



PURPLE SUN

FEBRUARY 2022

Lebo Findani
&
Cay Danielson

Will you
go out with
me?
YES NO IDK



Editors Letter -Udaya Reddy

Dear Readers,

It has been a while since our last issue! And in that time, much has happened both in the world and in our school.

Recently we introduced the intramurals (which are a great hit), and most importantly, we have stopped wearing masks. Restrictions are lifting and I'm sure many of us are basking in the maskless and COVID-passport-less freedom.

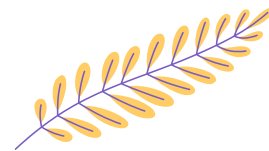
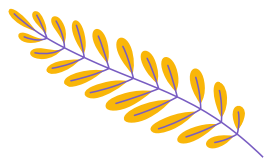
Now, on to our featured articles:

In this issue, Aparajita informs us about a ton of science research opportunities for all high school students with even an inkling of scientific interest in a broad variety of subjects. Some of them include engineering and computer science. The rest, I'll let you check for yourselves.

In her compelling article, Alexia discusses the impact of faith in the medical field and the reasoning behind the religious convictions. A new addition to this issue is the Lloydminster City Council Highlights that can also be found on the newspaper website, which is updated weekly!

With the excitement of a maskless environment, optimism seems to grow in the halls of our school. Hopefully, it will continue, and even pervade throughout our community.

Sincerely,
Udaya





When Patients Choose Faith Over Medicine - Alexia Rizea

If you have taken Health Science 20, you know that religious beliefs sometimes contradict western medicine. While Jehovah's Witnesses are famous for their refusal of blood transfusions, there are many other religions that have medical restrictions. People within the Amish religion oppose heart transplants and—in some cases—heart surgery, as they view the heart to be "the soul of the body" and believe that bothering it disturbs the soul. Although the religion does not forbid its members from seeking medical attention, many Amish people are reluctant to do so unless absolutely necessary. Vaishnavism, a major branch of the Hindu faith, considers the killing of animals, especially cows, to be sinful. Furthermore, the religion doesn't allow the use of any drugs, implants, skin grafts, or medical dressings that contain parts of pigs or bovines. Sikhs also disapprove of any animal-based products for medical use, but both religions allow for exceptions in emergencies or when no other options are available.

The members of the Church of Christ, Scientist are entirely against medicine, as they believe healing should be done through prayer. The church has a very high mortality rate and has had a multitude of measles outbreaks due to their disapproval of medicine. The Catholic Church is strictly against any type of contraceptives.

Major religious groups' positions on abortion

Opposes abortion rights, with few or no exceptions	Supports abortion rights, with some limits	Supports abortion rights, with few or no limits	No clear position
<ul style="list-style-type: none">• African Methodist Episcopal Church• Assemblies of God• Roman Catholic Church• Church of Jesus Christ of Latter-day Saints• Hinduism• Lutheran Church-Missouri Synod• Southern Baptist Convention	<ul style="list-style-type: none">• Episcopal Church• Evangelical Lutheran Church in America• United Methodist Church	<ul style="list-style-type: none">• Conservative Judaism• Presbyterian Church (U.S.A.)• Reform Judaism• Unitarian Universalist• United Church of Christ	<ul style="list-style-type: none">• Islam• Buddhism• National Baptist Convention• Orthodox Judaism

Source: Pew Research Center review of outside literature

PEW RESEARCH CENTER

While religious views differ depending on the area of medicine, most religions agree on the prohibition of abortions. While religions often fight against the separation of church and state, they try to implement anti-abortion laws. According to the Guttmacher Institute, the abortion rate is 37 per 1,000 people in countries that strictly prohibit abortion or allow it only in instances to save a woman's life, and 34 per 1,000 people in countries that allow abortion: a miniscule difference. Criminalizing abortions does not stop them from taking place, it just removes a safe and clean environment for women to receive them from medically trained professionals.

Regardless of any harm that religion may cause, religious freedom is a right that medical professionals have to respect, bringing up many ethical questions that healthcare professionals struggle with on a regular basis.



Dr. Leopold Alexander (1905-1985)-Udaya Reddy

Dr. Leopold Alexander, also known as Dr. Leo Alexander, was an American psychiatrist who participated in the Nuremberg trials (in particular, the Doctors' Trials) and wrote part of the Nuremberg Code. His investigations of the concentration camps shed light on the unethical medical experiments conducted on prisoners (or as the German doctors called them, "adult pigs"). These discoveries would later make him a crucial witness during the Nuremberg Trials.

Born an Austrian-Jew, Leopold was raised in Vienna, Austria. Ever since he was young, he had longed to be a physician like his father, Gustav, who was an ENT (ears, nose, and throat) doctor. Both of Leopold's parents were esteemed scholars in their fields, his father having published over eighty scientific papers and his mother being the first woman to be awarded a PhD in philosophy at the University of Vienna. In his teenage years, Leopold accompanied his father on his hospital rounds, learning more about the profession while engaging in discussions surrounding medicine, history and anthropology. After he graduated from the University of Vienna Medical School, he specialized in evolution and the pathology of the brain, and in 1932, he enrolled at the Kaiser Wilhelm Institute for Brain Research in Berlin. There, he researched primarily on mental disorders and further continued his studies on patients with schizophrenia.

In 1933, Hitler became chancellor, creating a dangerous environment for all Jews in Germany and Austria. Of course, this included the Alexander family. At the time, Leopold was fortunately in Beijing to lecture neurology and study mental illnesses. Although he had initially promised to return to Germany on October 1, 1933, it would never be fulfilled. In April 1933, Hitler set the Reich's Law for the Restoration of the Professional Civil Service, prohibiting Jews from working as civil servants, including maintaining teaching positions at universities. Leopold's family lawyer, Maximilian Friedmann, and his uncle, Robert Alexander, warned against Leopold's return home. At first, he did not believe that the laws would apply to him nor that they would affect his way of life. However, after receiving a letter from his mentor stating that he would no longer hold a position at the university were he to return, he came to the realization that there was nothing left for him in Germany.



Now, unable to return home and having no other place to go, Leopold was alone in China. A man not used to finding himself in such a hopeless situation, Leopold's ambition and pride overshadowed his hopelessness and instead, he continued to publish several scientific papers. Eventually, this earned him a position at a state mental hospital in Worcester, Massachusetts. An incredibly hard worker, Leopold quickly became successful in America and was promoted to a full-time position at Boston State Hospital. Over the next decade he would go on to publish over fifty scientific papers, start a family and become very renowned amongst the Boston medical elite. Before America's entry into the war in December of 1941, Leopold started teaching at Harvard Medical School and was a consistent subject of journalistic intrigue. During the war, Leopold aided wounded soldiers in North Carolina and eventually, England. However, his most significant role would only be carried out after the war.

Despite the rumors of the inhumane experiments conducted at Dachau, Leopold was unable to confirm the suspicions. The interviews he held at the Luftwaffe's Institute for Aviation Medicine were fruitless and yielded no real evidence of experimentation. It wasn't until Leopold was on the road to Gottingen that he had finally found a lead. Leopold had stopped at a military base for dinner and sat next to an army chaplain who had recently heard an Allied radio broadcast about the medical experiments conducted at Dachau. He revealed - through his personal horror - that prisoners "were placed in tubs of ice water while their sufferings and death throes . . . were recorded". Needless to say, Leopold was shocked to have his suspicions confirmed. As the chaplain continued to describe the experiments that were conducted on prisoners, he found the descriptions fitting to the experiments the research facility had claimed to conduct on "large animals."



Dr. Leopold Alexander (1905-1985)- Udaya Reddy

After this information fell into his hands, he had more information to confront the research facility about. After securing more interviews, a common name popped up frequently throughout: Sigmund Rascher. An air force doctor, Rascher was a sick and twisted individual who had long advocated for human experimentation. When he had first approached air force officials with the idea, he was rejected, leading him to turn to the SS where he had strong personal connections with Heinrich Himmler. Under the SS, Rascher conducted experiments including (but not limited to) hypothermic testing, high altitude, and blood coagulation. With the discovery of Sigmund Rascher came a wealth of information and concrete evidence. Coupled with the fact that the Allies had recently discovered Himmler's secret archive, justice was rapidly approaching.

With access to this archive, Leopold uncovered a package labeled "Case No. 707". Once he unsealed it, he was immersed into what could only be described as evidence of "the Nazis... tak[ing] special pains in making practically every nightmare come true." Within the documents, Leopold found records of Rascher's hypothermia experimentations. He also found out that Rascher wasn't the only doctor involved. With further investigation, Leopold uncovered a variety of ghastly experiments conducted on prisoners, nearly all leading to inhumane, merciless ends. When he returned to London to report his findings, he wrote out a report over 200 pages long about Rascher and his hypothermia research. Then he continued on to write a 1500-page report on the medical experiments which would be used to incriminate the Nazi doctors at the Nuremberg Trials.

However, despite Leopold's condemning investigations, very few doctors were actually punished for their crimes. Much of this was due to the fact that there weren't actually any international laws or codes of conduct pertaining to scientific research. Moreover, under German Law, the experimentations were legal. What's worse is that animals had more legal protection than prisoners and Jews did concerning medical research under the Third Reich. The Nazi scientists also argued - with their own skewed logic - that they had a right to experiment on the prisoners since they were destined to be killed either way. By experimenting, at least they would gain something from their deaths.

Leopold, determined to eradicate the loopholes that the lack of international medical laws provided, came up with a set of principles that surrounded patient consent and ethical research. This initial move to fill the gap created a foundation for Nuremberg Codes that are still the basis of ethical medical research today. After the Nuremberg Trials, Leopold moved back to Boston to resume his practice; however, he could not forget what he had uncovered in Germany. He arranged for 40 Polish inmates, who had been crippled by Josef Mengele's experiments, to be sent to the U.S. for corrective surgery.

Although Leopold Alexander's discoveries in the concentration camps didn't hold weight in regards to the Doctors' Trials, they allowed for the conception of principles that would later be used as the basis for the Nuremberg Codes. Because of Leopold's unflinching pursuit for justice, global citizens today are legally protected and able to receive justice for any inhumane acts committed against them. Leopold's work paved the way for international security and reassurance that the atrocities committed would never be overlooked in the name of justice ever again.





The Corner Café - Featured Creative Writing

Color

Fallen from ships
Pluck the plant with a pure hue
Lothe had bled them

Under the many rays of the
burning star
Now accused of trespassing
Unwelcomed
Ill-tread
Freeland

Out of the over of tribe
They are bare
And vulnerable

According to the law
they are not wanted
They are still here and I don't
know what to do

Poem by Lebo

Giving Life

Caressing us gracefully
Your fingers have traced warmth and compassion
Down our skin from birth
With your glorious past
You brought wonders into the world
And from it, great civilizations have thrived
Allow your own banks, we lived happily
Though sometimes we had made you enraged
and furious
You seldom made damages to us
Knowing well it is you that loves and cares for all
Giving alluvial fertile soil
In turn, opportunities for sustenance
Making possible to long distant journey
To connect all the children of your womb

Giving life

Drip drip drip
The black sheep's toxic tears fall
He was once one of our beloved brothers
But he has pushed his war through the gaps of
your embrace
He had always longed for more
A world where he oversees the beauty you created
His simple dream unnoticeably morphed into
avarice
Now he dyes your cool blue eyes into black holes
Poison runs through your veins
Cold seeps throughout your soul
Chilling you to the core
We cry in pain as the breath you give
Now scorches our lungs
The life that once spread throughout ceases to
exist haltingly

Killing life

With you dying
Living now is the prodigal and his nation
In union, they flatten your remaining curves
They propose to paint your surface royal
By clotting your blood with debris
Still, you flow with patience
Although not so silently
As you send plagues
You express your displeasure
Between you and us
Unwritten bondage always has been
We were never to interfere with the existence and
flow
Still, now you are polluted by the intervention
All thanks to the Black sheep and his growing
nations

Killing life

Poem by Lebo



POETRY BY JOHN KEATS

"Ode on a Grecian Urn."

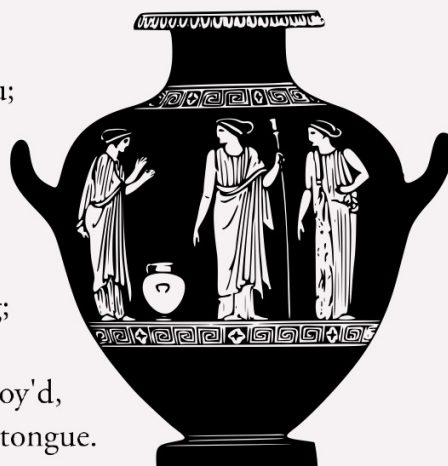
Thou still unravish'd bride of quietness,
Thou foster-child of silence and slow time,
Sylvan historian, who canst thus express
A flowery tale more sweetly than our rhyme:
What leaf-fring'd legend haunts about thy shape
Of deities or mortals, or of both,
In Tempe or the dales of Arcady?
What men or gods are these? What maidens loth?
What mad pursuit? What struggle to escape?
What pipes and timbrels? What wild ecstasy?

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Ah, happy, happy boughs! that cannot shed
Your leaves, nor ever bid the Spring adieu;
And, happy melodist, unwearied,
For ever piping songs for ever new;
More happy love! more happy, happy love!
For ever warm and still to be enjoy'd,
For ever panting, and for ever young;
All breathing human passion far above,
That leaves a heart high-sorrowful and cloy'd,
A burning forehead, and a parching tongue.

Who are these coming to the sacrifice?
To what green altar, O mysterious priest,
Lead'st thou that heifer lowing at the skies,
And all her silken flanks with garlands drest?
What little town by river or sea shore,
Or mountain-built with peaceful citadel,
Is emptied of this folk, this pious morn?
And, little town, thy streets for evermore
Will silent be; and not a soul to tell
Why thou art desolate, can e'er return.

O Attic shape! Fair attitude! with brede
Of marble men and maidens overwrought,
With forest branches and the trodden weed;
Thou, silent form, dost tease us out of thought
As doth eternity: Cold Pastoral!
When old age shall this generation waste,
Thou shalt remain, in midst of other woe
Than ours, a friend to man, to whom thou say'st,
"Beauty is truth, truth beauty,—that is all
Ye know on earth, and all ye need to know."



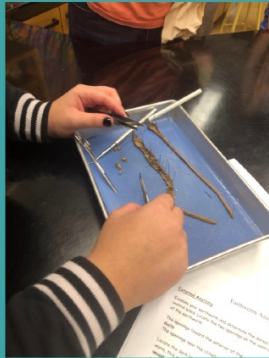
The Science Club presents

...AND THAT'S WHAT YOU'VE MISSED IN SCIENCE CLUB

A brief recap of the past five months

JOIN US FOR MORE!

DISSECTIONS



Thanks to Mrs. Fletcher, we learned the basics of animal dissections by investigating the anatomy of earthworms, trout, and starfish.



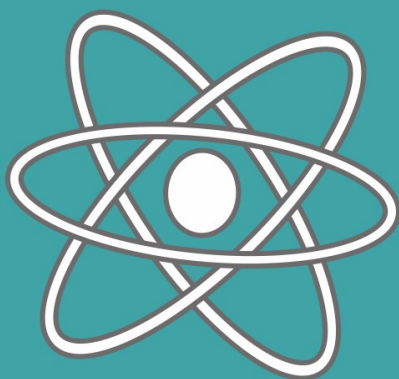
Scan the QR code to join the Google Classroom (7xds3ks)



GREENHOUSE



With help from Ms. Hart, we are cultivating plants in the greenhouse to be used in later club activities and experiments. We hope the deceased koi fish in the picture are resting easy.



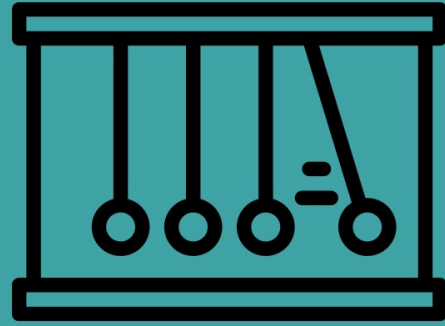
CHEMISTRY CRYSTAL FORMATION

Mrs. Copeland is currently kickstarting her Cutthroat Crystal Making Competition, where students must form a super-saturated solution which will eventually yield a crystal. The best crystal (the one with superior clarity, shape, etc.) will win.



PHYSICS EGG

DROP

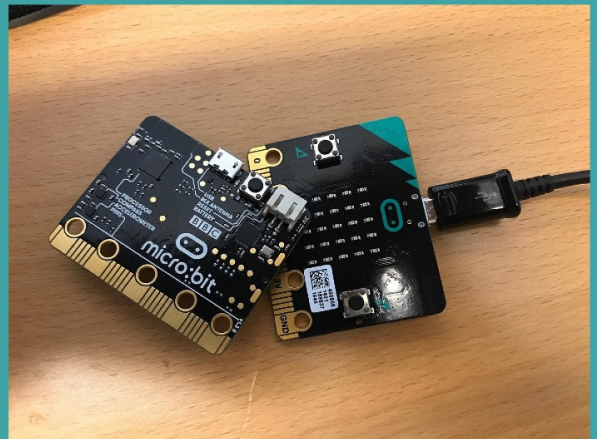


Mr. Proctor initiated the egg drop competition, where students had to create a prototype with simple objects, which could survive several drops from the roof and keep an egg intact. We had to consider gravity, air resistance, and impact. Ryley Karst was the winner!

MICROBIT CODING



Mr. Friesen introduced the club to fundamental computer science skills, such as debugging in block-coding a microbit with Python.



The cover features a vibrant red background with blue wavy shapes at the top and bottom. A central green rectangle contains the main title. The background is decorated with white line art of a sun, a comet, and a constellation.

SCIENCE PROGRAMS

† Upcoming competitions
and summer programs

Curated by: Aparajita Rahman

Quantum School for Young Students

Discover how mathematics, physics, computer science, engineering, and more combine into one of the most exciting topics in modern science – quantum information – at the Quantum School for Young Students (QSYS), previously known as the Quantum Cryptography School for Young Students (QCSYS).

Applications are due Monday, March 28, 2022.

What is QSYS?

QSYS is a unique enrichment program for high school students that offers a blend of expert lectures, small group discussions, problem solving, and opportunities for mentoring and networking with world-leading quantum researchers. QSYS 2022 will take place over two weeks in July:

From July 11-15, QSYS Virtual will explore the fundamentals of quantum physics, quantum cryptography, and quantum computing through interactive lectures and group problem-solving.

From July 25-29, QSYS On-Campus will provide deeper dive into the hardware and experiments being used to explore the quantum frontier, including networking with researchers and hands-on lab activities.

You will:

- see how the world works at the quantum level;
- understand phenomenon like quantum superposition and entanglement;
- learn how quantum technology will transform computing, imaging and cryptography; and
- make international friendships.



The International Summer School for Young Physicists (ISSYP)

is an exciting and challenging two-week online program for Canadian and international high school students with a keen interest in theoretical physics who intend to pursue physics at the university level. Operated by Perimeter Institute for Theoretical Physics, ISSYP is now in its 20th year and includes over 900 alumni in 60 countries.

Program Description:

Over two weeks of online activity, the program super-charges potential "Einsteins" and "Curies" with:

- Mini-courses — These short sessions provide a sound conceptual introduction to the profound and revolutionary ideas at the foundations of modern physics, including topics like quantum mechanics, special relativity, cosmology, general relativity, and black holes. They will include:
 - Independent work conducted before scheduled live sessions — mandatory preparation will include background reading, sample problems, and viewing of recorded lectures.
 - Interactive online sessions — scheduled live sessions will include instructor-led content, lots of time for questions, and group work in breakout rooms.
 - Hands-on tasks — complete simple experiments from home.
- Keynote sessions — Perimeter Institute researchers will discuss their work, providing a window into the deep mysteries facing 21st-century theoretical physicists, with lots of time for questions.
- Career insight— ISSYP alumni and researchers at different career points will answer questions about university, research careers, and "Life as a Physicist".
- Connection to like-minded peers — Past participants indicate that meeting other future theoretical physicists is a valuable part of ISSYP. The program includes breaks from the scientific content to get to know one another and build relationships that last beyond the program dates.

Deadlines:

- December 1, 2021 - Applications open
- March 31, 2022 - Application deadline is 11:59 PM ET
- May 9, 2022 - Selected students will receive email invitations to participate
- July 18-29, 2022 - Online program in session

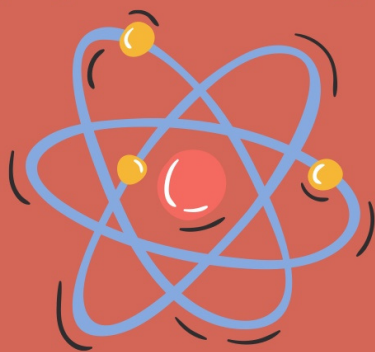
Do you love computing and want to learn more about it as a career? Are you a high school student in grades 10, 11 or 12? Would you like to earn real money over your summer break?

The **Computing Science High School Internship Program (HIP)** is a great way to learn about computing, make new friends and earn money. Plus you'll have a great job to include on your resume.

ProtoJam is an online no-code design competition – a designathon – held on Feb. 25-27, 2022 where students tackle design challenges focused on UX/UI design (user experience and user interface). Our theme for this year is technology for good. We want to encourage young minds to use their skills for social change, so our design challenges are centered around causes for local non-profit organizations. Join in on the fun for a chance to win \$\$\$ prizes + get free swag!

ProtoJam 2022 is completely virtual and free to participate. This designathon is open to both high school students and university students studying in Canadian institutions. All skill levels are welcome – we will provide workshops and resources to set you up for success! Speaking of workshops, we'll have a number of events and workshops hosted by inspiring speakers from Google, Startup Edmonton, Voiceflow, and more!

Sign up today! We look forward to seeing you there!



High School Youth Researcher Summer (HYRS) Program

The Alberta Innovates High School Youth Researcher Summer Program (HYRS) offers paid, six week summer research experiences for Grade 11 students in health and medical sciences, including priority areas in digital health, data-enabled health transformation, and health innovation.

Students who are selected to participate in the HYRS program are placed with UAlberta researchers in a variety of health and medical research areas, including cardiology, cell biology, genetics, biomedical engineering, epidemiology, health education, digital health, and other priority areas identified by Alberta Innovates. In addition to gaining first-hand research experience, students also participate in a range of skill development and career exploration activities. This program is ideal for students who have an interest in science and health, and are looking to explore careers in health research and innovation.

Students accepted to the HYRS program will be paid a stipend of \$2700 for 6 weeks. Additional costs, including health benefits, travel and living accommodations, are the responsibility of the student. A limited number of partially-subsidized residence spaces will be available for students who reside outside of the greater Edmonton area.

"2022 Girls Who Code Summer Programs Application

Girls Who Code offers two FREE programs in the summer: the Summer Immersion Program and the Self-Paced Program. Applicants can apply for BOTH programs, if eligible, using this application. However, students can only participate in one Summer Program.

The Summer Immersion Program (SIP) is a live, virtual, 2-week introductory computer science course for current eligible 9th, 10th, and 11th grade US students and international students ages 14-18. SIP participants learn web development with HTML, CSS, and JavaScript while getting an inside look into the tech industry through incredible company partners. In addition to a completely free program, we offer grants up to \$500 and tech support for qualifying students.

The Self-Paced Program is a 6-week flexible computer science course for current eligible 9th, 10th, 11th, and 12th grade US students (including SIP alumni and graduating seniors) and international students ages 14-18 who prefer not to adhere to a set schedule. Self-Paced Program participants can choose to earn beginner-level badges in HTML, CSS, and JavaScript for web development or an intermediate-level badge in Python for cybersecurity. Students will also have the opportunity to build community through weekly live advisory sessions and Girls Who Code activities"

WISEST Summer Research Program

The Summer Research Program (SRP) is unlike any other summer job that you could possibly imagine! For almost 40 years, SRP has been giving students the skills and knowledge they need to succeed in university, and in the science, engineering, and technology fields. We encourage grade 11, young women and gender diverse students to apply for one of 40 placements in STEM fields. As of 2022, WISEST will no longer be placing students in nursing and nutrition, we encourage young men to explore opportunities with programs such as HYRS.

Once accepted into the program, students are expected to meet the following criteria throughout their internship:

- Work a full work week for six weeks and earn an hourly wage.
- Learn through literature reviews, hands-on experimentation, and trial-and-error.
- Engage in research both independently and in a team.
- Contribute to trail-blazing research and a research project.

2022 Summer Research Program Dates

The Summer Research Program runs from July 4 - August 12, 2022.

- Student Applications: February 1- March 25, 2022



Intramurals- Basketball

Bump competition



one on one Bump competition



Three Point



Monday, February 14, 2022

City Manager's Office

1. Council approved the appointment of Kevin Littlewolfe as the Indigenous Representative to the Downtown Area Redevelopment Committee (DARC) for a one-year term ending September 1, 2022.
2. Council repealed Policy No. 110-06, the COVID-19 Vaccination and Rapid Testing for Council Policy.

Office of the City Clerk

1. Council approved Policy No. 110-01, the Recognition from Members of Council Policy as amended.
2. Council repealed Policy No. CA-016-2008-2100, the Community Peace Officer Policy, and repealed Policy No. CM-01-2012021200, the Information Technology Allowance for City Councillors Policy.

Operations

1. Council approved Policy No. 320-03, Street Sweeping Policy, and Council repealed Policy No. PW 01-13-23200, Street Sweeping Policy.
2. Council awarded the contract for the 2022 – 2024 Sand Supply and Stockpile Program to Border City Concrete Ltd of Lloydminster Alberta for a maximum yearly cost of \$94,200, plus applicable taxes.
3. Council approved the City of Lloydminster 2022 – 2023 Parks and Green Spaces Fees and Rental Rates as outlined in the attached Schedule 'A' effective March 1, 2022.
4. Council approved Policy No. 134-09, Asset Management Policy.
5. Council approved the Discretionary Use Application for Esthetics to be located at #105,5101 – 48 Street, legally described as Lot 17-20, Block 7, Plan LXXXVI, in the Direct Control 1 (DC1) District subject to the conditions as per "Schedule A" (page 50 of Council agenda dated February 28, 2022), and that Council delegate the Development Officer to review and approve any sign permit connected to this application that complies with the requirements of Land Use Bylaw 5-2016.
6. Council appointed Councillor Jason Whiting to the Municipal Development Plan Technical Review Committee.

Chief of Staff

1. Council accepted the Canadian Union of Public Employees, Local 1015, Collective Bargaining Agreement (January 1, 2022, to December 31, 2026) as information.

-END-

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AND COUNCIL HIGHLIGHTS

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City Council and GPC meetings are livestreamed at www.Lloydminster.ca/livestream.

The next Council meeting is March 7, 2022, at 1:30 p.m., via livestream and in person.

For Council and GPC minutes and agendas, visit www.Lloydminster.ca/agenda.

For Council and GPC highlights, visit www.Lloydminster.ca/highlights.

