SPORTS

Thunder **Sports Update**

by Scott Bancarz

It has been a very busy Fall semester for Concordia Thunder Athletics. As per usual, 10 of the 12 Thunder teams kicked off their seasons in the Autumn with only Indoor Track and Badminton having to wait until January to get started. It is also typical that in the world of athletics, there have been some notable highlights...and a few lowlights.

Soccer

Right out of the gate, the Concordia Thunder soccer teams continued their tradition of excellence. The men's program under second year Head Coach Ian Skitch - put together a very competitive squad even though only six players returned from the 2014-15 edition of the team. Although the men fell just one victory shy of the playoffs, Coach Skitch's recruiting skills will pay dividends going forward as his steady hand will ensure some much needed stability for the program. The women's program saw a return to the CCAA National stage after a three year absence. Placing a very respect-

nament, Head

Coach Franco Imbrogno has a solid core of returning players already in place for next year and will be looking to better that result in 2016-17.

The Thunder Golf team also had a very successful season highlighted by a hole-in-one in the ACAC Championship

In Men's Hockey, second year Head Coach Dan Glegloff did a masterful recruiting job over the off-season and the infusion **Golf** of talent is beginning to show dividends. As of this writing, the team is just 4 points out of a playoff spot and are looking for a strong push down the stretch to

Hockey



practice round by team veteran Brendan Algeo.

Cross Country

In Cross-Country Running, Coach Matt Norminton took both of his veteran-laden teams to the CCAA National Championships where the women's team came within two points of taking the Bronze medal. On the men's side, Kirk Sundt just missed the medal podium with a strong fourth place individual finish

close the gap on the front run-

Basketball

In Basketball, the Thunder Women's team is starting to find their feet. After going 0 and 6 out of the gate, the Thunder has won 3 of their last 4 games and has put themselves back into the playoff picture. The Men's bball team has had a rockier-than-expected first semester and as of this writing, are sporting a 4-6 record with two games to go be- March.

ter with several players returning from injuries and academic restrictions. Volleyball

fore the Christmas break. There

are a number of bright spots on

the horizon though, as the team

will be getting an infusion of

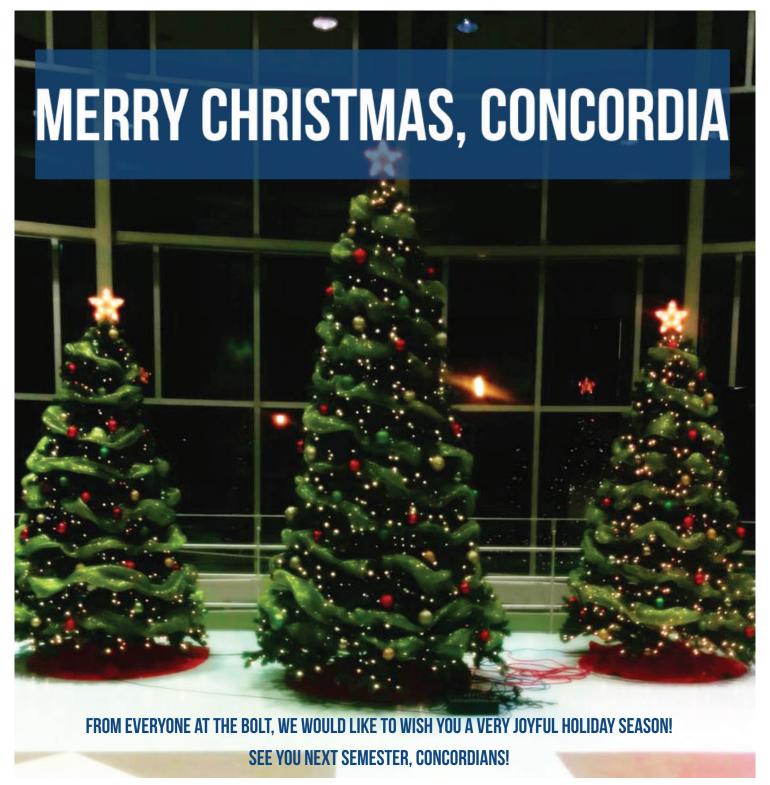
fresh blood in the second semes-

In Thunder Volleyball, both the men's and women's teams have struggled to find the win column. The women's team had only 4 athletes return from last year's squad and the new recruits are going through the growing pains of transitioning from high school ball to the ACAC level. On the men's side, The Thunder have played some very entertaining volleyball and have twice come within just a couple of points of winning matches but so far, that first victory has proved elusive. With a mid-semester coaching change, the Thunder Men have taken on a refreshed appearance on the court and are looking to push their opponents back after the Christmas break.

Curling

Finally, Thunder Curling is icing a mixed team for the 2015-16 season. With 4 of the 5 curlers being veterans, they will be strong contenders for ACAC Championship hardware come





THE BOLT'S TOP CHRISTMAS SONG LIST 🐥



DEAR ROUGE - HAVE YOURSELF A MERRY LITTLE CHRISTMAS . DONNY HATHAWAY - THIS CHRISTMAS KANYE WEST & BEYONCE - CHRISTMAS IN HARLEM - MARIAH CAREY - ALL I WANT FOR CHRISTMAS IS YOU RUN DMC - CHRISTMAS IN HOLLIS · BING CROSBY - WHITE CHRISTMAS · FRANK SINATRA - JINGLE BELLS BAND AID 1984 - DO THEY KNOW IT'S CHRISTMAS

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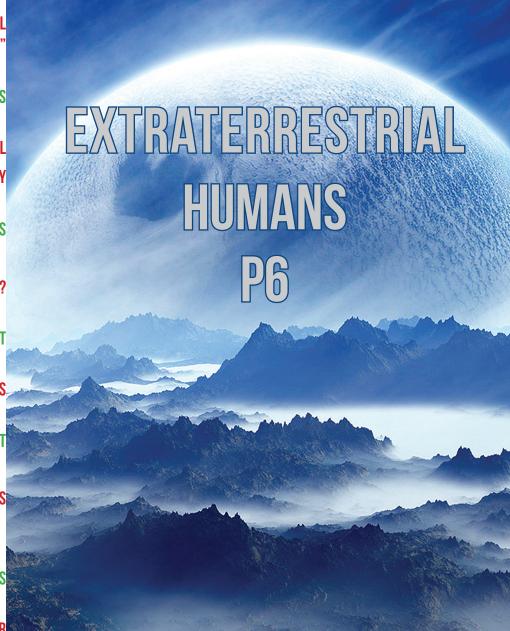
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SPORTS

		MEN'S		
		BASKETBALL		
NOVEMBER 27	NAIT (95)	CUE (67)	8:00	NAIT
NOVEMBER 28	CUE (102)	NAIT (104)	8:00 (4 OT)	CUE
DECEMBER 8	GPRC	CUE	8:00	GPRC
DECEMBER 9	GPRC	CUE	3:00	GPRC
DECEMBER 15	TKU	CUE	8:00	KING'S
		WOMEN'S		
		BASKETBALL		
NOVEMBER 27	NAIT (70)	CUE (47)	6:00	NAIT
NOVEMBER 28	CUE (59)	NAIT (80)	6:00	CUE
DECEMBER 8	GPRC	CUE	6:00	GPRC
DECEMBER 9	GPRC	CUE	1:00	GPRC
DECEMBER 15	TKU	CUE	6:00	KING'S
MEN'S BASKETBALL STANDINGS				

NORTH DIVISION		GP	w	L	PTS
mod R	KEYANO HUSKIES	12	11	1	22
	NAIT OOKS	12	10	2	20
*	LAKELAND RUSTLERS	12	6	6	12
White	GPRC WOLVES	12	5	7	10
	KING'S EAGLES	12	5	7	10
THUNDER	CONCORDIA THUNDER	12	4	8	8
VIKINGS	UOFA-AUGUSTANA VIKINGS	12	1	11	2

WOMEN'S BASKETBALL STANDINGS

	NORTH DIVISION	GP	W	L	POINTS
*	LAKELAND RUSTLERS	12	12	0	24
0013	NAIT OOKS	12	10	2	20
White	GPRC WOLVES	12	7	5	14
VIKINGS	UOFA-AUGUSTANA VIKINGS	12	6	6	12
A CONTRACTOR OF THE PARTY OF TH	KEYANO HUSKIES	12	4	8	8
THUNDER	CONCORDIA THUNDER	12	3	9	6

SPORTS ACAC STANDINGS

MEN'S HOCKEY STANDINGS

TEAM	GP	w	L	OTL	T	GF
NAIT	16	16	0	0	0	32
VICINIES UOFA-AUGUSTANA	18	10	3	2	3	25
RED DEER COLLEGE	18	10	6	0	2	22
KEYANO COLLEGE	18	9	6	1	2	21
PORTAGE COLLEGE	18	7	6	0	5	19
SAIT POLYTECHNIC	18	6	8	0	4	16
MACEWAN UNIVERSITY	18	6	10	1	1	14
THUNDER CONCORDIA	18	5	9	3	1	14
BRIERCREST COLLEGE	18	2	16	0	0	4

WOMEN'S VOLLEYBALL STANDINGS

TEAM		MP	MW	ML	PTS
	THE KING'S UNIVERSITY	12	12	0	24
White	GPRC	12	8	4	16
*	LAKELAND COLLEGE	12	7	5	14
	KEYANO COLLEGE	12	7	5	14
	NAIT	12	6	6	12
VIKENGS	UOFA-AUGUSTANA	12	2	10	4
THUNDER	CONCORDIA UNIVERSITY	12	0	12	0

MEN'S VOLLEYBALL STANDINGS

TEAM		MP	MW	ML	PTS
VIKINGS	UOFA-AUGUSTANA	12	9	3	18
PATRICIA .	KEYANO COLLEGE	12	9	3	18
	THE KING'S UNIVERSITY	12	8	4	16
	NAIT	12	8	4	14
THUNDER	CONCORDIA UNIVERSITY	12	0	12	0



POLITICS

"Daesh" and the Ideological De-legitimization of "ISIS"

by Simone Alaine Polo

As of late, a particular trend

has been picking up in terms of how to refer to the terrorist organization most commonly known as "ISIS." The term "Daesh" has begun to circulate major political circles as a method of displacing the ideological stature that this organization has in relation to Islam and the rest of the world. The use of the term "Daesh" has been reported to provoke anger out of members of this organization (NY Daily News), who have shown preference for the terms "ISIS' and "ISIL" given to it in the past. This shift in discursive practices notes a change in how the subject of the Daesh is conceived, why should one use a certain one over others? If we return to an earlier article on the Socio-Politico-Cultural, we must remember some of the comments highlighted by social crit-

Butler. "In order to have a subject that is subjected, or rather subject under subjection, it has to be produced; and this act of production makes a subject which becomes culturally intelligible" (The Socio-Politico-Cultural) – this is the current discursive change in our understanding of the Daesh; in the terms of Ferdinand de Saussure, the signified organization has been given a signifier through the term "Daesh" to further establish its political relations in terms of mutual hostility, the being, or the subject of the organization signified has been changed by the signifier in place, for the intent is to delegitimize its status as representative of Islam to Western discourse.

ics, Michel Foucault and Judith

To understand the change effected by a change in signifiers, one must understand the meaning of "Daesh." "Daesh is an acronym that stands for the Arabic name of the Islamic State: Al-Dawla al-Islamiya fi al-Iraq wa al-Sham" (Global News) in this sense, the term "Daesh" literally translates as something very similar to what "ISIS" and "ISIL" have stood for. Nonetheless, mere semantics under-

of this change in signifiers. Daesh "sounds like an insult, resembling the Arabic word "daes," which refers to something that stomps, or crushes" (CTV News); some have also associated the term to reflect the destruction of temples, which in turn reflect the un-Islamic character of the organization. Thus, it is in the terms of a caricaturing depiction that the ire of the organization signified as Daesh is triggered.

This practice can be analogous to some extent to the use of the term "cisgender" in the discourse of sex at gender, for both displacements of the signifiers – from ISIS to Daesh; from man/woman to cisgender - aim at change in the normative practices and ideas surrounding what is signified.

However, it is this very caricaturing depiction that brings the "Daesh" signifier into question - the caricaturing signifier is ultimately aiming at a de-legitimization of the organization as a state and as Islamic. Nonetheless, in literal translation, these terms are still referred to; thus, to call the organization Daesh only displaces the ideas of state and Islam for the Western dismines the symbolic importance cursive practices (of those who

lack knowledge of Arabic). The caricature-esque character of the "Daesh" signifier has been criticized in another regard the discursive practice of the term "Daesh" displaces the legitimacy of the threat for an infantile defence mechanism; it is the notion that the organization gets "pissed off" at being called names it doesn't like, and we want to do it because it doesn't like it. This displacement aims at a commodification of the traumatic experience of the West through a denial of threat - whereas this is not an open venue to those who live under the Daesh regime, for to use the term disliked by the regime rewards one with losing one's

I shall admit my own uncertainty upon which term to use; thus, I shall end the article with an open question: What kind of discursive practices are most adequate to refer to the organization most commonly known as "ISIS"? What is the benefit of utilizing diverse signifiers? And in what ways do we want to change our understanding of what is signified by the signifiers we utilize?

The Power of

Words

by Adrianna Blitterswyk

Words are the building blocks of the world. Through speech, poetry and literature words express the emotions, ideas and hopes of the human population. Words hold historical value. The diversity of languages spoken today demonstrate the vast complexity of words. Without the influence of words we would be missing a major piece of fabric in human existence.

In the world today there are over 6,000 different languages spoken. The languages of English, French, Italian, Portuguese, Arabic, Mandarin and Dutch are only a microcosm found in the larger world. Through these languages it is found that there is more than a thousand ways to say something as simple as "Hello" or "Thank You". Words have proven to hold power and mean-

through which change ocexpress their thoughts and ideas through the me-

dium of words and language positive changes are possible. Take for instance the words of can be said about the traditions F. Scott Fitzgerald in the Great

Gatsby- "Whenever you feel like criticizing anyone, just re-

member that all the people in this world haven't had the ad-

vantages you've had". Fitzgerald's words can spark a thousand

different thoughts. Through this quote it is illuminated that not

everyone comes from the same upbringing but that this differ-

ence makes us human, thereby to discourage others is to dis-

> courage yourself. It is evident that words cause us to think, and

those thoughts turn into ideas,

those ideas into opinions and

opinions into our emotions, our emotions ultimately making us

poets past and present hold the through the medium of words. I ability to capture a reader, the find it so bewildering how much

words they share have the power one word can have. One

change in our world. The mecurs. When people are able dium of literature is something that should be held on to as it

> is a common recorded form of communication that has lasted and will last forever. The same

of oral storytelling and public speaking. Words have proven to

last and live through generations

of people as they have been re-

peated and shared over time. In

Shakespeare's "Sonnet 55" it is expressed that "Not marble, nor

gilded monuments/ Of princ-

es, shall outlive this powerful

rhyme/" (Shakespeare 1-2), as

he states that the words of his

poem will live on forever, while the physical entities of the world

ers throughout the history of the will not. Even though Shake-

world are remembered not just speare is also expressing that his because of their great impact but

love will stay alive through his

also the change they were able words, it is still prevalent that

to create by using their words to words do outlast the physical sway others rather than the hand

Words are our way of expression; Words from great authors and we read, talk, sing and write all

world as we know it.

to spark powerful new thoughts may say that "Sticks and stones

erful enough to cause a real will never hurt me", but the and worth in every single one.

take a moment to appreciate the freedom words allow us in our lives. Words grow and fade just like every human and we need to within a reader, some even pow- may break my bones but words remember that there is meaning

As you go on through your week,

of violence.

truth of the matter is that words

have both the power to hurt and

destroy as well as the power to

build and uplift. Words are a

weapon that needs to be chosen

wisely and with good intentions.

Significant individuals through-

out the history of the world are

remembered because of their

provoking speeches and words

shared while still living. Take

for instance the words of Ma-

hatma Gandhi- "Be the Change

you want to see in the world" or

those of Martin Luther King

that "We must build dikes of

courage to hold back the flood

of fear". Both of these promi-

nent figures amongst many oth-

THUNDER SPORTS

		HOCKEY		
NOVEMBER 27	RDC (6)	CUE (3)	8:15	BILL HUNTER ARENA
NOVEMBER 28	CUE (2)	RDC (1)	7:00	PENHOLD ARENA
DECEMBER 8	SAIT	CUE	7:00	SAIT ARENA
DECEMBER 9	CUE	SAIT	8:15	CLAREVIEW
DECEMBER 15	GMU	CUE	8:15	BILL HUNTER ARENA
		WOMEN'S		
		VOLLEYBALL		
NOVEMBER 27	CUE (O)	NAIT (3)	6:00	CUE
NOVEMBER 28	NAIT (3)	CUE (O)	6:00	NAIT
DECEMBER 8	CUE	UAA	6:00	CUE
DECEMBER 9	UAA	CUE	6:00	UAA
DECEMBER 15	CUE	LAKELAND	6:00	CUE
		MEN'S		
		VOLLEYBALL		
NOVEMBER 27	CUE (1)	NAIT (3)	8:00	CUE
NOVEMBER 28	NAIT (3)	CUE (1)	8:00	NAIT
DECEMBER 8	CUE	UAA	8:00	CUE
DECEMBER 9	UAA	CUE	8:00	UAA
DECEMBER 15	CUE	LAKELAND	8:00	CUE

CROSS COUNTRY TEAMS

	WOMEN	MEN
1 ST	LETHBRIDGE COLLEGE	LETHBRIDGE COLLEGE
2 ND	CONCORDIA UNIVERSITY	CONCORDIA UNIVERSITY
3 RD	RED DEER COLLEGE	SAIT POLYTECH

INDIVIDUAL

	WOMEN	MEN	
1 ST	JAMIE WIGMORE — GPRC	ALEX HARDING — LETH	
2 ND	MARRIYA JENKINS — CUE	KIRK SUNDT - CUE	D THE
3 RD	EMILY LUCAS — LETH	ANDREW HARDING — LETH	BOL

Barriers to Women's Career Success

by Kira Pelletier

Today, there are more women than ever as part of the workforce. As a politically minded female management student, women leadership is an important topic for me, especially women leadership in politics. Still today, there are many barriers to women leadership, barriers that affect every women in almost every career path.

The first barrier blocking women from succeeding is the invisible glass ceiling. The glass ceiling allows women to view higher level jobs, but are unable to reach them. It is an obstacle in the way of female career advancement especially to the top of large companies. Still today in most large corporations the existing top management are men. Men are more likely to promote other men into top management positions, because they more commonly share their perspective. In Canada, only 20.8% of membership on corporate boards are women. This is slightly better than the USA where only 19.2% are women. Norway is best country with 35.5% of members of corporate board members are women . The glass ceiling, is mostly present in large corporations and applies to

The second barrier is familial as well as personal health. Women,



of jobs that may be unacceptable are anything where local men who do not view women as equal have to report to report to female supervisors The fourth barrier for women

is stereotypes and behaviours.

There is a recurring idea among

caregiver, are more

prone to worry about the effects

of their jobs on their families.

Women who have children are

less likely to to travel long dis-

tance over an extended period of

time. They worry about the po-

tential of having to uproot their

family if they are offered a job in

a different location. A growing

cause for women to put their ca-

reer on the back burners is that

once they go back to work a lot

of companies do not have proper

supports to assist new parents.

The first six months after the re-

turn from maternity leave are es-

sential in determining a woman's

future work path and whether

they can juggle both a career and

children. Some companies have

started programs such as mentor

moms, which pairs new moms

with other working moms to

learn how to juggle. Another way

companies help women come

back to work is the phase back

to work program. The first week

back, women only do 50% of

their regular workload, then the

second week they do 75% and fi-

nally the third week they are up

to 100%. Women also tend to

look at how their career choices

affect their mental and physical

health more than men. If a ca-

reer choice is damaging to their

physical or mental health wom-

en are more likely to re-evaluate

huge issue, is globalization. In

many cultures today, women are

still not accepted as equals. For

Canadians, with our 50% wom-

en cabinet, we would struggle

with cultures where women are

not viewed as equal. So, for the

travelling businesswomen, au-

thority issues have been known

to arise in a culture unaccepting

of women in power. The types

The third barrier, another

and change career paths.

many that women do not have what it takes to be a leader. The social role theory explains how people tend to picture the same characteristics when thinking of a leader. These characteristics just happen to be characteristics of typical male behaviour. Although there are different approaches to management, typical female behaviour tends to undermine confidence in them as leaders. Right now, cultural and societal norms of seeing the men as the protector and women as the nurturer.Part of the problems with these stereotypes are that they are unconscious. People don't often realize they have these sterotypes. A popular trend among blooming female leaders is to lean in. Sheryl Sandberg wrote the the book Lean In, to encourage women to ask for want they want in their careers and to be more aggressive. The good news is that like the glass ceiling this barrier is slowly being fazed as there is more evidence that this is changing and that stereotypes are starting to change. More men are working to understand women leadership. Election results recently have shown that people are more comfortable with women in a position of power. Having two female premiers of Alberta and so many female members of government at all levels. There stereotypes beliefs are starting to be phased out as men and women become more educated.

The fifth barrier is the oppor-

tunities and types of employment. Because of families, women tend to have non-standard employment. They work part time, tele-commute and have shift work. The problem with this type of employment is that nonstandard employees do not often get the promotions that full time employees do.

CMC News

The CMC is having a bake

sale on Friday December 4th. Our annual networking conference will be held on Saturday, February 6 at the Derrick. This is a great opportunity to network with business professionals within your emphasis. The conference is especially recommended for third and fourth year students, but ALL management students are welcome. Keep your eyes peeled for the new apparel designs that will be released the week before classes end for the semester. The CMC is excited to announce that we are providing all 4 options for apparel: cardigans, sweatshirts, pullover and zip up hoodies. Orders will be taken the week of January 18-22 in Tegler, there will also be sample sizes in Tegler so that you be sure to order the right size. If you are a management student who is graduating after this semester but still want apparel please contact the CMC. To get updates on what the CMC is doing keep checking our Facebook, Twitter, Linkedin or our web page. If you want to get involved or have any questions, email us at cmc@student.concordia.ab.ca. If you have any pressing concerns, the management student representative, Kira Pelletier, has office hours from 8:15am-9:15am on Tuesdays and Thursdays.

& Global Responsibility

by Kayle Sieben

This week, Rachel Notley and the Alberta's NDP unveiled their new plan to tackle climate change. The plan includes a carbon tax (while setting the limit on emissions to 100 megatonnes), the phasing out of coal-fired power by 2030, and reinvesting that carbon tax levy into clean energy research, green infrastructure as well as residential energy reduction programs throughout the province.

This comes as a major shock to the portion of the populous who seem to be unambiguously opposed to the idea that Alberta plays a major role in emitting greenhouse gases.

As someone who tries to remain globally conscious, this motion passed by the NDP government has me excited for the future of our province. Personally, I'm offended the slogan "Texas of the North," as you may have heard being used to describe Alberta in the past. I'd like to think of our society as being more civilized than the gun-wielding, fast food completely electric. Investment they will disguise these profits

care having Texans!

Okay, okay. Deep breaths.

slanging, non-universal health-

The fact of the matter is that Carbon Tax even Shell, Cenovus, Suncor, and Canadian Natural Resources Limited have spoken out in support of the carbon tax, set to be rolled out in 2017. Taxation will begin at \$20/tonne in 2017, and increase to \$30/tonne in 2018. It's an ambitious move for the newly elected NDP, and a bold move for the future of our

As you may have noticed in the past year, the price of oil has dropped significantly. This was a direct result of Saudi Arabia producing a surplus of oil after re-opening multiple refineries in the middle east. Instead of decreasing their production to match the demand, thus keeping the price steady, they elected to

Of course this can't last forever; there's only so much oil to produce. However, with such major investments into sustainable energy, like the \$1 billion I am yet to hear a fair response lieve we hold a responsibility to investment from Bill Gates' personal account, the days of oil being the global industry dominator could be numbered. Companies like Tesla want to rid the auto industry of being dependent on fossil fuels to become

in green technology continues as net losses because of cancelled to gain traction worldwide. Climate change is a global crisis, and it's about time our government responded to it.

the layoffs come down to greed and lack of diversity within our economy. These companies annually turn in profits ranging from hundreds of millions to several billion. Let's crunch simply to appease their investors. the numbers on a scenario we (which received similar backlash). For the record, corpowould take home \$900,000 profthey will take home \$880,000. The difference of only \$20,000. as to why 2% of profits warrants thousands of layoffs province wide, because the only justification is greed.

infrastructure investments. This is where lack of diversity plays a small role. With investment being haulted, these companies Job loss is a significant counwill naturally have an excess terpoint of those complaining of employees. Yet, it's unjust to about the recent changes in Alsimply cut off the well-being of berta. The fact of the matter is, thousands of lives. I think there should be more responsibility for these companies to repurpose those employees being left behind. Companies ought to work for the betterment of society, not

In Alberta, we're relatively have the facts for: corporate tax secluded from risk of natural disaster. Climate change doesn't really affect us for the most part, rate tax rates are applicable to vet we're one of the major conthose companies making over tributors. In fact, the countries \$500,000 after all expenses have who will suffer the most hapbeen paid (employees, stock, pen to be some of the poorest, equipment, etc). Now, for sim- non-polluting countries in the plicity, let's say a company turns world. These nations stand little continue to refine an abundance in a profit of \$1,000,000. In the chance in combatting rising sea old tax rate (10%), this company levels, stronger natural disasters, and a consistently rising temit. Under the new tax rate (12%), perature. Unless our world rises up, this could be the defining issue of the 21st century. I bedo what we can to combat global

> We need to rise up, Alberta, and emit the message to the Despite these changes and the globe that we will lead the way drops in oil prices, these comto a better tomorrow for everypanies will turn in profits. Yet, one.



SERIAL HI

Extraterrestrial

Humans

by Austin Schuester

It all started when they had found footprints on the surface of sterile planets at the edge of a new solar system. They were distinctly, unmistakably, human footprints. Naturally, after such a discovery, the race was on to get to the inner planets of this new solar system, where probes had revealed a planet that was almost identical to Earth itself . . .

The landing pod landed uneasily on the ground, sending the three of us forward with a lurch, Stacy and Zyk were unconscious, bleeding. I was disoriented and on the ground of the pod when I opened my eyes, smoke quickly filled the cabin. I coughed and tried to wake the others up, but stopped when I saw the human-

just another....

Earth? I thought to myself, plentiful percentage of oxygen, scrambling to get a connection flooding every cell in my body with the command ship in space. with life. I was shaking now, and AI would tell them we've blinding light from a sun like

I stepped out onto... grass . . stalks. The sky darkened and be-. Grass! The sky was a little bit fore long, it started to rain. The of a darker shade of blue than Earth's but it was still undeniably blue. Plants surrounded me, neath my very feet began to go not the trees that I grew accustomed to back home, but plants twice as tall. They were a stranger shade of green, lighter and istically familiar sight of a blue more bluish than on Earth. My man, a human man around sevsky outside the window of the wrist pad told me that the air en or eight feet tall, bald, eloncomposition was 32 % Oxygen, gated, and naked. I mirrored his

space, % trace gasses. I shook my head into each other's eyes, staring. I it looked like in frightened disbelief. I took trembled a little. The dissatisfy-Earth. Was it off my respirator. I breathed in ing feeling of now, feeling as if the air, my lungs drinking the

FUN & GAMES

Drawing a Blank

ACROSS

- 1. Conflicting 6. It may get get plastered
- 10. Faithful
- 14. Time to cut it close?
- 15. Grimm bad guy 16. Parks on a bus
- 17. Chronicler of a mammal/amphibian challenge
- 18. It's on a roll for decorators
- 20. Kettle contents
- 22. Respect them 23. Strands in 45 across, perhaps
- 24. Potential paternity proof
- 25. White, blue, and red banner
- 32. Belmont advice 36. One on the Mohs
- Select
- 38. Word when Juan went?
- 40. Even so
- 41. Goshawk's gripper 42. Feature of some VH-1 videos
- 43. Emulated an axle or
- an axel 45. It gets 22 hours of sun on 6/21
- 46. Description of Joseph (John) Merrick
- 49. "Strange Magic' rockers 50. Conservative
- complaint 55. Spread out
- 59. Zoomorphic Pepperidge Farm cracker

- in CA
 - islander 30. One fifth of a
- methane molecule garage
- 6. Rob who played a 32. Record robber in "Frank & 33. Word with American
- cream, perhaps

This puzzle was created using CrossFire (http://beekeeperlabs.com/crossfire)

8. MTV "top ten" show

9. The seat of Lewis

10. The most prolific

19. Earth, e.g.

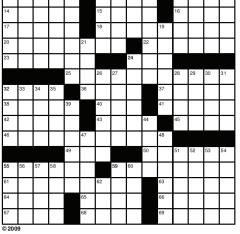
24. Judgmental

statement?

and Clark County

- 64. She played Camille in "Quantum of
- 65. He played Obi-Wan 66. It's often worn on an
- old shoelace
- 67. Word with late or lunch
- 68. He paid attention to the man behind the curtain
- 69. Bedevil

- 1. Brew at a sushi bar 26. Declines 2. FOX teen drama set 27. Sought beauty?
- 28. Diego's dessert 3. Leave food on one's 29. Eponymous Disney plate, for example
- 4. Maintains 5. Get it from the
 - 31.24 across portion
- Jesse" or film 7. Seaweed in ice 34. Corncob, for one



35. Du jour item 39. Object with minimum surface

Robert Stockton

- songwriter in hist.? 44. NBC division? Product made from 47. Not even close Cannabis Sativa
- 48. Acknowledges 12. Kind of group or briefly manual
- 51. Legal, in a way 13. Pencil holders'
- 52. Nabisco wafer Park, Colorado 21. Hardware fastener
 - 54. Word which can precede each component of 18, 20, 25, 46, 59, and
 - 61 across 55. "That's not good!"
 - 56. Court plea. informally
 - 57. Its famous for having a bad liver
 - **58.** DOD part-timers
 - 59. Summer swarmer 60. Vintner's prefix
 - 62. Part of a Japanese island

ROSSWORD



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

WEEK 1: "DURING A TEST; PEOPLE LOOK UP FOR INSPIRATION, DOWN IN DESPERA-

WEEK 2: "'BAH,' SAID SCROOGE, 'HUMBUG."

-CHARLES DICKENS. A CHRISTMAS CAROL





Well, to hell with it. Our sensors crying, laughing, on my knees, looking at the ground. The crashed. They'd send help for grass was the same color as the us. Zyk and Stacy were alive. I trees. I could feel the sun on my shot to my feet and regretted it, neck. "It's like... Earth. It's like instantly feeling dizzy. I secured home!" I said, into the micromy respirator with shaking phone. I could hear them cheerhands and opened the airlock. I ing through the earpiece. Well, waited for it to pump the air. It there I was, the very first human opened like a curtain. There was on Mundus Viridas. The plants had thick trunks the same color as their leaves, like big beansounds of the wind and water on the new world that was right bequiet. I could hear something. The fantasy-like beanstalks separated and I couldn't believe my eyes. Standing before me was a

I, no, we, we both, don't know anything. What? How? Why? It was terrifying, beautiful,

proached him, dreamlike, slowly. He wore an expression of defensiveness on his face. No, a threatening one. I raised my head a little with my mouth open, put my hands up. I'm not hostile. You're safe. I approached closer. His eyes narrowed, he stepped back, my hands still in the air. He was standing only a few feet in front of me. There were tears in my eyes. Tears of disbelief, wonder. I extended my hand. I boldly and assertively decided to get a literal grip on what I could hardly believe was reality. His hand rose slightly. I touched it with my finger, and felt a shiver of inexplicable emotion surge through me, a torrent of feelings, images. Two worlds touching. I was hy-

perventilating. I looked up into

64 % Nitrogen, 3 % CO2, and 1 puzzled expression. We looked his eyes and smiled.

shocking. Was it real? I ap-

RMN

61. Buy it by the glass 63. Treaty signed by

TION AND LEFT AND RIGHT FOR INFORMATION."- UNKNOWN

STUDENT LIFE

Seeing Canada Through Fresh GD: I'm in open studies, and

Eyes

by Peter Fourlais

This week it was my absolute pleasure to have a chat with Giovanna Delbem, Giovanna is one of Concordia's international students. We had an excellent conversation and I got to learn more about her, including her thoughts of being in Canada, her favourite movie and book.

Peter Fourlaris: Where are you from originally?

Giovanna Delbem: I am from Brazil. I'm from a city near São Paulo.

PF: What are your thoughts about Edmonton and Canada?

GD: I really love Canada! The weather is too cold, but that is okay because I really love snow. Edmonton is a really big city, and I feel like everything here is too big, and I'm so tiny here!

PF: Besides Edmonton have you visited anywhere else in Canada?



Banff, and Jas-

gram are you

taking at Concordia?

I'm taking psychology courses at Concordia

had problems with speech. And when the bombings happened then his dad died, so he assumed she would read her books for evpower in place of his brother, eryone. but he can't talk because of his PF: Tell us something about speech problems. So he went yourself that most people through a therapy to help him would not know with his speech.

PF: What is your favorite hob- PF: What is your favourite think most people think that I



by away from school?

GD: I like to dance. Dancing is my favourite hobby. I like ballroom dances like Salsa, and I like ballet too.

Vancouver, is The King's Speech. It is about steal books, and her brother in 2016!

book?

GD: My favourite book is The Book Thief. It is about the Second World War, and a girl that would steal books. She started dent.concordia.ab.ca or via twit-PF: What is your favorite mov- living with another family that ter @PeterF_94. Until next time, was taking care of her; she didn't have a great winter break, and I GD: I think my favourite movie know how to read. She would look forward to seeing all of you

King George VI, and how he taught her how to read. Then

GD: That's a difficult one. I am shy, but I really like to talk, and I think that I am funny.

PF: If you could have any superpower, what would it be?

GD: It would definitely be teleportation. Because, if I could teleport, then I could go anywhere, at anytime, it would be so nice.

Thank you, Giovanna for a very fun interview. I will definitely check out The King's Speech and The Book Thief. I hope the rest of your time in Edmonton and Canada is a great experience for you.

Finally, if you, the reader, have anyone in mind that you would like to see featured in one of my articles, you can send in your requests to me. I can be reached through my email pfourlar@stu-

CAMPUS D

Drinks on

Campus

by Checkpoint Charlie

As we are all well aware, Con-

cordia is currently lacking an on

campus drinking establishment.

These tend to be the ideal places

for students to let off some serious steam and make some new friends. Nothing like ending off a tough week at school with a beer on campus. Then again, there's nothing like finishing up a tough Tuesday lab assignment with a beer. Mind you, a beer at school is always a solid combo. It's a pairing that is deeply embedded in the university ideal. Traditionally speaking, the two go together like peanut butter and jam. It's the fraternity boys drink of choice. Beer, is the cultural underpinning of academia. Students seem to really come together over a few brews. I've witnessed this moving phenomenon on multiple occasions. It's a very beautiful process to behold firsthand. I always look forward to ripping some drinks with my friends at the U of A or McEwan. Usually, I will try to building, this spot offers an exget as many friends together as possible to meet up after class on any given Friday. Prime time is between 2pm and 4.

This gives me enough to leave Conthe LRT

Commonwealth Stadium. From

there, it's a 14 minutes and \$3.20 ride to the U of A. At the Uni of Alberta, they have quite a few drinking stations to choose from. More often than not, my friends and I frequent the two main spots. The first, is called Dewey's. It's more on the east side of main campus; a block away from HUB. This historical building used to function as one of the school's original power plants. Once the building was decommissioned, it was remade into a bar. Back when my dad was attending university -circa 1981- this drinking pit was aptly named The Power Plant. It's a very industrious style old square brick building. It's main space is jam packed with pool tables, and a smaller upper level is adorned with multiple couches; ideal for

The other place we go, is the Room At The Top. Student's strictly refer to it by its acronym RATT or simply the rat (animal). Located on the seventh level of the students union ceptional view of campus, downtown, and the river valley. Truly one of the most unique lookouts in the entire city. Huge windows make up the entire perimeter of some friends and some sunglasses. Also, be aware that you need to either have a U of A ONE card on you, or be a guest with someone who does. If it's really busy, you won't get in without that. Dewey's on the other hand,

doesn't have this same rule. Concordia also has some special places, they're just a little harder to find. None of them are on campus, but they are all close by. I am going to share two of our best spots here with you

First, all we have to do is look across the Northlands parking lot. Students over the age of 18 are more than welcome to stop by at the Northlands Casino. A quick 8 minute walk from campus gets you to the front door. It might seem to be a little dusty and run down, but the casino is pretty top notch. During that Friday prime time which I eluded to earlier (2pm-4) you can easily walk in and grab a stool right up at the bar. You can also hit some slots if you are low on conversation. The most hilarious part about hitting the casino is the fact that it is such a big transition and culture shock when compared to being in class or at school. It's a good change of scenery which takes very little effort. Consider it a quick holiday. The only downside here is

that you can only pay cash, and this bar, so make sure to bring the beers are a little more on the expensive side.

However, the real diamond in

the ruff is the Royal Canadian Legion. The 178th branch is located just off 112 ave and 82nd street; a quick drive west from campus. In my opinion, this is the unofficial bar of our school. Cheap pitchers, good food and free games of pool. Honestly, it's such a prime secret spot that I shouldn't even be mentioning it, but I think students should take better advantage of this great little place. It's the ideal spot to shoot the breeze and plan out your Friday night. In addition to that, it's fun interacting and getting to know the dedicated veterans and volunteers who help make that place roll. Once you become a regular, you start addressing people by their names. Everybody involved over there is always really interested in the types of things which we study at school. It's a fun place with a super mellow vibe. Just make sure to remove your hat once you enter in acknowledgement of the sacrifices which our troops have made in the past and present.

So there you go, a few tricks of the trade. Now all you need to do is grab some friends and some brews. Be smart and please don't drink and THE

ADVICE

Can You Feel

It?

by Matthew Troppmann Hello Concordia! As many of you probably know, it's the end of the semester, and it's been a quick one. September was not too long ago, and classes have done nothing but roll on by, so here we are. Trees and decorations in Tegler, snow on the ground, lights everywhere and of course, people have mysteriously forgotten how to drive. It's the Christmas season! The herald of three things, legendary among students; chief among them being the holiday break. But one cannot forget the second item, which would be all the coming revels that the season brings. Oh, how glorious they will be. Finally and perhaps most importantly, the gatekeeper to these joyous fantasies: Fi-

Dropping all pretense and silliness (I've been familiarizing myself with Midsummer Night's Dream in anticipation of the auditions this week) it is the end of the semester. By the release of this writing, we will 8 be in our final week of

nals.

classes. So, congratulations if you are reading this! You most likely survived three grueling months and for that, I am proud of you. You did it sport. Champ. Chief. But that isn't to say you are out of the woods yet. There are still plenty of papers, projects, and other miscellaneous things to get done before we can even think of studying for

I'm not going to lie to you, it's crunch time and absolutely not the time to dick around. As a good friend of mine frequently tells me, "God love you for a liar" and I'd love if that were true now too, but it couldn't be farther from. This is where things get real for all of us. Tests, papers, they're all approaching at the speed of light. For those of us with jobs outside of school to do, the heat couldn't be turned up higher than it is right now. We've all bought a one-way ticket on the stress express, and that train just left the station.

It's not uncommon for students to freak out or break down around this time. Wheelbarrows of work still need to be done before we are in the clear, and it can definitely feel like all the tires may as well have been slashed. Here is the thing, though: no two people handle stress the same way, so it's impossible for me to give out credible advice on a large cats, dogs, or anything fuzzy

general scale, but I want to so badly. I've talked to so many of students lately, and it breaks my heart. Sleep is lost, relationships are damaged, the ever-present worry that our grades won't be up to snuff. There isn't enough time in the day to get through everything we need to, let alone what we actually want to.

So things pile up, the pressure

grows and grows, and it doesn't feel like anything has really been accomplished at the end of the day. I'd love to continue this article positively, to tell you that at the end of the day, you will be one step closer to freedom, having things done, and to not worry about it, or that things will work themselves out. In some ways, that is true. But that's not what this article is about though. God love me for a liar. The truth is none of that is true. We can't just sit on the sidelines of our lives and hope that things will work out if we leave them be. Nothing gets done if we don't do it.

I'm not trying to say "get over it" or "just relax" if things have got you down. That's both silly, ineffective and even counter intuitive. The heaviest burdens are the ones we carry alone. What I am trying to say is, if you feel that any of the above describes you, take a break. If you don't have a pet, find a friend with

and friendly then bribe your way into their home. If, heaven help you, furry creatures result in allergic reactions, go find something you think is fun and do it, guilt free, on me. The school offers help for people in these sorts of situations, too, if you feel you require professional aid. If you feel trapped by your workload, don't let yourself be paralyzed by it. Your work might need to be done by you, but it can sure as hell wait until

you are ready to do it. If you're still with me and paying attention, you may notice that those two last paragraphs are in direct contradiction to each other. You are completely correct in that assessment. But I have a good reason, which happens to be the number one lesson I have learned this term; not just from one class but from all of them, is that there are no easy answers. Real life rarely separates nice and neatly, and contradictions are abundant. What I'm saying here is that no one, not even I, know what is best for you. But you are resilient, all of you, and I know that no matter what, you can find a way to make it work. I genuinely believe that. And you know

I believe in you, Concordia. I know you can do it.

BREAKING THE SILEN

Depression's Other Symp-

My first year of college was filled

by Anonymous

toms

with the brand of awkward angst and drama that I somehow never experienced in highschool. I had always lived on my family's farm, an area of forest and gravel roads and crop-fields, and went to school in a very small town. Now I was suddenly in the middle of a small city. Moving from highschool or summer jobs in my hometown while living in my parents' house and into a campus dorm to do university work every day is bound to feel like the sudden and abrupt lifestyle change that it is. It did feel especially strange as a firstyear student, though. Although I had no family or friends living around my new home, a few close friends did start to visit me almost every weekend. One of these old friends began to develop a rather intimate relationship with one of my new roommates, and I often felt as if she used visiting me as an excuse for visiting him. She didn't respond to my disapproval very well and tried actively hiding from me in my own home, in my roommate's bedroom. In my thoughts, on a

fully conscious level, I was fine: I found it comical. On a more internal level of unacknowledged feelings, however, it would seem I wasn't so alright. I began to experience hypersomnia. Back on the farm a coyote howl might wake me up, but it didn't take me long to become a heavier sleeper with college party music making regular appearances, and then it didn't take long for a sleep-related problem to show up. I would sleep for 15 hours and wake up feeling as if I could happily go back to sleep. I asked my psychology professor about my problem:

"Well are you malnourished somehow?"

"No. I eat quite well." "Are you depressed?"

"I don't think so."

"Well do you still enjoy the things you usually enjoy doing?"

"Not depression then, eh? Well, I'm stumped."

Defining depression by only certain symptoms like anhedonia (the inability to feel pleasure) or a sleep-related problem is oversimplifying things. I experienced no anhedonia symptoms because of course I would still enjoy my hobbies and entertainments such as the internet or videogames: they can be used as an escape. This was part of a

larger insight I made with the help of a new friend I met in my visual art class, who has always struggled with the opposite problem: insomnia.

Discussing things with this new friend helped me realize that I was unconsciously using sleep as a way of avoiding things. This made a lot of sense. In order to avoid my old friend who could always be just outside my bedroom door, I slept.. The more I slept, the less time I had to study, the worse my grades got, and in turn my motivation to avoid the unpleasantness of it all would increase. When my parents would call, the first thing they would ask about would be school, about which I couldn't always provide overwhelmingly good news, and so I started to think about ignoring their calls. Cycles of avoidance, fed by guilt. been taught about.

Feeling like I had a better understanding of my own behaviors helped me to try to push past things and improve my grades in time for that year, but my problems with guilt straining my relationship with my parents and with avoiding difficult classes continued on into my and enrolled at Concordia, my relationship with my parents improved and I had a more productive approach to dealing with

unpleasant classes. I got a tutor for my statistics class when I was struggling in it. I was putting in time and it paid off in the form of successfully passing the class. And so I was one step closer to fulfilling prerequisites for a psychology program.

I don't think my story is a particularly unique one. The implications of intelligence, selfworth, and future potential that students interpret from their grades can quickly translate into a depressive guilt. "I'm here paying for the opportunity to do this work, and if I can't do it adequately then what does that say about me? It's wasteful, this kind of investment into my future is apparently wasteful, and being here feels like a wasteful joke". It becomes extremely important to recognize that the underlying psychology involved may A picture of depression I hadn't be that worry and guilt are not really motivating forces, anxiety has been proven to hinder confidence and motivation. Insights from my new friend gave me a self-awareness that I was missing at the time, which improved how I dealt with the depressive thoughts, which as a consequence improved my grades and my confidence. I have a long way year at MacEwan.. By the time to go, but it seems more and I switched schools yet again more that success is measured psychologically, and can start

THE tal health

The Return of **Leopard Print**

by Brianna DeSouza

I'm sure many of us can all remember a time when leopard print was in. Well I have some great news for those who just love animal print... leopard prints are back! Now I have a few tips on how to wear it and pair it.

Pair a leopard print blouse with denim cutoffs. Loosely fronttuck your blouse and finish off your outfit with flats or heels, depending on how dressedup you want to look. Switch to full-length jeans when it gets cold out, or just layer your cutoffs over tights and wear them straight through fall or even winter if you're brave. Leopard

high heels are awesome day or night, but, depending on where you work, they might be a bit fashion-forward. Wear leopard flats for work or school and even on

the weekend. They're great for dressing up workwear basics like



12 black pants and white

look from the office to a night out without actually having to

Break up a flowy leopard dress with neutral accessories. Most people, when they hear the phrase "leopard print dress," picture something skin-tight and Shore-esque,

but it doesn't have to be that way! Instead of a body-con leopard-print dress, try something loose and flowy. Layer on a belt or a jacket to break up all that print and keep the look grounded with simple accessories and flats. Treat leopard like a neutral and mix it with other prints.

> The soft, organic shapes of naturalistic leopard print look great next to more graphic prints like polka dots, stripes, and plaids. Space your prints out, one on top, one on bottom, to keep the look

balanced, and layer in neutral-colored clothing and accessories to keep it from getting too busy.

Use leopard as a tiny accent on moto jacket. Carry a leopard bag friends.

collared an otherwise clean and simple more monochromatic the rest of

> of leopard will pop. Wear it in the form of a narrow belt to subtly draw attention to your waist, or on sunglasses or a gauzy scarf to draw the eye up towards your face. a slouchy leop-

pretty sexy, so it's a great way to add a little edge to an otherwise gender-neutral and somewhat sexless silhouette like a loose T-shirt, basic button-down or leopard print is also intrinsically straight-leg pant. Add an ex- feminine; it's not a soft kind of

tra dose of femininity by pairing your unisex leopard piece with something skin-baring like shorts, a miniskirt, or a low-cut

Wear fitted leopard pants and a moto jacket. There's something a little bit retro about a pair of fitted leopard pants and a toughgirl jacket. Sort of like Sandy in Grease. Then again, everything looks cool with a black leather

with, well, anything. Believe it or shirts, outfit. A little bit of leopard can not, leopard is a neutral. In fact, go a long way. The simpler and it's three neutrals in one; black, khaki, and white. And there is They make it easy to take your your look, the more that touch just something about a leopard-print bag that feels particularly versatile. It just goes with everything.

> For a dressier look, add a leopard-print faux fur coat and a chic pair of heels to any look.

There are few pieces of clothing more glamorous than a fur coat, but real fur is expensive (not Keep it casual with to mention the whole "I don't want to wear clothing made of a ard-print T-shirt. thousand cuddly animals" thing). As far as prints go, leopard is Wear a faux fur leopard coat with everything from a dress to a pantsuit and give your look an instant dose of high-end glamour. In addition to being sexy,

> femininity like floral or paisley. It's hard, tough, and aggressive: the perfect thing for adding some womanly oomph to a menswear-inspired outfit like a sharply tailored suit.

Hopefully these tips can help the animal print loving fashionistas incorporate the print into their looks for work, school or even a night out with some

Dear First Year

Students

By Annie Chow and

Decan Beddow

Dear First Year Students,

You're not alone in feeling a little or a lot of the panic and confusion that comes along with being a first year student, espe-

We just want to let you know first years.

Plan your academic calendar!

great goal of getting

to reduce the stress and worry gree helps to avoid last minute panic while selecting courses. If you're doing open studies, it's a great idea to take general courses that are academic requirements applicable to all the programs of studies.

Have a central formal email address where all important contacts/info can reach you.

Get involved on or off campus! There's lots of amazing clubs, activities and sports to be a part It helps keep you motivated to of. Whether that just means at-

complish the committing to a sports team or just attending festive events within your community. Taking time to get involved can make coming to school a much more pleasant and exciting experience. Having a quick break from a hectic school schedule and taking an hour or less to attend a club meeting or school event can be a great short term stress re-

> Practice self-care. Self-care is term gain! any action you take to improve your physical, mental or emotional well being. This can involve exercising, playing sports, drawing, painting, meditating you're only "good enough" if you or simply taking forty minutes to watch a show you enjoy. It is important to do what you like every so often or else you may become burnt out from



Your happiness shouldn't depend on grades! Yes feel great about all the hard work you've done, but don't tell yourself

get a certain grade on your test

calculated risks and always allow the constant work and stress. enough time to recover so you If you're getting to the point can study and get an appropriate

where you stop caring about amount of sleep. Moderation is

Always strive to be the best you! better. Mental wellness is just Go to the gym, study more, get

alize the double edged sword of kind and



degree/diploma. It also helps

about the course requirements for your degree. Knowing which courses are essential to your de-

cially at this time of year, just

before finals.

we've been there. This article is a list of simple things we wish we knew while going through our

contest starts at llam on December 4th if you fail a test, take a break. Do what you need to do to feel Contest location: Tegler

or assignment. It's okay to enjoy your youth if you know what I mean, just take

as important as grades. But re- involved in your community, be

grades; short term pain for long helpful!

TECHNOLOGY

Star

Clusters and

Juasars by Nick Clark

Well everybody, since we weren't crushed by a giant comet skull rocketing towards the Earth, I

get to write more about space. Last time, if some of you who weren't aware of it before, we learned about "Spooky", the dead comet that passed by us on Halloween night. This time, we're going to talk about what we might see when we look a little further into the night sky.

The great beyond of space has a lot going on in it. Other than crazy chunks of frozen rock hurtling past planets at high speeds, there are exploding balls of gas

plode, other giant fireballs that die and suck

everything around them into the void, and any number of other inexplicable or unknown other things as well. Today though, we're just going to talk about two: Stellar Clusters and Quasars. I decided to go with Stellar Clusters (or just Star Clusters) because I actually had the opportunity fairly recently to attend a little astronomy lesson about Stellar Clusters at the University of Alberta, where some of the more advanced Astronomy type students pointed giant telescopes at the sky and explained what they were pointed at. I actually thought it would be a busier event than it was but in reality it turned out to be pretty much just myself, a friend of mine, and her mom talking to an oddly charismatic

Astrophics major about the finer points of stellar density... So all in all it was a success. I de-

cided to throw Quasars in there for two reasons: the first being that it's one of the only other interesting cosmic topics I had any base knowledge on before writing this. The other reason though, is that Quasars are quite similar to Star Clusters in a sort of opposite way. I'll explain as we go. For now, let's get into it.

Stellar Clusters are pretty much exactly what you think they are, collections of stars sitting significantly closer together than normal. These stars are close enough together to form a blob of light that can be indistinguishable without a very powerful telescope, but far enough apart that they haven't crashed into each other and likely never will. Part of the reason they are so difficult to see is that there are so few of them near enough to see with our current technology, and the ones that are close enough are still very far away. In the Milky Way Galaxy, there are only 150 catalogued star clusters. Of course, each of these clusters is composed of many stars, but compared to the size of our galaxy, 150 is not a lot. The most well known cluster in the North-

ern Hemisphere is the Hercules cluster or "M13", which is a globular cluster. Globular clusters are the older of the two types of clusters. They contain tens of thousands of stars - at least! Some clusters even have up to a million stars in them, all coexisting in close proximity. These clusters are said to be anywhere from ten to thirteen billion years old. The other type of cluster is an Open Cluster. Open Clusters are much younger than their Globular cousins containing much more youthful stars, full of radiance and energyall that have been grouped together for much less time - usually ranging from a few million to a few billion years. The other notable feature of Open Clusters is that they don't contain as many stars as Globular Clusters, usually a few hundred as opposed to the few hundred thousand possible with a Globular Cluster. That being said, a few hundred stars all hanging out in the same space cul-de-sac can get pretty crowded all the same.

Now let's talk about Quasars. Let's show a picture.



Boom, pretty crazy looking stuff. Now that you know what it looks like, let's talk about how they are formed. To lend some scale to that however, let's take a step back and build our way up again. I won't get into all the details for simplicity's sake, but this should help give an idea of the scale of what I'm about to explain. First think about the solar system - a group of planets all orbiting around our sun, which is a star. Put a whole bunch of star systems together and you get a galaxy, like the Milky Way, where our solar system is. Then think about that galaxy moving through space at whatever speed

galaxies move through the uni-

verse. Next, think about another

galaxy moving through space as

well, except this one is moving

towards the first galaxy. Next

thing you know, the two galaxies

collide and form a Supermassive Black Hole. That Black Hole starts to draw in energy - as Black Holes tend to do - and this energy forms a Quasar: the most luminous object in the known universe. The reason they're so bright is twofold. The first aspect to consider is that there is a lot of energy all building up in the same area, taking the form of visible light and all sorts of other unseen energy rays. The second and perhaps more impressive aspect to look at is the sheer size of most Quasars. To get an idea of howe know this, we need to do a rely quick crash course on something called the Schwarzschild Radius. So bare with me for a second:

The size of the Quasar is determined by the Schwarzschild Radius of the Black Hole it is formed around. Without getting to deep into the math of it all, the Schwarzschild Radius is the distance at which you need to travel faster than the speed of speed of light to escape the gravitational pull of an object if it were compressed into a tight sphere. Simplified, the Quasar's

threshold at which light cannot escape an object's mass.

Simplified, the Quasar's size is entirely dependent on the threshold at which light cannot escape an object's mass. Black Holes are some of the only objects in known space that have a Schwarzschild Radius that is larger than the object itself. The Schwarzschild Radius of the planet Earth is smaller than the planet when it isn't compressed into the tiniest possible sphere, so that threshold does not affect us folk who live on the outside of the planet; thus we can leave the planet's atmosphere with space shuttles that travel much slower than light.

Ok, so now that you know

what the Schwarzschild Radius is and I've typed it enough times to not have to check my spelling on it anymore, let's move on to how that contributes to the size of a Quasar. A Quasar can be anywhere from ten to ten thousand times the size of the Black Hole's Schwarzschild Radius. That's right, ten thousand times the size. First of all, let's remember that this is a Supermassive Black Hole, so it's... well it's super massive. Next, the Schwarzschild Radius of a Black Hole is larger than the Black Hole itself, so that's even more super massive. Then, whatever number that is, multiply that by ten thousand. That's how big this mass of swirling pure energy is. In fact, the brightest known Quasar, which also happens to be one of the closest to us (Quasar 3C 273) is bright enough to be seen from the surface of Earth with one of those somewhat mediocre consumer telescopes you get from Wal-Mart. That's pretty bright.

Now you might be wondering by now, "How does all that energy coming in become light on such a massive scale?" There's also a chance you may be wonsize is entirely dependent on the dering, "What is happening? I fully. In the other version, there

don't understand any of this," for which I am terribly sorry if that's the case. My advice would be to just go back and re-read the paragraph about the Schwarzschild Radius, that one is kind of the key to everything that follows here's why all that energy manages to become visible light. It's all about electromagnetic radiation. There's something called an Accretion Disk that forms around objects in space with a lot of mass. It's composed of all sorts of space dust and debris our case, a Black Hole), it picks series! up speed, causing friction, which in turn causes the temperature to rise. That fast-moving, superheated space junk makes electromagnetic radiation which the energy around the Black Hole

bounces off of a bunch, then voila, vou have visible light for days. Or hundreds of thousands of light which years, is about how long it takes for the light from most Quasars to reach us, so we don't exactly have any recent photos. Who knows, Quasar 3C 273 could have put on a lot of weight since High School.

So there you have it, two variations on stars being really close together space. In one version, the stars iust live close to

each other coexist rather peace-

are way more stars and they cause an implosion at the center of two galaxies worth of celestial bodies, thus creating a massive inescapable void hole surrounded by an incalculable amount of pure energy. It also looks super it. Ok, so now that you get it, cool. So there you have it, once again another completed article. It was a bit of a long one so thanks for sticking it out with me here, hopefully you learned something about space. If not, hopefully you were at least entertained. But if you happen to be Russell Crowe and you were that moves in a spiral around in fact not entertained, at least the object, heading towards the vou got to see that artist rendicenter of it. As all this space tion of a Quasar. Next time we'll waste gets closer to the massive be back to things closer to home, object it's spiraling around (in so stay tuned for the December

Beavis and Butthead say Merry Christmas

