

THE CROWN

REDEEMER'S STUDENT VOICE SINCE 1983

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Walk For Freedom 2017 Keeping in Step to Abolish Slavery



SADIE STEVENS

Redeemer had a strong, silent presence at the Toronto event. (Photo: Sadie Stevens)

It's 2017 and slavery is still a very real issue in our world. Human trafficking is a modern form of slavery, most commonly found in situations of sexual labor or forced labor. But a person can become victim of human trafficking in a variety of contexts; anything that includes their loss of freedom through trade.

People say that we as human beings have a right to be free from any form of slavery, abuse, violence, and fear. People say that those rights are our fundamental freedom as humans and we should be respected equally no matter how rich or how poor. People also stated that children need to be protected because they are vulnerable; children are not supposed to work in a horrible environment or, even worse, become sex slaves for adults.

More than 27 million people and more than 12 million children are trapped in slavery at the moment you are reading this. Walk for Freedom gives us a chance to raise awareness and to be a voice to the voiceless. With each walk, we are one step closer to ending human trafficking in our lifetime. Human trafficking happens in nearly every country in the world. We are now living in a world where human trafficking is the fastest growing criminal enterprise. These poor individuals are forced into abusive situations every single day without pay and under threat of violence — and they're unable to walk away. There's no access for them to run once they are trapped in these deceitful circumstances. Individuals are forced to do things that they never imagined before.

The average age of a young woman first being trafficked is between 12 and 15 years old. Can you imagine a 12-year-old girl having to face the harsh reality that she must serve people that she doesn't even know, being forced to do things against her will every day? Girls this age should experience each day joyfully, having fun with their friends, receiving a good education, and experiencing the life of a normal teenager. But sadly, the victims of human trafficking don't have this — they are lucky enough if they don't get killed. Human trafficking caused bruises to its victims that never will fade away.

Many slaves have been tricked by traffickers who lure vulnerable people to false promises of good jobs or education. These traffickers usually fascinate the victims with high hopes that they will have a much better life — a new life that's brighter than their life back home. This needs to be stopped.

On October 14th, a group of Redeemer students and faculty participated in the A21 Walk For Freedom in Toronto with

a group of students and faculty from Redeemer. This walk was one of the most profound statements I've ever made in my life. We walked in complete silence with the bandana of a victim covering our mouths, dressed similarly and walking in sync, straight faced and ready for battle.

Faculty Member Response: Dr. Tim Epp

Ivan. This was the name on the bandana which covered my mouth. I stood in the midst of a throng of students, faculty, concerned citizens, and leaders of A21, gathered to let the world know about human trafficking. We heard the words of a woman who herself had been trafficked, and we were exposed to the scars which she still carries. She introduced us to the sudden violence of traffickers, who prey upon the unsuspecting.

In spite of celebrating 150 years as a nation, Canadians are implicit in the trade of human beings. People are kidnapped and taken to hotels in our cities and then made to serve clientele in the Canadian industry of 'adult' entertainment. As we walked in silence, I found evidence of several of these establishments: the strip club, the upstairs massage lounge, the 'adultorama' store.

I was reminded of the things I take for granted: freedom to move, to speak, to have some control over my life. Not everyone in the world is so fortunate. A21 reports the following on its website: "Millions of slaves. A \$150 billion industry. 1% ever rescued."

As a Sociology prof, I have spoken about human trafficking on many occasions, but on the day of the walk I was actually representing an individual, a victim of human trafficking who had been rescued. A21 is living testimony to the hope that we have for the world through our Lord, who taught us to love and care for each other, perhaps especially for those people who suffer from the violence of our world. We can work to change this world.

If we believe.
If we act.
Today.

P.S. I am so impressed by the Students of Applied Social Sciences, the student organization that organized our trip to Toronto. Go SOAPS!

Student Response: Kendra Slagter

Throughout my Redeemer experience, I've found myself becoming increasingly passionate about the issue of hu-

man trafficking. It blows my mind knowing that slavery continues to exist in the form of human trafficking and that it is happening in my own city.

The A21 Walk for Freedom was an active way to stand against human trafficking and to be a part of a global movement that refuses to remain immobilized and hopeless in the face of this growing issue. On October 14th, we walked single file through the cold, rainy streets of Toronto. We were dressed in black and wore yellow bandanas labeled with the name of a human trafficking survivor around our mouths.

We were totally silent, all 150 of us. Though we were silent, we were noticeable, and we made our presence known. However, the silence not only made pedestrians around us uncomfortable, but it made me uncomfortable. For one hour, we were to be completely silent, which forced me to reflect on the severity of human trafficking and the personal experiences of survivors. The silence was overwhelming because all I could do was wrestle with my emotions and thoughts.

Halfway through the walk I found myself praying. I was praying for the victims who had not yet been rescued, for the survivors who were being rehabilitated into society, and for us who were walking and those who were watching. I prayed that this issue would impact each and every one of us in a more personal way, and for each individual to lean into the discomfort they were feeling.

I believe God calls us into places of discomfort in order for us to question our abilities and where He is calling us. God is calling us to fight for those who are oppressed and marginalized, and the A21 Walk for Freedom was a very easy (yet uncomfortable) way to do so. Although we cannot solve human trafficking overnight, everyone can do something, and it starts with showing up.

Conclusion

Anyone can be a victim of trafficking. But of course, there are things we can do to prevent that from happening. Spread the word and help raise awareness in our society about human trafficking. We are lucky we live in a better place. The moment you decide to care is the moment this world becomes a better place to live in. Thank you to everyone who participated in this walk; it's not too late for you to raise awareness and help shine their light. Join the walk and with each step we will help change the world and declare freedom for all.



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Elise's Piece A Letter from the Editor

Paper season, am I right?

Or should I say paper season, presentation period, debate era, lab report age, pop-quiz phase, and social experiment spell? Whatever the cup you've been handed this month, our hope is that the busyness doesn't overwhelm you.

Instead, we hope that the purpose of your assignments, your living situation, and your latest nagging questions will be better understood as you give them your time, and that you find yourself curiously excited this season. Or, at the very least, curiously peaceful.

Some of the articles in your hands might help. Eavesdrop on students discussing their favourite classes with this month's handful of Humans of Redeemer. Get the page 7 scoop on molecular-scale crystal structures, matrices, and kissing bugs as we catch up with summer researchers. Walk a day in the shoes of an amped Laurentian Leadership Program participant in Ottawa on page 8. Sit down for a heart-to-heart with Shams Siddiqi on page 9 to consider the ever-present power of God's promises.

Other writers walk for freedom in Toronto alongside human trafficking advocates (front page), consider how to love people we may not agree with (page 4), and unearth letters written by Hamiltonian soldiers during the First World War (page ?).

May these ideas stick with you as they need to, offer reassurance of today's value, and provoke a fruitful kind of discomfort.

Peace,
Elise

P.S. The Crown team breaks for the month of December (we're of the hibernating sort), so catch our next issue coming your way in January 2018!



The Crown is Redeemer University's campus newspaper, published monthly. As a platform for the student voice, it provides space for questions, insight, challenges and discoveries concerning our school, city, and world – all in relation to our real and growing faith in Jesus.

The opinions expressed in the *Crown* are not necessarily those of Redeemer University College's student body, faculty, or administration.

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A Clear Look at the Yearbook

Is it Worth Keeping?



MATT SCHOENMAKER
VP OF FINANCE

I am often asked the question about how Student Senate receives their funds and how we choose to distribute those funds among clubs and activities. The simple answer to this question is that we receive funds from you, the students.

Each year students give \$75 from their school fees to Student Senate. In total, we receive approximately \$90,000 for the entirety of the school year. At the start of the school year, we have a short 13 hour budget meeting to distribute the funds among all clubs, with the understanding that some clubs need more significant funding than others.

Yearbook is the club that receives the most funding of all clubs, receiving over \$22,000 a year under the current contract. Four years ago, Senate decided to make the yearbook mandatory for all students. This decision was very controversial at the time amongst students. However, Senate decided to proceed with the decision. Over the past years, the flaws in this system have been highlighted through the accumulation of excess yearbooks which directly translates into lost funds. This year, we have decided to revisit this decision and reassess the future distribution of yearbooks. Senate is considering multiple different options regarding how we will proceed, and we are looking for input from the student body.

There are four significant options currently under consideration. The first option would be to leave yearbook as it is and remain in our current contract. The second option is to remove mandatory purchasing and have stu-

dents who would wish to receive a yearbook pre-order to ensure that yearbooks are not wasted. Another option being considered is having the yearbook become digitalized, which would allow students to enjoy the creativity of the yearbook online, while significantly reducing the production cost. The final option would be to follow in the footsteps of McMaster University and remove the yearbook altogether.

As a Student Senate, our primary goal is to serve you, the students, and to ensure that we are putting your money to its best use. In the new year, we will be holding two panel discussions to provide more information about this significant issue and to receive feedback from students. Implementing a survey will be another way to gauge student feedback.

To ensure that we are serving you to the best of our ability, we would like to receive as much feedback as possible to ensure we are properly representing the student body on this significant issue. The yearbook has been valued for many years among students; however, we as a Student Senate have recognized — and believe — that change is needed in the current system to ensure sustainability for the future. We look forward to hearing your feedback as we continue to work towards a decision that best serves the student body.

Sincerely,
Matt Schoenmaker
VP of Finance

The Options

- A. Mandatory for all students**
- B. Pre-ordered by students**
- C. Digitalized**
- D. Removed**

Discussion panel dates to be announced.

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The Armour of God

A Student Response to “Restless Spirit Haunts Redeemer”

ARIEL CARDENAS COLOMA

After reading Nick Overgaauw’s article in the October edition of the Crown, my spirit was not at peace. I questioned why Nick’s article was written as well as published, so I contacted the *Crown* about the article. The team responded, saying that they had predicted possible pushback as the article dealt with a dark spiritual matter, and encouraged me to respond in an article with my own thoughts.

I then proceeded to contact Nick to ask if we could meet up and was happy to find that he was willing to talk about the article (although I do believe he was a little surprised). We spoke about the article’s content and, long story short, Nick explained that it had been written with a Halloween theme (at least, that was his intention). I then explained to him that we do need to be careful in what we say and present to others, which I encourage all of you to understand. The Word of God says that the Lord is against the practices described in Nick’s article (Deut.18:10-13, Lev. 20:6, 1 Chron. 10:13-14, Gal. 5:19-21, Rev. 21:8). Even an innocent article such as this could be used by the enemy to open doors.

The spiritual realm is very much real. Spirits are on the move, and their attack is specifically against us as Christians. These attacks often take the form of lies and temp-

tations. The enemy wants us to have the same destiny as himself, so he will do whatever is necessary to pluck us out of God’s hands. God is Spirit, and therefore we must realize that we cannot discredit the reality of a spiritual realm. The Bible says in Ephesians 6:11-12 that our battle is not against flesh and blood, but against the rulers, authorities, and powers of this dark world, and against the spiritual forces of evil in the heavenly realms. The influences we have are spiritual; it is not simply one human against another. There is an ongoing spiritual battle that continues every second of every day of our lives. Although we can’t see it, we shouldn’t discount it.

This is why we are called to put on the full armour of God, in order that we might stand against the devil’s schemes. We are to take up the belt of truth which is buckled around our waist, to walk secure in the truths of Jesus Christ and not the truths of this world.

The breastplate of righteousness will guard our hearts from things that want to pierce it, as our hearts are needed to fulfill our call to love both God and others (Matt. 22:36-40).

The readiness of the gospel of peace allows us to spread the good news fearlessly, bringing Christ’s peace to all those that hear it.

The shield of faith is our defence; we truly believe that God goes before us, and with this shield we can extinguish all the flaming arrows of the evil one.

Remember to put on the helmet of salvation because the enemy will do whatever he can to work his way into our minds, using lies and doubts that deny the very truth of God. With our helmets on, we are fully equipped to say “No Satan, I am covered by the blood of the Lamb that brings about my salvation, and you will not hinder it!”

In all things, our strongest weapon is the sword of the Spirit, which is the Word of God. The more time we spend in God’s Word, the sharper our swords will be. No one would want to fight for their life in battle with a dull sword.

Lastly, remember to be alert and pray about all things in the Spirit, as prayer is our communication to the Father through the Lord Jesus Christ.

It was nice to have met Nick, a gentleman with a humble spirit, and I would say we had a good conversation overall. I pray the best for him as well as each student at Redeemer. Blessings and peace in Christ.

Love Knows No Boundaries

A Reminder to Love the LGBTQ+ Community



COURTNEY PARKER

Mark 12 states that the most important commandment is to “love the Lord your God with all your heart and with all your soul and with all your mind and with all your strength.” This passage goes on to provide the second greatest commandment: “Love your neighbour as yourself.” Finally, Jesus tells His disciples that “there is no commandment greater than these.”

Redeemer, as a Christian community, is called to love.

There are many instances in the Bible where Jesus calls on His followers to show a love that is free of conditions, free of judgement, and free of expectations. One portrayal of this can be seen in John 8, where a woman accused of adultery was to be stoned to death. “When they kept on questioning him, he straightened up and said to them, ‘Let any one of you who is without sin be the first to throw a stone at her’” (John 8:7). In this time period, adultery was an act that would be heavily punished by religious figures. While not condoning her actions, Jesus calls on His followers to look towards their own faults before those of others and to respond to others with hearts of love, not of hatred.

In a different timeframe and on a different side of the world, this teaching can still be applied. The Canadian government has been guilty of showing a similar brand of in-

tolerance towards the LGBTQ+ community as was shown to the adulteress mentioned in John 8 thousands of years ago.

Let’s fast forward a few hundred years to the mid-1800s. Our government had deemed homosexuality as an illegal act that was punishable by death. By 1861, the penalty was lessened to imprisonment for a minimum of 10 years and a maximum of a life sentence. The Canadian criminal code criminalized homosexuality, deeming homosexuals as “dangerous sex offenders.”

About a century later, things began to change. The modern gay liberation movement picked up speed in North America when the unprecedented Stonewall Riots took place in New York City in the summer of 1969. In an attempt to raid a popular gay bar in NYC, the NYPD was overpowered by patrons of the bar who fought back powerfully.

In May 1969, Pierre Trudeau’s government passed Bill C-150, decriminalizing gay sex. In August 1971, Canada’s first protests for gay rights took place in Ottawa and Vancouver. In 1977, the Ontario Human Rights Commission was improved to prohibit discrimination based on sexual orientation.

An event in 1981, known as Canada’s Stonewall, saw Toronto police arrest nearly 300 men in raids, men who were then charged with “indecent acts.” The next day, 3,000 people flooded the streets and marched on the 52 Division

police precinct and in Queen’s Park. The previous day’s charges were dismissed.

Over the next 20 years in Canada, similar raids continued. A lawsuit resulting in specific training for police on their interaction with the LGBTQ+ community was also put forward.

In 2002, the Ontario Superior Court deemed that the prohibition of same-sex marriage was a violation of the Canadian Charter of Rights and Freedoms. A year later, Michael Leshner and Michael Stark were the first same-sex couple to marry.

While the LGBTQ+ community may have been granted their rights on paper, they still face much discrimination and harassment to this day. Bullying in schools is a major issue faced by our brothers and sisters. Redeemer is by no means immune to the discrimination and stereotypes that are rampant in today’s society.

“Man, don’t be such a faggot.” — overheard in the hallway.

“No homo, bro.” — a guy hugging his friend.

“Man, why do you have to be so gay about everything?” — a reply when someone was upset.

The words we use, even jokingly, can be hurtful and discriminatory. You wouldn’t even consider calling an autistic person an idiot, nor would you call a non-Christian a demon. God created us to all be unique. Each person is full of importance and worthy of love. When we exclude others from the Christian world, we are being discriminatory. We must continue to ensure that our LGBTQ+ brothers and sisters are welcomed and loved in environments that are free from discrimination and harassment.

When we claim that the LGBTQ+ is excluded from God’s love, we are being discriminatory and are going against our call to be more like Jesus. Jesus hung out with tax collectors, He defended prostitutes, He loved sinners. As Christians, we are called to follow Jesus’ example, standing up for the marginalized in our societies. Standing silent in the face of injustice is equivalent to standing on the side of the oppressor. “The King will reply, ‘Truly I tell you, whatever you did for one of the least of these brothers and sisters of mine, you did for me.’” (Matthew 25:40).

The LGBTQ+ community is very much alive, Christian or not. Be mindful of your words and of your heart.

So, Redeemer, whom do you love?

HOLY SHIFT

Why the Bible is Violent, Troubling, and still Good News



JONATHAN FISCHER
LAYOUT EDITOR

“When modern people read the Bible, we think it’s primitive, violent, and backwards.

Its first readers found it progressive, dangerous, and revolutionary.

What happened?”

About 2 years ago, Kevin Makins, the founding pastor of Eucharist Church in downtown Hamilton went on a bike trip through Ontario to stop at bars at night and speak about the Bible. His sermon/show, *Holy Shift*, is powerful, entertaining, and intellectually stimulating. Luckily, it has been recorded and is finally available online — for free!

You can find it at kevinmakins.com. To gain some insight on the creation of this show and the thoughts behind it, the Crown took some time this month to interview Kevin on his work.

When did you have this idea to bike all around Ontario, stop at bars every night, and speak about the Bible for over 60 minutes?

I think a lot of people reserve talking about the Bible for a certain time and place — usually Sunday morning around 11am. But that also tends to limit the conversation. People smile and act polite and ignore lots of really strange things in the Bible, including the parts that make us uncomfortable. But if you go to a bar, sit down in a chill environment, and drink a pint; it’s amazing how quickly people will start to open up with their real thoughts and questions.

Were you ever worried no one would show up?

Oh, absolutely terrified. And worried that if people did show up, they would be disappointed or confused by the content, because the show has some weird stuff in it. But fear is a crucial part of the creative process. Stephen Pressfield says, “The more scared we are of a work or calling, the more sure we can be that we have to do it.” So the fact that I was terrified was really a good sign.

What was your motivation behind Holy Shift? What compelled you to write it?

As a pastor in a secular city I talk to people all the time who feel like Jesus is compelling but the Bible is... well, you can insert your word: primitive, sexist, homophobic, violent.

To them, one of the largest barriers to Jesus is actually the Bible itself! That got me thinking more about it. However, when other Christians started coming up to me with the same concerns, I knew this mattered.

I knew I could give people books that would help answer their questions, but ordering and reading books is a high barrier to entry. I thought: What if we made a funny, engaging 60 minute video that gave some answers? Would that be an accessible option?

Tell us more about this show.

Holy Shift lives somewhere between a sermon, a TED talk, and a comedy special. It was filmed live in front of over 150 people and walks through the parts of the Bible we find most confusing (the Bible is full of penis laws) and disturbing (women are treated as spoils of war). The show then explores what the Bible is doing to its original audience and what that means for society, human progress, and for you as an individual. It’s designed to make you think, make you laugh, and make you cry; and I’m not sure in what order.

Do you think a lot of 21st Century evangelicalism is getting the Bible wrong?

Absolutely. But this show isn’t trying to argue that this is “the only” or “the best” way to read the Bible. I’m adding

to the conversation and trying to open up new and possibly more faithful ways to understand the text. All of what I am saying has been said by smarter scholars and theologians — I’m just making it accessible, free, and with more inappropriate jokes.

So the Bible is still relevant today?

More than ever before! We live in this fast moving culture, where the only things worth engaging have been around for, what, six months? A few weeks? Everything is hyper fast, immediately satisfying, and highly disposable. In that sort of busy world we desperately need an anchor to a story that is older, wiser, and bigger than us. We should also learn how to read it well!

Who did you make Holy Shift for?

Holy Shift is for anyone who has ever read the Bible and asked “Why is this here?” or “Why would God do that?” It’s for anyone who has friends or family that ask hard questions about the Bible. Finally, it’s for anyone who is interested in having good conversation — the show isn’t meant to be watched alone! So grab some friends, whip up a bowl of popcorn, watch the show together, and talk about it afterwards.



Kevin Makins, Pastor of Eucharist Church, presenting Holy Shift. (Photos: Kevin Makins)

Humans of Redeemer

EMMA ROORDA
REPORTER

In 2010, a man by the name of Brandon Stanton began a photographic project in New York City that would grow to become a #1 New York Times bestseller and photo blog boasting over 15 million followers worldwide. Initially, Stanton set out to create what he calls “an exhaustive catalogue of New York City’s inhabitants,” comprised of 10,000 photos plotted across a city map.

The concept took on a different form, however, as he began collecting pieces of conversation had with those he photographed. Photo captions would soon become as vital as the shots themselves, and, together, make for a captivating stream of stories, he entitled, ‘Humans of New York.’

Highlighting 6-8 Redeemer Students and Faculty each month, the Crown seeks to mimic Stanton’s idea on campus by asking a thoughtful or fun question, followed by taking a candid photo of the student, staff or faculty member included in each issue. We know that stories are powerful, so the goal here is to further uncover our own.

Scripture tells us to rejoice with those who rejoice, mourn with those who mourn, share the word of our testimony, and give glory to God in every season. This column is simply another means to do so and remind ourselves that our King, Jesus, is the ultimate author and finisher of our faith.

What is one class you’ve enjoyed taking at Redeemer?



I actually like all of my classes, but I’m going to say Dr. Wood’s Language of Film and TV class. I’m learning a lot, such as filmmaking and media techniques. We get to make our own film, that’s going to be fun. The professor is really cool — he’s a fellow American! It’s such a fun class, it’s so open and everyone participates. And we get to watch movies! It’s kind of hard work though, it’s not all fun and glamour. We have learned a lot of things. For my first paper I wrote on the movie *Hotel Rwanda*, and I had to watch the movie six times!



I don’t necessarily have a favourite class, but I’m really enjoying my APS class with Professor Shockness. She just has this aura that lends such an excitement to the atmosphere so I’m excited about learning. Even though it’s a lot of higher level thinking, it’s challenged me to reflect on soci-ety.



Diversity in Canada. Dr. Vanderwoerd is an awesome professor. I should know about this subject, I have a midterm in less than two hours! Hmmm, this is good studying, I guess. Well, I’ve been learning that oppression is a big thing in Canada and that most people are oppressive without even realizing it. Sad, but important to know.



Even though I’m not doing very good in it, I really like my music theory class because Dr. Bergs is the teacher. Literally the entire class is us making jokes about my progress, and it’s really fun. Music theory is my major, and I’m actually enjoying it a lot.



I really like Social Psychology. I think the content is really interesting, but I also like how the pro-fessor, Dr. Short, relates it to our faith and how we can take what we are learning in psych and see what God thinks about it. Applying faith to schoolwork makes everything more meaningful.



I like Calculus. Spysma is quite the interesting character, his jokes are on point. Calculus would be pretty rough without Spysma as the professor. It’s mainly his character that makes the con-tent more enjoyable.



This semester I have Chemistry, Biology, Calculus and then the two first year core. So let’s go with Bio. Biology is a really great course because Dr. Chiang takes time at the beginning of each class to share a devotional. He has an apparent genuine character for Christ. I like that.



Algebra. It’s early in the morning, so I feel excited to learn. I like learning the new concepts. The prof, Dr. Vander Meulen, is really nice. This is my first semester here, so I have noticed that math is a lot more work than the high school curriculum. It’s all more in-depth. In high school I didn’t have to study a whole bunch, but now I have to. It’s going okay.

Molecular Structures, Kissing Bugs, and Matrices Catching Up with Summer Student Researchers



JANELLE VANDER HOUT

What question was asked this summer, and what did it look like to pursue?

I, along with Chelsey Hurst, was working for Dr. Brouwer on developing an approach for determining molecular-scale crystal structures of network materials. For many of these materials, the structure is difficult or even impossible to determine by conventional techniques. The approach we were working on uses a method called nuclear magnetic resonance spectroscopy and some beautiful mathematics called combinatorial tiling theory to figure out these crystal structures.

Chelsey and I spent most of our time in the computer science lab. We built models of network materials, thought a lot about symmetry, made a poster to present at a chemistry conference, and computer-generated possible 2D network structures. We also spent time in the lab synthesizing zeolite network materials which we analyzed at McMaster University.

What were some challenges you encountered?

I think research itself is a challenge, but that is what makes it fun. You are investigating what no one has ever done before. You are attempting problems that no one has solved. The challenge of doing something new makes you learn.

What were some highlights?

Here is a funny highlight for me: a significant portion of my time was spent computer-generating possible 2D network structures. Dr. Brouwer suggested that when I had found all the possible arrangements of atoms in network structures I should check out a database (rcsr.anu.edu.au) and compare the structures they found with the possibilities that I found. Turns out, the database did not have all the possible structures. I emailed back and forth with Professor Michael O’Keeffe (the third most-cited chemist in the world from 2000 to 2010!) who was in charge of the database, and he named a 2D network structure “JVH” after me!

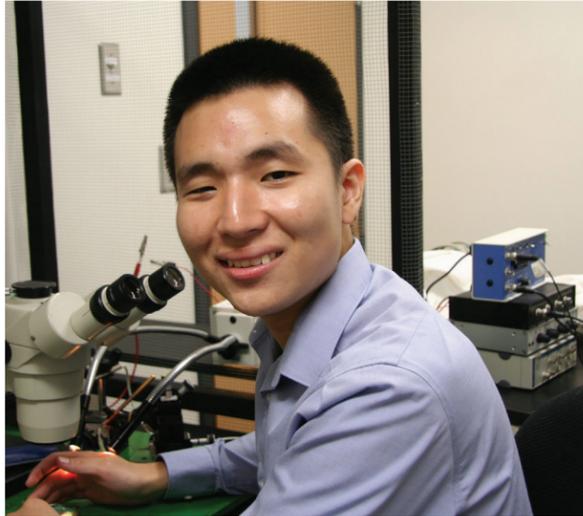
Another highlight was going to a chemistry conference in Québec City and presenting our poster. It was a valuable learning experience to get a glimpse into the world of research. It was also intimidating to present to such talented scientists, but it caused me to get out of my comfort zone and grow.

What’s next for the project?

A published paper containing all the computer-generated 2D structures. After that, the project could progress from theoretical 2D structures to being used to solve real 3D structures of complicated materials.

What’s something fun/funny you learned about the professor you worked with?

Dr. Brouwer comes up with creative ideas and gets really excited about research. It was fun to see him often come bounding in to the computer science lab to excitedly show us something new or share another lead on what to pursue next with the project.



JAMES NAPHTALI, BIOLOGY

What question was asked this summer, and what did it look like to pursue?

My research project focused on the male reproductive physiology of *Rhodnius prolixus*, commonly known as the kissing bug. The kissing bug has a pair of hook-like appendages that can extend out of its genitalia in its posterior side. These hooks are genital claspers, or “parameres.” In other insects, parameres are used by the male to hold on to the female while mating. For the kissing bug, however, the role of the parameres in mating has yet to be fully determined. Throughout the summer, I would sever these parameres in male kissing bugs to see how the absence of claspers affected their ability to inseminate their partner. So basically, my summer consisted of observing 30-plus pairs of kissing bugs mating, each of them taking a good hour to do their stuff. It was very odd, to say the least.

What were some challenges you encountered?

Due to the lack of previous scientific literature on the kissing bug’s mating habits, I was essentially trail-blazing new research methods to study the kissing bug’s reproductive behaviour. There were many variables I tested for that I thought contributed to the male’s ability to mate correctly, only to find out after further experimentation that such tests did not answer my research objectives. At the end, I judged the importance of the parameres’ role in ensuring successful mating based on the time it took for the male to complete insemination.

What were some highlights?

Although my research was focused on a niche scientific subject, designing and performing experiments in insect physiology during the summer exposed me to what scientific research is really like. The lab projects done in biology, chemistry, or physics courses are valuable for learning basic scientific concepts, but pursuing an independent research project requires greater ingenuity and insight on the part of researcher to sufficiently answer a research question. The highlight of this project was that I learned to design and refine my experiments by analyzing and improving the techniques of scientific literature and past experimental failures to accurately answer the research objective.

What’s next for the project?

I would like to take it towards a more physiological angle [on the project]. What happens if I measure male’s the electrical activity of the nerves in the male’s genitalia during mating? Or, what happens if I label the sperm of the male with a radioactive or fluorescent compound to reliably track whether or not insemination has occurred without parameres? Both questions can lead to a deeper understanding of the parameres’ role in mating.

What’s something fun/funny you learned about the professor you worked with?

A quote from Dr. Chiang, remarking on the appearance of the head of the kissing bug: “Don’t they look like Border Collies?”



JONATHAN FISCHER, MATHEMATICS

What question was asked this summer, and what did it look like to pursue?

Okay, so in linear algebra we work with these objects called matrices. They are basically two-dimensional grids with columns and rows and numbers as entries (think, for example, a Sudoku). Every matrix has what’s called a “characteristic polynomial.” This summer we focused on a special type of matrices called “companion matrices,” which have quite a complicated definition, but for our purposes can be understood as matrices that have, let’s say, a “nice” characteristic polynomial. Companion matrices can be further divided into subsets: they can be sparse or non-sparse. Dr. Vander Meulen and I were working on the non-sparse type of companion matrices this summer, looking specifically for a certain common pattern or structure.

What were some challenges you encountered?

To figure out an answer to this question, our first approach was to use Redeemer’s CS Servers to calculate characteristic polynomials for all matrices of a particular order. However, we quickly ran out of memory and the calculations were taking over two weeks to be completed. We made some good progress in a particular direction, however, by developing different methods to construct certain non-sparse companion matrices.

What were some highlights?

I really liked being involved in mathematical research. I had no idea what to expect at the beginning of the summer, but it was quite fun. It was also fun sharing an office with other summer researchers like Janelle and James (even though we were all doing completely different things). Dr. Vander Meulen and I worked together with two professors from the States, and they came and visited us for a week for a research intensive. My highlight was going to Montreal for CUMC, a Canadian conference about undergraduate mathematics.

What’s next for the project?

Right now it is on hold because we’re all busy with other things. But, like I said, we made some good progress. So we’ll see.

What’s something fun/funny you learned about the professor you worked with?

It was a joy learning more about mathematics from Dr. Vander Meulen. He is fun to work with, and his comments are always very insightful. We also got to make some math jokes. He took me out for lunch on my last day, which was great!

Redeemer University College is crowded with globally-minded citizens. Over the years, many students have taken a leap of faith and spent time visiting or living among an unfamiliar culture. Throughout the 2017-2018 academic school year, the Crown will be checking in with some of these courageous students who have chosen to follow the call to a new place. So come, learn from these God-fearing individuals, and join them as they discover the beautiful diversity here on planet earth.

Ottawa Ain't Exotic But it has Coffee, Bike Trails, and Meaningful Opportunities



MICHAEL FRIESEN

Today you may have picked up the *Crown* wondering questions such as *What Redeemer student in a foreign land can I read about today?* or *What strange adventures is a fellow student having overseas?* Well wonder no more mysterious *Crown* reader, and buckle your seat-belts while I take you on a wild ride to show you the exotic world of... Ottawa! Okay, yeah, not so foreign or exotic, but as a person who grew up overseas I can explain to you why a semester in Ottawa can be one of the most exciting and influential experiences of not only your university career, but potentially the rest of your life.

For those of you who don't know me, my name is Michael Friesen, and I'm a fourth year International Development major. This semester I am attending the Laurentian Leadership Centre located in downtown Ottawa. If the name sounds familiar to you, it's probably because you read one of the posters about it once, thought to yourself "Oh, that's cool," and then walked away and forgot all about it. The LLC is an internship program run through Trinity Western University that allows students a unique opportunity to live in the capital, take on an internship that teaches real world working skills, and take three classes during the semester to ensure that everyone has enough credits to count for a full semester (the internship counts as two full classes). This semester there are 15 students attending, 13 from Trinity Western, and two of us from Redeemer (myself and Ben Macadam, that ginger beauty). While that may sound a bit crowded, the three-storey J.R. Booth mansion that the LLC calls home (and Canada calls a national historic site) is more than accommodating for us all.

So that's all sunshine and roses, but what does this internship actually look like? Well, since I'm an InDev student, I've been interning at the Ottawa office of World Vision Canada. It's an office of about 15 people (as opposed to the Mississauga office of about 350) who mainly focus on government relations. I've spent the majority of the semester working on the topic of child labour alongside my supervisor with help from others in the office.

For any PoliSci geeks out there, what I have been doing will be really interesting. For those who don't care for politics, try to pick up a few big words from this short explanation of what we're doing so you can casually say them in front of your friends to sound smart. Under the federal government's Standing Committee on Foreign Affairs and International Development, there is a Subcommittee on International Human Rights that is conducting an official committee study on child labour and modern slavery. World Vision is working to lobby with MPs on the subcom-

mittee to push through a recommendation that would lead to legislation very similar to the UK's *Modern Slavery Act of 2015*.

Specifically within that act, World Vision is seeking to help enact legislation that would force large organizations operating in Canada with supply chains overseas to produce annual public reports of their impact on child labour, an impact which they may or may not currently be aware of. Through meetings with MPs and its expertise on the subject, World Vision has been asked to witness in front of this committee. In simpler terms, we want to make big companies do a report on their supply chains to fess up if they're using child labour.

In working in this area I've done so much this semester that I never thought I would have. I worked with a graphic designer to create a short briefing document; I had a hand in working on a written submission for a parliamentary committee; I've sat in on meetings with MPs; I helped brief the CEO before his testimony. This is all real world stuff, and what I have the chance to do is an opportunity that almost no other student will have.

What does my average day look like? Well, typically my alarm goes off at 7:45, I roll out of bed at 8:29, and then start class at 8:30. Class will go to 11:30 with a break in the middle — not unlike most Redeemer night classes. I'll try and grab breakfast or coffee during the break, sometimes from a nearby coffee shop (there are so many great ones in Ottawa — I wouldn't know, but it's what the coffee snobs tell me). I grab lunch and get ready for my internship, planning to get there by 1 o'clock. Fortunately, my office is on the way to Parliament so I can walk with a few others who work on the Hill (World Vision's building is about 2 streets down, we're kind of on the Slope). At work I'll either check in or meet with my supervisor and then work on whatever I have to do, usually something from a list of 6-7 projects I have on the go. I leave work at 5 o'clock, make it home around 5:10, and eat dinner with my "food group," a group of four of us that cook for each other and eat together. Evenings are free to hang out in the house, do homework, go for a bike ride, go to a reception — generally do any of the things that can only really be done when you live downtown. Ottawa sometimes gets a bad rap, but there are so many amazing things to do — sometimes you just need to look a bit harder.

If you read this whole thing and have one takeaway I hope it is this: the LLC isn't a co-op program where you become a free labourer in a frozen city. The house you live in is lit-

erally a mansion, and the work you do not only teaches you so much more than a classroom ever will but it will also GET YOU A JOB! The things I'm learning in my internship are highly sought after life skills and references on a resume, and that's something that should never be taken for granted. Who knows, the connections you make here may not land you a job right away, but maybe 20-30 years down the road they will.

Lastly, this isn't just a political program. Sure, you're in Ottawa and plugged into Canadian politics — but not everyone has to work in parliament. I'm working with an NGO, and we also have people working in a lawyer's office, a think tank, and a (whatever Maria does, I don't remember).

If you feel like this program might be right for you — APPLY! DO IT NOW! If you aren't sure how you feel about it, reach out and talk to someone about it. Ask Dr. Joustra about it, he loves the program! Hey, if you want, feel free to email me about it (mfriesen@redeemer.ca). I'd be more than happy to chat. Seriously, this is both the most valuable and all around fun semester of university you could ask for, and I can't recommend it enough. Sure it's not foreign and exotic, but hey, a semester here will make you glad you didn't go anywhere else.



Stress in Suffering, but Perseverance in Promise

Let's Take God's Word for It



SHAMS SIDDIQI

Suffering will always be part of our experience in the already-not-yet stage of the Kingdom of God. This is a sobering thought, but it is a reality that we must come to accept. I wish to talk about this issue because I can describe this past year by the challenge it has been and the suffering it has elicited.

One can say that suffering is a common university student experience with the difficulty of balancing school work and social lives. I find that this is a major struggle in Redeemer with the tight knit community that encourages robust fellowship with others in the community. Unfortunately, I would say that suffering is a natural part of life, and it always produces some kind of stress. How can we get through this pain? I would suggest that remembering the promises of God and the hope we have in Him are essential to challenging the heartaches of the already-not-yet. These things will encourage us to push through the suffering.

What do I mean by suffering? I can confidently say that it is an experience I know intimately. This is partly my fault due to poor decisions such as procrastination, staying up late, not sleeping enough, and overcommitting to too many things amongst other activities.

These activities, while good in and of themselves, can cause us to suffer because they drain our energy and make us unable to do other more important things. This often causes me to stress a lot over the work that needs to be done, leaving me paralyzed from doing any of that work. Therefore, kids — don't make poor choices when it comes to school-work and involvement!

I have also suffered this past year from things that were not my fault. My father passed away in February, and my family downsized over the summer. I worked for a summer day camp which, although it may seem easy for some people, was immensely challenging for me since it was my first time working in that context. This resulted in a massive amount of stress as I struggled to balance the practical aspects of work along with the emotional and spiritual toll it had on me.

Suffering has not been something that has only been present in this past year, but throughout my life, and so I long for the day when it is no longer present. My point with these examples is not for you to compare your experiences of suffering with mine. Instead, I merely wish to portray

the reality of life and affirm that your experiences of suffering are significant. These situations that are beyond our control create even more stress on us because of the powerlessness that we have over our circumstance. My point is that whether our suffering is a result of our own doing or not, it will be present until the return of Jesus our King. It is important to recognize that reality, that suffering is very significant and difficult to deal with.

What do we make of the reality of suffering in light of God's Word and promises to us? One passage that was recommended to me and has brought me immense comfort is Romans 8:18-30. These verses have helped me as they affirm the fact that suffering is a part of life until Christ returns, so as to encourage hope in our lives (verses 18-22). My focus has shifted from our present suffering to our future hope in Jesus (verses 24-25).

What makes it even more comforting is that the passage shows that this is not a reality that God is detached from, but that He is intimately present in our suffering through His Spirit (verses 22-27). Through His Spirit, God knows our suffering and has everything under His divine control and love (verses 28-30). Our God is in no way detached from our hardships, but rather knows them fully. This promise brings me comfort in times of stress and suffering.

Another promise from Romans that comforts me is in chapter 5, specifically verses 1-5. These verses remind me that God is not done His work within us and that this suffering, though painful, will amount to something great. Although we may suffer, our stresses can be eased through the promises of God found in His Word.

Therefore, no matter what we are suffering from, whether it is our fault or not, God's promises can help us endure through the pain. This has been so encouraging to me since my father passed away. After my father's death, I felt a large degree of hopelessness because I had never heard him confess a belief in Jesus. But God's promise that He knows my pain and that through this pain He is shaping me reminds me that no matter what suffering I face, I can rest in the hope we have in Christ. I must cling to His Word, never letting it become an afterthought when stress threatens to consume my life.

What will you choose — continuing to stress or living in perseverance through the strength of God's promise?

Romans 8:18-30

English Standard Version (ESV)

For I consider that the sufferings of this present time are not worth comparing with the glory that is to be revealed to us. For the creation waits with eager longing for the revealing of the sons of God. For the creation was subjected to futility, not willingly, but because of him who subjected it, in hope that the creation itself will be set free from its bondage to corruption and obtain the freedom of the glory of the children of God.

For we know that the whole creation has been groaning together in the pains of childbirth until now. And not only the creation, but we ourselves, who have the firstfruits of the Spirit, groan inwardly as we wait eagerly for adoption as sons, the redemption of our bodies. For in this hope we were saved. Now hope that is seen is not hope. For who hopes for what he sees? But if we hope for what we do not see, we wait for it with patience.

Likewise the Spirit helps us in our weakness. For we do not know what to pray for as we ought, but the Spirit himself intercedes for us with groanings too deep for words. And he who searches hearts knows what is the mind of the Spirit, because the Spirit intercedes for the saints according to the will of God.

And we know that for those who love God all things work together for good, for those who are called according to his purpose. For those whom he foreknew he also predestined to be conformed to the image of his Son, in order that he might be the firstborn among many brothers. And those whom he predestined he also called, and those whom he called he also justified, and those whom he justified he also glorified.

The Canadian Letters and Images Project Soldiers' Stories In Their Own Words

EMMA ROORDA
REPORTER

Remembrance Day, November 11 — just a simple excuse to sport a velvet red poppy pinned on your coat collar? Not at all. How can Remembrance Day be a time to actively remember and learn about the Canadians who fought for our freedom?

One resource that may assist in discovering the answer to this question is the Canadian Letters and Images Project (canadianletters.ca). This non-profit organization provides an online resource that is dedicated to educating Canadians about the reality of war. Since the year 2000, the History Department of Vancouver Island has made it their

goal to collect and share letters, photos, diaries, and stories written by Canadian soldiers with the hope to educate all Canadians and preserve these wartime resources for future generations.

The website tells us: “The materials help to recreate some of the richness of their lives, ordinary individuals who did extraordinary things for our nation.”

This conglomerative archive of writings and photos, made up of contributions from countless Canadian veterans, is a means to put a human face onto a sadly often forgotten

reality. Canadians will also learn to appreciate and lament the trials our veterans underwent to protect our nation's freedom.

For Redeemer students especially, this online experience can hit very close to home. Many of the soldiers represented are Hamilton natives, and most were around the age of many university students during their time of military service.

Take a look at these primary accounts from two Hamilton-borne World War One soldiers:

Hamilton Native Excerpt 1: Earl Winstel Sutherland

Earl Winstel Sutherland was born in Hamilton, Ontario in 1885. He enlisted in September, 1914 and served five years overseas until he returned to Hamilton in 1919. In this letter, Sutherland is writing to his mother with the hope of gaining her approval of his new wife. I suppose that romance in the WW1 era may have been a frenzy of young people trying to cling to a chance at love. Young men must have been desperate for some kind of romantic

relationship, particularly after the immense brutality of long days spent in the trenches. Pondering on this further, Sutherland's quest for romance amidst the war is relatable, even after the passing of a century. Earl is a young man who simply seems to want to find someone to share his life with — a human longing that is present no matter the era or quality of life.

February 16, 1919

Dear Very Dear Mother,

I hope that you will not condemn me for marrying a girl whose father was a German. I met her in the spring of 1916 by happening to see her in the restaurant where her mother worked. Her mother is not working there now but is staying at home. We were married at her church in London on Jan. 30th.

Now Dear Mother I hope I have not worried you too much. I know how easily you are worried, but please do not do it, both for my sake and Rosie's. She is a good living girl and has given her heart to God. I know it is only through God's wonderful grace that I have here today for my wife. So you may be thankful that God has been so wonderfully kind to me even though I am far away from home in a foreign land. We have been a great help to one another in overcoming the trials that are caused by this awful war. I hope this letter will find you well and also Father & Lila and that it will remove any worry which my silence may have caused.

With much love. Your own son,
Earl

Hamilton Native Excerpt 2: Eric Hearly

Eric Hearle, born in 1893, enlisted with the 4th Battalion in Hamilton, Ontario in September, 1914. After falling wounded on French terrain, he returned to Canada and studied at the University of Guelph. Following his studies, Hearle became an assistant entomologist with the federal government.

Hearle's first letter is particularly interesting because it is casual, yet personal. Hearle writes about Halloween excitement, ice rinks, and how his relatives despise his Ca-

nadian accent (all discussions that would not be strange amongst young Canadians today).

The second letter, in a more somber tone, paints a picture of the destructive weather conditions in the trenches. In a later note to his mother, Hearle informs her that the monsoon season has given him a severe cold that is causing him to become deaf. This shows readers the harsh conditions of WW1 trenches, which provided soldiers with very little protection in an often raging climate.

November 3, 1914

Dear Peggy,

I was feeling a little down in the dumps after coming off leave, and having nothing to do but sit alone in the tent and read magazines! But it felt good to read all the old Guelph News. I hope you had a good time at the Halloween and plenty of nice fantoms. I suppose there is no ice yet at the rinks they should have it down to a fine thing this year. I saw "Champ Hunder" & Lindsay again tonight.

I hope to get down to Exmouth for a weekend later on, but seem rather weak before Christmas. Aunt Bess was horrified at my Canadian Accent, and even more so when I said that you were developing one too. She was eased to no end by Betty & Uncle Paul who were quite Canadianized by the time I left.

Well ta ta for the present. I'll get a cup of hot coffee at the Canteen, and put my blankets down and go to roost.

Eric

November 23rd 1914

1st Canadian Contingent Burtrand Camp

Dear Mother,

You'd have smiled to see us this morning. Last night was one of the wettest that I have ever seen. Talk about monsoons and cloud bursts. We sure get them, and as it has rained persistently since we got here you can imagine the condition of the plains, they were literally flooded and in the grey morning we could see nothing but water. Many of the tents had to be left as they got flooded out, by vigorous goody torrents running through them. . . Just after one of the worst downpours a fellow asked me to lend him a knife to cut a hole in the side of his tent to let the water out.

Eric

To Be a Hero (Emma Roorda)

This is what I gave: My Life.
Because my first thought was to be a hero
to stand up
and shut down
the enemy
save my country
protect
the helpless
and I would return
victorious
Alive.
This is what I saw: Blood.
Hundreds
and hundreds
of innocent dead men
Hell.
my closest comrade with both legs
his left hand
blown off.
Hell.
Blood gushing from his mouth
from his forehead his chest.
This is what I left: my mother
my father
four sisters
one little brother. A Legacy.

Operation Jubilee (Emma Roorda)

Between the Crosses Row on Row
John McRae.
For the greater good That's what they say.
One falls For another To succeed
One man For another To proceed.
Oh the sorrow
the devastation Shots like hailstones no tomorrow.
Jubilee screams Celebration
But the men they cry in Depredation
Long Live Our Nation.



Canadian Letters and Images Project.

Athlete Spotlight Get to know your Royals!

KRISTEN BORGDORFF
REPORTER

Every month, since 2011, the Redeemer Athletics Department chooses one male and one female athlete that have shown exceptional skill, sportsmanlike attitude, and have all around earned a place in the spotlight. We had the opportunity to sit down with this month's athletes a few questions to allow you to get to know our Redeemer Royals in a different light.



DANIEL GROOTENBOER

What do you play and how did you start playing?

I play outdoor and indoor soccer, and I also run cross country. For outdoor soccer I played the left setter back. When I was three years old my parents signed me up for TimBits Soccer, it was the good ol' days.

What's your major and minor?

Kinesiology with a minor in Biology.

What's your favourite Netflix show?

Riverdale.

If you could meet one famous person who would it be?

Messi.

What's one thing you're thankful for?

I really value my health and ability to play and enjoy sports because it's something that is easy to take for granted. When it's gone you really miss it and realize how much it sucks when you're sick or injured.

What's one thing on your bucket list?

Going really fast in a sports car. I'm not sure I could specify how fast, just as fast as possible.

What does it mean to you to be a Redeemer Royal?

The thing I've really noticed between the Redeemer Royals and other college sports teams is that we are a really good team together; we care about each other as team mates, and we aren't super hard on each other when we make mistakes. We want the best for each other, we support each other through the hard times, we don't get angry with each other, and we glorify God in everything we do.



JESS BOSMA

What do you play and how did you start playing?

I'm the centre on the women's basketball team. When I was in grade three I played a lot of soccer, but one day my friend Allison convinced me to play basketball with her at lunch. I became addicted to the sport, and I've been playing ever since.

What's your major and minor?

I'm a Biology major with a minor in Chem.

If you could only eat one food every day for the rest of your life what would it be?

Cinnamon buns!

What's one thing on your bucket list?

Skydiving. I'm actually going pretty soon, so that's exciting.

What's one thing you've crossed off your bucket list?

I rode an elephant once at a circus.

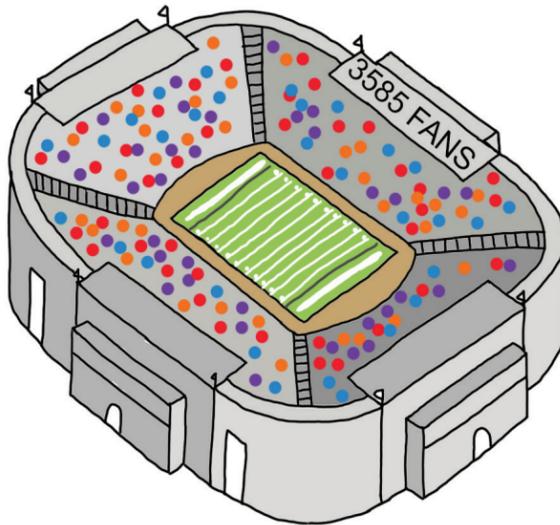
Cats or Dogs?

Dogs.

What does it mean to you to be a Redeemer Royal?

It means a lot, it's like you have a built-in family. I was a commuter and I didn't have the dorm life, so my team became my dorm.

10-k-Strong- 0-Metre!



This year, The Crown will be tracking Redeemer's goal of seeing 10,000 fans come to our home games. This unique graphic tracks our fans per month.

Each month, more dots (fans) will be added to the stadium, representing the goal we've reached.

Go Royals Go!

Royals Remain Perfect with Historic Win Against Hawks

PETER REID
SPORTS INFO. & MARKETING COORDINATOR

Going into Saturday's men's basketball contest against the Humber Hawks, the Redeemer Royals knew that this was likely the best opportunity they have ever had to knock off the perennial contenders. Having started the season 4-0, ranked #10 in Canada, and led by CCAA All-Canadian Rayvon Higdon, it appeared to be one of the first legitimate chances to compete with and defeat Humber.

With an 0-20 record against the hosts, Redeemer would not only need to defeat the #6 CCAA ranked Hawks, but they would need to do it on their home court, traditionally, one of the toughest places to play in the OCAA.

With all that pressure on the shoulders of the team as well as Coach Girolametto and his coaching staff, the Royals made history Saturday, defeating the Hawks 88-83.

With the win, Redeemer remains perfect at 5-0 and continues their record pace to start the 2017-18 season.

The loss for the Hawks was their first of the season, having previously scored over 100 points in all of their first 5 matches. Humber drops to 5-1.

Leading for most of the game, and enjoying a 14 point lead in the 2nd quarter, Redeemer battled through everything Humber was able to throw at them. Twice pulling the game to just one point in the second half, the Hawks were resilient. However, the Royals were able to stay composed, hitting a number of clutch shots. After the Hawks were down 84-83 with under a minute to play, Redeemer's Rayvon Higdon hit a layup that put the Royals up for good. Justin Lenters then iced the game with 2 made free throws in the final seconds.

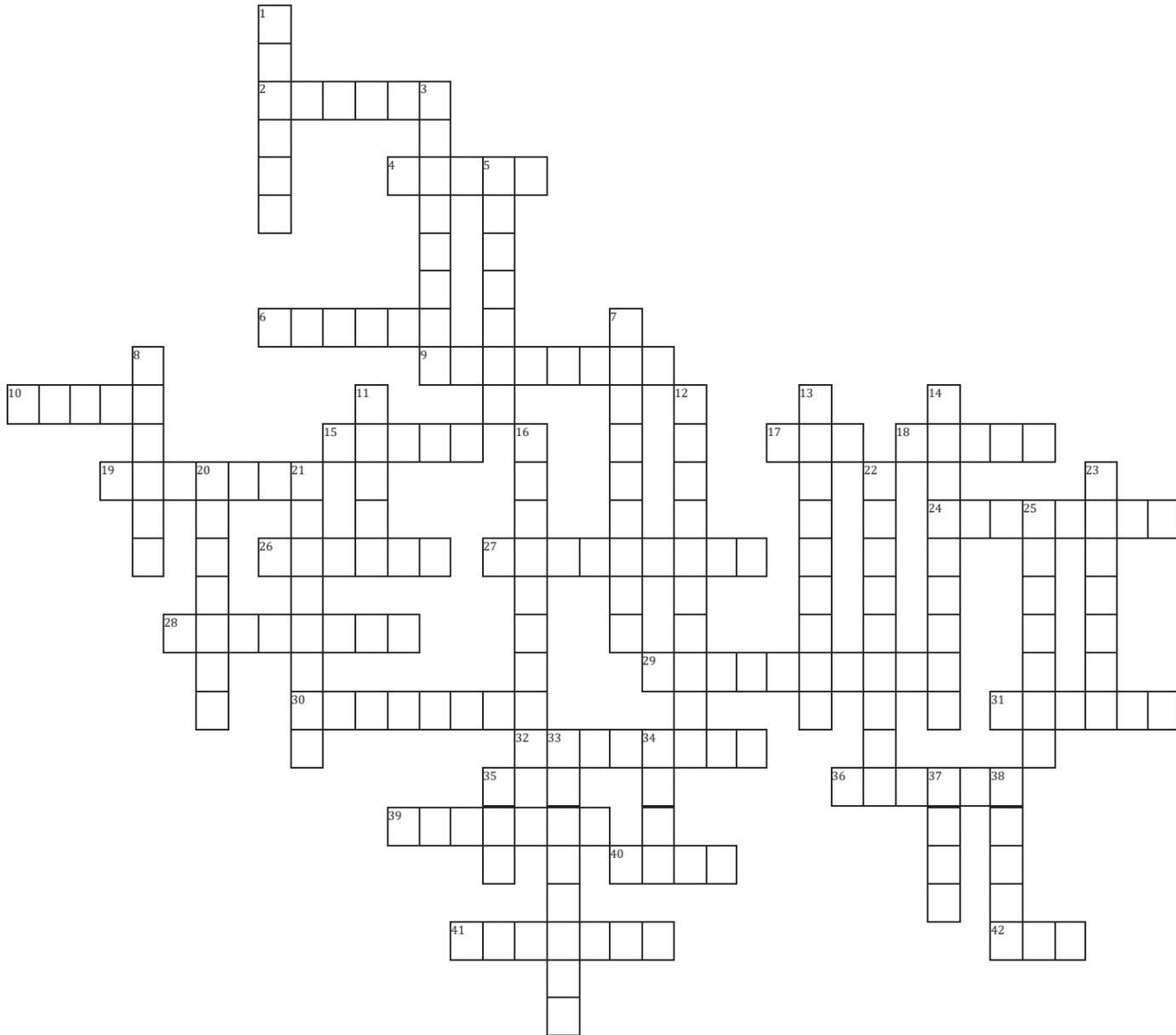
The Royals missed only 4 free-throws all night, making a total of 25.

Despite having Spencer Kerssies and Benn Ibrahim in foul trouble for most of the game, the Royals were still able to get open on the perimeter. Nick Green hit 5 three pointers, 4 in the first half, and finished with 23 points.

Redeemer's Rayvon Higdon was also solid for the Royals, finishing with a team-high 25 points and 10 rebounds.

The Royals will have little time to recover as they welcome the Niagara Knights (OCAA 4-1) on Wednesday night before traveling to UTM (OCAA 0-5) on Saturday.

Test Your Knowledge of Random Facts!



Across

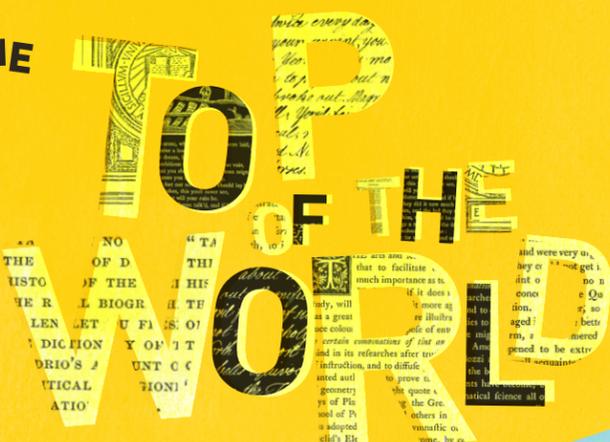
2. Large sea-like mammal with tusks.
4. Musical instrument that typically has 61 keys.
6. A bite-sized fried dough confectionery sold at a Canadian-based franchise.
9. First element listed on the periodic table of elements.
10. Redeemer's creative arts publication.
15. Popular Japanese dish often made with soy sauce or miso containing toppings like sliced pork, green onions, and nori.
17. Third colour on the Russian flag.
18. Last name of artist of the famous painting 'The Scream'.
19. Restaurant in Meadowlands that offers half price wings on Thursdays.
24. Walking in unision.
26. Common web browser found on Apple products.
27. Last name of Student Senate President.
28. In computation, 1,000,000,000 bytes.
29. Taylor Swift's new album.
30. Spicy sauce that is commonly misspelled in Refresh.
31. First name of Chair of Church in the Box.
32. Last name of President of Kenya.

Down

1. A small deciduous tree native to the eastern United States and Canada, producing a large, yellowish-green to brown fruit with a sweet, custardish flavor.
3. Nunavut's motto: "Our land, our _____"
5. A green fruit often eaten on toast by hipsters.
7. Make coffee.
8. This city hosted the 2004 Summer Olympics.
11. Soft drink created as a cola substitute in Germany during WWII.
12. A group of owls.
13. Waffle day.
14. Underwater boat.
16. Dutch butter cake.
20. Commonly used music app / website.
21. Ahab's first mate in the novel 'Moby Dick'.
22. The capital of the Federal Republic of Somalia.
23. Most popular boy name of 1995.
25. This Narnian prince travels to the end of the world by boat.
33. Raised.
34. Brand of cornstarch.
35. Acronym for Hamilton's transit system.

**REDEEMER UNIVERSITY COLLEGE
THEATRE ARTS DEPARTMENT**

THE



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