Jensen, Evie	8th	Exp	Get That Vita-C	Franklin Fine Arts Center
Davis-Carter, Jazirrah	8th	Exp	Confectionary Fire	Haley
Kalamperovic, Emma Talos, Maya	8th	Exp	How Clean Is Chicago's Water?	Hannah G. Solomon
Schott, Josephine Mak, Michelle	8th	Exp	Which Water Fountain Is the Best Quality?	Hannah G. Solomon
Gonzalez Vazquez, Alondra	8th	Exp	An Acidic Situation	McPherson
Scales, Chaniya	8th	Exp	Inflate-a-Balloon Soda	Washington H, ES
Wilson, Noah	9th	Exp	Gluten-Free Flours: Which One Is Best?	Northside College Prep
Perez, Jaylynn	9th	Exp	Candy pH	Carver Military Academy
Dotson, Nevaeh	9th	Exp	Whitening Toothpaste vs. Regular Toothpaste	Gary Comer College Prep
Rajaie, Payman	10th	Exp	The Effectiveness of Agents on Melting Ice	Lane Tech College Prep
Gamez-Rocha, Yamileth	11th	Exp	Accuracy of Fingerprints	Carver Military Academy
Lee, Adrian	11th	Des	ENR for Nitrate Removal & Ammonia Production	Lane Tech College Prep
Schieleit, Ella	11th	Exp	Comparing MOF Carbon Dioxide Adsorption	Northside Prep
Computer Science				
Cheung, Lavina Huang, Stacy	8th	Exp	Differentiating Between AI Art & Real Art	John C. Haines
Peters, Zakiy Raiford, Trevon	8th	Des	Fitness and Electrolytes	John D. Shoop Academy
Cunningham, Avery	8th	Des	Hallowez	Mary Gage Peterson Elementary
Vargas, Ian	12th	Des	Epifoods	Von Steuben MSC
Spector, Stella Panchal, Radhini	8th	Exp	AI vs Human: Are There Noticable Differences?	Skinner North Classical School
Earth Science				
Luna, Richard	7th	Exp	Chicago's Got Drip	McPherson
Paulsen, Abigail	8th	Exp	Which Cover Crop is Most Effective?	Palmer Elementary School
Agrawal, Nikita	12th	Des	Improving Tropical Cyclone Track Forecast	Whitney Young HS

2024 CPS Science Exhibition Participants

Last Name, First Name	Grade	Type	Project Title	School Name
Electronics				
Ortega Gaytan, Vanessa	8th	Exp	Energy Brand	O. A. Thorp Scholastic Academy
Verdin, Bianca	11th	Des	Design of an Exploration Walking Robot	Lane Tech College Prep
Engineering Science				
Guerrero, Virginia Grover, Sarah	7th	Des	The Walker Buddy	Audubon
O'Leary, Katherine Sanford, Beatrice Cote, Lainey	7th	Des	No Spill Slide	Audubon
Robinson, Trevion	7th	Des	How Much Can It Hold?	Gillespie Technology Magnet Cluster School
Buonauro, Anthony Baumgartner, Chance	7th	Exp	Ionic Propulsion	O. A. Thorp Scholastic Academy
Crowder, Leah	8th	Des	Multi-Purpose Tray	Earhart
Rhodes, Ava	8th	Des	Bed Buddies	Earhart
King, Jayden	8th	Des	Walking Robots	Gillespie Technology Magnet Cluster School
Patel, Humairah Mubashiruddin, Sulayman	8th	Des	The AluPen	Mary Gage Peterson Elementary
Glenn, Mikayla	9th	Des	Volleyball Dropper	Chicago Agriculture
Vogwill, Jason	11th	Exp	Which Bridge Can You Truss?	Chicago Agriculture
Lenihan, Colin	11th	Exp	Going the Distance	Chicago Agriculture
Osuji, Divinefavour	11th	Des	Biomimicry in Prosthetic Design	Lane Tech College Prep
Environmental Science				
Hamman, Elijah Mullin, Brennan	7th	Exp	Straws For Earth	Chappell School
Lestage, Colton Craig, Donovan	7th	Des	Flood Management	Chappell School
Koentopp, Maize	7th	Exp	Compost Nutrient Content	Decatur Classical School
Alvarez Cordoba, Jimena Tellez, Emily	7th	Exp	Food Waste	Maria Saucedo Scholastic Academy
Fitzgerald, Emmett	7th	Exp	Growing native plants in industrial soil.	Robert A. Black Magnet School
Whitford-Rodriguez, Beatriz	7th	Exp	The Environmental Impact of Urban Tree Canopy	Skinner North Classical School
Birkos, Audrey	8th	Exp	Effectiveness of Fire Retardant Paint on Wood	Burley School
Almanza, Alex Montes, Daniel	8th	Des	Natural Vs Chemical shoe cleaner	Burroughs Elementary
Reyes, Natalia	8th	Exp	A Fin-tastic Future	Burroughs Elementary
Saini, Neil Tolleson-Solomon, Clare	8th	Exp	From Soil to Electricity	Decatur Classical School
Vazquez, Sienna	8th	Exp	Permeable Pavement to Reduce Urban Flooding	Decatur Classical School
Sosa, Natalia	8th	Exp	Are You Sure This "Wood" Work?	McPherson
Hannah, Zoe	8th	Exp	Filtration Materials and Drinking Water	Newberry Math and Science Academy
Mueller, Quinn	8th	Exp	Erosion Prevention	Waters
Acosta, Roberto Garcia Hernandez, Daniel	8th	Exp	Which Fruit Or Vegetable Gives More Energy?	West Park STEAM Academy
Angulo, Yoselin Silva, Adriana	8th	Exp	Which Color Absorbs the Most Light?	West Park STEAM Academy
Horror, Seth	9th	Exp	Does Water Location Affect Cleanliness?	Amundsen High School
Cagua, Elliana	9th	Exp	Nature's Natural Water Filter	Amundsen High School
Tolzmann, Peter	9th	Exp	Wind direction effects on fall bird migration	Amundsen High School
Ba, Emily	10th	Exp	Effect of Fossil Fuels on Artemia Viability	Lane Tech College Prep
Marchan, Yairely	10th	Exp	Effect of Allelopathy on Seed Germination	Lane Tech College Prep
Lukian, Jason	10th	Exp	Effect of Natural Barriers Against Flooding	Lane Tech College Prep
Coomer, Riley	10th	Exp	Effect of Seasons on Urban Algae Productivity	Lane Tech College Prep
Wu, Leah	10th	Des	Powering Tomorrow: IL Nuclear Production	Payton College Prep
Lyons, Catherine	11th	Exp	What Type of Water Filter is Most Effective?	Chicago Agriculture
Czempinski, Alexander	11th	Exp	EffectofBurnScarsonMacroinvertebrateDiversity	Lane Tech College Prep
Haynes, Akosua	11th	Exp	Is The Grass Greener on the Recycled Side?	Payton College Prep

2024 CPS Science Exhibition Participants

Last Name, First Name	Grade	Type	Project Title	School Name
Health Science				
Salim, Ramsha	7th	Exp	Age VS. Ear Size Effect on Hearing	Budlong
Cartagena, Kerem	7th	Exp	How different drinks affect teeth	Burley School
Feulner, Dylan	7th	Exp	How do movie scores affect heart rate?	Byrne
Morgan, Gianna Castaneda, Amiyah	8th	Exp	Diet VS Normal Soda on Your Teeth	Burroughs Elementary
Perez, Layla	8th	Exp	Sunny Colors	Chicago World Language Academy
Manella, Ava Reyes, Samantha	8th	Exp	What sports drink has the most electrolytes?	Ebinger School
Correa, Isaiah Torres, Jose	8th	Exp	Video games and blood pressure	Grissom
Viniak, Saatvik	8th	Des	A Novel Computational Based Inhibitor for CRC	Lane Tech Academic Center
Henderson, Ginger	8th	Exp	Will It Stick?	Lenart
Morris, Jazmin	8th	Exp	The Irony is Killing Me	McPherson
Nathan, Allen	8th	Exp	Thrombolytic Theory	
Blankenberger, Isabella	8th	Exp	Target Cell Types: Transcription Factors	Taft
Rieger, Lucille	8th	Exp	Which sports drink has the most electrolytes?	Waters
Roman, Genesis	9th	Exp	Kimchi pH Levels	Carver Military Academy
Joshi, Anaya	10th	Des	Beyond the Surface	Payton College Prep
Burgess, Matilda	11th	Exp	Cancer Cells Treated with Chemo & Blood Cells	Amundsen High School
Ibe, Rita	11th	Exp	Are Fingerprint Inherited?	Carver Military Academy
Marquez, Andrea	11th	Exp	Blood Spatter Analysis	Carver Military Academy
Ream, Landra	11th	Exp	Gene Expression and Cisplatin Treated Cancer	Lane Tech College Prep
Materials Science				
Lee, Emmett	7th	Exp	The Fastest Way to Solve a Rubik's Cube!	Beaubien Elementary
Stirling, Elsie	7th	Exp	Which Roof Material Repels Water Best?	Hannah G. Solomon
Mellett, Maxwell Abuhashish, Malik	7th	Exp	Pumping up the output in Desalination	O. A. Thorp Scholastic Academy
Aly, Sulaiman	7th	Exp	Effect of Concentration & Type of Salt on Ice	Palmer Elementary School
Williams, Karysn	7th	Exp	Which Filtration	Vanderpoel
Sanchez, Jaedyn	8th	Exp	The Future of Food Packaging: Bioplastics!	Beaubien Elementary
Chlebowicz, Elena	8th	Exp	What is the most absorbent diaper brand?	Ebinger School
Wozniak, Dominik Chamochumbi, Joseph	8th	Exp	Spray and Pray	O. A. Thorp Scholastic Academy
Tenorio-McBride, Cassandra	8th	Exp	Does Coloring Affect the Rate of Burn?	Palmer Elementary School
Rogozinski, Benjamin	10th	Exp	Pick Your Plastic	Chicago Agriculture
Sperling, Hannah	10th	Exp	The Effect of Hemp on Concrete Integrity	Lane Tech College Prep
Mathematics				
Gonzalez, Adrian	7th	Math	Madness-Methods: Fractals in the Stock Market	Decatur Classical School
Chen, Patrick Zhang, Jerry	7th	Math		QED
Ugaz, Isabel Kunkle, Jackson	7th	Math		QED
Popova, Lydia	8th	Math		QED
Shariff, Iliyan Kimmel, Ashok	8th	Math		QED
Yu, Sophie Rajan, Akshara	8th	Math		QED
Jones, Darius	8th	Math	Structure in primes	Young AC
Jones, Bogdan	10th	Math	Frobenius discriminants	Payton College Prep
Guo, JunHi	11th	Math		QED
Kong, Annya	11th	Math		QED
Wang, Kallie	11th	Math		QED
Barnickol, Karl	12th	Math		QED
Hu-Lowenthal, Aiden	12th	Math		QED

2024 CPS Science Exhibition Participants

Last Name, First Name	Grade	Type	Project Title	School Name
Microbiology				
Word, Destiny	7th	Exp	Extracting DNA	Gillespie Technology Magnet Cluster School
Rasche, Keeley	8th	Exp	Silver Slaughter	Audubon
Matiarena, Sydney	8th	Exp	What Hand sanitizer kills the most Bacteria?	Burroughs Elementary
Melton, Jada	8th	Exp	Agar Cell Diffusion	Ruggles S.T.E.A.M. School
Conwell, Winston	9th	Des	The Bio Glow Stick	Von Steuben MSC
Chan, Janelle	9th	Exp	The Bacteria Living Among Us	Whitney Young HS
Ellevog, Ashley	10th	Exp	The Effectiveness of UV-C Light	Amundsen High School
Surgit, Lana	10th	Exp	Effect of Synergistic Remedies on <i>M. luteus</i>	Lane Tech College Prep
Stofko, Griffin	11th	Exp	Effect of BPA on <i>H. exemplaris</i> CAHS Proteins	Lane Tech College Prep
Fairley, Jazzium	12th	Exp	Are Fingerprint Patterns Inherited?	Gary Comer College Prep
Kim, Julia	12th	Exp	Overexpression of JAK3 and CD69 in Coronar...	Payton College Prep
Physics				
Patel, Afiyah Moreno, Diego Dhungana, Keya	7th	Exp	2 Fast Not Furious	Budlong
Alexander, Sawyer	7th	Exp	Citrusity - Can Citrus Create Electricity?	Burley School
Messina, J.J.	7th	Exp	Take it The Science Behind Banked Shots	Burley School
Czerniawski, Ashley	7th	Exp	Volt Current	Byrne
Cortez, Ernesto	7th	Exp	Cooling With Sound	Chicago World Language Academy
Schwartz, Ava Alt, Elizabeth	7th	Exp	Picking Up Fingerprints	Franklin Fine Arts Center
Urdaneta Largura, Eliot	7th	Exp	How Fast Can We Go?	Franklin Fine Arts Center
Lei, Minghui Zhu, Huaqi	7th	Exp	Paper Airplane Thickness	John C. Haines
Reilley, Connor	7th	Exp	Maximizing Solar Efficiency	Keller Regional Gifted Center
Thiede, August	7th	Exp	What A Drag!	Keller Regional Gifted Center
Miskewitch, Andrew	7th	Exp	Hot or cold, will magnets uphold?	Taft
Jaworowski, Kaya	7th	Exp	PSI vs. Soccer Ball	William E. Dever Elementary School
Gacgacao, Aliyah	8th	Exp	Coil Loops	Burroughs Elementary
Pazmino, Amelia	8th	Exp	Solar Powered Efficiency	Byrne
Crowe, Charles	8th	Exp	Electric Pickup	Chicago World Language Academy
Troncozo, Anmy Rojas Nieves, Jhostin	8th	Des	UN SISTEMA DE ALARMA PORTÁTIL .	Courtenay Language Arts
Bolduc, Elliot	8th	Exp	Angle of Impact on Bloodstain Patterns	Decatur Classical School
Aguilar, Marielena Bustamante, Yahir	8th	Exp	The Sifter	Haugan Elementary
Avila, Marcos	8th	Exp	Gear Teeth	Newberry Math and Science Academy
Patel, Hemani	8th	Exp	Light on Solar Panels	Newberry Math and Science Academy
Jones, Marzell	8th	Exp	A Hole in One!	Parkside STEAM Community Academy
Cederquist, Benjamin	8th	Exp	How Salt Affects the Melting Speed of Ice	Waters
Richman, Jacklin	10th	Exp	Which Water Bottle?	Amundsen High School
Hooper, James	10th	Exp	Wing Shape and Plane Flight	Chicago Agriculture
Padilla, Ivan	11th	Exp	How does Angle of Strike effect Goal Accuracy	Chicago Agriculture
Kaffer, Charles	11th	Exp	Prepared Piano Decibel Difference	Chicago Agriculture
Zoology				
Salagean, Octavian	7th	Exp	Which Water Will Hatch Shrimp the Fastest?	Hannah G. Solomon
Pratt, Jaylee	9th	Exp	How Does Temperature Affect a Bearded Dragon?	Carver Military Academy
Makkuni, Rhea	11th	Exp	Neural Mechanism Underlying Socialinteraction	Payton College Prep



Sixth-Grade Regional Winners

Student name	Title	School	Network
Ma, Leo	Which Type of Airplane Category Flies Best?	Skinner North Classical	4
Hei, Geer	Which Type of Airplane Category Flies Best?	Skinner North Classical	4
Cavazos, Aaron	Does pH Affect Germination?	Byrne	10
Oskvarek, Jack	Does pH Affect Germination?	Byrne	10
Bernotas, Adella	The Best Homework Environment	Franklin Fine Arts	4
Cinquegrani, Allegra	The Best Homework Environment	Franklin Fine Arts	4
Robinson, Suirad	What Can You Hear?	Lenart	ISP
Rivera, Mia	Which Water Has the Best pH Level?	West Park STEAM Academy	5
Varela, Jaylah	Which Water Has the Best pH Level?	West Park STEAM Academy	5
Borgula, Eliza	LED Botany	Beaubien Elementary	1
Jakuszcwski, Kinga	LED Botany	Beaubien Elementary	1
Vashisht, Raaga	Effect of Water pH Value on Plant Growth	Decatur Classical	2
Galla, Rachana	Sprinkle & Sweets	Beaubien Elementary	1
Pramod, Niveditha	Sprinkle & Sweets	Beaubien Elementary	1
Meegoda, Emma	Soapy Suds	Beaubien Elementary	1
Spanos, Panagiotis	Test-A-Water	Beaubien Elementary	1
Mateo. Martinez	Don't Drop the Pop!	Franklin Fine Arts	4
Blake, Jenesis	Don't Drop the Pop!	Franklin Fine Arts	4
Cruz, Valeria	Growing Crystals	Grissom	13
Fernandez, Estrella	Growing Crystals	Grissom	13
Mei, Katie	Buoyancy Within Eggs	John C. Haines	6
Boatright, Peyton	Gummy Bear Experiment	Lenart	ISP
McGuire, Kalley	How Much Salt to Make an Egg Float	Lenart	ISP
Primar, Destiny	It's Water (with a Dash of Salt)	Parkside STEAM Com Acad	12
Gamble, Maverick	Tap vs Bottle Water	Robert A. Black Magnet	12
Haynes, Michael	Slime Viscosity	Robert A. Black Magnet	12
Wolifou, Enoch	UnalogOS- D	Courtenay Language Arts	2
Kehinde. Oluwamayokun	UnalogOS- D	Courtenay Language Arts	2
Westbrook, Jayden	Potato-Cents Power -D	Gillespie Tech Magnet	12
Lassus, Xavier	Mobile Solar 101-D	Mary Gage Peterson	1
Rholl, Bjorn	Mobile Solar 101-D	Mary Gage Peterson	1
Peterson, Henry	The Trash Hull-D	Beaubien Elementary	1
Marie, Brandon	The Trash Hull-D	Beaubien Elementary	1
Gracias Sanchez, Santiago	Gereador de energia/Energy Generator-D	Courtney Language Arts	2
Kim, Johaan	Robo Nurse Saves the Day	Decatur Classical School	2
London, Aaron	Robo Nurse Saves the Day	Decatur Classical School	2
Hall, Zohra	How Buildings Move in Simulated Weather	Newberry Math & Science	4
Valdlamani, Sriya	Effect of Filters on Water's pH	Decatur Classical School	2
Nurmukhamedova,Saliha	Effect of Filters on Water's pH	Decatur Classical School	2

Escobar, Alex	Which Purification System Cleans Better?	Newberry Math & Science	2
Noushad, Amelia	Air Quality Test	Skinner North Classical	4
Kong, Alexa	Air Quality Test	Skinner North Classical	4
Nott, Zoe	Effect of Laundry Detergent on Dirty Cloth	Decatur Classical School	2
Zamora, Daniella	Popp'in Popcorn	Grissom	13
Cruz, Alexa	Popp'in Popcorn	Grissom	13
Muhisani, Sanaa	Temperature and Bounce Height	Franklin Fine Arts	4
Flores, Maya	Interleaved vs Not Interleaved	Grissom	13
Conway, Mila	Surface Tension	Lenart	ISP
Haynes, Peyton	Which Fabric is the Best Insulator?	Lenart	ISP
Prince, Zion	Heat vs Color	Parkside STEAM Com Acad	12

2023 6th Grade City Awards





Awards Ceremony

Saturday, March 16, 2024

1:00 P.M.- Illinois Tech- Hermann Hall Auditorum

Pledge of Allegiance

National Anthem

Greetings.....Carrie Kaestner
Chairperson of CPS Science Fair, Inc

Welcome.....Elizabeth Copper
Executive Director CPS Science Fair, Inc

Remarks..... Paul Valaitis/Baxter
President of CPS Science Fair, Inc

TBA ALUMNI SPEAKER

Awards Presentation.....Ruby Parnell-Booth
Chairperson of Special Awards CPSSSF, Inc

Winners Recognized.....Paul Valaitis/ Baxter
Board Member, CPS Science Fair, Inc

Symposium Winners.....Lucy Young
Chairperson of Symposium & Essays

Illinois Junior of Academy of Science (IJAS).....Monique Murray
Chairpersons, IJAS State

Regeneron International Science & Engineering Fair(ISEF).....Carrie Kaestner
Chairperson

Closing Remarks.....Elizabeth Copper
Executive Director CPSSSF, Inc



2022-2023 Scholarship Recipients



Piper Evans

University of Michigan Ann Arbor
Biology or Applied Health Sciences



Riya Joshi

Princeton University
Molecular Biology



Lydia Schieleit

University of Ill Urbana-Champaign
Data Analytics



Ritvik Viniak

Northwestern Univeristy
Molecular & Cellular Biology



Kathryn Warren

Univsersity of Missouri
Biology



Prioyanshi Paytel

Purdue University
Mechanical Engineering



Wylan Harris

Loyola University
Neuroscience



Patrick Colon

University of Illinois
Urbana-Champaign
Engineering



Maya Joshi

Princeton Univeristy
Ecology & Evolutionary
Biology



Lisa Patel

University of Illinois
Urbana-Champaign
Biology



Zayd Majzoub

University of Illinois
Urbana-Champaign
Biology



Peoples Gas Middle School STEM Clubs

The following elementary schools have approved STEM clubs sponsored by Peoples Gas. Each club was provided with a stipend for the club sponsor. Giving students the time and support to experience research and investigations of their ideas is important. Engineers will be more available for the 2023-2024 school year to mentor students. The primary objectives of the Peoples Gas Middle School STEM Clubs were to provide guidance to students interested in developing STEM Exhibition projects.

An information meeting is held in the Fall (September/October) to provide teachers with the opportunity to participate in this program.

All students are “STEM Capable”

Students graduate with 21st century skills that enhance success in college, career, and civic life.

Alex Haley

Reginald Johnson

Byrne Elementary

Elaine Sanches

Gillespie Tech Magnet Cluster

Robin Morgan-Sponsor

Grissom

Melissa Ramirez

Parkside STEAM Academy

Janice Coleman-Mathus

Ruggles S.T.E.A.M Elementary

Adayo Moton

ALL HAVE MIDDLE SCHOOL STUDENTS PARTICIPATING IN THE

74TH 2024 EXHIBITION OF STUDENT STEM RESEARCH

Illinois Tech, March 13- 16, 2024

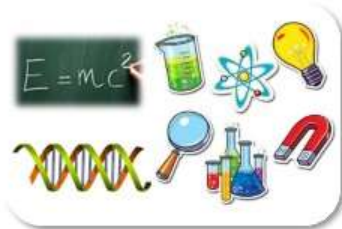
Awards Presentations, March 16, 2024

CONGRATULATIONS!!!!



THANK YOU!!!!!!!!!!!!!!

*STUDENTS, TEACHERS, JUDGES, PARENTS, CPSSSF, INC. AND Department of STEM
FOR ALL OF YOUR SUPPORT*



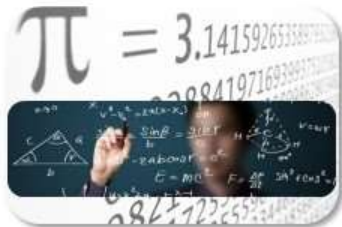
Science



Technology



Engineering



Mathematics