

HANDS ON LEARNING

Eternity Braden attended the AP
English Language Field Trip to

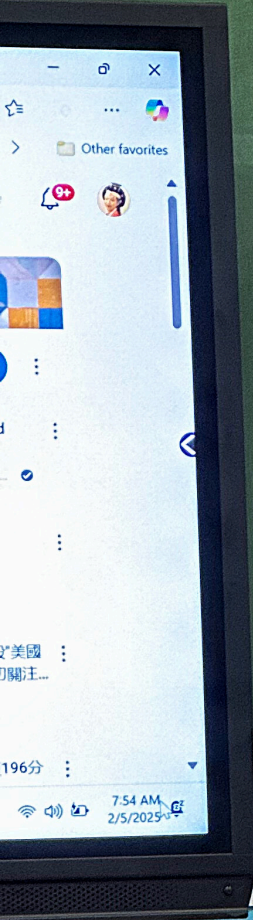
**MILDRED LANE
KEMPER ART MUSEUM**



The Gateway Goods

February 2025

Inside Story: Page 4.



Date

Learning Target

Agenda



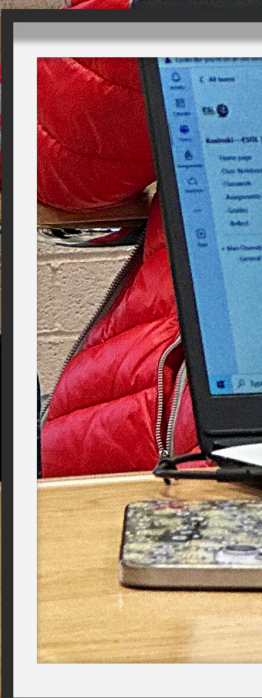
Left: Carlos Hernández presents in front of the class.

Photo by Colette Morton

for Learning Objectives

Academic
SIGHTS LAST
Toolkit
Noun

A LOOK INTO
JANE KOSINSKI'S
CLASSROOM
ESOL TEACHER
CHINESE LANGUAGE
TEACHER





Jane Kosinski looks on as Vidal García-Mendoza presents.

Photos by Colette Morton.



Colette Morton's students visited Mildred Lane's Kemper Art Museum at Washington University. Students observed art centered around Environmental Justice. Right Top: Shukria Erkin creates art (seen page 6) . Right bottom: Latuasha Cox, Associate Educator for School and Teacher Programs, speaks to Araejah Jackson, Maurice Davis, Ayanna Blanchard, Caleb Wafford, Eternity Braden and Keith Jacobs.



Page 5. Top: Cox hands out cards to Ayanna Blanchard, Brooklynn Williams, Jackson Paiz, Tyler Duong, James Frazier, and Yae Kumeh to help them understand the art of Andrea Bowers titled "Let Us Feel Heartbreak" inspired by a quote by the healer-poet Deena Metzger. Bottom left: Jaylen Ballard creates art. Right: Cox explaining Bowers art.





The JROTC Leadership & Academic Bowl

The JROTC Leadership and Academic Bowl (J-LAB) Team competed in the Level II assessment. This academic competition consists of three levels; with level three being an in-person competition held at the Catholic University of America in Washington D.C. It is sponsored by the College Options Foundation (COF). Competition at Level I started with approximately 1,000 schools. Our Gateway Team competing in Level 2 against 330 other schools to make the final cut to 16 schools to compete in Washington, D.C. this summer.

Top: Curtis Sweat answers questions as Jasmine Balven and Chanel Mitchell watch. Bottom: JLab members pose for a photo. Caleb Wafford, Jasmine Balven, Xavier Wesley, Curtis Sweat, and Chanel Mitchell.

Photo provided by Lt. Col. Jeffery Ditlevson.





REFINERY



CHEMISTRY TEACHER EMILY WELCH MAKES CONNECTIONS

Top: Bottom row: Emily Welch, Doria Evans, Zaynab Abed, Jayline Ricks, Haley Robinson, Brooklynn Williams, Calvin Maxie-Jones, Kadyne Dodd, Caleb Wafford, Krishma Tamang, Alannah Blanchard, Legend Morrow, Jayden Jackson, Haylen Hyde-Carothers, Tyler Duong, and Nieghl Johnson. Top row: Tania Soto Palacios, Louis Dieckmann, Yae Kumeh, Aiden Kaylor, Tyler Pattman, Jeremiah Ceasar, Adrian Jackson, Da'Maria Troupe, Jaymiah Dickerson, Collin Bertish, Chanel Mitchell, Yougesh Chhetri-Subba, Aniya Chatman, Sylvia Knox, Ariya Wilson, and Eugene Johnson. Not pictured: Janell Degraffenreid, Amori Brown, or Sha'Mya Maclin.

Photos and story by Emily Welch.

Ms. Welch's chemistry classes completed a unit on Chemical Reactions in January. As an extension of their studies in class, Ms. Welch and Mr. Johnson brought AP Chemistry and Chemistry students on a field trip to Phillips 66 Wood River Refinery in Roxana, IL on Tuesday, February 4th. Students learned about how crude oil is processed and refined to make gasoline, jet fuel, and other products. The field trip also included a tour of the refinery, presentations about different jobs and career paths at the refinery, and a tour of the on-site fire station. The presentations and tours were led by members of the Phillips 66 Black Employee Network and New Hire Network, and included scientists, engineers, operators, skilled trade workers, and emergency response personnel



Top right: Collin Bertish points out the window as Amori Brown, Da'Maria Troupe and Aniya Chatman enjoy the tour. Bottom right: Student work.

Nuclear Fusion

How this reaction works

- The collision of deuterium and tritium form hydrogen isotopes. Forming a helium nucleus and a neutron releasing a substantial quantity of energy and heat within nuclear reaction.

Information about it

- The sun starts by fusing atoms together.
- The sun slowly builds up energy with solar radiation.
- Without the sun plants would not grow.

$$2\text{H} + 3\text{H} \rightarrow \text{He} + \text{n}$$

Labels: Deuterium, Tritium, Helium, Neutron, Energy, Fusion, Fission, Light

When price and wages fall

Combustion (PROP)

$$\text{C}_2\text{H}_6 + 5\text{O}_2 = 3\text{CO}_2 + 4\text{H}_2\text{O}$$

COMBUSTION

Without it being burned on, it doesn't burn. How all atoms work without being burned on, they just absorb. Because they make things heat up.

When it being burned on, it can be cooled. The gas is mixed with oxygen and that makes through the process. And "oxygen" heat up the fuel.

RESE

"Combu... fossil... chemis... with o... world... works... Combu... fuel... with..."

Souring Milk

$$\text{C}_{12}\text{H}_{22}\text{O}_{11} + \text{H}_2\text{O} \rightarrow 4\text{C}_3\text{H}_6\text{O}_3$$

Yogurt chemis... Sour

How it processes

- The fresh milk is kept in a warm place after a way for some time by by by it goes sour.

Examples

- Butter milk
- Yogurt

What it's used for

- Sour milk is used for baking and cheese making.

Without it

- There possibly would be baking or cheese making.

When was it found?

- Found 3500 years ago.

Another process of this

- You can use vinegar to make it. The vine or will cover the lumps into lumps out.

Hydrolysis

- Example of hydrolysis, when you eat steak the protein and fat that you consume are broken down into their subunit parts by enzymes of your digestive system.
- Hydrolysis is the process of breaking chemical bonds of biomolecules where water molecule is consumed. Hydrolysis is the process that separates biomolecules into two parts.
- Hydrolysis is related to energy metabolism and storage.

Key:

- Black: Carbon
- Red: Oxygen
- Yellow: Hydrogen

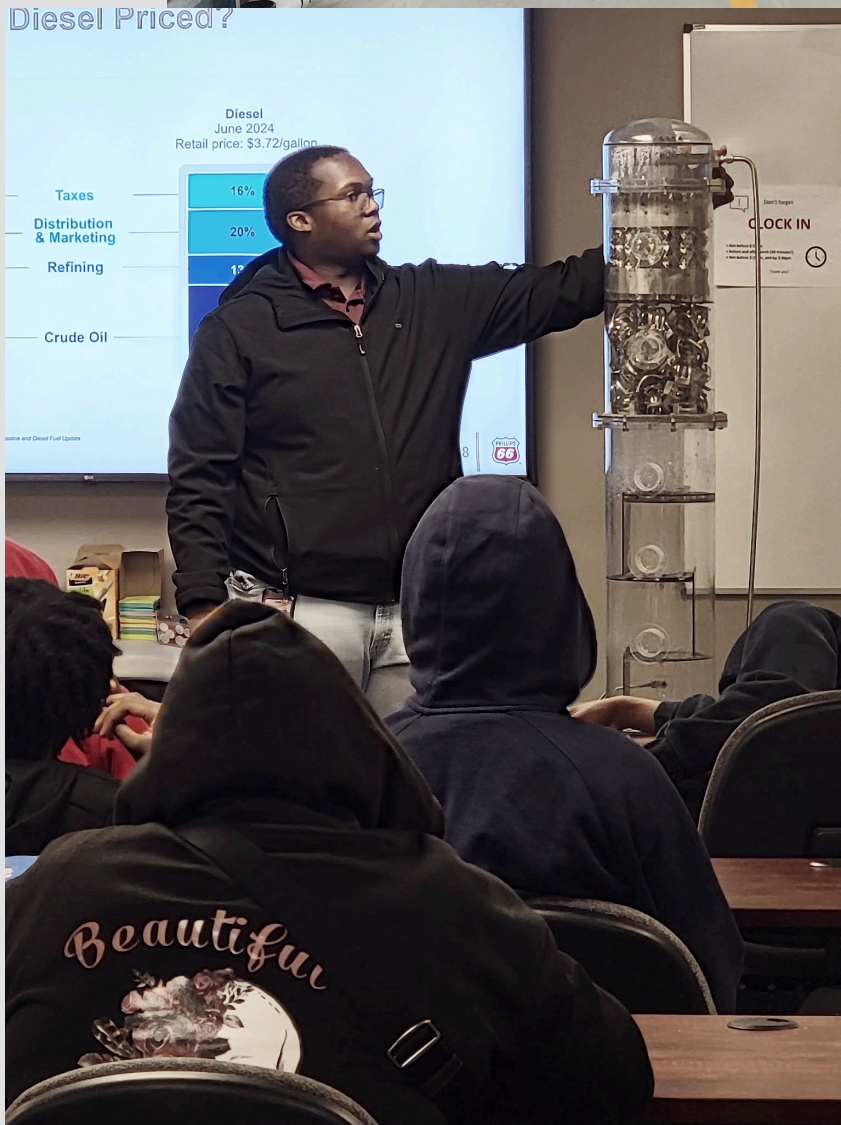
Hydrolysis of Ester

$$\text{CH}_3\text{COOCH}_3 + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH}$$

LEARNING ROOM



Diesel Priced?



Top: Alannah Blanchard and Brooklynn Williams give all their attention to Ashley Hayes, a Phillips 66 employee who is responsible for training operators and technicians on the equipment. He is explaining how they use the small scale equipment behind him to train new employees.

Photos by Emily Welch.

DISTILLATION DEMONSTRATION



NHID

NATIONAL

HISTORY DAY®

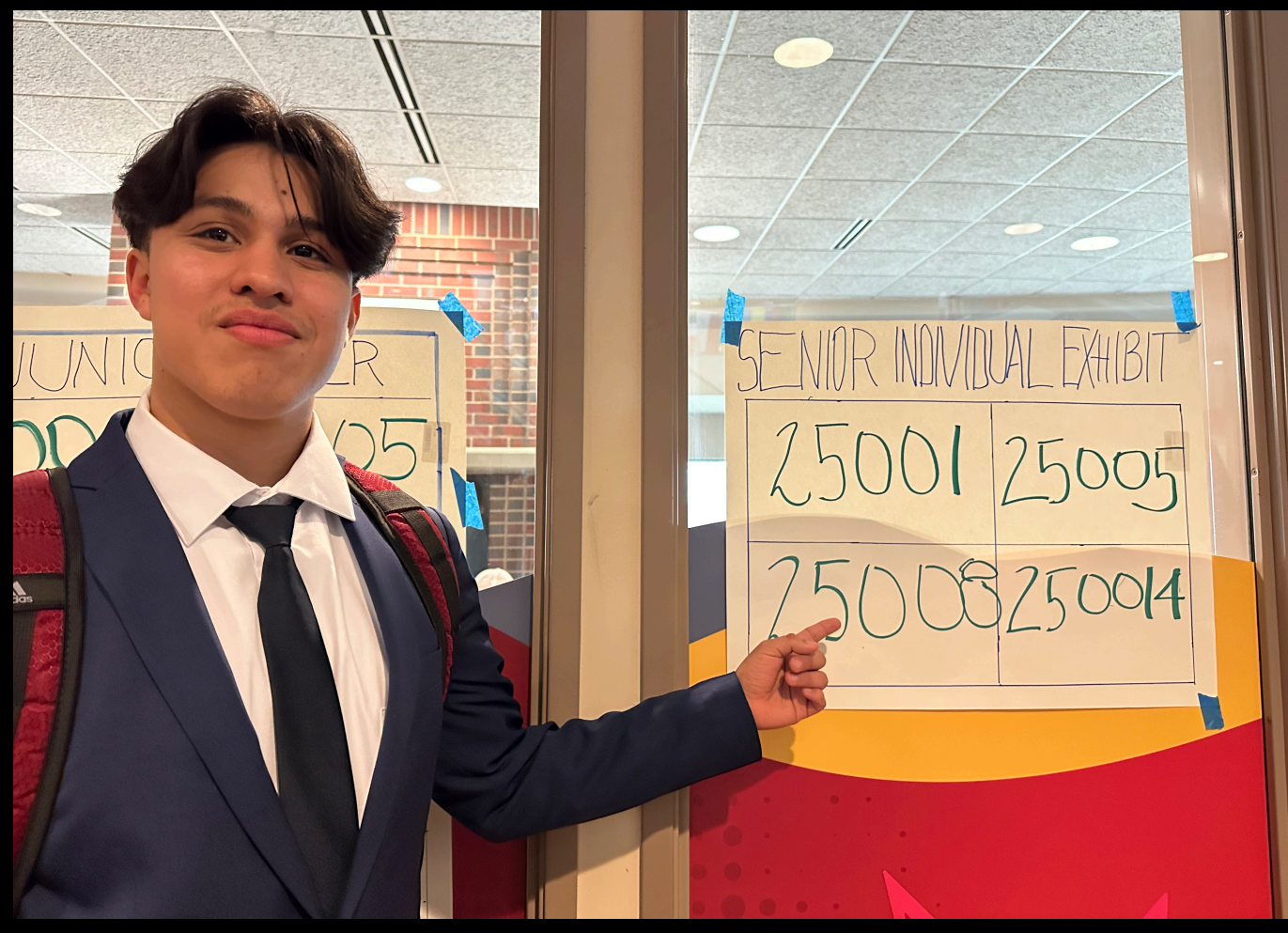
On February 15, 2025, the St. Louis Regional History Day competition hosted students from all over the area. Among them was Jackson Paiz Rodriguez, an 11th grader with a passion for uncovering untold stories from history. Paiz's project focused on the Bracero Program, a pivotal yet often overlooked chapter in the history of U.S.-Mexico relations.

The Bracero Program, which ran from 1942 to 1964, allowed millions of Mexican laborers to come to the United States to work on farms and railroads during World War II and beyond. Jackson had been fascinated by the program's complex legacy—the way it provided opportunities for Mexican workers while also perpetuating exploitation and harsh working conditions.

Paiz spent weeks researching the history of the program, diving into historical archives, interviewing Colette Morton whose grandfather was a former Bracero.

Paiz took first place in the Senior Individual exhibit. Paiz will go on to compete in the state competition on April 26th, 2025.

Photo and story by Colette Morton.



Top left: Jackson Paiz advanced to the next level. Bottom left: Deborah Cohen, a UMSL History Professor, stopped by to check out Paiz's research. Paiz referenced Cohen's research in his project. Bottom right: Paiz and Colette Morton pose with Paiz's winning board.

Photos by Colette Morton.

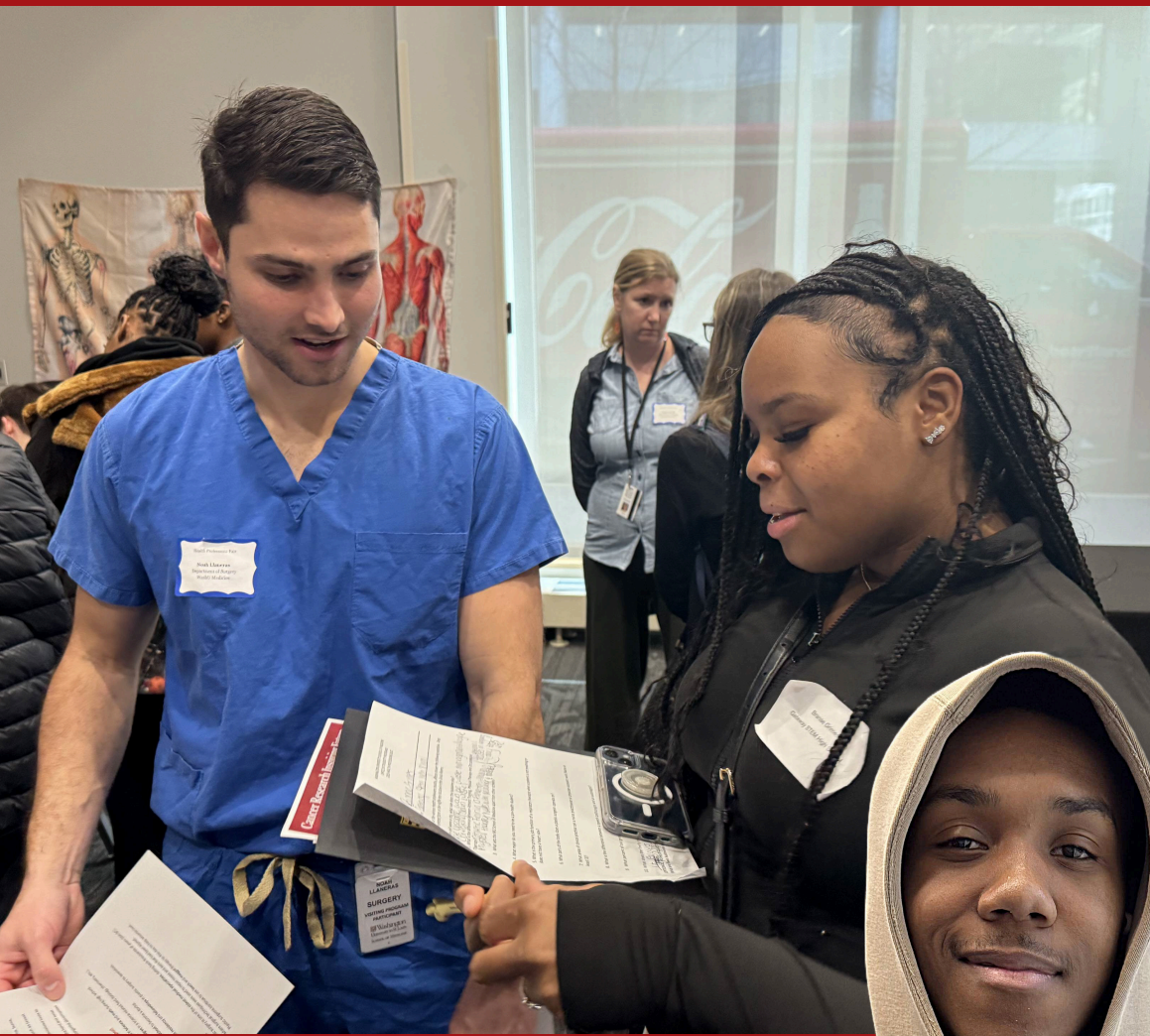




SATURDAY SCHOLARS

Shakira Abiola asks a question to the panel on Women's health.

Photo and story by Jennifer Rice.



The Saturday Scholars Program provides an annual forum for high school students to learn about human anatomy both in a lecture and lab environment, while interacting with Washington University medical students. The students attend a Health Professions Fair field trip before being selected to attend the full Saturday Scholars program.



Top left: Branae Grimes discusses a quiz question with a medical student.

Bottom Left: Shogofa Noorzad and Maim Alkurdi listen intently to a presenter.



Bottom Right: Maurice Davis shows of the lanyard he won for getting 3rd place on the Health Professions Fair Quiz.



Top: back row from left to right: Maim Alkudi, Shakira Abiola, Karim Ashour, Maurice Davis, Jennifer Rice. Front row (left to right): Imani Brown, Shogofa Noorzad, Huda Mahmood, Branae Grimes. Bottom: Huda Mahmood enjoys a demonstration of inflating lungs.



Washington
University
in St. Louis



SAINT LOUIS POETRY CENTER

Since 1946,

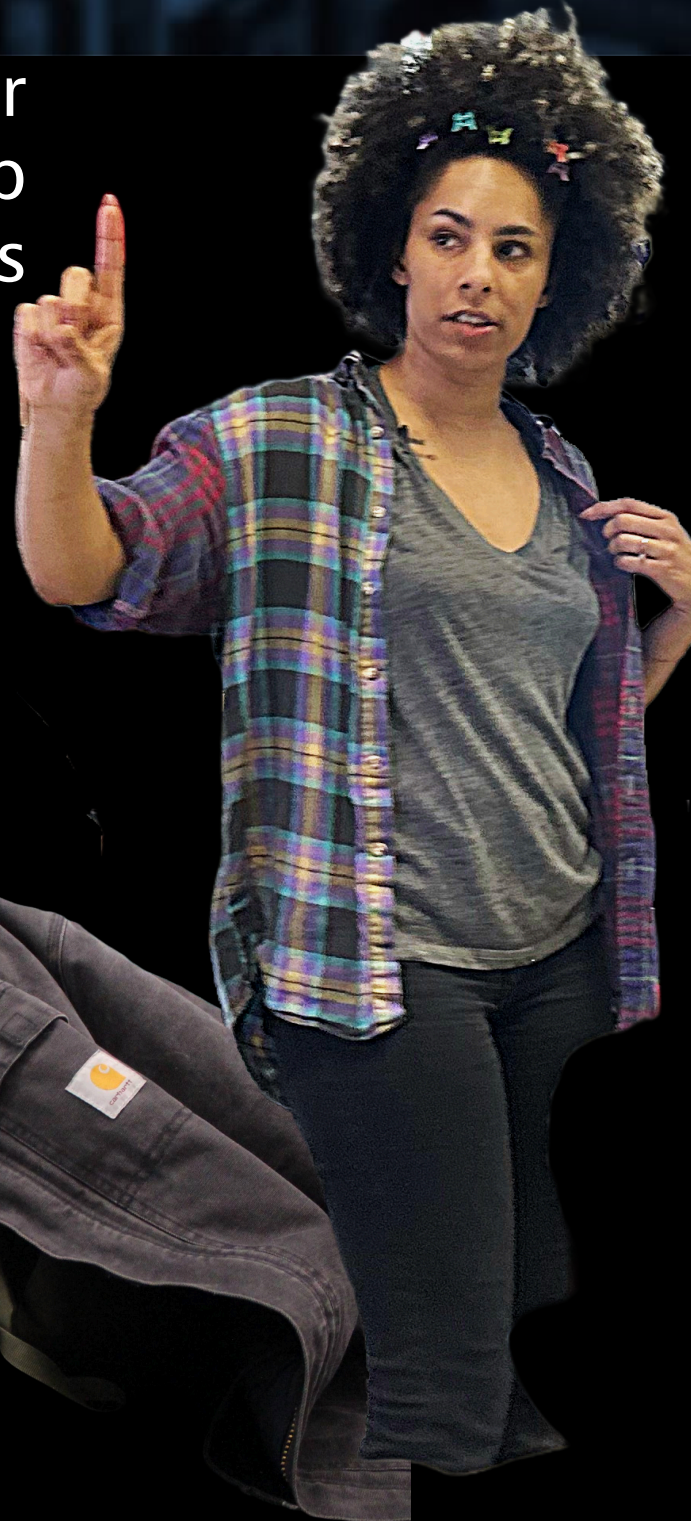
Saint Louis Poetry Center has supported poets and audiences in the St. Louis region through an innovative array of artistic and educational programs, championing the power of poetry to enrich our communities and lives.

St. Louis Poetry Center Brings Creative Workshop to Gateway STEM Students

Sarah Tisdale (seen to the right) is a Black poet and teaching artist from St. Louis, working most recently through a teaching residency at Saint Louis Poetry Center. Sarah has been teaching for over a decade and has received training through Center for Creative Art's Institute for Arts Integration, the Center for Art of Translation's Poetry Inside Out teacher workshop, and the Regional Arts Commission's Community Art Training Institute. Tisdale introduced Colette Morton's students to Environment Justice Poems written by members of the Osage Nation.

Below: Shya Evans writes poetry using the found poetry method

Photos and story by Colette Morton





Top: Donovan Thomas reads poetry about environmental justice.

Left: Ashtyn Jackson gives two thumbs up to the Poetry Center's presentation.

Photos by Colette Morton.



AS1 Cadet of the Month, Henrietta Knox, receiving her award from Jeffery Ditlevson, Lt Col.

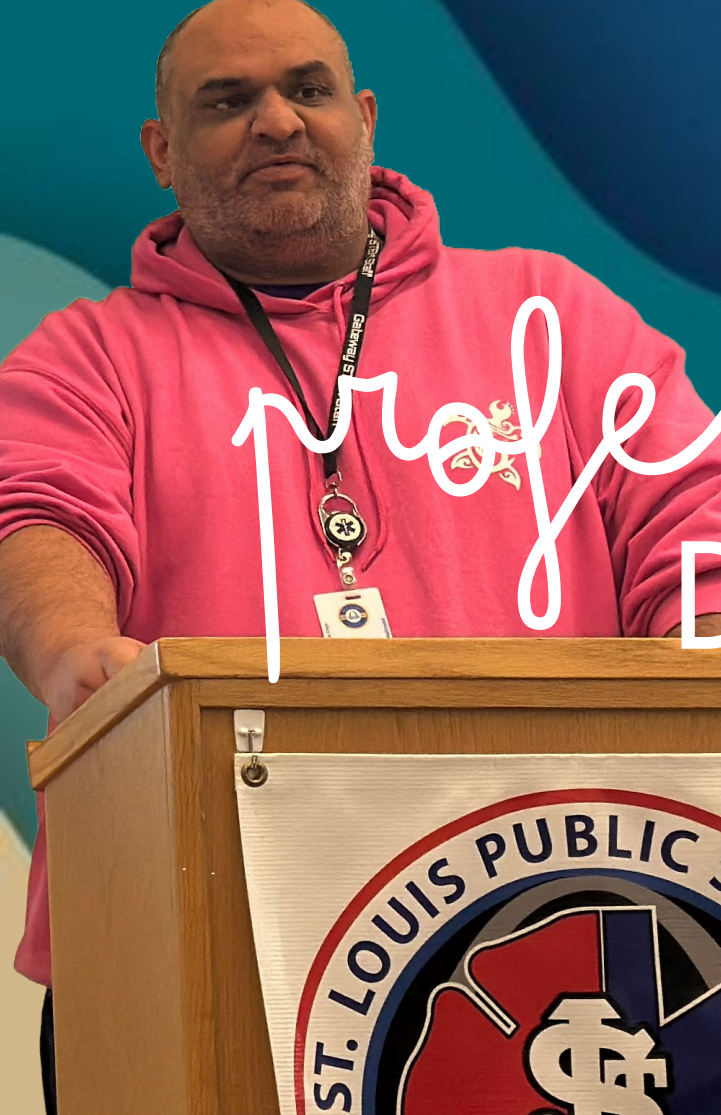
of the month

JROTC CADETS

- AS1 Cadet of the Month – Henrietta Knox.
- AS2 Cadet of the Month – Da’Maria Troupe.
- AS3 Cadet of the Month – Amorii Walker (not pictured).
- AS4 Cadet of the Month – Uwimana Nyirabwiza.
- Overall Cadet of the Month – Jack Anthony.



All photos by Antoinette Lunanga.



Professional DEVELOPMENT

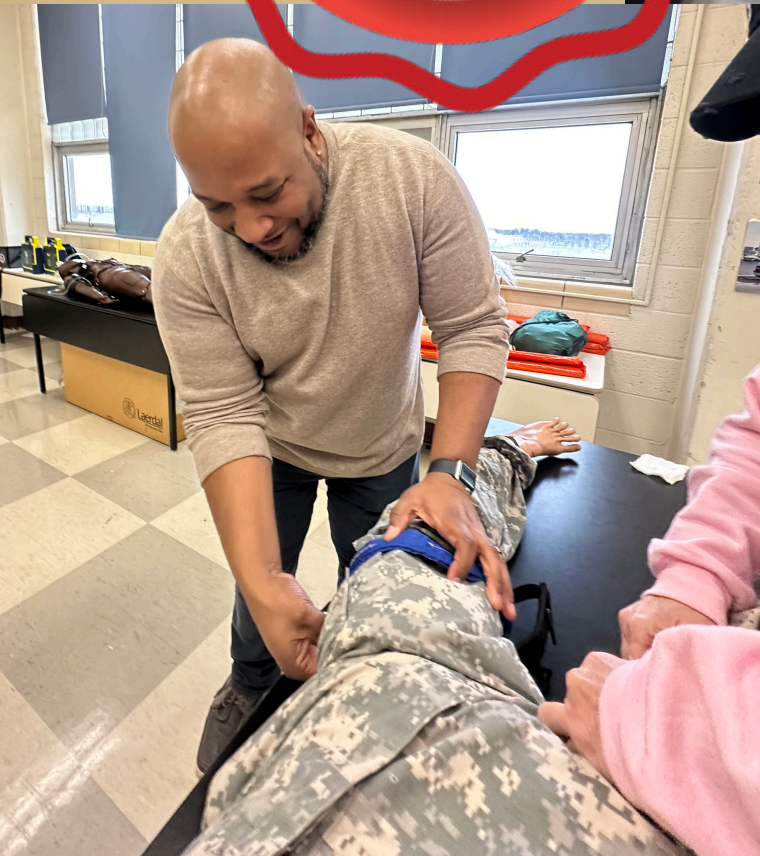
Left: Mark Fantroy trains teachers how to Stop the Bleed. Bottom left: Brian Sorgea watches Fantroy explain the program. Bottom right: Dan McVey practices using the tourniquet on the school dummy.



Photo by Colette Morton.

Right: Logan Allgood, Kerry Johnson, and Dan McVey practice their tourniquet skills on the school dummy. Bottom left: Joseph Smith takes his turn with the dummy. Bottom right: Teachers received Stop the Bleed kits.

Photo by Colette Morton.



RUTH! ROUX! ROO!

NEWS SNIPPET

Ruth, furbaby of Blair Stiles, has many nicknames, including Roux, pronounced Roo.

Roux has never met an egg or sweet potato she wouldn't eat.

Her favorite activity is going on walks around Carondelet Park (squirrels, scents, dogs, oh my!)

Roux is also a Bayou puppy! She was born in Louisiana .



Top right: Ruth greets Dolores Barfield. Bottom left: Blair Stiles cuddles with Ruth.

Photos by Colette Morton and Blair Stiles..



Owning a dog brings countless benefits to your life. Dogs offer companionship, helping to reduce feelings of loneliness and boosting your mood with their unconditional love. They also encourage a healthier lifestyle by promoting regular exercise, whether it's through walks, playtime, or outdoor adventures. Beyond that, dogs can provide emotional support, alleviate stress, and even improve heart health. The bond you share with a dog can bring a sense of purpose, responsibility, and joy, enriching both your physical and mental well-being.

RUTH!



Certificated Staff Member with the most years of service.

Steven Hill

Steven J. Hill has been an educator at Gateway STEM since 1992, bringing over 43 years of teaching experience to his students. With a background in both music and technology, Steven teaches Concert Band, Intro to Guitar, and Understanding Music, guiding students in their musical journey.

Hill has inspired many students over the years and continues to do so today.

CELEBRATING
43
years

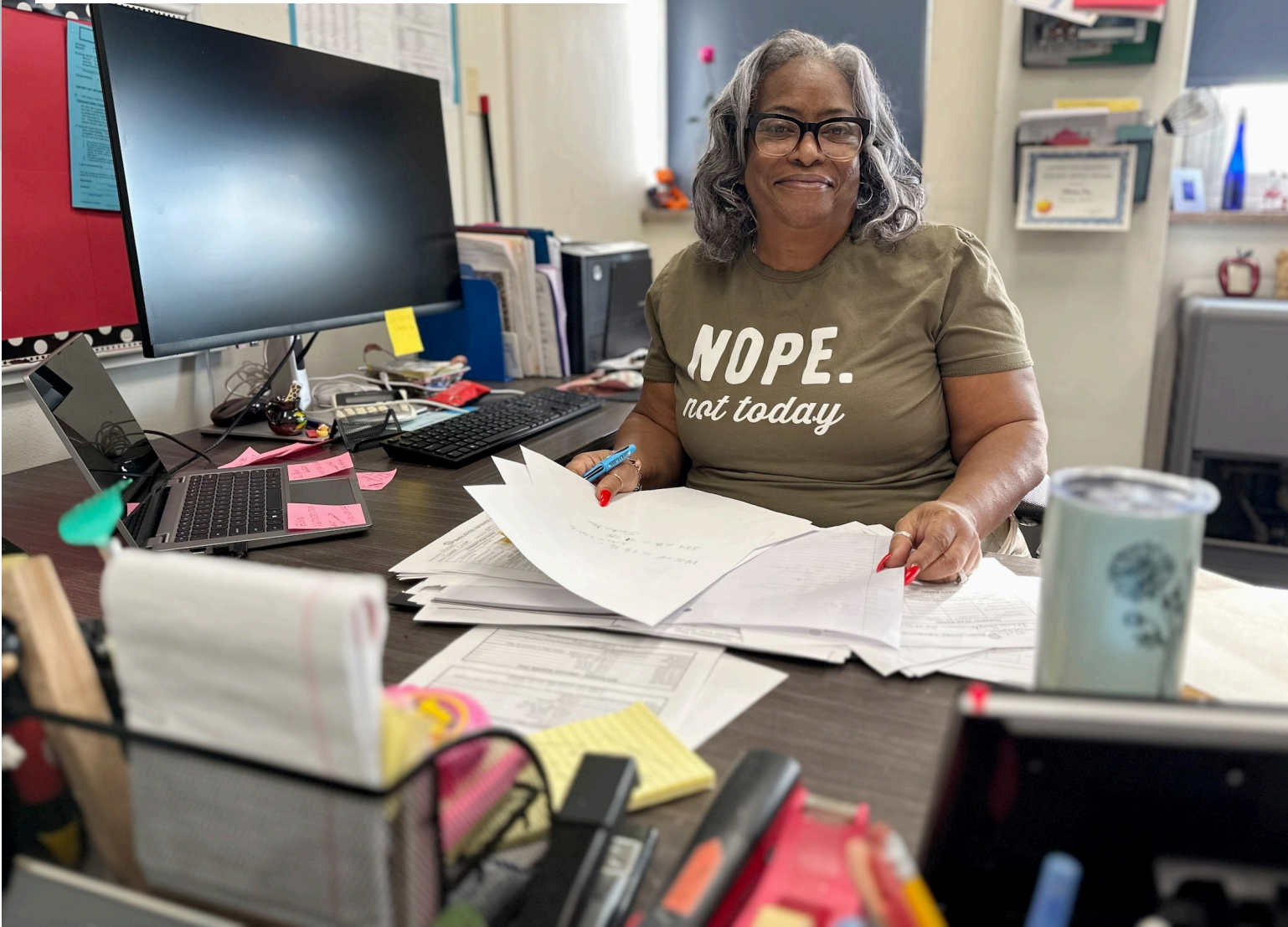
Celebrating Employee Milestone Anniversaries

Photo by Colette Morton.

Saint Louis Public Schools proudly recognizes the dedication and commitment of our employees who are celebrating milestone anniversaries this month. Thank you for your years of service and for making a lasting impact on our students and community.

35 Years of Service

Melody Clay – Gateway Institute of Technology, Secretary II (Hired: 1/22/1990)



Staff Member with the most years of service

Melody Clay

Melody Clay is a true gem in the St. Louis Public Schools (SLPS) community, having served as a dedicated secretary for 35 years. Throughout her time in the district, she has gone above and beyond, often using her own resources to feed hungry children and provide bus money for those in need.

Her generosity and compassion have touched countless lives, making her a beloved and irreplaceable part of the school system. Melody's selflessness and unwavering commitment to the well-being of students truly make her a jewel.

CELEBRATING
35
years



Sam Tucker, a dedicated school custodian at SLPS, has worked tirelessly to maintain the school's cleanliness and safety for as long as he can remember. Despite his unwavering commitment, he finds himself unable to recall exactly how long he's been employed there. Whether it's been a few years or decades, Sam has always been a reliable presence, quietly ensuring everything runs smoothly behind the scenes. His work, though often unseen, is essential to the daily functioning of the school, and his legacy is woven into the very fabric of the institution.

Photo by Colette Morton.

Sam Tucker

Custodial Staff Member with the most years of service.

CELEBRATING
30
years



**Jaliyah
Riggs-Shorter**

**Cormya
Ivory**

Photo by Colette Morton.

SPORTS

Pickleball



This past weekend the robotics team competed in the East Super Qualifier with 35 other teams from across the St. Louis Metro area. Our team won 4 out of 6 matches; this bring us to a record of 29 wins and 6 losses for the season.

During the awards we won 3rd Place Inspire Award effectively making our team #3 overall at that event.

Spare Parts

This performance made us one of six teams (out of 36) to qualify for the State Championship on March 8th in Rolla, MO.

Above left: Michael, Brian House, Amelia Bryant talk strategy. Top right: Brian House, Brandon House, Thomas, Christian, Aiden Kaylor discuss plans for the next round.

Photos by Conner Luster.



371 Points! Jaguar **SENIOR** *Point Guard*
BEN DURA
Gateway STEM Basketball Team



Photo by Antoinette Lunanga.

MARQUAN HOLMAN

JV

GATEWAY V KIPP

PHOTO BY ANTOINETTE

LUNANGA



Gateway Tech

68



KIPP

64

Final



PICKLEBALL WINNERS

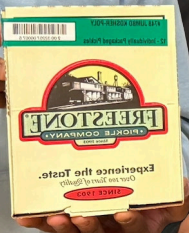
GIRLS 1ST PLACE KANYIA MOSLEY AND JALIJAH RIGGS SHORTER
AND KALIJAH OWENS
GIRLS SECOND PLACE DENSITY BROWN AND KALIJAH OWENS



PICKLEBALL WINNERS

BOYS 2ND PLACE TERENCE MATHIAS AND JUELS WINGFIELD

BOYS 1ST PLACE MONISH MONGAR AND DONTRELL WILLIAM



GAL EWAYS STEM
HIGH SCHOOL
DISTRICT CHAMPIONS
2021

JAGUARS

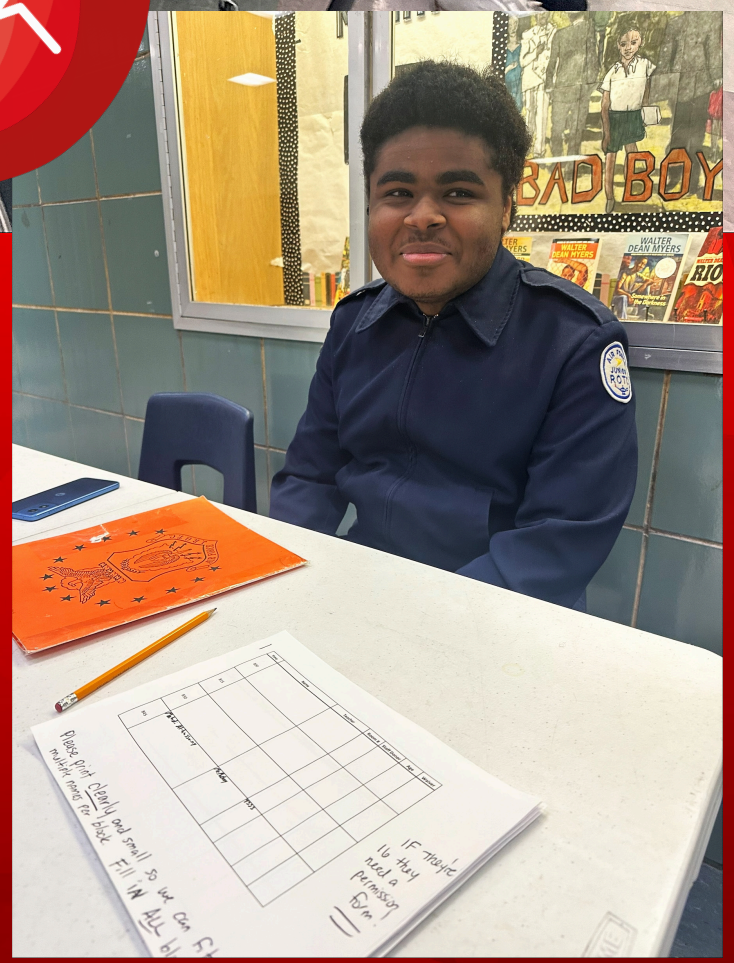
+



BLOOD DRIVE

Savion Day (seen to the right), Diana Maya-Soreque, and Jack Anthony (all seen above) signed up students for the blood drive sponsored by JROTC.

Their efforts highlight the values of service, teamwork, and giving back, exemplifying the JROTC spirit of leadership and responsibility.



Photos by Colette Morton.



American
Red Cross



HOPE begins with you.

Blood Drive **Gateway High School**

Assembly Room 117 East
5101 McRee
Saint Louis, MO 63110

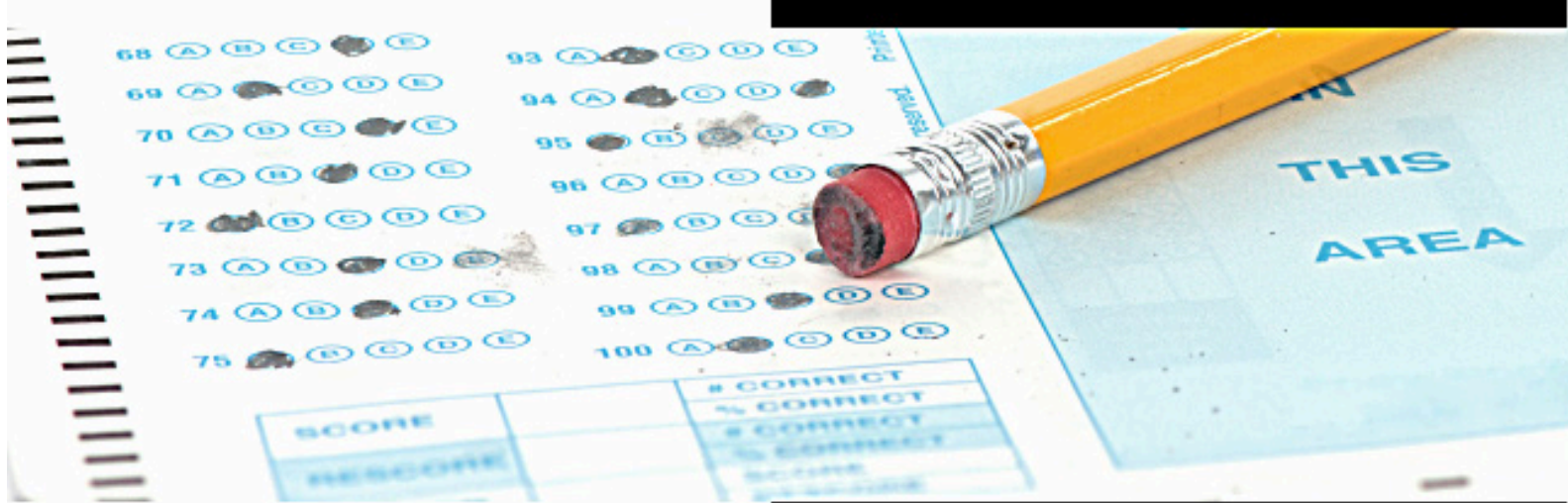
Thursday, March 6, 2025
8:00 a.m. to 1:00 p.m.

Please visit RedCrossBlood.org and enter: GatewayHS to schedule an appointment.

**Give in March for a \$10 Gift Card by email & successful
donations get A1C testing. rcblood.org/March**



Scan to schedule
an appointment.



Need Help with the ACT?

See **Mr. Mitchell** every **Tuesday** in room from 2:10 to 5:00 p.m. Students who are playing school sports or who have their own transportation do not have to stay the entire time!



21 and over club
Marcus Hope

