

Plainview History

JESSE RAY SHEPS
- Editor in Chief -

Plainview is our home and will forever be the place we fondly associate with our childhood. Someday, we will all leave Plainview with great memories of our neighborhood, but we must recognize that, as time passes, the local institutions and general landscape of any area tend to change. For instance, the closing of the popular Plainview Diner and Regal Deli after serving up morning pancakes and hot pastrami sandwiches to hungry community members for the past half century has left many thinking about the sweeping changes taking place in the fabric holding our neighborhood together.

History is something that people tend to view either too narrowly or subjectively in

terms of time. How long does it take for something to deserve to be deemed “historic”? Although these two beloved now-closed eating establishments have cer-



Source: Wikipedia

tainly been an important part of Plainview’s past, they are

both relative newcomers to the neighborhood. For instance, take the Plainview Diner, which opened its doors in 1972. This means that its mouth-

watering cheeseburger deluxe was actually not eaten until

over three centuries after settlers first inhabited Plainview!

We walk the streets of Plainview confident we know everything about our current surroundings. We may know every inch of the modern Old Country Road like the backs of our hands, but what do we know about those who lived on our block two centuries ago? How was life in our town for the average teenager during those early days when Plainview was first established? It’s time to set the dial to our DeLorean with its flux capacitor back to the 17th century so we can find out more.

In fact, according to

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PrePair STEM

CHRISTINE SONG & ISABELLA CHEN
-Managing Editor and Layout Editor -

Started by students at POBJFKHS, PrePair STEM is an organization that aims to promote STEM education and interest in our community. By bringing STEM events to schools, churches, and community centers, PrePair STEM provides opportunities for children to get involved with STEM, equipping them with essential skill sets. Research has shown that exposing children to STEM has “positive impacts across the entire spectrum of learning” (National Research Council). Early exposure to STEM also teaches children curiosity and the critical-thinking skills that will accompany them in the future. The organization’s most re-

cent event took place at the Chanukkah event held by the Mid-Island Y Jewish Commu-



Source: Megan Lee

nity Center. The organization

among young attendees through fun, simple experiments. One of the demonstrated experiments

was creating fake snow, transforming the endothermic reac-

tion between baking soda and shaving cream into an attractive educational opportunity. We had the opportunity to interview POBJFKHS junior Megan Lee, who is the president and founder of PrePair STEM.

Q: Can you tell me a little bit about what you do in PrePair STEM?

A: PrePair STEM is a youth-led organization targeting an increase in STEM education and opportunities in our community as well as other communities across the country.

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Learn more about the new technology used in the 2022 FIFA World Cup on page 17!

Check out the Class of 2023’s Senior Superlatives on page 8!

Read the memorial for beloved teacher Mr. Hanlon starting on page 19.

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THE HAWK EYE

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NEWS

PrePair STEM (continued from page 1)

CHRISTINE SONG & ISABELLA CHEN

-Managing Editor and Layout Editor -

PrePair STEM
Continued from Page 1

We are most involved in our science experiment programs in which our volunteers will visit facilities — such as homeless shelters, religious centers, or community centers — and complete multiple science experiments with students K-6. These experiments could be making lava lamps or creating explosions from baking soda and vinegar. While we mainly focus on running our science experiment programs on Long Island, PrePair STEM has also created other, more accessible ways for our international members to give back to others. This has included our Cards for Kids program, where volunteers made electronic cards for children with cancer to read. Other than those programs, the PrePair STEM team also works on fundraising events and donation opportunities for other members of the community to get involved in helping increase access to STEM activities, supplies, and curriculum.

Q: What inspired you to start this organization?

A: During the summer of 2021, I started volunteering at a homeless shelter, and while talking with the shelter's program associate, I was informed of the lack of STEM-related after-school activities, mostly due to the lack of a STEM education curriculum and people who could implement this curriculum into programs. This led me to reflect on the role of STEM in schools all across New York. Friends from other schools had noticed a lack of STEM programs, especially in their middle and elementary schools. I knew that there was a large population of high school students that were interested in a STEM field and

could use their knowledge to teach younger students in engaging ways. That idea is what got me to start PrePair STEM.

Q: What's one of your favorite parts about PrePair STEM?



Source: Megan Lee

A: One of my favorite parts about PrePair STEM is the science experiment events that we have hosted since the beginning of our organization. Our science experiment event is the first program that we launched, and we have received great reviews from the young students taking part in the program as well as from our volunteers. Both the volunteers and students have lots of fun while learning, and it's nice seeing the students get excited about STEM. I hope to continue to host these events at more locations across New York!

Q: What are some of the organization's goals or ambitions?

A: One of PrePair STEM's goals is to spread our membership base further. We currently have most of our members located in New York, with some members in Canada and Africa.

We hope to gain more members across the United States as well as more internationally. Another major goal is to work with facilities across the nation and hold online STEM programs.

to be updated on any community service opportunities. Currently, PrePair STEM is collecting soda tabs to donate to the Queens Ronald McDonald House and is always open to soda tab pickups or drop-offs. If anyone is interested in donating tabs they can contact us through our Instagram.

Q: Is there anything else you would like to add?

A: I am extremely thankful for all of the facilities we have been able to throw events at and for the amazing executive board that has been working hard to create more volunteer events for our members. The PrePair STEM team is also very grateful for the members of our organization who have taken part in our opportunities and have shown interest in our goals. We are excited about this new year and the opportunities that it will bring!

Thank you for sharing with us, Megan! We wish PrePair STEM the best of luck with its future endeavors!

The more facilities we can reach, the greater the impact that our organization can make.

Q: If anyone was interested in helping out this organization, how could they do that?

A: They could contact me at prepairstem@gmail.com or through our Instagram @prepair2022 to hear about any of our upcoming volunteer events and how they can get involved. Those interested may also message us to be added onto our google classroom



Source: PrePair STEM

POBJFK High School Orchestra Concert

EMILY LUCZAK & ANNA KIM

- Multimedia Coordinator & Staff Reporter -

The holiday season at POBJFK High School includes several different events to get our students and community in the festive spirit. One of these events is through our music department. Annually, our POBJFK Orchestra performs a winter concert, which includes the String Orchestra, Symphonic Orchestra, and the Chamber Orchestra. The concert is conducted and run by Mr. Dustin Bartley, the orchestra teacher at our high school. Mr. Bartley prepares a program of diverse pieces of music to perform at their winter concert. This year's program consisted of a variety of pieces from the string and symphonic orchestra: "March to the Scaffold" by Hector Berlioz, "Frost on the Plow" by Samuel Gelfer, "Poem for Or-

chestra" by John Tatgenhorst, "Sleigh Ride" by Leroy Anderson, and "Symphony No.1" by Joseph Bologne. The chamber orchestra, which is a group of select orchestra students, performed "Overture to Ruslan" and "Lyudmila" by Mikhail Glinka, as well as "Siberian Sleigh Ride" by Paul O'Neill. A yearly tradition in the winter concert is to play "Sleigh Ride" with members of the POBJFK Concert Band. In addition, the song "Frost on the Plow" featured four of our guitarists from the high school's guitar program: Ben Selip, Garren Fiesel, Amrita Grover, and Alec Josen. There was also an electric violin appearance performed by senior Joshua Miao in the Chamber Orchestra's performance of "Siberian Sleigh Ride." More elec-

tric instruments playing modernized music is something that our district should look forward to and see more of in future concerts.

As evidenced by the diverse program of the high school orchestra's winter concert, the music curriculum at POBJFK is changing with the times. Rather than being limited to classical music composed by artists from long ago, our music pieces incorporate a variety of pop, rock, and jazz genres. As well, the usage of electric instruments in the orchestra has been increasing ever since Mark Wood's visit in the spring of 2022. The changing inclusivity and diversity of the music performed by our high school's orchestra demonstrates music's power to bring people together.

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Word Search

G	J	A	D	X	S	V	S	Y	O	D	H	R	G	A	T	J	E	G	P
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P	A	Q	G	Z	E	D	C	X	T	D	F	G	P	G	I	Q	D	N	L
R	A	G	X	W	G	Z	A	G	B	D	F	F	M	L	P	X	M	V	R

VIOLIN
DOUBLEBASS
SYMPHONIC
SLEIGHRIDE
ELECTRIC
WINTERCONCERT

VIOLA
STRING
ORCHESTRA
CONCERTBAND
GUITAR

CELLO
CHAMBER
PERFORMANCE
CONDUCTOR
MUSIC

Return to Pandora

JESSE RAY SHEPS
- Editor in Chief -

With the initial voyage to Pandora dating back to 2009, few students in this building can likely recall sitting in an IMAX theater to experience the visually groundbreaking world that James Cameron first painted in the blockbuster smash hit movie, *Avatar*. Fortunately, this time around, we can enjoy the fantastical science fiction story of survival woven within its sequel, *Avatar: The Way of Water*.

This wildly entertaining and popular film is closing in on \$2 billion in global box office sales, becoming the largest release of the year by overtaking Tom Cruise and his *Top Gun* sequel. My helpful hint is to avoid drinking too much water before hitting the theater- the film is well over three hours long! However, once you put on your 3-D glasses, director James Cameron will beam you to the mystical world of *Avatar*, and every single minute on the screen is a gem to watch. Mr. Cameron's blend of brilliant storytelling, non-stop Hollywood action that few others could create, and groundbreaking technologically advanced filmmaking will simply bend your imagination. There is something for everyone to see here: a lesson on environmental conservation and an emotional love story all mixed within the context of a classic battle of good versus evil.

We revisit Pandora several years in time after we last left

the planet. Jake Sully, the hero who previously transformed from his original human form to become his fluorescent blue Na'vi avatar, now lives happily on Pandora, raising his loving family with his wonderful Na'vi wife, Neytiri. The couple has several Na'vi children, each very much at the center of the adventure in the sequel, as well as a "human" foster son named Spider. The good life in the forest unravels quickly when peaceful Pandora is invaded by the evil colonizing human forces known as the "sky people." This time around, the human invaders are seeking revenge and taking over Pandora to live permanently after they have made Earth nearly inhabitable due to their wicked polluting ways.

To avoid the destruction of the forest people as the returning humans are hunting him, Sully and his family take shelter among water-dwelling reef people who have adapted physically to live and thrive in the water.

The film is visually dazzling. The world imagined by and captured on camera by Mr. Cameron is so intense that there are times when you forget you are watching a film on an IMAX screen in Hicksville and start believing you are swimming in the immersive



Source: Newsweek

ocean landscapes of Pandora.

While the exciting military battle between the Na'vi and the evil humans is the film's ultimate focus, a truly magical part of the film is dedicated to the Sully family becoming better acquainted with their new life in this underwater world. While the connection in the first film was made by the Na'vi to the forest, the sequel provides viewing audiences with a firsthand three-dimensional tour of the illuminated and spiritual

underwater world of Pandora.

Impressively, the film is not the product of simple CGI wizardry. Most of the underwater sequences were filmed by the actors in a 120-foot-long tank, bringing a true reality to the scenes. Knowing the background of the film's composition gives insight into Cameron's painstaking decade-long quest to achieve perfection in this film. According to Newsweek, even accomplished Oscar-winning actress Kate Winslet, who reunited in this film with her former *Titanic* director, reportedly learned to hold her breath for over seven minutes underwater to achieve her dazzling performance.

Avatar: The Way of Water is the first of four potential sequels building on the first film's success. Mr. Cameron's mixture of sea life and sci-fi pushes the boundaries of what an IMAX and 3-D film can do. As he has done many times before with *Avatar*, *The Terminator*, and *Titanic*, it is no surprise to find James Cameron again pushing the envelope of what is possible in storytelling and filmmaking, again reminding us what movies can and should be.

Put on your 3-D glasses while this film is in theaters and find yourself transformed by a fully immersive experience that dares you to dream big.



Source: Newsweek

SPORTS NEWS

The Top Five Sports Moments in 2022

BEN KULE
- Sports Editor -

2022 has been an incredible year in many aspects. In the sports world, we saw some remarkable moments. Athletes made history, made comebacks, joined new teams, and became champions. Here are the top five sports moments of 2022.

Honorable Mentions: Georgia Bulldogs win the National Championship, Colorado Avalanche win the Stanley Cup, Houston Astros win the World Series, Golden State Warriors win the NBA Finals, and St. Peter's goes on a magical run in the NCAA Basketball Tournament.

5. Serena Williams Bids Farewell

There are only a handful of athletes that one can call the greatest of all time in their respective fields, and Serena Williams is one of them. During her incredible 26-year career, she has won 23 Grand Slams, more than any man or woman in tennis history. She announced that the US Open in August would be her final tournament. In the first round, she faced off against Danka Kovinic on August 29 at Arthur Ashe Stadium in Queens, NY, winning both sets 6-3 to advance. The second round was where many thought Serena would play her last match ever, as she had to take on Anett Kontaveit, the second-highest-ranked player in the world at the time. In a very close three-set match, thirty-nine-year-old Serena Williams was able to pull off the upset victory. Unfortunately, she could not advance much further, losing her next match to Ajla Tomljanovic.



Source: TIME

4. Chiefs vs. Bills Playoff Game Becomes an Instant Classic



Source: Buffalobills.com

On January 23rd, the Buffalo Bills and Kansas City Chiefs faced off in the Divisional Round of the NFL playoffs in one of the most exciting games in recent memory. The Bills went 11-6, and the Chiefs went 12-5 in the regular season. Both teams convincingly won their first playoff matches. The two fiery teams were tied 14-14 at halftime. The Chiefs had three third-quarter field goals that helped them take a 23-14 lead before a 75-yard Bills touchdown to Gabe Davis made it 23-21. After a Chiefs field goal, the Bills scored with just under two minutes left in the 4th quarter, adding a two-point conversion to go up 29-23. Then, a 64-yard Chiefs touchdown to Tyreek Hill quickly regained the lead, 33-29. Starting their drive with just over a minute to go, Gabe Davis caught his third touchdown to give the Bills a 36-33 lead with only 13 seconds left. However, with what seemed to be not enough time, Chiefs' quarterback Patrick Mahomes had two big plays to make a field goal possible, forcing overtime at 36-36. The Chiefs won the overtime coin toss, and just needed one more touchdown to win the game, which they got through a touchdown catch by Travis Kelce, winning one of the craziest games in NFL history, 42-36.

3. Matthew Stafford, Los Angeles Rams Become Super Bowl Champions

Quarterback Matthew Stafford spent his first thirteen NFL seasons with the Detroit Lions, but the Lions always failed to surround him with enough talent to truly compete for a Super Bowl. Looking for a quarterback upgrade, the Los Angeles Rams traded for Stafford, trying to give him a chance to win his first Super Bowl. With the help of two of the best players in the league, wide receiver Cooper Kupp and edge rusher Aaron Donald, the Rams went 12-5, clinching the playoffs. The Rams defeated their division rival Arizona Cardinals, next the defending champions Tampa Bay Buccaneers, then their other division rival San Francisco 49ers, and made it to the Super Bowl.

They were set to face the Cincinnati Bengals in the Super Bowl on February 13, which happened to be located in SoFi Stadium, the Rams' home venue in Inglewood, California. Odell Beckham Jr. caught the first touchdown to give the Rams a 7-0 lead, and with a Cooper Kupp touchdown in the second quarter, they led 13-10 at halftime. A 75-yard touchdown by Tee Higgins gave the Bengals the lead back in the third quarter, and they held a 20-16 lead until about a minute-and-a-half was left in the game. Cooper Kupp caught his second touchdown to give the Rams the lead back, 23-20. The Bengals' offense couldn't score in the final minutes, and the Rams were crowned as champions.

2. Aaron Judge Becomes the All-Time AL Home Run Leader

The New York Yankees had big aspirations to win their first world series in thirteen years this 2022 season. To do so, they needed a big season from their superstar outfielder Aaron Judge. Although the Yankees would fail to advance to the World Series, Judge certainly did his part. Known for hitting many home runs, Judge got off to a slow start with just six in May, the first month of the baseball season. He started June with a two-home run game and ended up doubling his monthly total with twelve. Judge went on to hit eleven, thirteen, and nine home runs in the last three months, and fans began to realize he was on pace to hit over 61 home runs, the American League Record. Barry Bonds, Mark McGwire, and Sammy Sosa have all hit more in the National League,

but they were speculated to have taken steroids, so Judge's performance could have been the most home runs scored by a clean player. Judge continued his hot streak into September, reaching 60 home runs by September 20. He just needed one to tie and two to win. However, for whatever reason, he was stuck. He had an eight day drought before tying the record eight days later. A few games later, in the last game of the season on October 4, Judge finally hit another home run, sending Yankee fans into a frenzy and breaking the record with 62 homers. POBJFK High School senior and big Yankee fan Alex Berko said he was "very anxious if he was going to reach it. But after he eventually hit it, I felt proud to be a Yankee fan and confident in the future of our team with our captain."

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1. Lionel Messi, Argentina Win the World Cup



Source: Business Today

Lionel Messi has always been thought to be one of the best soccer players ever. Yet, this debate may now be over, as he reached new heights at thirty-five. Messi has collected plenty of trophies with his two career clubs, FC Barcelona and Paris St. Germain, as well as individual awards, winning seven Ballon D'ors, which are given to the world's best soccer player of the year. However, one thing missing from his collection was a World Cup trophy from his home country of Argentina. In 2022, he had one last chance. The tournament began on November 22nd, when Argentina faced

Saudi Arabia. The match shocked the world, with Saudi Arabia defeating Argentina 2-1. This made Argentina nervous, but they defeated Mexico and Poland in their next two games, enough to advance to the tournament's knockout stages. Now, four straight victories were needed to win the World Cup. They started by defeating Australia 2-1. In the next round, they went up 2-0 against the Netherlands before they tied it late at 2-2. The match went into penalties, where the fifth shooter, Messi, scored to seal the deal and advance. The Argentinians got off to a hot start in the semi-finals and defeated Croatia 3-0.

They went up against France in the Finals on December 18. Argentina led 2-0 at halftime, one of their goals coming from another Messi penalty. France struggled until back-to-back goals by France's Kylian Mbappé tied it 2-2. Each team added a goal during the overtime period of the exciting match, and it went to a penalty shootout tied 3-3. With the help of two penalty saves by Argentinian goalkeeper Emi Martinez, Gonzalo Montiel scored the final goal to win the World Cup officially. The world rejoiced as Messi finally won a world cup, and Argentina became champions for the first time since 1986.

Senior Superlatives

A special thanks to Joshua Ackerman for providing this list to the Hawkeye and for allowing us to report these winners promptly.

Best Dressed Maggie Wang Noumaan Saljooq	Best Hair Jesse Sheps Ryan Flood	Most Likely to Brighten Your Day Kenneth Sessler Melana Sheldon	Most Likely to Travel the World Jesse Sheps Kevin Eisenberg	Cutest Couple Gabriella Bosco & Nathan Sica Maggie Wang & Joshua Miao
Broadway Bound Blake Friedman Monty Boxer	Most Versatile Thomas DiLeo Zachary Zutler	Most Likely to Succeed Cooper Davis Kevin Eisenberg	Most Likely to Have Their Own Reality TV Show Jared Budiansky Natalie Phillips	Tweedle Dee & Tweedle Dum Constantine Vontas & Kimon Vontas Dale Kim & Marcus Chen
Class Clown Louis Shaw Zachary Vitti	Nicest to Know Kenneth Sessler Melana Sheldon	Most Outgoing Thalia Merseburg ToniAnn D'Onofrio	Most School Spirit Andrew Roberts Joshua Ackerman	Best Dancer Daniella Zago Kenneth Sessler
Most Athletic Ava Matlin Cooper Dorf	Best Singer Jordan Goldklang Monty Boxer	Best Laugh Divbani Sabharwal Emily Weprin	Most Likely to Out- smart Einstein Cooper Davis Kevin Eisenberg	
Best Eyes Cooper Kelly Kerry Cohen	Best Sneeze Emma Corbisiero Tyler Malat	Most Artistic Morgan Beitler Yeonwoo Lee	Class Cutie Alexander Briganti Kenneth Sessler	
Nicest Smile Gabriella Bosco Kenneth Sessler	Most Changed Since Freshman Year Hunter Galan Kevin Eisenberg	Best to Bring Home to Parents Kenneth Sessler Melana Sheldon		

Sudoku

		2				4	5	
	3	9	4	6	2			
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		8		7				
4	6						9	1
				8		2		
8				5			3	
			1	3	9	7	8	
	5	3				9		

OPINION

Is It Safe to Invest in the Stock Market Early in 2023?

THOMAS DILEO
- Staff Reporter -

For the past decade, Americans have enjoyed the longest booming market in history. Even amid the COVID-19 pandemic of 2020, when the Dow Jones Industrial Average suffered a loss of 37% of its value and the S&P 500 lost 34%, stocks quickly rebounded in 2021. More investors began buying stocks than ever before. However, in 2022, the S&P 500 plummeted an astonishing 19.4%, a decline the S&P 500 has only seen seven times since its introduction in 1957. New investors faced a reality check: the stock market is not always positive. Despite the recent market drop, it is important to understand that the stock market fluctuates.

At such times, we must refer to the most well-known investment philosophy, “Buy low, sell high,” which advocates buying stocks at a lower price than you can later sell them. In 2023, the S&P 500 is up 4%, so how safe is it to invest in the stock market? On the one hand, there are encouraging signs that inflation is slowing. According to the U.S. Bureau of Labor Statistics, December 2022 marked the largest monthly decrease in the consumer price index since April 2020. Inflation has been ranked



Source: Google

as one of the biggest causes of the decline in the S&P 500 in 2022. For major companies like Amazon, inflation has been the root of a major slump. CFO Brian Olsavsky said in Amazon’s latest quarterly update that «broad-scale inflation, heightened fuel prices, and rising energy costs have impacted our sales growth.» Thus, if inflation continues to calm down in the coming months, companies will experience a higher rate of growth. Although recent news indicates a drop in inflation, fears that the

U.S. will soon enter a recession are growing. Brian Moynihan, CEO of Bank of America, recently warned market analysts of a mild recession, noting that Bank of America is preparing for an economic downturn. Additionally, Jamie Dimon, CEO of JP Morgan Chase, has confirmed that he expects a 2023 recession. According to The Wall Street Journal, a recent survey of 23 economists at major financial institutions has shown that two-thirds believe a recession is on the way this year.

All worries aside, a recession is usually short-lived.

Five of the last 10 U.S. recessions have lasted for less than eight months, and stocks have quickly recovered. While the S&P 500 may experience a downturn in the coming months, it will likely recover relatively quickly. For long-term investors who expect to withdraw their stocks far into the future (15-20 years), investing at such a low point in the market timeline will be beneficial, even with a short-term recession. For those who expect to pull their investments from the market sooner, a less-volatile investment option may be the smarter move.



Source: New York Post

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Plainview History (continued)

JESSE RAY SHEPS
- Editor in Chief -



Source: Plainview Old Bethpage Public Library



David Goldklang with the Plainview Hawk
Source: Jesse Ray Sheps

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the Plainview-Old Bethpage Chamber of Commerce, Plainview has a long and rich history dating back to 1648, when a settler from Wales named Robert Williams first arrived on the scene and started to purchase large parcels of land in the surrounding area. The land was considered to be perfect for farming because of a small pond that was used as a source of water by local Native Americans. The entire settlement we call “Plainview” was originally called “Manetto Hill” by its local inhabitants. The earliest settlement records from our area show that the name “Manetto Hill” was listed on a deed from as early as 1695, which was part of the original purchase for most of the land within

the general area of Bethpage.

According to Newsday, which ran a report on Plainview back in 2008, the arrival of the Long Island Rail Road in Hicksville back in 1837 had a huge impact on the development of our local community. It was instrumental in the growth of local farming in Plainview. At the time, our town was still generally known as “Manetto Hill” until approximately 1885, when the community was essentially forced to change its name to “Plainview” because other towns had been using this original name and residents desperately wanted a post office. Finally, the town of “Plainview” was born.

If you lived as a teenager in Plainview in the early 1900s, you would not have been working at Catch the Wave, Shop-Rite, or Family Bagel. Instead, if you needed to make a few extra nickels to help support the family, you probably would have been working with other local teenagers all day long, helping

to make pickles! According to Money Magazine, at the turn of the 20th century, Plainview was a huge source of pickle production as local factories took advantage of the abundant supply of neighborhood cucumbers. Unfortunately, the glory days of cucumber farming did not last very long, causing our local Plainview ancestors to eventually switch their focus to growing vast amounts of potatoes. Eventually, the transition of Plainview from a farming community to a suburban commuting community occurred right after the end of World War II. The Plainview Old Bethpage Chamber of Commerce reports that the area experienced a local housing boom during this time. Farmers who had sadly lost their crops of cucumbers and potatoes were forced to sell their land to local developers. During this period back in the 1950s, Plainview experienced a rapid population expansion from about 1,155 to 35,000 residents- which is only a few thousand away from the number of Plainview residents today- 27,100. It was during this same time when most of the land we recognize was commercially developed or designated for the parks we now use for recreational purposes. Just imagine, about 75 years ago, a Plainview teenager was throwing a ball around on the same grassy fields that we use today.

The Plainview-Old Bethpage library first opened its doors back in 1956 but moved several times before finding its current home in 1963. The library even plant-

ed a time capsule on its location in 1986 for someone to find someday. However, one doesn’t need to dig in the ground to learn more about Plainview’s splendid past. Some of the most interesting stories about our hometown can be uncovered just by asking some of the residents who have lived here for many decades. Lifelong Plainview resident David Goldklang remembers that there were two different movie theaters in the middle of Plainview back when he grew up in the late 1980s. Teenagers would meet at the movies and ride bicycles to the Plainview Diner. Mr. Goldklang also recalls that the Plainview bowling alley, which has since closed, was also a large part of the social scene growing up. Back when he was in high school, there were two different schools locally, “Plainview” and the separate “JFK,” each in its own building. He viewed the two schools as friendly rivals in many sports, but they played together in some sports, including football and lacrosse, the latter of which Mr. Goldklang played himself. He fondly recalls that local kids used to meet at the Kennedy parking lot, which was affectionately known as the “KPL.”

Dr. Martin Luther King, Jr., once famously said, “We are not makers of history. We are made by history.” As we celebrate the past of Plainview, we should never forget that we can make the future anything we want for our community. We should all continue striving to make the future a bright one for all of our residents.



Source: Plainview Old Bethpage Public Library

Winter Night of A Cappella: 2023

MARK ALTSTAEDTER
- Editor in Chief -

Returning to school after a break can be a challenging process as one realizes that midterms are rapidly approaching. However, that blow was softened by a captivating and dynamic Winter Night of A Cappella this year. The night included performances from eight different groups, each performing three songs. These ranged from 80s rock hits like Bon Jovi's "You Give Love a Bad Name" to recent pop songs like "Red Desert" by 5 Seconds of Summer. After months of preparation, the groups did not disappoint, treating the audience to a fun and entertaining night of music.



Source: Salem Ferreras

To gain a better understanding of what goes into a performance, I interviewed Sneha Raj— technical coordinator for Choir and A Cappella, vice president of lighting for the Media Club, and member of A Cappella group "Under A Rest," where she not only performs, but also arranges music. Sneha shared that "it's very interesting to be on both sides of the stage, as both a performer and a 'techie,' and it's an experience that definitely gives me perspective on what it takes to run all of the musical productions being put on at school. As technical coordinator, even while I am on stage, I am tasked



Source: Salem Ferreras

with making sure that everyone working stage and house lighting on shows in the auditorium (including myself) knows exactly what to do and when to do it. I communicate with both Mr. Paltrowitz (Choir and A Cappella advisor) and Mrs. McCarroll (Techies/Media advisor). Being on both sides of the stage is an experience that I love. Still, it is very demanding, because, in addition to knowing my music and choreography on stage, I am responsible for knowing who is behind the lighting board and training them to ensure they know their cues and how to successfully navigate the board for the duration of the show. My role in both clubs, while challenging, is something that I absolutely love and look forward to continuing while I'm here at JFK." Everyone involved in the A Cappella program seems to truly enjoy it. To elaborate

more on that, I spoke with Noteworthy and Under A Rest soloist Jamie Radisch. When asked what A Cappella means to her, she said, "A Cappella is really such an amazing experience, and it is so much more than a performance. The community is so great, and you create such a close bond within your groups to last a lifetime." This point is especially clear when alumni are

A Cappella: An Inside Perspective

ABIGAIL NACHT
- Contributor -

Dozen individual voices came together to form a recognizable melody. Performing the pieces were the students who spent countless hours organizing, reorganizing, teaching, and memorizing these songs. The Winter Night of A Cappella took place on Friday, January 6th, and the eight student-run a cappella groups had the opportunity to showcase the set list that they have been perfecting since August. Each group has its own style, which influences the songs that they perform and the outfits that they wear.

Throughout my time as a member and now board member of the group Drastic Measures, I have worked with an extremely talented and motivated group of individuals. Arrangers spend countless hours compiling individual notes into the pages of sheet music that eventually resemble popular rhythms. Each voice part plays a role in developing the sounds that make the music into music. Our Sunday afternoon rehearsals are spent not only looping verses and practicing choreography but forming a group in which everyone knows they can rely on each other. After months of collaboration to develop the arrangements to the songs and commit them to memory, I am extremely proud of all that we accomplished.

invited onto the stage at the end of the performance to sing the group's traditional song. Members, old and new, embrace onstage, and it is clear that the group's bond runs deep.

The A Cappella program always puts on a great show, and WNOA 2023 was no different. I really enjoyed this performance and can't wait to see what these groups have in store for the spring! I would encourage all students to attend at least one of these performances during their time at POBJFK.

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Source: Salem Ferreras



Source: Salem Ferreras

Club Spotlight

The Senior Citizen Tea

JOANNA CHERTOFF
- Secretary -

On December 15, 2022, the Community Service Club hosted its annual Senior Citizen Tea at Jamaica Avenue Elementary School. This was an amazing opportunity for any student interested in interacting with and assisting senior citizens. To attend, students brought desserts of their choice to provide to the guests. Members of the Community Service Club participated as waitstaff, socializers, or drink makers, as well as set up and clean up crew. The event was in the gym and filled with snowflakes, centerpieces, fake snow, balloons, and holi-

day lights. It was a true winter wonderland! The senior citizens were overjoyed with the prizes, which included gift cards to local stores. The club members distributed hot chocolate, baked goods, and cards to the seniors. I had the opportunity to volunteer at the event, and my favorite part was seeing the smiles on the guests' faces and the excitement they shared in winning the raffles. It was a wonderful experience to give back to the seniors in our community. We hope our senior citizens will continue to attend this event for many years and join us in the spring for the prom!

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Source: Pobschools.org

DECA Dingo

LENA HEMMERDINGER
- Treasurer -

DECA Dingo is a DECA fundraising event that took place on December 7th and was held virtually this year. Anyone could participate in this event, not just those already participating in DECA. Dingo is held by DECA advisors and uses a virtual bingo website that gives everyone their unique board. It lasted about an hour, and six rounds were played using different varieties of bingo. Some different rounds played were "X," full board, and the full outside of the board. Once

you win a round, you enter your name into a Google form and pick which raffle you want to enter. To be entered, you need to take a picture of your winning board and send it to a DECA advisor or board member. The more rounds won, the more opportunities you have to win the raffle. When all the rounds were finished, virtual wheels were spun to decide the winners of each raffle. Prizes varied from gift cards to bikes. DECA Dingo is held annually and is an entertaining evening for all involved.

Number Bingo 1-75				
B	I	N	G	O
6	29	45	51	73
3	24	37	49	74
10	28	Free!	58	63
13	18	31	56	69
14	26	40	57	67

National Art Honor Society

ABIGAIL NACHT
- Contributor -

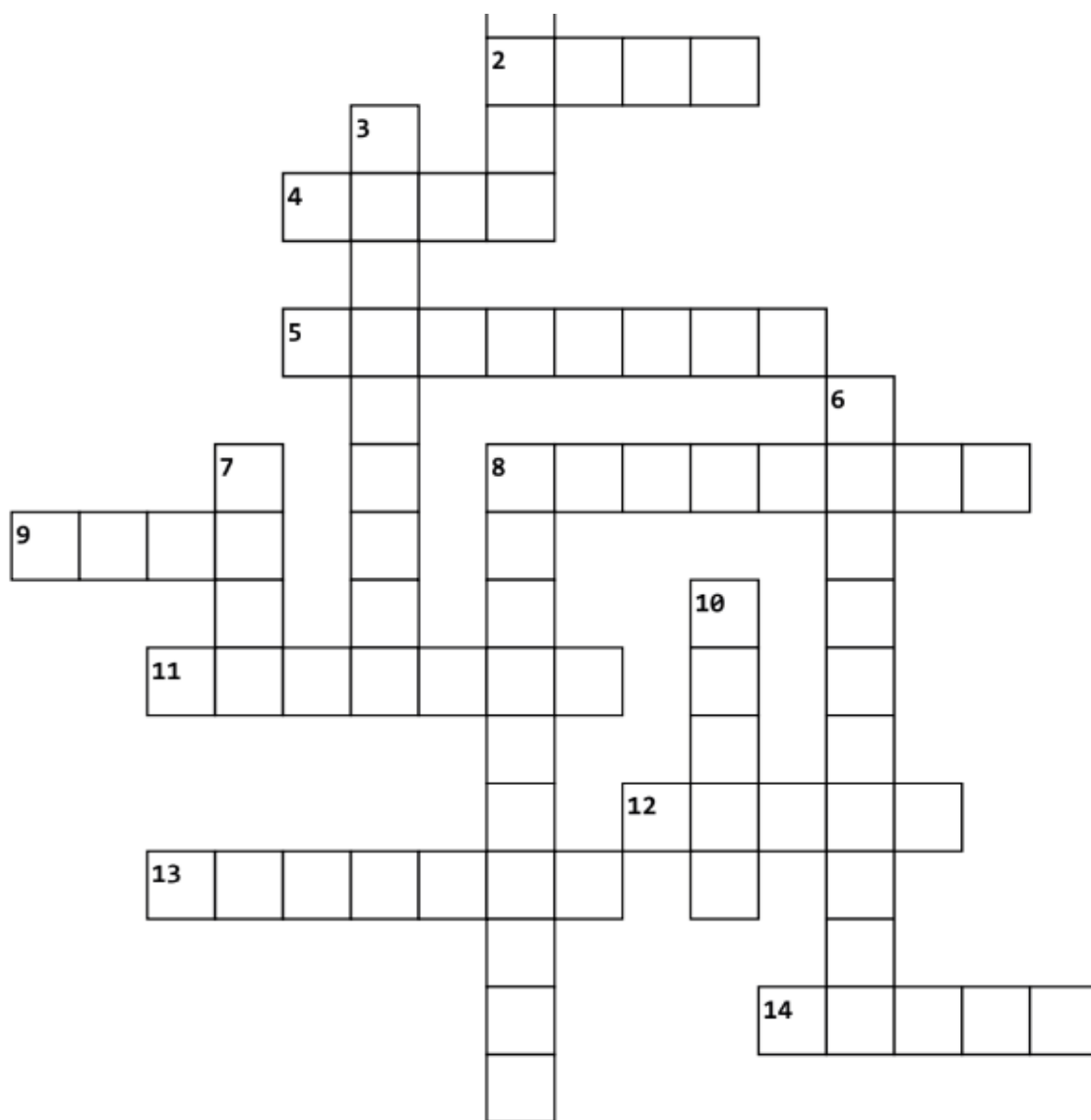
The National Art Honor Society (NAHS) is one of the many honor societies here at JFK High School. The NAHS's creative and hardworking members strive to give back to the community and make the school a more beautiful place to be. Along with painting the murals that adorn the halls and decorating the courtyard, the National Art Honor Society participates in the NAHS 6x6 Collaborative Installation at Heckscher Art Museum each year. The Installation was exhibited in the POB Central Office Atrium during October and is displayed in each of the ten schools

involved. Ms. Elder, the National Art Honor Society Advisor, was this collaboration's original creator, which now encompasses the work of students at high schools across Long Island. With the mission statement "CONNECT, COLLABORATE, CREATE," the 6x6 Collaborative Installation represents a way for art to unify our communities and connect us with others who share our passions. This year, the opening for the 6x6 Collaboration Installation will be at the Heckscher Museum of Art on Thursday, May 18, 2023, at 4:00 PM. It will be exhibited through Sunday, May 21, 2023.



Source: Abigail Nacht

Valentine's Day Crossword



Across

2. color made from red and white
4. Written notes given on Valentine's Day
5. Profession that receives the most valentines
8. The month of Valentine's Day
9. Means hugs and kisses
11. Type of gift that people spend the most money on for Valentine's Day
12. A common symbol for love
13. The most popular type of chocolate
14. Sweets gifted on Valentine's Day

Down

1. Winged infant who carries a bow
3. Will you be my ___
6. State with the largest number of chocolate makers
7. The flower associated with love
8. Valentine's Day is on the ___ day of the 2nd month
10. Birds associated with love

Film House Club: Winter Watch Event 2022

The POBJFK Film House Club hosted its annual winter watch event. This year's event focused on the animation process behind the film Frozen 2. Club members gathered around cups of hot chocolate in discussion groups- each named after a different character from the film and hosted by different board members. The board ran a smooth discussion of how different aspects of the movie impacted the viewing experience of club members in various ways. Members looked at the intent behind the filmmaker's actions and learned about the backgrounds of the film's cast. The meeting room was decorated with several characters from the film and bright blue tablecloths. Members learned about the different voice actors in the film and their different methods. The event ended with a giant Kahoot where members could show off their movie knowledge about actors and the animation process for a Frozen-themed prize.

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Source: IMDB.com

Spanish Honor Society Food Drive

The Spanish Honor Society called on its members to donate non-perishable cans of food to help those in need, primarily those in Spanish-speaking parts of our Long Island community. Members donated their canned goods to Mrs. Ida, who, alongside her board, packaged the cans and prepared them for processing at the Long Island Cares facility in Huntington Station. Cans ranged from potatoes to rice to much-needed baby foods. Long Island Cares was founded in 1980 by Grammy winner Harry Chapin. The organization provides food and other necessities for those facing food insecurity. In 2021, the organization

gave away over 11 million meals. Long Island Cares has noted that 54 percent of the community they serve has a Hispanic background. The effort was a great success, and Mrs. Ida decided to continue the fun by allowing club members and school faculty to guess the amount of food donated, in pounds, for a Twizzler prize! Mr. Cestaro guessed 362lbs, Mr. Rivera guessed 410lbs, student Cameron Garvey guessed 240lbs, and Ryan Tucci guessed 173lbs. But senior Jordan Goldklang guessed the weight of 513 pounds, winning the Twizzler prize! He told Hawkeye that he "got lucky" and "didn't even remember the number" that he guessed.



Source: Licares.org

Research

Advancements in Sports Technology

CHRISTINE SONG
- Managing Editor -

With technology advancing in various fields, ranging from medicine to agriculture, the sports industry is yet another area where significant technological developments have been made. In the 2022 Qatar FIFA World Cup, South Korean athlete Hwang Hee-Chan's GPS vest was revealed when he celebrated his goal against Portugal. Generally hidden under the players' jerseys, the vest generated confusion amongst viewers, as most were unfamiliar with this technology. However, technology such as Hwang's GPS vest has already established a presence in sports teams.

Wearable technology is one clear example of how technology has affected the world of professional sports. As the name implies, wearable technology is worn on the body to measure physical performance during activities. Heart rate monitor straps and GPS vests are typical representations of this technology. GPS vests contain a pod between the wearer's shoulder blades, allowing for optimal signaling with GPS satellites. Worn during official games or practices in numerous sports including football, soccer, and basketball, the vest usually holds GPS technology, an accelerometer, and/or a magnetometer. These de-

vices track thousands of data points per second, allowing for the analysis of "total distance, top speed, number of sprints, sprint distance, power, load, intensity, and more" (Catapult One). Smart Swim Goggles are another form of wearable technology. It has an AR (augmented reality) display in the right goggle, recording and showing the swimmer's stroke rate, distance, pace, and time while they train. In football, NFL-approved RFID trackers are installed in the player's shoulder pads, tracking data such as passing rates, speed, and rushing attempt yards.

Wearable technology allows coaches to design personalized training plans according to the players' limits. In the same vein, this technology can also ensure that the player is not straining themselves during practices, preventing injuries that often accompany overexertion. The Everton Football Club details that changes in performance data can alert coaches when a player may be hiding an injury. This enhanced comprehension of when proper rest or light practice is necessary prevents further harm to the athlete. Quantifying the results of wearable technology, Forbes reports that the Toronto Raptors had "a high rate of player injury dur-



Source: Reuters

ing the NBA Eastern Conference Atlantic Division contest" in 2012. Still, following the use of wearable technology, the team saw the "least amount of injuries in the 2014 season compared to previous years." The Florida State Seminoles also decreased their soft-tissue injuries by 88% following the implementation of wearable technology (Online Master of Athletic Administration). Moreover, precise performance metrics have not only allowed increased live recognition of subtle records during broadcasts, but technologies such as RFID trackers have allowed player stats in fantasy football to become much more accurate.

While advancements in sports technology benefit athletes in the shape of wearable technology, some developments may cross the line of fair play during competitions. "Technological doping" defines the advantage sports technology may give an athlete. After its debut in 2008, the use of Speedo/NASA's full-body swimsuits at swimming events resulted in the shattering of multiple records. Nearly 98% of the swimming world records were broken by swimmers wearing this suit at the Beijing Olym-

pics (The GIST). These suits -- made from either polyurethane or neoprene material -- cut down on fatigue, reduced skin friction drag, and enabled greater buoyancy/speed (NASA). Consequently, FINA, the international governing body of swimming, banned the swimsuits, calling it "doping on a hanger" (NY Times). A similar controversy arose in 2020 when Eliud Kipchoge set a record for finishing the marathon in less than two hours. The runner's shoes, Nike's VaporFly, boasts improved efficiency of about 4%, reducing the energy lost "as the foot hits the floor... launching the athlete forwards into the next stride" (Independent). World Athletics (the sports governing body for track and field) responded by banning these Nike prototypes.

When wearable technology bestows an athlete with improved insight into their limits and growth, it simply records. However, controversy begins when technology (such as advancements in textiles/materials) improves an athlete's performance, and its effect is comparable to performance-enhancing drugs. The definition of an unfair advantage is ambiguous. Still, with the inevitable evolution of sports technology, officials must soon determine the extent to which sports technology crosses the line of equality.



Source: Everton Football Club

Nanotechnology in Sports

LEILA LIU
- Staff Reporter -

With the noticeable improvement in the variety of state-of-the-art sports equipment and technology comes the rise of new innovations like nanotechnology. This innovation- unnoticeable to the human eye- is a vital part of many types of modern-day sports equipment and has brought many advantages to athletes and avid sports fans worldwide. High-tech equipment reinforced with nanotechnology is used in a variety of sports, for example, bicycles, boats, golf clubs, skis, etc.c

Cadel Lee Evans and Floyd Landis, two cyclists who have won competitions such as Tour de France, rode on the BMC SLC01 Pro Machine bicycles which, according to Nanowerk, a platform dedicated to educating and inspiring nanotechnology-related endeavors, “weighed just 1055 grams (size 51), but possessed 400 times greater tubular strength than steel.” Their article “Nanotechnology in Sports Equipment: The Game Changer” shares how we achieved such a feat. It was due to CNT incorporated plastic frames. CNT, or carbon nanotubes, are sheets of single-layer carbon atoms or graphene rolled up into a cylindrical molecule. CNT is the most widely used nanotech in sporting equipment. According to nanowerk, “They are 100 times stronger (than conventional materials) but 6 times lighter than steel and as stiff as diamond, which makes them an ideal component for making sporting equipment where low weight and high strength are of prime importance.”

Along with cycling, nanotechnology has also been implemented in tennis. For example, famous tennis player Roger Federer, a past winner of Wimbledon, uses a nano-enhanced Wilson nSix-One Tour 90 racket. The Wilson nSix-One Tour 90 racket, according to the same article, contains materials such as silica nanoparticles, with this addition, these “racquets are more stable; stronger and have 22% more ball-hitting power than other non-nano based racquets.”

However, when presented with this game-changing deviation to what is considered ‘normal’ equipment (consisting of a less advanced structure) comes this argument- “Should we allow nanotech into professional and prestigious competitions?” and “Does it give athletes an unfair advantage and diverge from the measurement of skill and athleticism?” Some officials seem to think so and are going so far as to ban athletes from participating with the help of nanotechnology. Take, for instance, the Guardian’s article, ‘Does nanotechnology offer athletes more than a sporting chance?’ assessing Speedo’s LZR Racer bodysuit coated with water-repelling nanoparticles and polyurethane panels which improve swimmer’s speed, buoyancy, and overall performance. According to this article, this suit was “worn by more than 90% of the gold medal swimmers at the Beijing Olympics in 2008... After 168 world records were broken by competitive swimmers wearing such suits, Fina (Federation Internationale de Natation), the sport’s international



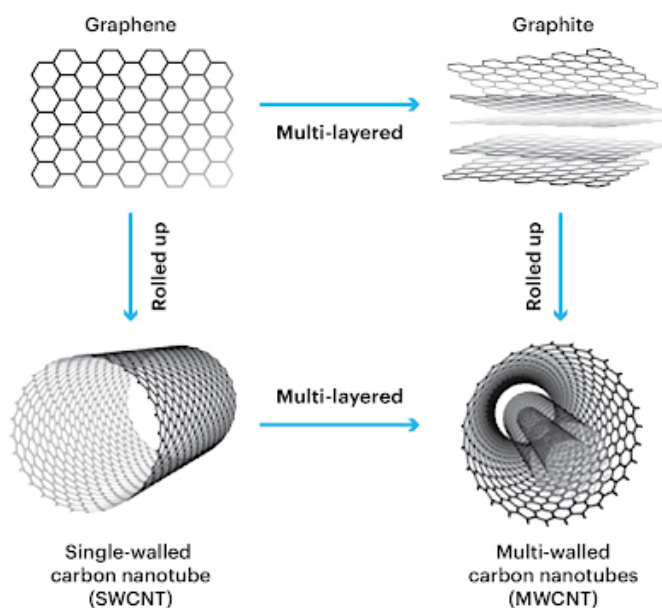
Source: The Guardian

governing body, banned ‘non-textile’ suits in 2010 for being a technical aid that gives competitors an unfair advantage – so-called ‘technology doping.’”

Whether it is giving an unfair and unjust advantage is still under much scrutiny and debate. Certain figures such as the World Anti-Doping Agency’s senior manager of media relations and communications, Terence O’Rork, and Jim Parry, professor of Olympic studies 2012 at Gresham College, London, and a professor of philosophy in the faculty of physical education and sport at Charles University, Prague even argue that it does not violate the World Anti-Doping Code at all and is important to the development of the modern sporting industry. Jim Parry is quoted as saying, “simply trying to enhance performance, or gain an advantage, is OK – that’s what we are all trying to do via sports science, sports medicine, training, and coaching, etc. There’s a distinction between doing something that’s against the rules and introduc-

ing some new thing that’s not actually (yet) against the rules.”

Without the use and implementation of innovations, how can we ever advance technology in our athletic activities? Why can’t we make the same argument for certain running shoes, the difference in the infrastructure of pools, and the variety of fabrics used for uniforms? All the materials used today drastically contrast to ones used decades prior because they are deemed to help improve in-game performance, so why should only nanotech experience the persecution? As the competitive world around us advances, including industries such as esports, video gaming, and virtual reality, why should the vast majority of physical sports be barred from doing so as well? In an interview for the Guardian, British Philosophy of Sports Association’s Stephen Mumford says that “sporting bodies have a long tradition of lagging behind technological developments,” and for athletes around the world, I don’t think they could agree anymore.



Source: Tuball



Source: Gates Carbon Drive

Robots in Sports

ISABELLA CHEN
- Layout Editor -

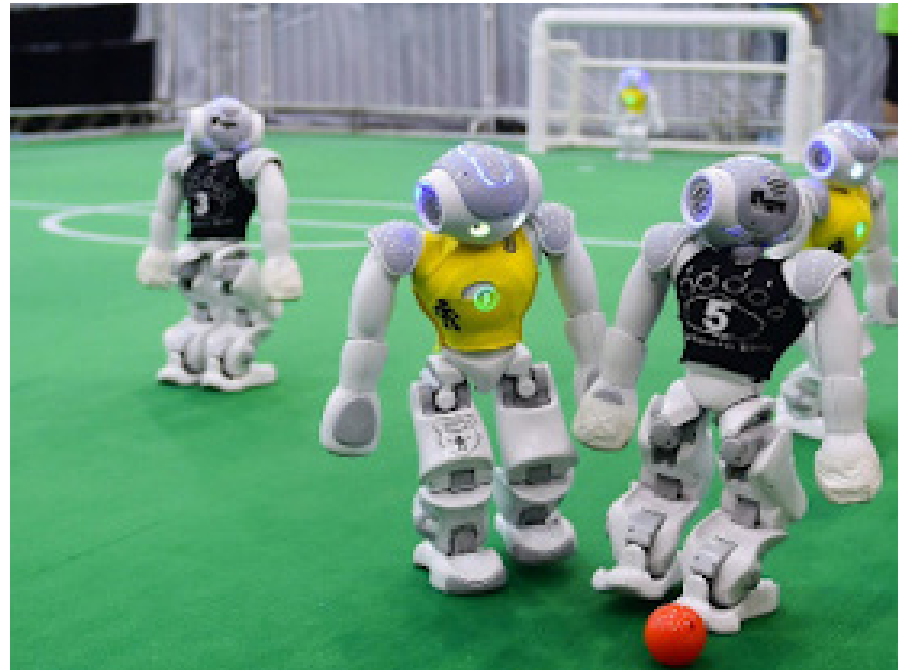
Robotic tackling-training dummies and robot soccer tournaments might sound like a thing of the future— but they're already here. The involvement of robotics in sports has been steadily increasing without an end in sight. These robots play varying roles in sports, from being remote-controlled to being reliant on AI. Let's look at some robotic athletes, training partners, and umpires, and talk about what the future holds for robots and sports.

RoboCup - Robot Soccer Tournaments

RoboCup, established in 1997, is an initiative to create a team of robots capable of defeating the human World Cup champions before 2050. As explained on their website (robocup.org), their purpose is to “promote robotics and AI research” through the popular sport of soccer. They have held numerous competitions with multiple leagues, reaching people from all over the world.

The games are pretty comical, with robots falling over

every so often as they slowly shuffle across the field. They also aren't advanced enough to strategize or work with other robots. They have successfully garnered attention for robots, with videos of RoboCup games reaching a large audience, like the final for the RoboCup German Open, which has 1.1 million views on YouTube. These robots have some ways to go before they can surpass human athletes, but Robocup games are undoubtedly adorable.



Source: Robocup

MVP|SPRINT - Robotic Football Tackling Dummy



Source: NPR

Advertised as the “future of training,” the MVP|SPRINT is a robotic tackling dummy meant for football training. According to Mobile Virtual Player's (MVP) website, the SPRINT “was designed with high schools in mind” and meant to be a budget-friendly and safer way of training young athletes. Their purpose is to reduce player-on-player contact since nearly half of all concussions in football happen during practice. The SPRINT was

used by the Dartmouth College Football team, where the dummies reduced concussions by 58%.

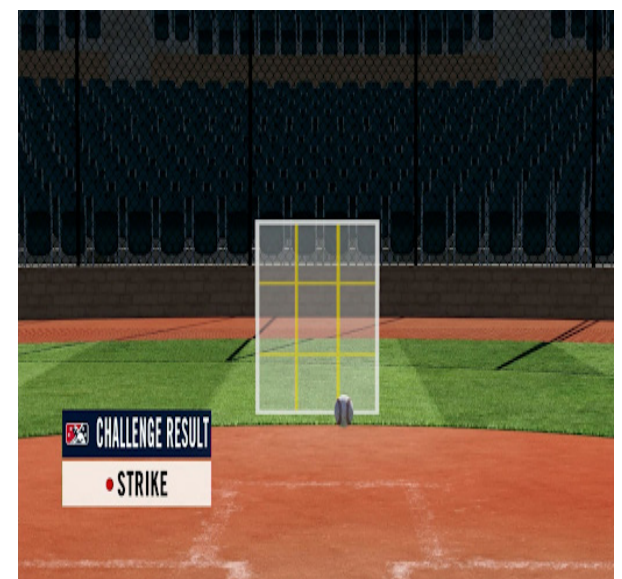
These dummies are remote-controlled and self-righting, “running” across the field with speed, weight, and agility that simulates a human player. Buddy Teevens, Dartmouth football head coach, explained in an interview with National Public Radio that short of throwing a football, the robotic dummy can replicate any other play.

“Robot Umpires” - The Future of Major League Baseball?

“Robot umpires,” or automated ball-strike systems, could be introduced to Major League Baseball in the 2024 season, according to MLB Commissioner Rob Manfred. In an interview with ESPN, he explained that this development's main purpose is to decrease the time of games. The MLB uses human umpires to judge whether pitches land inside or outside the strike zone.

These “robot umpires” won't exactly be a machine behind the plate. Instead, they will probably be implemented as automated ball-strike systems (ABS), which are similar to systems used for other

sports (like the Hawk-Eye system for tennis). According to the MLB News, this system allows human umpires to stay behind the plate as usual. ABS will determine if a pitch was a strike or ball and relay this to the umpire through an earpiece. It also brings another aspect to the conversion — an ABS challenge system, allowing players to challenge the umpire. Human umpires will still be needed, making calls if the batter swings, hits a foul ball or tip, etc. According to CNET, ABS has already been tested in minor leagues, so it might not be long before it joins the major leagues.



Source: MLB

Innovations at FIFA World Cup Qatar 2022

CONNIE CHOI
- Managing Editor -

Innovative additions to the FIFA 2022 Qatar World Cup - notably the semi-automated offside technology and Adidas' official match ball - offered an exciting new World Cup experience for players and fans alike.

Official Match Ball



Source: FIFA

Al Hilal ('the dream' in Arabic), Adidas' official match ball for Qatar 2022™, was the latest addition to the team of innovative technology for the Qatar World Cup. It allows the detection of tight offside incidents with an inertial measurement unit (IMU) sensor placed inside the ball. Included in the ball is also an ultra-wideband (UWB) sensor. It is known to be superior to GPS or Bluetooth for precise

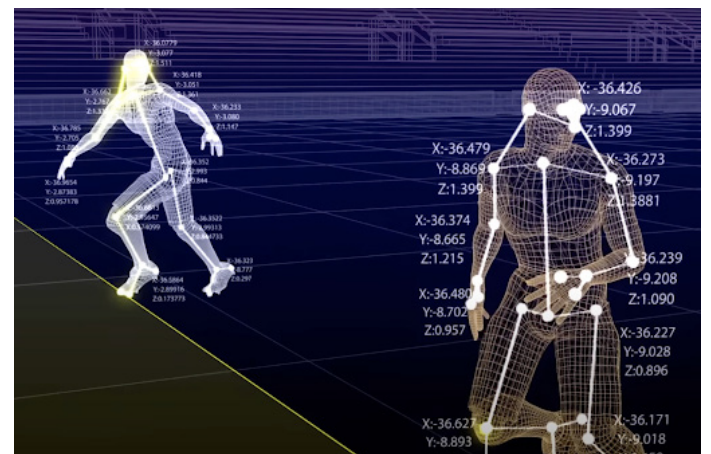
positional data with efficient transmission allowing constant tracking of the ball's position. According to FIFA's official website, the sensor sends precise data from the ball to the video operation room 500 times per second.

The match ball includes a device designed by KINEXON, a leading provider of performance-tracking technology. The device is kept centered in the ball with the help of Adidas' suspension technology. The sensor – weighing just under 0.5 ounces – has undergone extensive testing to ensure that the device does not interfere with gameplay. Blind player testing has been conducted with the help of clubs in places such as Spain, Germany, and England. The tests were carried out to see if players could tell the difference between “normal” balls

and those with the devices. The match balls were also tested by mechanical shooter testing, and the flight of the ball was evaluated with high-speed cameras, ensuring that the presence of the sensor did not create abnormal flight paths. Before the Qatar World Cup, the ball sensor was used in a Liga Portugal relegation match earlier in 2022. The intensive testing and evaluation of the technology led up to Al Hilal's debut on the World Cup Stage.

The intricate sensor technology was coupled with optical camera tracking from Hawk-Eye, a system well known for its work in tennis.

The twelve Hawk-Eye cameras around the stadium track the ball and each player 50 times per second. The black harness that the players can be seen wearing are GPS tracker vests that help with this process. Twenty-nine separate points of the players' bodies are tracked, producing tactical data (like space control, pressing, ball gains/losses, and counters) for team managers and trainers.



Source: FIFA

Semi-Automated Offside Technology

VAR technology has been a support tool for World Cup officials since the 2018 FIFA World Cup. At the 2022 World Cup, a new support tool was introduced to improve the existing process.

With semi-automated offside technology, “video match officials validate the proposed decision by manually checking the automatically selected kick point and the automatically created offside line before informing the on-field official and helps them make faster, more reproducible and more accurate offside decisions.”

The semi-automated offside technology includes dedicated cameras beneath the stadium roof to track the ball and up to 29 data points for each player (50 times per second) to

calculate their exact position on the pitch. The 29 collected data points include all limbs and extremities relevant for making offside calls, according to FIFA's report on the new technology. The 3D animation involved improves communication to fans and television viewers. Pierluigi Collina, famously known as “The World's Best Referee,” comments on the improvement, saying, “we can see that the number of major mistakes has already been dramatically reduced. We expect that semi-automated offside technology can take us a step further. We are aware that sometimes the process to check a possible offside takes too long, especially when the offside incident is very tight. This is where semi-automated offside technology comes in: to offer faster and more accurate decisions.”

These advancements are a great addition to goal-line technology, which has been around since 2014. Goal-line technology is a technical means of instantly determining whether the whole of the

ball has crossed the goal line.

An exciting new addition for players is the FIFA player app. F I F A developed the FIFA Player App in collaboration with FIFPRO, the global representative of professional soccer players. The app allows each player to access their player-performance data just minutes after each match.

The Football Data Ecosystem is a recently established datanetwork proven to be a resource for teams, media, broadcasters, and competition organizers. According to fifa.com, the FIFA Football Data Ecosystem is a complex network of data sources, data processors, and distribution layers, providing consistent and high-quality data to all relevant stakeholders. The Football Data Ecosystem serves as a blueprint



Source: FIFA

for how FIFA analyzes football and breaks down each area of the game in detail. The network also provides operational definitions and multiple video examples to define each action clearly.

The endless advancements are keeping fans thrilled for 2026, which marks the 23rd FIFA World Cup.

Videos and articles introducing the technology involved in the official match ball used in the 2022 World Cup can be found on the official FIFA website at fifa.com



Source: FIFA

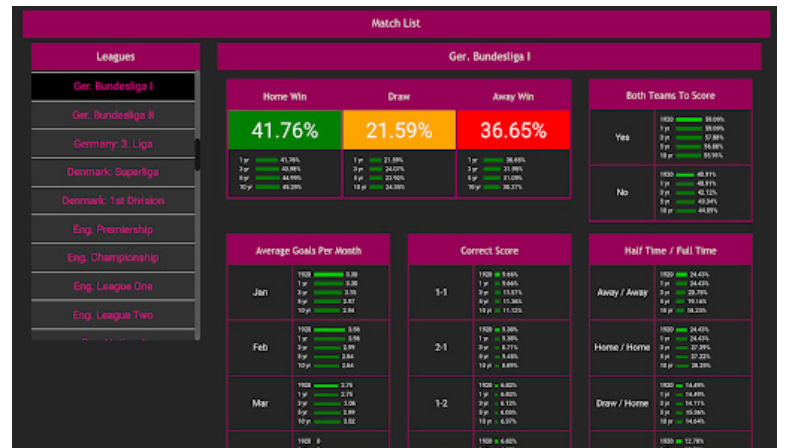
Artificial Intelligence For Match Predictions

NATHAN SONG
- Staff Reporter -

Artificial Intelligence... Too intelligent?

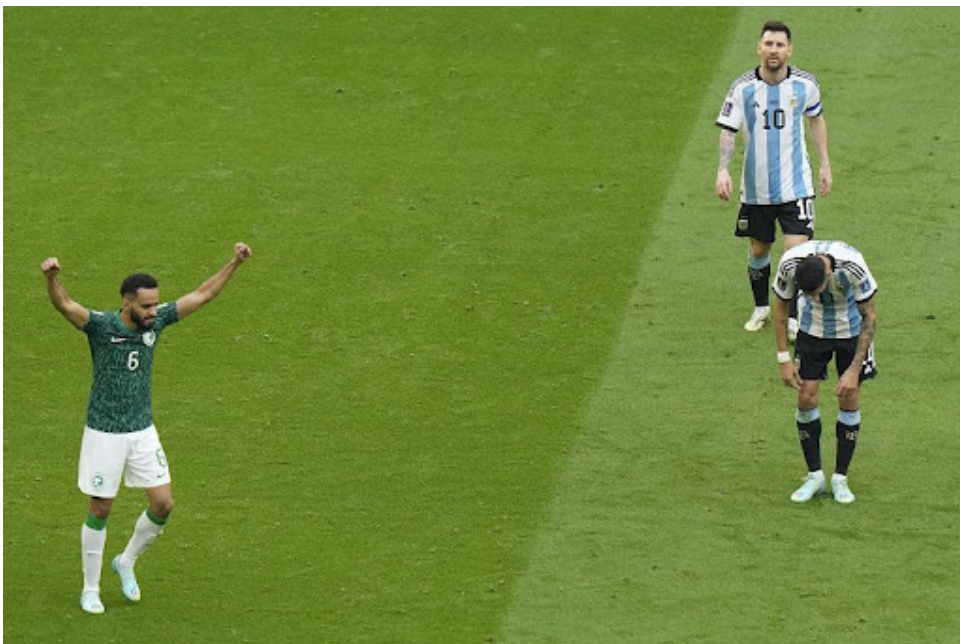
As technology advances, more activities become accessible to the public. In modern society, the internet brings countless resources to our fingertips, and the development of AI is a topic that our society doesn't shy away from. Artificial Intelligence is a very hot topic considering its vast ability to communicate and learn. With the FIFA Qatar world cup 2022 finishing up its final matches- placing Argentina as the victor- countless AI sites have statistically placed Argentina along with other countries as having a higher percentage win rate of their

divisions or even a higher probability rate of winning the world cup itself compared to other countries that had played. However, AI is not always correct. This year has certainly been surprising, with many underdog countries coming out on top and beating stronger teams, such as the unexpected Saudi-Arabian victory against Argentina and the Moroccan victory over Portugal, these victories contradicted the win probabilities that had labeled the teams, so it's safe to say that AI predictions are not always exactly correct, though they are surprisingly somewhat accurate.



Source: Predictology

Artificial Predictions



Source: Euronews

Artificial intelligence benefits teams through its ability to catch onto certain patterns or trends that could not be observed by humans, allowing teams to analyze where their weak points are and how to strengthen them.

This could also work for the enemy team, allowing the opposition to see their opponent's playing styles and how to overcome them. The AI predicts a victory, loss, or draw between two teams by taking into account and ana-

lyzing data based on factors such as overall player performance, team tactics, and, in some cases, even weather. Artificial Intelligence considers various factors, including a team's probability of victory, loss, or draw. For example, in American football, various sites such as FiveThirtyEight, The Predictor, and Statistics utilize Artificial intelligence to predict the probability of a team winning or losing against another team, including in playoffs, divisions, or even the Superowl. One site, FiveThirtyEight explains how their AI does this magic. "This forecast is based on 50,000 simulations of the season and updates after every game. Our traditional model uses Elo ratings (a measure of strength based on

head-to-head results and quality of opponent) to calculate teams' chances of winning their regular-season games and advancing to and through the playoffs. Our quarterback-adjusted Elo model incorporates news reports to project likely starters for every upcoming game and uses our quarterback Elo ratings to adjust win probabilities for those games. After the game, each team's rating changes based on the result, in relation to how unexpected the outcome was and the winning margin." Despite all of these measures and the large amount of data studied and calculated, there are factors that can disprove or cause AI predictions to falter, such as team morale or player injuries. These factors could greatly change the flow and outcome of the game, no matter how well a player was observed and predicted to do.

Being Realistic

In conclusion, though there are probabilities of a team's potential performance in a game, probabilities of victory or loss cannot always be taken as certainties. As explained before, unknown factors could be outliers and lead to a team's unexpected loss or even a surprising win.

Betting on games off an AI prediction is a risky move. Although the statistics may point to one outcome, these predictions are not always right, though; maybe in the future, we could get more precise and more accurate data for better match predictions, though that's for time to tell.

In Remembrance of Mr. Hanlon

Mark Altstaedter

Although I never had the privilege of being a student of Mr. Hanlon, I can clearly see the impact of his passing, as well as the impact of his work as an educator. Countless staff members, alumni, and students have come forward to share their memories of Mr. Hanlon. Every word I've heard and seen about him paints Mr. Hanlon as a kind, insightful, and overall warm person. Sadly, our high school community has been rocked by the passing of several teachers in recent years. While I know they are all missed, I also know we can find solace in their memories.

Lauren Stifelman

Ed was such a kind, caring, funny person with a heart of gold. His students truly adored him and he was such a wonderful role model and advisor for them. On a personal level, I always enjoyed my conversations about family and music. He adored his family and spoke about them with such a huge smile. He introduced me to bands I had not heard of and will forever think of him when I hear their music.

Thomas DeMartinis

Mr. Hanlon was a good friend and great mentor. He inspired me to listen to music I had never heard of before, read books on topics I never once cared about and find good times on even the hardest days. I could really go on, but

I'll just simply say that I miss him dearly, and I am grateful for the time we had together and the impact he left on me.

Victoria Buonpane

Mr. Hanlon was truly one of the nicest people I knew. He was kind, collegial, incredibly funny and loved by his colleagues. He was always willing to help his fellow teachers and cared deeply about his students. His humor brightened our days in the Social Studies office. Mr. Hanlon was very humble as well. It was only after his passing that we truly understood the tremendous impact he had on so many of the students he encountered over his career. He is greatly missed by all of us who worked closely with him, but we are comforted by our memories of his friendship.

Claudia Zhu

Mr. Hanlon truly was a teacher that left a lasting impact on kids. He only ever wanted what was best for you and went above and beyond to help you achieve your goal. He was a kind soul and had a good heart. To know him and be his student was truly an honor and the memories we had will forever be cherished.

Joanna Wassif

He was the only teacher that I had that made 1st period fun. He let me feel comfortable in class and let me draw every morning on the

board. Over the course of the year I saw myself grow in the class and as a person. He also made me believe in myself more after he gave me an underclassmen award for social studies and I was even planning to ask him to write my recommendation letter for college. He was a teacher to remember.

Mallika Shivji

Mr. Hanlon was genuinely the kindest teacher I have ever had. He was so caring and took the time to build memorable relationships with his students. There was never a dull day in his class.

Maya Schneider

He understood all of his students. Whatever we were going through, he let us talk to him about it and he heard us. He never dismissed what we were saying. He always had a smile on his face and was ready to make our day better.

Leehy Tal

He was an amazing teacher and an amazing soul. He influenced my style of guitar and my love for the instrument. He was the first teacher who me and my fellow classmates could feel like we related to, as he was passionate about the same things we were passionate about, whether it be 70s punk rock music or Nickelodeon shows, or superheroes. When I saw his name on my schedule this year for first period economics, I was so excited.

Michele Schaefer

Mr. Hanlon and I would play jokes on each other. My classes would switch around all the furniture in his room. We also plastered his room with my picture. The pictures were in file cabinets, books, you name it and we hid the picture there.

Owen Dugan

Mr. Hanlon was a great person. When he started working in the high school, we became friends. We shared many of the same interests. Mr. Hanlon and I bonded over our love of t.v. shows like *The Walking Dead*, and movies such as *Star Wars* and *Marvel* movies. Mr. Hanlon was someone that could talk about anything and seemed to know so much about a variety of topics. Mr. Hanlon has strong opinions about almost everything and that is something that we had in common. It would frequently lead to spirited debates over music, pop culture, or cuisine. He was a very funny person and he could always make me laugh. He was a devoted husband and father and would always talk about his family with pride. He always looked forward to Taco Tuesday with his girls. He loved teaching and his students loved being in his class. I miss our talks and the Social Studies Office is not the same without him. I miss my friend.

Maria Carnesi

District Chairperson of the Social Studies Department

Ed cared deeply for his students and always treated them with kindness and respect. His classroom was a warm, safe and supportive place. Students looked forward to his class and filled his room at remedial and stopped by in the morning and throughout the day on their free periods. Ed's classroom door was always open and his students knew that. Room 126 was a place where they were never judged but rather "met where they were". They could count on him to listen, counsel, expand their perspective, encourage them to accept a challenge and of course, increase their knowledge of music and current events. Over the last few days it is the words of his students that best capture who Ed, the teacher, was...

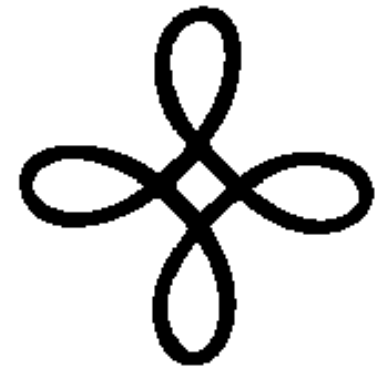
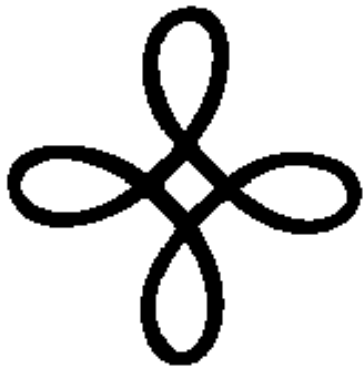
"Something special about him is that Hanlon always supported the underdog. He would pick out the quiet student in the corner and make sure they felt valued and encouraged. He left such an impact on us, we can only imagine the impact he made on the entire school community."

"You stuck up for me in 8th grade when some of my classmates were bullying me. You nominated me for the excellence in economics award in Senior year. You always supported everything I did in the arts even if it meant missing your class and bugging you at remedial. Hanlon, there are not many teachers like you, thank you for being one of the great ones."

"Thank you for always allowing me to be myself in your classroom. You were truly one of a kind."

"We were so sad to be leaving him after 8th grade but then we found out he was moving to the High School and it was like the universe had done us this huge favor. Going to the High School was scary enough but knowing we had the comfort of Hanlon's classroom made our anxiety better."

"I always knew you had my back. Thank you for everything you did for me and so many of my classmates. Rest easy, Hanlon. You are dearly missed by so many."



Ed influenced his students in a profound way. He opened doors for them that advanced their lives and celebrated who they were.

Ed the friend and colleague enriched our lives. Our department has been through a lot together. We have celebrated together and supported each other through illness and loss. The last couple of years have been challenging. We started a theme-based top ten list on our department white board that has brought many laughs... Ed was a huge contributor. His knowledge of pop culture is unmatched. Some of our lists were: hair bands from the 1980's, memorable movie quotes, best TV dad's, best TV/movie side-kicks...

So... we have created a list of Ed Hanlon's top 10 most special gifts....

Always up for a good argument and a heated debate,
Always ready to broaden our knowledge of Irish history,
Always willing to acknowledge the other side... with his famous line... "that's true too",
Always willing to take on things that needed to be taken on,
Always willing to offer support and concern,
Always willing to share his knowledge, as he was enormously well read,
Always willing to listen,
Always willing to call it like it was,
Always willing to extend empathy,
And always willing to share a story about his beloved Laurie, Erin and Alex.

Thank you, our dear friend and colleague, for so freely sharing your special gifts with us and your students. You truly left your piece of the world better than you found it. We will miss you everyday.

We'll always be with you.
No one's ever really gone.
A thousand generations live in
you now.

~ Luke Skywalker