FEBRUARY 2, 2015 | VOLUME XCVI | ISSUE XXXVII
COME JIGGLE IT SINCE 1918

THE UBYSSEY

SIT-IN AT GUPTA'S

IAmAStudent organized a sit-in in front of Gupta's office to protest housing increases.

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OFFICE OPINIONS

Ubyssey editors present their diverging opinions on student fee increases.

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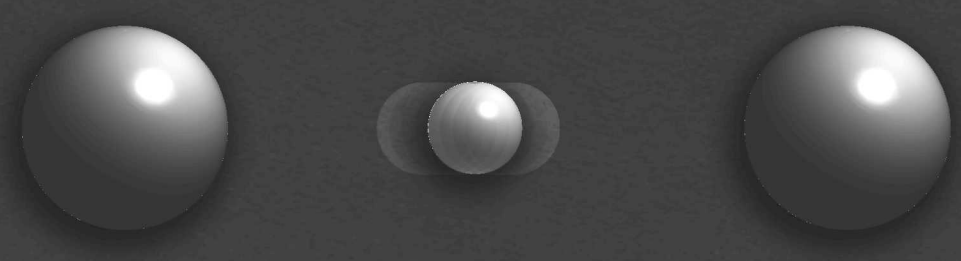
BAUHAUS WEAVING

Fine arts prof examined the influence of Bauhaus weaving in design theory.

P8

FACULTY CUP Students pitted against students in inflatable savagery. **P9**

VIBRATIONAL BONDS



EVENTS // THIS WEEK, CHECK OUT ...

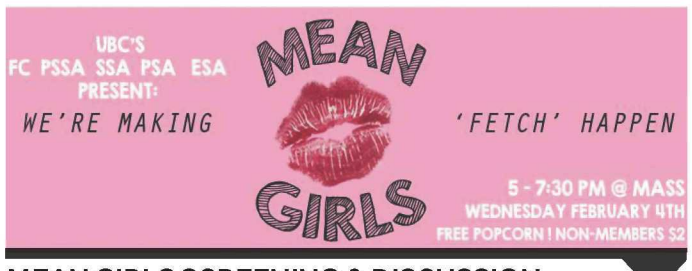
TUESDAY / 3

CLOSING THE GAP

5:00 - 7:30 P.M. @ ABDUL LADHA SCIENCE STUDENT CENTRE

In collaboration with several other local organizations, Beneath One Sky UBC is hosting their Poverty Action Conference. Learn about ways you can combat poverty and connect with like-minded peers. *Free*

WEDNESDAY / 4



MEAN GIRLS SCREENING & DISCUSSION

5:00 P.M. @ MASS BUCHANAN D

UBC student associations and clubs are teaming up to host a *Mean Girls* movie night, followed by an in-depth academic analysis of the power dynamics between adolescent girls displayed in the film. *$2; free popcorn and drinks.*

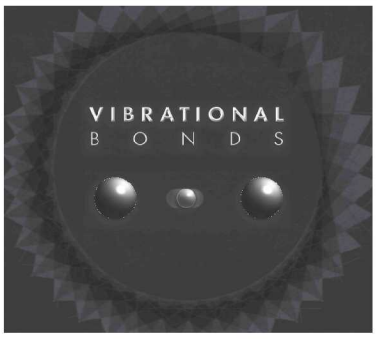
WEDNESDAY / 4

UBC SLAM

7:30 P.M. @ BENNY'S BAGELS 2505 WEST BROADWAY

UBC Poetry Slam is boasting the return of their founder to perform on Wednesday. Enjoy an evening of heartfelt and hilarious poetry from your peers and present your own. *Free*

ON THE COVER



I don't know if that makes any sense, but there it is.
- Illustration Nick Adams

Want to see your events listed here? Email your events listings to **ourcampus@ubyssey.ca**.

THE UBYSSEY

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EDITORIAL

Coordinating Editor **Will McDonald** coordinating@ubyssey.ca

Design Editor **Nick Adams** printeditor@ubyssey.ca

Web Developer **Peter Siemens** web@ubyssey.ca

News Editors **Jovana Vranic + Veronika Bondarenko** news@ubyssey.ca

Culture Editor **Jenica Montgomery** culture@ubyssey.ca

Sports + Rec Editor **Jack Hauen** sports@ubyssey.ca

Video Producer **Tim Hoggan** video@ubyssey.ca

Photo Editor **Cherihan Hassun** photo@ubyssey.ca

Opinions + Blog Editor **Austen Erhardt** aerhardt@ubyssey.ca

Copy Editor **Ciaran Dougherty** copy@ubyssey.ca

Distribution Coordinator **Lily Cai** lcai@ubyssey.ca

Illustrator **Julian Yu** julianyu@ubyssey.ca

STAFF

Natalie Scadden, CJ Pentland, Kosta Prodanovic, Dave Nixon, Soren Elsay, Olamide Olaniyan, Lawrence Neal Garcia, Olivia Law, Tariq Vira, Kelley Lin, Jenny Tang, Leo Soh, Mateo Ospina, Koby Michaels, Jasmine Cheng, Miguel Santa Maria, Natalie Morris, Mackenzie Walker, Sam Fruitman, Braedon Atkinson Pauze, Jacob Gershkovich, Emma Partridge

BUSINESS

Business Manager **Fernie Pereira** fpereira@ubyssey.ca

Ad Sales **Geoff Lister** advertising@ubyssey.ca

Accounts **Oliver Colbourne** accounts@ubyssey.ca

CONTACT

Editorial Office: SUB 24 604.822.2301

Business Office: SUB 23
ADVERTISING 604.822.1654
INQUIRIES 604.822.6681

Student Union Building
6138 SUB Boulevard
Vancouver, BC V6T 1Z1

Online: ubyssey.ca
Twitter: @ubyssey

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OUR CAMPUS // ONE ON ONE WITH THE PEOPLE AND BUILDINGS THAT MAKE UBC

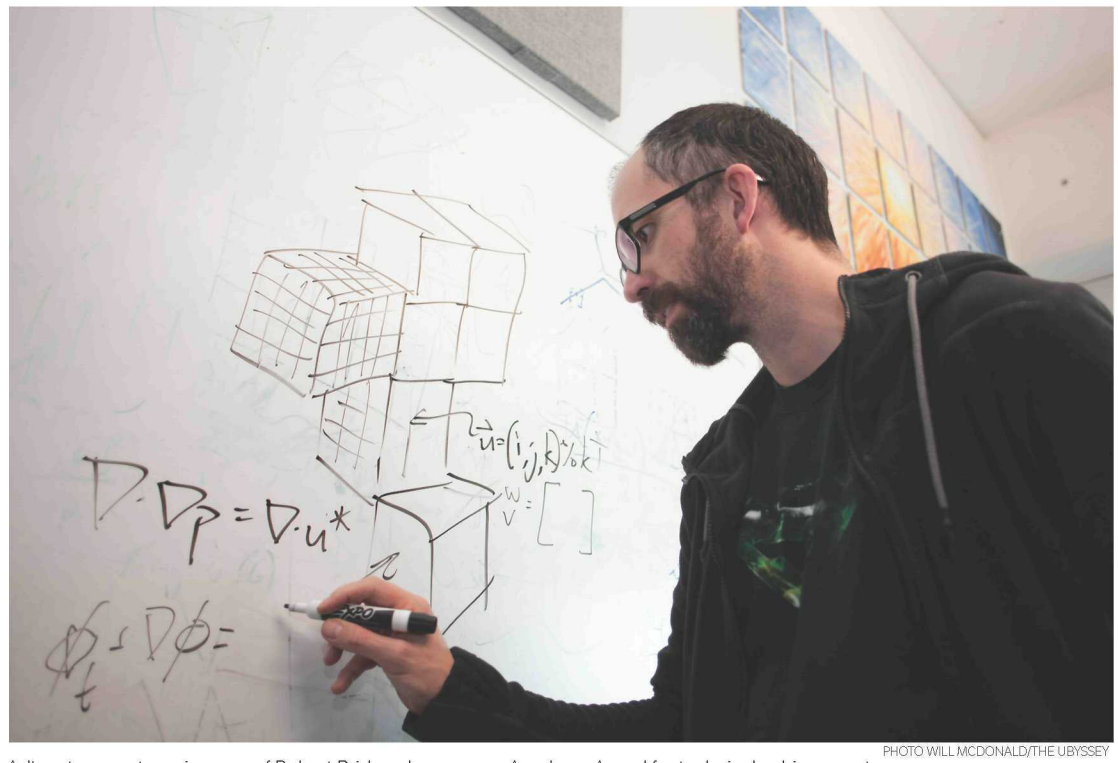


PHOTO WILL MCDONALD/THE UBYSSEY

Adjunct computer science prof Robert Bridson has won an Academy Award for technical achievement.

Oscar winner Robert Bridson is coding the natural world

Alex Lenz
Contributor

If you've seen a major Hollywood blockbuster film within the past decade, there's a high chance that you've encountered the work of Robert Bridson. The UBC adjunct computer science prof has had a hand, directly and indirectly, in the visual effects productions on many well-known films, such as *Avatar* and *Life of Pi*. Bridson is now being awarded with a Technical Oscar for his outstanding work.

> **"You can use that information to generate the image of the smoke cloud or you can use it to solve for how the smoke cloud should move according to the laws of nature."**
>
> **Robert Bridson**
> Adjunct computer science prof and Sci-Tech Oscar winner

Bridson is taking home a Technical Achievement Award for his innovations in storing volume data, which he designed 13 years ago while working on his PhD at Stanford University.

"If you're doing an explosion, then you might need to track, at every point in space, digitally, how much smoke is there, what's the temperature. And you can use that information to generate the image of the smoke cloud or you can use it to solve for how the smoke cloud should move according to the laws of nature," Bridson said. "But underlying all that, you need an efficient way to store that data. So this really has to do with good compact representations of data."

A clear example of Bridson's work can be found in 2013 science fiction thriller, *Gravity*.

"There's a bit I was involved with where there's a fire onboard the spaceship. So they wanted the flames to look really realistic, but at the same time, it's supposed to be in zero gravity. So there's no way that you can do that down on earth," Bridson said. "One of the best ways to do that is find out what the physics equations are and get the computer to solve those equations for you. And then whatever pipes out, presumably, should look a lot like it would in real life, because you're actually simulating."

> **"I was always interested [by the question,] 'how can we simulate the real world on a computer? How can we create what's happening around you digitally and understand it that way?'"**

The Academy's Scientific and Technical Awards merit innovations in film-making that have significantly impacted the industry and the course of film production. The ceremony is generally held a few weeks prior to the mainstream Academy Awards ceremony in Los Angeles, California. This year, the Sci-Tech Awards ceremony will be hosted by actors Miles Teller and Margot Robbie.

> **"If you get interested in something, really dig deep into it. Don't trust that the experts have already figured it all out."**

A Newfoundland native, Bridson completed his undergraduate and master's degrees at Waterloo University, then went on to Stanford to work on his PhD. In 2003, Bridson began working as a professor at UBC, teaching computer graphics and scientific computing. He now works primarily with software engineers as a mathematician-researcher.

"Generally everything I work on has to do with either the geometry or the mathematics behind the physics that we can use to make tools that artists can then make these amazing effects up with ... I was always interested in, 'how can we simulate the real world on a computer? How can we create what's happening around you digitally and understand it that way?'"

Bridson's career path came about somewhat spontaneously. Initially, his interests lay in pure mathematics, but while completing his PhD, Bridson ended up working with a professor who was interested in computer science.

"If you get interested in something, really dig deep into it. Don't trust that the experts have already figured it all out ... I don't think it's that you need to soak up everything. Just be prepared for your interests and your plans to change."

Humility is definitely a defining feature of Bridson. When asked about his success and what advice he could give to students, his immediate response (with a smile) was: "I'm just one data point."

Needless to say, Bridson's impact on the world of contemporary film-making has been substantial. "If you can dream it, artists can make it now, because of the computer."

ACTIVISM »

IAmAStudent holds protest against housing fee increases

PHOTO JOVANA VRANIC/THE UBYSSEY

Dozens of students participated in a march and sit-in against UBC's proposed housing fee hikes on January 29.

Eliot Escalona
Contributor

IAmAStudent protesters came together on Thursday, January 29 to march against UBC's proposed 20 per cent increase to housing fees.

Students met at 12:30 p.m. at the Flagpole Plaza on the North end of Main Mall. While participants made posters, representatives from the AMS, Residence Hall Association (RHA) and IAmAStudent spoke to the crowd.

The RHA Executive VP, Christina Tromp, believes that the university has been inconsiderate of student housing needs and financial concerns.

When addressing the protesters, she said, "The RHA has come to the very informed conclusion that this increase is not necessary and will not be beneficial to residents."

She mentioned that in UBC's Vancouver Housing Action Plan, which focuses on the long-term development of faculty, staff and student housing, and touches on goals for maintaining the affordability of housing, the university claims that a UBC dorm room is equivalent to a one-bedroom or studio apartment off campus. According to Tromp, UBC came to this conclusion by factoring in the experience and community atmosphere that residents can't get outside of rez.

With this, Tromp posed a question: "what kinds of communities will exist if we limit the diversity of who can live here?"

According to AMS VP Academic, Anne Kessler, this proposed increase means that "even within their own logic, [the Board of Governors] are not meeting the requirements they themselves have set," in the Housing Action Plan.

At its Annual General Meeting (AGM) last October, the society vowed to formally oppose UBC's proposed fee increases. Though the international tuition fee increase of 10 per cent has already passed, the AMS is still committed to supporting student groups in opposition to the housing fee increases.

"I want to make sure that there is no point in the future that an administrator can say "well I didn't know that affordability was an issue for students," said Kessler.

Once the dozens-strong group of students began to move, they made themselves seen and heard all along Main Mall with the help of banners and chants.

Most of the students in the march were fully devoted to the cause, and the few who seemed timid were soon wrapped up in the activist mentality.

Fifth-year English literature major Samuel Kruzeno said "for me this 20 per cent increase is really, really shocking, especially considering that under the B.C. Tenancy Act, something like this would never be allowed."

Under the Tenancy Act, landlords in B.C. cannot raise rent by any more than the inflation rate plus two per cent. As a private institution, UBC is not governed by this legislation.

At the AMS AGM, the society vowed to advocate for the protection of UBC residents under the Act.

After last term's international tuition increase passed, IAmAStudent's main goal this time around was to do more to sway the university's decisions; the protesters wanted their message to be clear.

"I don't think everyone needs to have a fundamental understanding of economics to express when they feel like they are being taken advantage of and even if they don't understand the economics, consultation in of itself is valuable," said Natalya Kautz, a fourth-year double major in political science and economics.

As promised on their event Facebook page, IAmAStudent delivered a surprise to UBC president Arvind Gupta by ending their march with a sit-in in front of his office on the top floor of Koerner Library, where many then participated in his Twitter Town Hall.

During this sit-in, one of the protesters in the group asked for the microphone, wanting to have his dissenting views heard.

"I know you are all very passionate about your ideas but I regret to inform you that you will probably fail," said Matthew Chernoff when he took the microphone. "The university does not care about what you have to say."

After his brief speech, Chernoff told *The Ubyssey* "there are a lot of voices for the IAmAStudent movement and I noticed there weren't a lot against the movement; I felt someone had to do it. I believe that it's all just a bunch of self-interested people."

Chernoff sympathized with IAmAStudent, but was unafraid to hold back his criticism. "I understand that some people can't afford student housing, but there just isn't as much housing to go around at these prices and I think that the IAmAStudent movement severely underestimates the economic forces behind these increases," he said.

Chernoff walked away from the protest and the sit-in continued, but with numbers depleting as time passed.

After the Twitter Town Hall, Gupta walked out of his office with VP Students, Louise Cowin. They addressed the protesters and spent some time answering questions. Once Gupta and Cowin left, the rest of the protesters did, too.

FUNDING »

UBC Farm receives $1 million grant

FILE PHOTO GEOFF LISTER/THE UBYSSEY

The UBC Farm has received funding to expand its programs.

Joshua Azizi
Staff Writer

The Centre for Sustainable Food Systems (CSFS) at UBC Farm has received a $1 million dollar grant from the Real Estate Foundation of British Columbia (REFBC).

The grant will go towards expanding UBC Farm's programs and facilities, with funding going towards new research on crop yields, land use policies and the development of a new eco-friendly building.

"It signals that our community is ready to work towards really important sustainability and land use goals collectively," said Shannon Lambie of UBC Farm. "It opens up a lot of doors for us."

The REFBC, which has been partnering with CSFS for 10 years, grants donations to organizations aimed at sustainable progressive land use in B.C.

As a result of the grant, the UBC Farm Practicum in Sustainable Agriculture will also expand its program from 12 to 24 students. The practicum is an eight-month program that teaches students with an interest in agriculture about the farming industry. It gives students experimental training in the field as well as the resources they need after graduation to work in the field of farming.

According to Lambie, UBC Farm hopes to get a new, younger generation of farmers to lead the way for agriculture in B.C.. The average age for a farmer in British Columbia is 56 — an average that's very close to retirement and that UBC Farm hopes to bring down by getting more young people interested in farming.

"It will help tell practicum students that this work that they're doing is so valued and so important," said Lambie. "I think it'll really inspire them to work hard."

Since much of the farm's infrastructure is relatively old, UBC Farm hopes to build a new farm centre and renovate some of the existing facilities with the grant money. They also hope to expand the farm to include more space for classrooms and visiting scholars.

Lambie also said that, with the renovations, they hope to create a welcoming, interactive environment similar to that of the Beaty Biodiversity Museum or the Botanical gardens, where visitors can have an interactive insight into the work that occurs at the farm.

"The farm is for everybody," said Lambie. "People will be able to learn a little bit more about what we're doing."

RANKINGS »

Sauder makes *Financial Times'* top 100 MBA programs in the world

Bill Situ
Contributor

In a recent report released by the *Financial Times*, Sauder placed 81st overall among the world's top 100 academic institutions for MBA programs and second among Canadian institutions.

One of the criteria on which the *Financial Times* based their rankings of these universities was employment data. They looked at the average salary as well as the average salary percentage increase of alumni three years after graduation. According to this year's statistics, Sauder MBA graduates earn $95,427 on average and see a 67 per cent salary increase three years after completing their degree.

The average alumni salary of a Sauder MBA grad saw a $6,546 increase when compared to last year's ranking. By contrast, the average 67 per cent salary increase among the alumni dropped by 14 per cent this year.

Graeme Menzies, director of prospective student marketing, communications, and social media at UBC, said that, despite some variations in the different categories of the data, Sauder's current ranking for MBA programs is still very impressive.

"It's good considering that there are 17,000 universities in the world — to be in the double digits is impressive," said Menzies. "Everyone would agree that UBC is in the top of the top, the top one per cent category."

In terms of how these statistics will potentially influence student attendance at the university, Menzies said that since every ranking institution relies on different methodologies and categories, they will all produce different biases in their data. Therefore, the degree to which these statistics affect student attendance will primarily depend on the student's personal preferences and educational needs.

"I think [*Financial Times'*] bias is a little bit more on money. They're looking to see how much [students] could make," said Menzies.

Menzies also said that the statistics released by the *Financial Times* would likely have more important implications for international students.

"The main difference is for the international students. Obviously, they're paying the higher fee and many of them are moving a long distance from home," said Menzies. "When they look at the rankings information, they look at it a lot harder because the decision and the commitment that they're making is a lot more intense."

This year, Sauder's placement among Canadian universities was second only to the University of Toronto's Rotman School of Management, which placed 53rd on the list. Other Canadian institutions that also entered this list included the University of Alberta (86), Queen's School of Business (86), Western University's Ivey Business School (97) and McGill University's Desautels Faculty of Management (100).

Menzies said that while UBC's general ranking among Canadian institutions has usually always been fairly approximate to McGill's in the top tier, he does not find the *Financial Times'* placement of Desautels to be particularly surprising.

"UofT is fairly consistently the number one ranked Canadian institution," said Menzies. "In Canada, UBC and McGill are usually second place or third place on there, [but] when you break it down by program, it begins to change."

Write
Shoot
Edit
Code
Drink
COME BY THE UBYSSEY OFFICE
SUB 24, FOLLOW THE SIGNS

CLASSROOMS »

Flexible, more technologically advanced learning spaces coming to UBC

PHOTO CHERIHAN HASSUN/THE UBYSSEY

UBC is working toward providing more flexible learning spaces that are conducive to group work across campus.

Mariam Baldeh
Contributor

This year's renovation budget includes upgrades to several classrooms, learning spaces and technological systems at UBC.

On Wednesday, January 21, Vice Provost and Associate Vice President, Enrolment, Angela Redish, and Vice President and Senior Planner, Jodi Scott, gave a presentation to the UBC Senate that outlined the current usage of and future priorities for classrooms, teaching labs and informal learning spaces on campus.

According to Redish and Scott, three reports have recently been conducted regarding the use of general and restricted classrooms, as well as the physical condition of those spaces. They found that large lecture theatres are used more frequently than smaller classrooms, and they employed a Work/Learn student in the summer of 2014 to do an audit to determine the condition of the various rooms.

Leanne Feichtinger, one of the students who worked on the classroom audit, went into all of the general use classrooms and did a check for basic equipment and maintenance issues in the rooms. Some of the items on her checklist included whether each room had whiteboards or blackboards, tripping hazards, broken furniture that needed repair and functioning clocks, to name a few.

"Most of the [general use] classrooms were in pretty good condition and there was nothing to impede learning," said Feichtinger. "But it was really eye-opening to see that some of the rooms really needed work done."

She used a classroom rating system of 1-5, with rooms rated one and two having higher maintenance issues such as cracked seats, missing stair treads or large stains, and thus in greater need for renovation.

"We look at what are one and two rooms and what we can do to move those up [to a higher rating]," said Scott. "Four and five rooms tend to be the newer buildings that have either been renewed or are brand new, and the majority [over 80 per cent] of classrooms are in that middle category with a three rating," said Feichtinger.

Some of these newer buildings with highest-rated classrooms include the Earth and Ocean Sciences building, Pharmacy building, Allard Hall, Sauder building and the Centre for Interactive Research on Sustainability. There have also been revamped classrooms in the School of Population and Public Health, Woodward, CEME and ongoing renovations in Buchanan building.

Still, not every classroom at UBC is equally conducive to student learning. Gul Gunsen, a fourth-year Arts student double-majoring in political science and sociology said that she would give a three on this rating scale to the Buchanan lecture halls.

"I would give it a three because of the cramped spaces and small tables, but definitely top-notch in terms of its cleanliness and clear sight of the instructor," said Gunsen.

Another audit done this year revealed that several classrooms that have been revamped have much better ratings than they had in previous years.

According to Redish, the university is working on three different renovation projects in the upcoming months, one of which includes Hebb Theatre.

"The larger classrooms are most heavily used, and it's hard to upgrade them because it's expensive, but it's necessary," said Redish.

Redish also said that an ongoing effort that is less expensive than revamping every large theatre is to change some of the smaller classrooms to include furniture that can be moved around to suit both group learning and a lecture hall layout.

She pointed to some upgraded classrooms in Leonard S. Klinck as an example, where the tables have different heights to accommodate different learning styles. This way, students can stand if they learn better that way, and have optimum sight lines of the front of the classroom no matter where they sit. The rooms are also brighter, with more colour and have had a lot of positive feedback from instructors and students, she said.

Although smaller classrooms often go unscheduled, they often serve as great study spaces for students. For some students, the layout of the study space can influence their study behaviours.

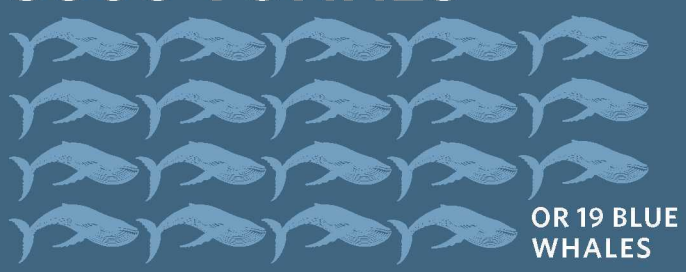
Chamberlain Chen, a third-year Sauder student, said that the professional layout of the rooms in Sauder motivate him to study and work hard.

"The rooms are well-equipped, very clean, bright and [generally] a very pleasant environment to work in and the [flexibility] to book study rooms 24 hours a day is great," said Chen.

According to Scott, most of the renovation budget still goes to technological upgrades as part of a third and ongoing project that is expected to finish around 2019.

"The biggest push right now is moving from analog to digital," said Scott. "Most of the modern equipment can't plug into the classrooms unless the switching is changed."

GARBAGE WE SENT TO LANDFILL IN 2013:
3000 TONNES



You can make a difference
Use recycling stations to sort your food scraps and recyclables into the proper bins.

UBC sustainability
Sort it Out.
sustain.ubc.ca/sortitout

UBYSSEY BOARD OF DIRECTORS

Nominations close February 13, 2015 and voting runs Mar 9–13, 2015. Nomination forms are available at SUB 23. This is not an editorial position. Members of The Ubyssey Publications Society Board of Directors are responsible for overseeing the finances and administrative operations of the newspaper. Responsibilities include attending board meetings, tending to business as it arises and overseeing personal projects.

For further details please email fpereira@ubyssey.ca

THE UBYSSEY PUBLI
SINCE 1918

OFFICE OPINIONS
on student fee increases

Veronika

While I tend to take a pessimistic, education-costs-in-this-country-will-keeping-going-up-no-matter-what-we-do view on the tuition hikes, it is especially upsetting to see the university reuse the same old 'we're-just-doing-this-to-meet-market-rates" excuse over and over again when it comes to housing prices on campus. Even if we put aside the fact that the university's goal should be to provide more affordable housing to students so that they can focus their energy on their studies, we all know that it's not that difficult to find a better place for less money in Vancouver.

Jenica

If UBC intends on being the best in research and knowledge, they need to make the decision to pave the road for accessible education and set a new global standard. This means lower fees so students can continue to receive the best education from the best university.

Jovana

When calculating the value of its average dorm room, UBC seemed to skip factoring in such details as decrepit shared bathrooms, near-fascist rules against decorating and the temporary nature of it all — because who really knows for sure if they'll get into rez again the next year? What trumps all that is the community and atmosphere that rez life offers, which apparently is so inherently precious that it makes dorm rooms equatable to one-bedroom or studio apartments off-campus. Last term we decided to start charging international students more money to cover the cost of the prestige of a UBC degree. What, now we're charging students for the community they themselves foster, too?

Jack

Calling Arvind a racist won't change Christy's mind.

Peter

In defence of the housing fee increase, UBC argues that the new rates are below or at par with "market value" in the residential areas near campus. This simply isn't true. While a 15 per cent increase might match up with what the average Vancouverite pays for rent, it certainly isn't reflective of what students are paying off-campus. The vast majority of students pay rates that are far cheaper than the average cost of rent in Vancouver. Judging from their calculations, UBC seems to believe that a typical UBC student is somebody who can afford to live alone in a studio apartment. UBC administrators are either out of touch with the demographics of the student body, lying to us, or both.

Will

While it's understandable that UBC wants more money, there doesn't seem to be good justification behind the actual amount of the increases. 20 per cent is such a round number. I find it hard to believe a 19 per cent increase wouldn't be enough and a 21 per cent increase would be excessive.

Austen

I can't say that I'm a fan of how UBC went about the housing (and tuition) increases, but it's too early to say whether or not their "market rates" argument is valid. If there's still a multi-thousand person wait list come March, the increases obviously weren't enough to drive away the market's demand and didn't change the (potential) fact that people are willing to pay a premium to live on campus. If there isn't, then UBC has some explaining to do. Either way, although student fee increases of any sort are an unwelcome move away from accessible education, it's important to not place the blame squarely on UBC's shoulders. Protest decreasing government funding as much or more than the decisions UBC has made to cope with it.

LAST WORDS »

ILLUSTRATION JULIAN YU/THE UBYSSEY

UBC continues to consider classrooms outside their regular use to be "informal" learning spaces.

LAST WORDS //
PARTING SHOTS AND SNAP JUDGEMENTS FROM THE UBYSSEY EDITORIAL BOARD

THE UNIVERSITY IS BEING SILLY WHEN IT COMES TO SYLLABI

As it turns out, UBC seems to have no policy governing syllabi. Right now, you could be sitting at home, preparing yourself to do readings for one of your classes when suddenly, all your readings have been reshuffled, and your course is going in a whole other direction.

As nightmarish as it sounds, it could happen anytime, because technically, professors have the right to change their syllabi whenever they please. And really, they don't have to give you one to begin with. UBC should really consider laying down the law and making syllabi more concrete and mandatory. Just imagine, they could even be shared during course registration period.

That said, if you know where to look you can usually find a syllabus from previous years with the same prof which will give you a decent idea of what the course will be like.

It would just be nice to not have to spend hours searching long-forgotten UBC pages to find something that could be dispersed with a quick email. Wouldn't that help us all sleep a little sounder?

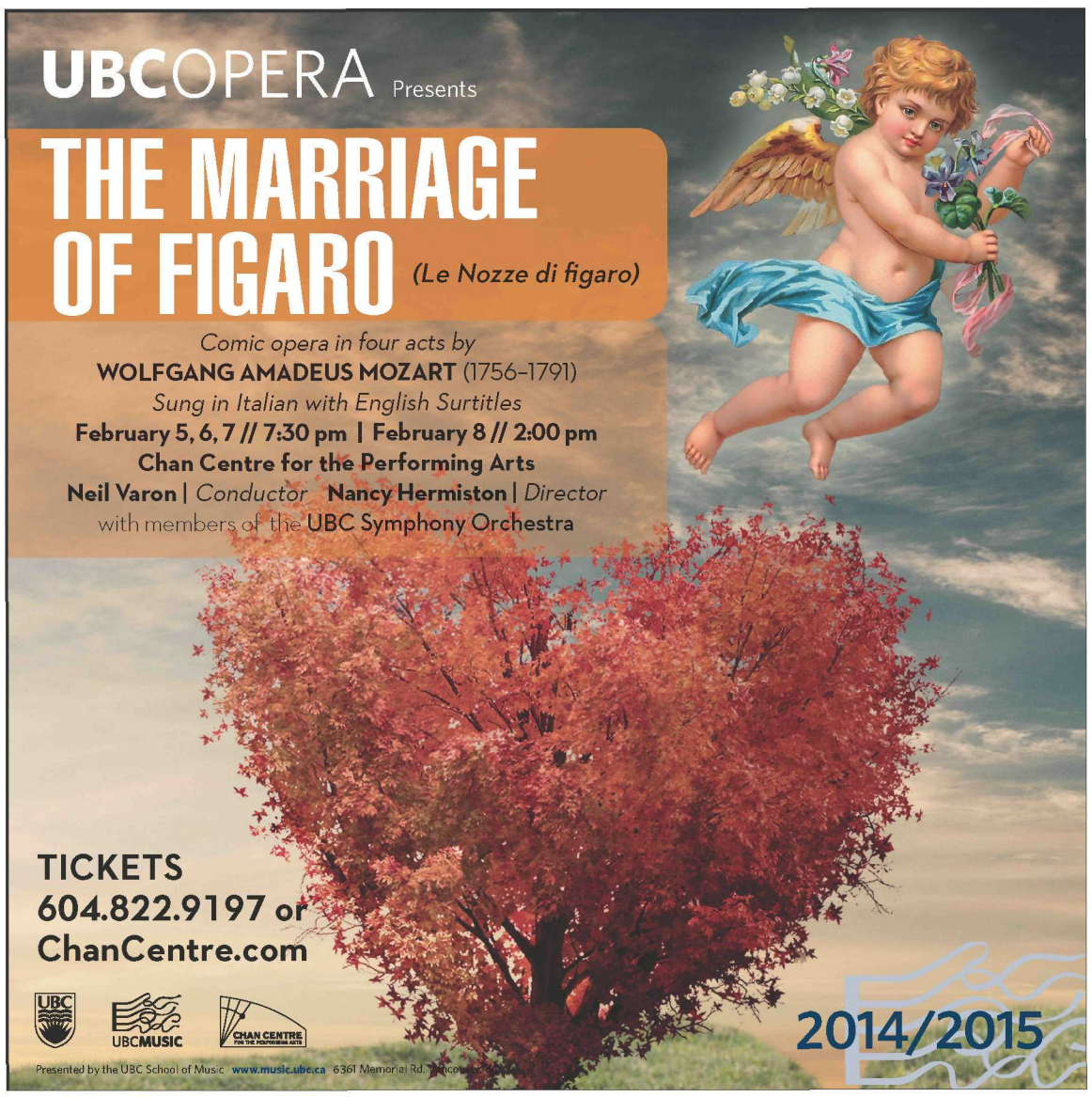
UBC HAS A LOT TO LEARN ABOUT 'INFORMAL' LEARNING SPACES

UBC has done an audit of all of its "learning spaces," including classrooms, lecture halls, wet labs, studios and anywhere else instruction takes place. However, as some members of the UBC Senate suggested at the January 21 meeting, not enough has been done to emphasize the importance of group learning spaces — particularly, unscheduled classrooms.

During exam time, for example, most rooms in the Buchanan block are open to use for studying, as student senator and AMS VP academic, Anne Kessler, pointed out. In fact, those rooms are almost never locked, so students are even welcome to use them outside of peak scheduling times.

Spaces such as these have been labelled as "informal" learning spaces, which begs the simple question: why "informal"? There is no doubt that the most significant learning takes place in flexible spaces where students are allowed to self-organize and soak up all their class materials without direct supervision.

We're just hoping this misnomer was unwitting and UBC truly does realize how crucial these flexible spaces are.



VIBRATIONAL BONDS

by Jovana Vranic

Researchers at the TRIUMF institute have confirmed the existence of a new type of chemical bond.

Donald Fleming, a UBC professor emeritus, theorized the existence of vibrational bonds in a paper published in 1989.

"We had an experimental result that really demanded a sophisticated theory calculation," he said.

The experiment was a reaction between a bromine molecule and an atom of a very specific hydrogen isotope called muonium.

"Normally chemistry doesn't depend on the isotope," said Fleming, but this experiment proved that, in the case of bonding, isotopes play a significant role.

As the muonium interacted with the bromine, the energy of the reaction slowed as temperatures rose.

"Normally, chemical reactions, when you heat them up, they speed up," said Fleming, but because this one slowed down, it meant that the reaction went through an intermediate complex. This is observed when chemical reactants go through a temporary bond phase that eventually leads to the end products.

"I was intrigued," said Fleming. "We did this experiment again many years later, and we found evidence for this kind of complex."

This January, Fleming, along with a team of international researchers, observed a vibrational bond in action — something that could not have been done with the technology of the time when the phenomenon was predicted.

To explain the reaction, Fleming used an interesting analogy, complete with fictional elephants and loveable cartoon characters.

"To trap a Heffalump, what Winnie the Pooh did was he dug a big hole in the ground," said Fleming. "And then the Heffalump — this big, lumbering beast — was supposed to come running along. If the hole was wide enough and deep enough, the Heffalump wouldn't get to the other side — he'd run in."

> **"The fact that you can change chemical bonding by changing the mass — that's pretty remarkable."**
>
> **Donald Fleming**
> UBC Professor Emeritus

The Heffalump in Fleming's analogy represents the hydrogen isotope used in the bond. Either end of the pit can be seen as the spot where the bromine atoms lie. If its energy were high enough — or it were running fast enough — the hydrogen could jump across and bond with either atom. However, in the case of muonium, its energy decreases, and the Heffalump gets trapped in the pit, between the bromine atoms, in a vibrational bond.

What happens in this temporary bond is quite simple: the muonium atom reaches a stable point where it is equally attracted to both bromine atoms, and ends up stuck, vibrating between them.

Why this happens is a matter of the muonium's mass, which is roughly one ninth of a hydrogen atom's mass.

To return to his Heffalump analogy, Fleming suggested that the pit entrapping the creature has a ladder lowered into it, making the capture temporary, just like the vibrational bond. Fleming used the example of the ladder to explain quantum mechanics.

"Most ladders would have equal spacing [between rungs]," said Fleming. "That's a little bit like the energy levels you can get in a molecule."

By the laws of quantum mechanics, particles must jump between discrete energy levels — just as the Heffalump must set its foot down on each rung of the ladder. There is no way to stop between rungs.

"The first rung is not right at the bottom," said Fleming.

According to Fleming, in a quantum world, there is no such thing as zero energy. Instead, there exists a lowest energy, called the zero-point energy, which is represented by the first rung of the ladder.

"Even if you're at zero degrees kelvin — the lowest temperature you can get — the molecules have to be moving, because otherwise, you'd know where they were ... [and] that violates a fundamental principle in quantum mechanics called the uncertainty principle," said Fleming.

The zero-point energy of an atom happens to depend on its mass. Muonium's light mass gives it a high zero-point energy.

With this, the first rung of the Heffalump's ladder is higher, making the climb back up the pit and out of the bond a difficult one — explaining why it's stuck the way it is.

The simple detail of the muonium's mass was "the money figure," said Fleming. "The fact that you can change chemical bonding by changing the mass — that's pretty remarkable."

THEATRE »

Après Moi and *The List* transcend space, time and character

PHOTO COURTESY IVAN YASTREBOV

Apres Moi replays a sequence of events six times, each with heightened intimacy.

Keagan Perlette
Contributor

Vulnerability, in a society which chooses stoicism and emotional detachment in the face of intimacy, is often misunderstood and misdirected. *Après Moi* and *The List* are absolutely necessary stories about the ways in which people experience the distance between each other and the stumbling of communication, interpretation and perception.

Performed in translation from January 28 - February 1 by Ruby Slippers Theatre, the two plays are emotionally linked by their themes of utter human-ness, and their juxtaposition is seamless and unifying — transcending space, time and character. Diane Brown, director of *Après Moi*, calls the plays taken together "spectacles of intimacy."

UBC alumna Mishelle Cuttler brilliantly designed the soundscapes for both shows, and alumna Dawn Petten plays the role of Stephanie, the sexy, altruistic, hairdresser opposite Chirag Naik's talkative, socially inept Simon in *Après Moi*.

Alongside Brown, alumna Pippa Johnstone was the assistant director of *Après Moi* and watched the play take shape firsthand.

The show is the story of six people stranded in a roadside motel as a blizzard rages outside. Alongside Stephanie and Simon, the plot follows middle-aged spouses Simone and Stephen, and suicidal retiree Matthew, who is sandwiched in the room between the two couples. Over the course of the play, the characters relive their scenes six times, each played with increasing intimacy and honesty.

"It sort of makes you realize how there's certain times in life where there's something you could say or you could chose not to say and how it can affect everything," said Johnstone.

The motel is part pressure cooker and part time machine where the audience watches as the characters relive their scenes until the truth is told. The plot is an unpredictable tapestry, the three stories tangle and intersect throughout the play as the scenes gain emotional momentum. This unpredictability was hard won but worth it.

"That was one of the biggest challenges," said Johnstone. "Diane says you have to be 10 steps ahead of the audience."

With each new replay, the layers of each character's trajectory are revealed as if the audience is riffling through a chose-your-own-adventure book. The closer the characters become to one another, the closer the audience becomes to the characters.

The List, the second show on the bill, is a one woman play about a mother who moves her family from the city to a rural village in the hopes of finding the domestic bliss she desperately seeks. We find her amongst toys and scarves and dishes suspended from the ceiling as she recounts the events of her relationship with Caroline, her new neighbour, in the form of a list which includes her household duties, her dreams, her fears and her guilts.

The set makes it clear that the woman is imprisoned by her lists and by her domestic life. The hanging items exist like floating dreams around her. At one point, she wishes desperately that she could hide from her life inside the hall closet and to thereby be transported to a beach, a European adventure. And here she is, finally inside the closet amongst all her family's junk.

But the space isn't the freedom she imagined. Curtain or cage, the hanging paraphernalia of domestic life slowly spinning under the lights is eerie. This show is, as the program proclaims, "crucial."

France Perras' portrayal of the woman offers blunt insights that hit like a cold knife and shiver around you like the snow that falls over the woman, the closing curtain of the show.

Though very different from *Après Moi*, *The List* carries a thread from its predecessor and the emotion of the language is never lost. These plays are not to be missed, they are the sort of stories that will echo inside of you long after the lights come up.

NETFLIX »

Bottom of the Queue: *American Muscle*

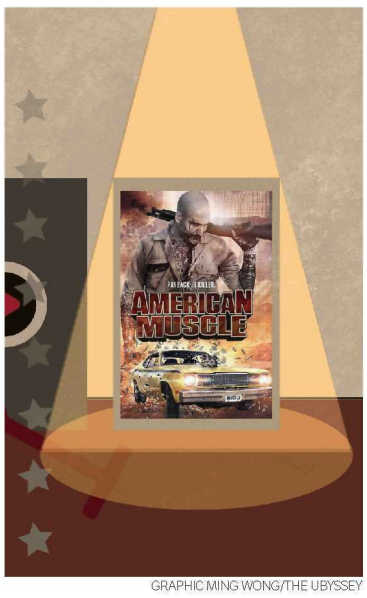
Sam Fruitman
Staff Writer

At its heart, *American Muscle* is an exploitation film. Not a good exploitation film, mind you, it's actually quite terrible. This being a review column for terrible cinema, you'd think this film would be perfect for it, right? Unfortunately not. The problem is that it's bad for all of the wrong reasons.

Disguised by pretty camerawork (and a heck of a lot of slow-motion), the film primarily lacks a good story. *American Muscle* follows John Falcon, a man who's fresh out of the slammer and looking to exact sweet revenge on all of those who put him there. As to why he's in prison, that doesn't get explained until the tail end of the film, so hold your breath. Meanwhile, John's got to find out where the love of his life, Darling (yes, roll your eyes), has ended up during his 10 long years behind bars. We'll give you a hint: she isn't running for office.

We waited and waited for the plot to really kick into gear, but were left with unexplained flashbacks, convenient coincidences and a general lack of stakes for the characters. Not to get all film-buff-y on you, but even bad movies need an interesting plot. It is abundantly clear that director Ravi Dhar (we've never heard of him either) is a cinematographer first, and director last.

Another glaring problem we had with this film was the characters. We know that, generally, female character development can be rudimentary when it comes to bad cinema (no Oscar-worthy performances here), but this film takes it to a new low. The women are there for you to look at, and not much else. There was not one female character wearing pants throughout the entire film. Worst of all is Darling, who we are never given the chance to care about because she's strung out in virtually every single scene. By the end of it all, the audience doesn't care whether John got to her or not (spoiler: there's a twist).



GRAPHIC MING WONG/THE UBYSSEY

The bottom line: Save for some laughably bad acting, *American Muscle* just ain't worth it. Seriously.

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BOOKS »

Fine arts prof weighs in on Bauhaus weaving in design theory

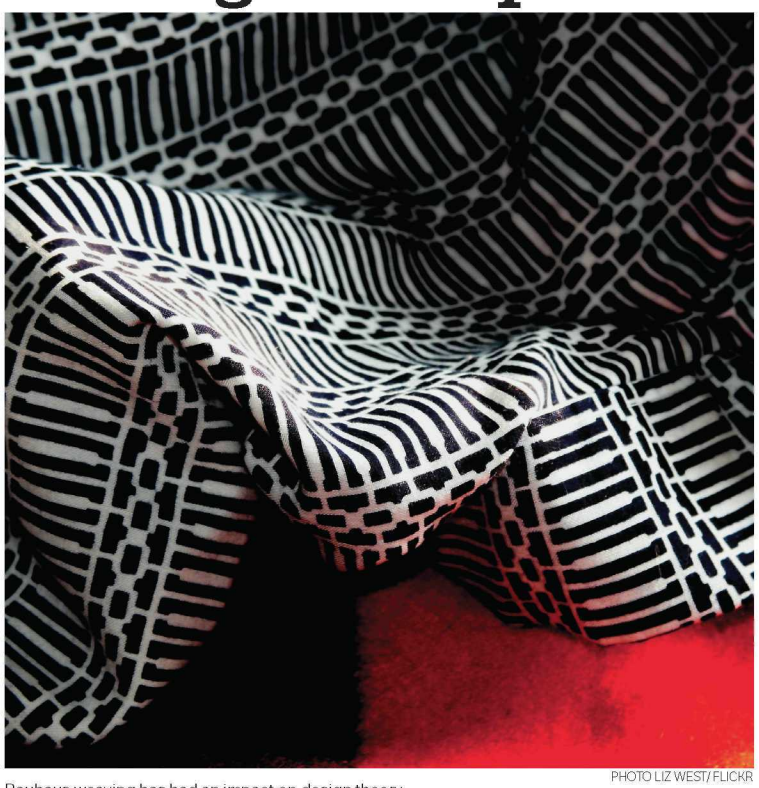

PHOTO LIZ WEST/ FLICKR

Bauhaus weaving has had an impact on design theory.

Gabriel Germaix
Senior Staff Writer

"Typically, weaving doesn't have theory. Weaving is crafting, just something that is done, manual, technical ... it doesn't have a venerated history."

Painting has Leonardo Da Vinci's *A Treatise on Painting*, architects of all ages referred to Roman treatises, but the craft of textile used to lack a theoretical base. If the reflection on this thousand-year old craft still lacks material, artists of the German school of the Bauhaus affirmed the unique identity of weaving through a series of theoretical and practical writings.

These writings have now been reviewed and analyzed in depth in T'ai Smith's book "Bauhaus Weaving Theory. From Feminine Craft to Mode of Design."

Smith, who is a UBC associate professor of art history and visual arts theory, expanded a dissertation into a full-length book about the very specific Bauhaus weaving workshop. The Staatliches Bauhaus — from the German for "house of construction," to be understood as "School of Building" — was a prominent German school of arts and crafts that put practicality in the heart of their teachings.

"The whole objective was, you know, to 'build a house,' so there was interior design and exterior, architectural work," said Smith. Of the different workshops that existed from 1919 to 1933, the weaving workshop was one of the most productive.

The Bauhaus weavers bridged a gap between art and craft and paved the way to modern design through their artistic and technical innovations.

"They were actually designing stuff through the process of making," said Smith. "They would experiment with the use of different material, like cellophane, or various new kind of proto-plastic threads ... they were experimenting with the way that those could be woven, and the structures that they would make."

The craftsmen and craftswomen referenced this progress, but the nature of their craft — textile making — is such that it has been almost entirely disregarded by art history. For Smith, talking about the theory and practice of weaving could even "force art history to reexamine its assumptions and foundations."

"We are looking at material that might visually be very similar, but actually structurally, the materials are actually quite unique or special," said Smith. If she stands clear from the claim of industrial weaving as being art, Smith asserts the importance, for design theory, of the discourse around it.

"The weavers were publishing in magazines and in journals, speaking to the wider public," said Smith. "They used the language of other media, for instance architecture.... They really started to frame their practice through the language of functionalism, which was the discourse at that time of the Neues Bauen, the New Architecture."

Smith took the example of a famous cloth made of cellophane and chenille, that was used to cover a wall in a theatre. The fabric had both a soundproof effect and light-reflecting one.

"It had sort of a dual functionality, in addition to it being a kind of tactile textile surface. It was very unique," she said. The use of woven cloth was detailed in the weavers' writings, and in patents that the women who formed the bulk of the workshop submitted to the German authorities.

Architects of the Bauhaus articulated their discourse on the affordability of their design, a criterion of importance in the post-war national economic crisis and weavers took a similar approach. In the words of Smith, "they started to kind of frame it as a utility, as a utility fabric," contrasting with a preconception of a wall hanging and weaving as a "feminine craft."

As such, weavers of the Bauhaus laid a milestone in the history of design. That deserved a full-length book.

MUSIC »

Watch jazz history in the making at the Chan Centre

PHOTO COURTESY TRACY LOVE

Terri Lyne Carrington to perform with Cécile McLorin Salvant.

Rachel Levy-McLaughlin
Contributor

"Wouldn't it have been cool to see Ella Fitzgerald as a young artist?" said Christine Offer, artistic presenting manager for the Chan Centre for the performing arts. Wouldn't it be cool to see a Grammy-Award-winning drummer? You know what would be even cooler? To see them both together.

For one night this month, and one night only, UBC students have the unprecedented opportunity to see up-and-coming jazz-vocalist Cécile McLorin Salvant alongside Grammy-Award-winning drummer, band-leader and producer Terri Lyne Carrington.

On February 14 at 8 p.m. in the Chan Shun Concert Hall of the Chan Centre, 25-year-old Cécile McLorin Salvant will make her Vancouver debut, featuring songs from her Grammy-nominated recording "WomanChild."

"Cécile has burst onto the scene, signed by the same manager as Wynton Marsalis," said Offer. "Her debut here is particularly exciting when one contemplates the trajectory her career is on.

"As one of our UBC School of Music professors commented to me recently, 'she is a goddess,'" a goddess compared by critics to Sarah Vaughan and Ella Fitzgerald.

While this is hardly Carrington's debut given her 20-year career on the jazz scene, this is her first time leading. She will be performing works from her album "The Mosaic Project," which received a Grammy in 2012 for Best Jazz Vocal Album.

The Mosaic Project is a celebration of "female artistry in the form of a compilation featuring various well-respected women of the jazz world," said Offer.

"Now there are so many women who play and I wanted to celebrate that," said Carrington. "It's very powerful to see so many women on stage playing at such a high level."

This concert represents the power of music: its capacity to implicate something greater, and create social change.

"These artists are making their mark on jazz in an industry that is constantly making strides towards better equality," said Offer. "Due to traditional perceptions in many cultures, it has been historically more difficult for females to become recognized as instrumentalists than songstresses. As a whole, this show demonstrates how times are changing."

The most important thing should not be lost in these social reflections, however, according to Carrington. And the most important thing is the music.

"The point is not that they're female," said Carrington. "The point is that they're excellent musicians."

Carrington spins a contemporary flare on her jazz, mixing in funk, soul and blues. "I'm not a purist, so I try to mix styles, mix genres," said Carrington. "So even those who think they don't like jazz enjoy it."

Students can purchase tickets for $15, available at the Chan Centre Ticket Office.

Notice of Development Permit Application - DP 15001

Public Open House

Wesbrook Place Lots 27 & 29 Faculty & Staff Rental Housing

You are invited to attend an Open House on **Tuesday, February 17** to view and comment on the proposed faculty & staff rental residential development in consolidated **Lots 27 & 29** in Wesbrook Place. Plans will be displayed for two adjacent 6-storey residential buildings, with a total gross floor area of 18,312m².

Date: Tuesday, February 17, 2015 **Time:** 4:30 - 6:00 PM
Place: Wesbrook Village Welcome Centre, 3378 Wesbrook Mall

Representatives from the project team and Campus + Community Planning will be available to provide information and respond to inquiries about this project.

The public is also invited to attend:
Development Permit Board Meeting
Date + Time: March 18 from 5:00-6:30pm
Location: Classroom, Tapestry Building
3338 Wesbrook Mall
For more information on this project, please visit:
planning.ubc.ca/vancouver/projects-consultations

For further information:
Please direct questions to Karen Russell, Manager Development Services
karen.russell@ubc.ca 604-822-1586

This event is wheelchair accessible.

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REC »

Faculty Cup 2015 was a display of inflatable savagery

PHOTO LOUIS GONICK/THE UBYSSEY

"Archery tag" is just as intense as it sounds.

Soren Elsay
Staff Writer

UBC, with its 50,000 students and 11 faculties, can feel like a big place with not a whole lot of spirit. The AMS looked to change that by pitting 11 faculties against each other in a social-media-fueled, Hunger Games-esque athletic tournament called the Faculty Cup — a faculty vs. faculty sports tournament.

This event, run last year by UBC Rec, is a quasi-annual event that has evolved this year. Organized through a joint effort by the Faculty Cup Committee and the AMS' Student Life and Communications Committee, this year the Cup looked to reach a wider and more diverse population at UBC through the addition of free programming, including a wellness fair as well as an active living festival.

After the food truck festival and the wellness fair, the tournament began. In its first round, faculties competed against each other in the ridiculous games of sitting volleyball and dodgeball. Then the competition moved to War Memorial Gym and the third competition, the tug-o-war, took place.

Sitting volleyball has eight players on each team sitting on a small volleyball courts with lowered nets. The ball is allowed to bounce once before being returned and serves are thrown in.

Points were awarded to the winners of these matchup as well as for various acts of self promotion on social media and faculty participation in the various fairs and activities that took place earlier in the day. The points were tallied up and the top two teams to emerge from battle competed in the adrenaline soaked game of archery tag.

Archery tag is basically paintball with bows and arrows. Real bows and arrows. The arrows have giant foam marshmallows as tips. A team wins a round of archery tag by eliminating every player from the opposing team, or by shooting 10 foam targets.

An exciting dodgeball matchup between the Faculty of Science and Sauder revealed the true colours of the two faculties. Sauder, employing a free-market strategy of every man and woman for themselves, were readily defeated by the more meticulous and organized Science team. These gallant blue warriors used their superior scientific minds to devise an unbeatable strategy. They stockpiled balls, waiting to fire them at their foes in a single volley. This strategy overwhelmed the Smithian Sauderites, allowing Science an easy but well-deserved victory.

Another tournament highlight was a close matchup between Engineering and Arts in sitting volleyball, with the Engineers coming out on top. With more advanced communication and teamwork, even Arts' selfie-taking could not help them.

This sport of bruised knees, bloodied elbows and butt-hopping lacked the excitement of standing up volleyball, but more than made up for it in awkward dives and laughs.

"It's lots of fun showing faculty pride," said Engineer participant Sarah Powers.

Kin ruled supreme in the tug-o-war round, but their late challenge could not make up for the calculated performances of Science, and the raw, lumberjack power of Forestry in the previous two rounds. The battle to decide this conflict of 11 armies would be the best of three rounds of archery tag between Science and Forestry.

The final started with reserve, both teams rarely ducking out from behind inflatable cover. The Foresters struck first, knocking down several targets. Science retaliated ruthlessly, slaying two of the Foresters. The Foresters continued to aim for targets, Science for people. In the end, the Foresters emerged victorious after knocking down all of their targets.

Science started the second round strong by knocking down two targets with a single shot. Go physics! But it was not enough — a combination of tree magic and lumberjack sawdust overpowered the Scientists and Forestry, in their dark green uniforms and face paint lifted the huge, golden trophy.

"This is a start of a revival of the event. We are trying to push the envelope with it and we have plans to make it even bigger next year. We hope that for the first time in a long time it will stay for more than a year or two," said Alex Remtulla, head of the Cup's organization this year.

Tanner Bokor, AMS President, was excited for the future of the event and hopes to see more of it. "This is pretty amazing, it's really great to see actual student engagement for once and see people out there having school pride. I think it's fantastic that all these different groups decided to put something in term two because that's something we haven't really seen before on this campus."

The festivities concluded with an afterparty at The Academic Public House.

LACROSSE »

Rez lawn to Canada West: UBC Lacrosse Club keeps growing

PHOTO COURTESY THUNDERBIRD LACROSSE

The team poses for a photo during a tournament in Edmonton.

Soren Elsay
Staff Writer

The UBC Lacrosse club enters the home stretch of their inaugural season in the Canada West Field Lacrosse League sitting in a respectable fourth place out of seven. While this may not sound especially impressive, the club's position is an astronomical success considering their humble beginnings just four years ago, when Dan Millar first tried to bring some semblance of the sport he loves to UBC.

The fifth-year mechanical engineering student recalls struggles of the very early days before the club really came to fruition: "When this thing truly first started, it was just me and my buddies throwing the ball around in the backside of Totem [Park]," he said. "[I would] just find anyone I could recruit, throw them a lacrosse stick and a beer. That was really the starting platform of club membership."

Today the club's membership is over 30 members, with more than 20 members on the men's competitive team, and a women's team in the works for the 10 female members. The club is also open to anyone who wants to give the sport a try by offering non-competitive or new players the chance to practice with the team and be part of the close-knit group.

One of the formally inexperienced players is Paul Fijal, who joined with minimal lacrosse background and now finds himself on the executive council of the club.

"Last year Dan approached me [about joining the team], I had never played before, but at that point there weren't that many players and I picked it up pretty quickly," he said.

Fijal's first year with the club coincided with the club finally getting some real traction as a legitimate lacrosse team.

"This is the second year that this thing has really kicked off. Last year we had only had one game with UVic and a tournament in Edmonton, this year we joined the [Canada West] league, which plays every week."

The relatively new club recently got a major boost when UBC designated it as having competitive club status beginning in September of 2015 as part of the university's athletics reorganization last year. The new status provides the Lacrosse Club with improved access to facilities as well as support for marketing and communication. Millar hopes that this designation will help achieve the club's over-arching goal of creating a university league for their end of Canada down the road.

"We've been working towards a western Canadian university league with the University of Victoria, University of Alberta, University of Calgary and the University of Lethbridge," said Millar. "There have been a few setbacks in terms of those schools' level of competitiveness, but looking forward to the future, that is one of the main goals of our club."

As for the immediate future, the club has six regular season games remaining before the Provincial Championship tournament in the first week of April, where the winner moves on to the National Championship tournament. Whether they make it or not, this year will already mark a historic success for Millar and his club, which has come a long way from its days of tossing back beers and balls on the Totem lawn.

If you're interested in joining the UBC Lacrosse Club, come out to one of their open practices on Fridays from 6:30-7:30 pm on the Varsity Turf Fields, contact ubclacrosse@gmail.com, or search "Thunderbird Lacrosse" on Facebook.

HOCKEY »

T-Birds take back-to-back 5-1 wins

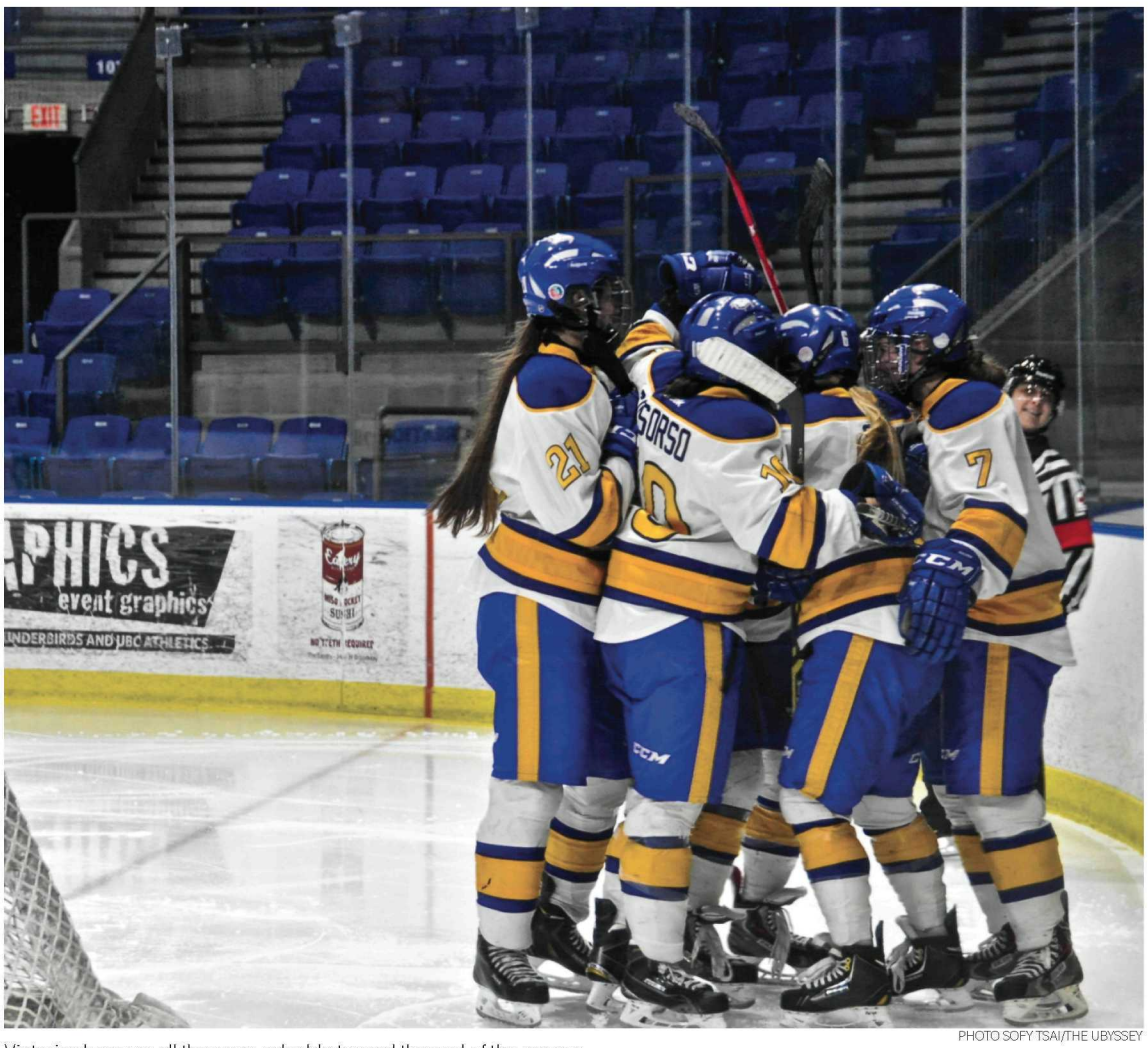


PHOTO SOFY TSAI/THE UBYSSEY

Victories become all the more valuable toward the end of the season.

Jenny Tang
Staff Writer

The UBC Thunderbirds women's hockey team extended their winning streak to three games this weekend with a pair of identical wins over the University of Lethbridge Pronghorns.

The 'Birds were on the offensive the entire game, managing to score in every period.

In the last three minutes of the first, Tatiana Rafter was able to bang in a loose puck off of an assist from Stefanie Schaupmeyer and Nicole Saxvik for her 11th of the season.

Only 20 seconds into the second period the three struck again. This time Rafter and Schaupmeyer assisted Saxvik, who found her way into the goal at the front of the net. Saxvik follows closely behind Rafter in the scoring race, as this was her 10th goal of the season.

Rebecca Unrau would help extend the lead to 3-0 just 12 seconds after the second goal. Firing the puck in front of the goal, this would be her 10th goal of the season as well.

The Pronghorns soon struck back, with Sadie Lenstra managing to get past Thunderbird goalie Samantha Langford. With the score at 3-1, the second period did not produce any more goals, mostly thanks to the net-minding of Pronghorn goalie Crystal Patterson.

In the third period Unrau scored again, with the team capitalizing on a power play. In addition, graduating senior Lisa Trainor scored her first goal of the season off of a rebound to put the 'Birds ahead at 5-1.

Things got pretty heated in the third period. The Pronghorns fought hard to try and turn things around, which resulted in a fight breaking out towards the end of the game.

"I thought that we kept our cool for the most part," assistant coach Mike Sommers said. "You're going to get those moments near the end of the season"

Stephanie Schaupmeyer was the only one of the 'Birds to fight back, having head-butted a Pronghorn, and sat out for the rest of the game in the penalty box.

Despite the Lethbridge attempts to even out, the score remained 5-1 and the Thunderbirds took home the weekend win for a clean sweep.

"They all came out really hard," said Sommers. "Lethbridge played us really hard both nights but we're committed going down the stretch. We're taking things one game at a time, one weekend at a time, and we'll look forward to the following week when it's there."

Next weekend the 'Birds face off against the University of Manitoba Bisons at Thunderbird Arena. Puck drop is at 7:00 pm on Friday and 2:00 pm on Saturday.

REC »

PHOTO SERGEY GALYONKIN/FLICKR

This year's Versus was a Smashing success.

Mario Versus: friendship-ruining good times

Ford Atwater
Contributor

UBC Rec's Versus event, though video game-themed, was a nerd's worst nightmare: physical competition. Mario Versus is the latest trial of strength, endurance and who can eat the most 'shrooms. It's the third year the event has taken place, with a different theme every year. Last year was the Hunger Games, the year before Zombies and this time it's Mario Party.

The teams were randomly selected from a large pool of volunteers, and each group is named after a different character from the Mario universe. There was some downtime at the start, so everyone was given a chance to get to know each other before the brawl began. Halfway through the opening ceremony Bowser kidnaps the princess. Undaunted, the teams race to their challenges, spread out around campus.

The first event was Mario Kart; the track was the UBC fountain. Racers had to push themselves around with chopped off ends of hockey sticks, dodging obstacles and other racers, before switching out with another member of their team. The challenge was not as easy as leaning into your turns while clenching a greasy GameCube controller; expletives were heard and insults were thrown like red shells. Racing conditions were cold are windy, but the intrepid karters were unflinching in their dedication to saving the princess. If drivers managed to find a coin, they could hang onto it for later.

Other challenges and coins were won as the night progressed: in front of Koerner's library was Super Smash Bros., where balloons were tied to players' ankles, and the teams have to pop each other's balloons to win. There are no rules here, just like the video game, except for "don't be a dick," which is not so much like the video game.

The math building was Donkey Kong country — some degenerate Kremlings tore up a picture, and the teams have to reassemble the picture to win. The classic Luigi's Mansion makes an appearance as well, where players are tasked with completing various challenges in the dark and fighting ghosts.

The final battle between all the teams culminated at Bowser's Castle, a multiple-part competition. Teams could use their hard-earned coins to buy power ups, without any knowledge of what they'd do. Some power ups helped or hindered others — and one did nothing at all. The task was simple: win a one-legged relay race while dodging fireballs, solve a puzzle, throw pudding at Boo and kill Bowser with a ton of balls. In the end, Team Toad emerged victorious. The real work here was done by the UBC Rec team though: from leading icebreakers, to guiding volunteers or dressing up as Bowser, they were on point the whole night.

BASKETBALL »

Philip Barndt had 35 points across both games.

PHOTO WILL MCDONALD/THE UBYSSEY

T-Birds split heated weekend with Dinos

Jacob Gershkovich
Senior Staff Writer

Two of Canada West's leading scorers butted heads for a marquee matchup in the Pioneer division this weekend. Jarred Ogungbemi-Jackson and the 11-4 University of Calgary Dinos were in town to take on Tommy Nixon and the 9-5 Thunderbirds.

UBC, arguably the hottest team in Canada West after having won eight straight games, was in no position to dote over their recent success. Clinging to the final playoff spot in the Pioneer division with the end of the regular season looming, and playing host to the number one seeded Calgary Dinos — this weekend's story was a best seller before the opening tip.

Fans were treated early in Friday's game to a frenetic pace of play. Bodies crashed into each other violently for every loose ball; fastidious coaches threw down their clipboards and wore out their voices; the crowd roared at a deafening volume. After trading baskets for the majority of the quarter, the visiting Dinos held a small 27-23 lead.

As has been known to happen in the world of sports, the abundance of energy in such a competitive environment translated into hostility. Things got ugly in the second quarter. First, UBC's head coach Kevin Hanson received a technical foul while disputing a controversial non-call against his team. Minutes later, Calgary's Matt Letkeman was handed a flagrant foul, followed by another technical foul assessed to Calgary's head coach, Dan Vanhooren. Capping off what was surely UBC's most rancorous quarter of play this season, Calgary's LJ Hegwood was ejected for pushing UBC's Conor Morgan after the former was hit with a questionable blocking foul. The crowd serenaded Hegwood as he left the building.

There was also some basketball played. Entering the break, the Dinos led 48-41.

"They were playing very physical," said UBC's assistant coach, Vern Knopp. "The game was getting a little chippy, and we just told our guys that we need to show some restraint and be the more disciplined team, so that we don't put ourselves in a situation where we have a player getting kicked out or suspended for tomorrow's game. It was tough, but you have to be able to control your emotions."

While the wave of technical and flagrant fouls dissipated in the third quarter, the superlative level of play did not. UBC slowly chiseled down Calgary's defence until the visitors' lead was no more. With less than a minute to go in the quarter, UBC's Tommy Nixon, who entered the weekend as Canada West's leading scorer, finished a layup while absorbing heavy contact from a Calgary defender. Nixon took the free throw line to the sound of "MVP" chants from the home town crowd. Though he missed the free throw, Nixon knocked down a mid-range jumper at the buzzer next time down the court, leaving both teams deadlocked at 68.

A neck-and-neck race to the finish seemed the only just way for this narrative to end. With 1:00 left in regulation time, the Dinos led UBC 88-85. After a massive defensive stop, Nixon tossed a lob pass to UBC's second-year guard, Kedar Wright. Wright drove to the rim and was fouled hard by Calgary's Lars Schlueter, who was slapped with a flagrant foul on the play. Wright hit one of two free throws, and due to the flagrant foul, UBC kept the ball. On the ensuing possession, UBC's Morgan knocked down an enormous three pointer to put the 'Birds up 89-88. Calgary responded with a basket of their own, only to be matched by two clutch free throw shots by Wright.

With UBC's Tonner Jackson on the free throw line, a 91-90 lead, and 5.1 seconds left to play, UBC looked to have the win locked up.

Ogungbemi-Jackson, Canada West's second-leading scorer, and Calgary's most dangerous offensive weapon, did not.

Jackson hit one of two free throws to put UBC up 92-90. Ogungbemi-Jackson received the outlet pass after Calgary rebounded the missed free throw, frantically dribbled up the court, and pulled up for an off-balance, fadeaway three pointer from well behind the three point line. The high arcing shot flew through the air, hit the back board and tickled the mesh as it passed through the rim. A speechless crowd read the scoreboard with disbelief. Calgary 93, UBC 92.

Like others in attendance, Knopp seemed stunned with what had just occurred, but was already looking forward to the rematch to be played the following day.

"It's cliché, but our backs are against the walls. We're fighting for a playoff spot. They're in first place in Canada West for a reason. They didn't lose their composure when they fell down, and a great player made a great shot at the end of the game. We just have to talk to our guys, refocus. Tonight's game is over now. As soon as we leave the gym, it's over."

The high energy, high-tempo style of play continued on Saturday. The high scoring offence did not. Call it bad shooting, or good defence, both teams failed to capitalize while they held the ball in the first quarter. Still, the visitors obtained an early lead, 19-16.

The second quarter of play was the Nixon vs. Ogungbemi-Jackson show. UBC's Wright was dealt the challenging task of defending Ogungbemi-Jackson, and despite his commendable play, Ogungbemi-Jackson lit up UBC for 20 first half points. On the other end, Nixon was as a wizard, which is all UBC has come to expect from their fifth-year leader. Nixon ended the half shooting 9-13 from the field for 19 points, and UBC led 41-40 after two quarters.

"[Nixon] is just in the zone right now," said UBC's head coach, Kevin Hanson. "He's been playing unbelievably well. He's certainly scoring and putting those numbers up, but also playing great defence for us. He's doing a lot of things that people don't see. He's embracing the moment right now, and it's nice to see him shine in front of the home crowd."

In the final minute of the fourth quarter, Morgan managed to toss a lob pass to Wright for the layup, which put the 'Birds up 89-86. Ogungbemi-Jackson took revenge during the next play. The all-star knocked down two high pressure shots from the charity strike to bring the Dinos within one point.

With 23 seconds remaining, the Dinos were forced to foul. Unfortunately for them, they couldn't avoid putting UBC's own all-star on the line. Nixon looked like he believed himself to be the only person in the gym as he took the free throw line. He knocked down two of the game's biggest free throws to put the 'Birds back up by three. That was as close Calgary would come. The final score: 93-88 for UBC.

"I'm just happy with the way that we executed down the stretch tonight. It was a real gut check game after last night. That was one of the toughest losses we've had as a group, and that I've had as a coach. Defensively, I thought we did a pretty good job tonight. Ogungbemi-Jackson is obviously one of the best players in the country and he showed that this weekend," said a relieved Hanson.

The road to the playoffs continues next weekend in Regina for UBC. The 7-9 University of Regina Cougars, a team eager to nip at UBC's hold on a playoff spot, will host the 'Birds in what looks like a gem of a matchup.

"We're facing a team that had a bye week this weekend, which means they've had lots of time to scout us out. They're all important games, and I think the way the league is structured, it's very difficult to really understand the difference between one through seven in the Pioneer division. It's getting down to crunch time with a couple of weeks left. We're just trying to focus on ourselves, and play better basketball," said Hanson.

BASKETBALL »

PHOTO STEVEN DURFEE/THE UBYSSEY

Kris Young (6) had 49 points on the weekend.

Women's ball continues tear against Dinos

Mason McIntosh
Staff Writer

Coming off a 80-53 win over the Dinos on Friday night, the T-Birds women's basketball team continued their smooth play to keep their win streak alive with a 56-67 win in the second game.

The Thunderbirds started off the game with some superior defence, leading to a handful of transition buckets. Cassandra Knievel (11 points) and Kris Young (12 points) led the pack in the first half. Knievel had flawless vision up court, finding teammate Adrienne Parkin on back door cuts and Harlene Sidhu under the hoop for easy baskets. The Dinos had no answer for the energy UBC was playing with, they had nowhere to go on offence, settling for long twos and heavily contested three pointers. Calgary's defence was no match for the Thunderbirds' quick ball movement; UBC was able to capitalize off Young's Russell Wilson-like long bombs.

The second was very much the same story; the quarter kicked off with Parkin making a beautiful pass to a cutting Sidhu who wrapped up the impressive chemistry with two easy points. Young continued her tremendous play with relentless penetration to the hoop — she ended the game with a game-leading 20 points.

Kara Spotton was a beast on the boards. Offensive or defensive, she made her presence noticed while the Dinos watched in awe. High energy was the theme for this Saturday night battle; the team who got involved and secured loose balls had the upper hand for the whole night. The T-Birds forced UofC to lob passes, giving them no chance to form any rhythm on offence, and capitalizing on the other end.

Sidhu wrapped up the third quarter with a very pretty and-one basket, pumping up the crowd and leading her troops into the final quarter. Sidhu finished the game with 19 points and six rebounds.

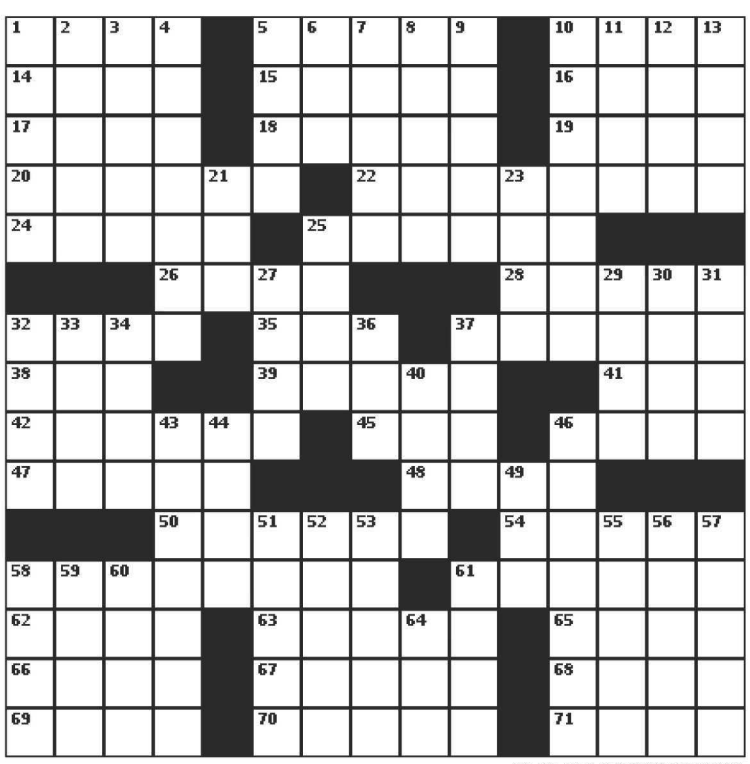
This tired Calgary group never let the game get away from them until the bitter end; their pressure ensured the game stayed within reach. However, their continuous settling for low percentage shots didn't help their cause, shooting a surprising 44 per cent from the field, and a concerning 7 per cent from beyond the arc.

With the second season just around the corner, this upbeat Thunderbird squad can't afford to let up. "We must continue to get better," said head coach Deb Huband. "With only four league games left, this is when the season is on the line."

Photo of the Day

Such Yoga. Much Vancouver. Very Beauty.

PHOTO CHERIHAN HASSUN/THE UBYSSEY



COURTESY BESTCROSSWORDS.COM

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8	7	5	2	6	4	3	9	1
4	1	3	9	5	8	6	2	7
6	2	9	1	7	3	8	5	4
5	4	7	6	8	2	1	3	9
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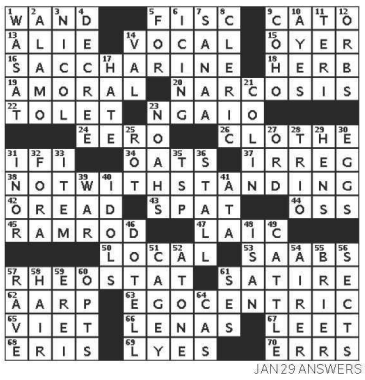
JAN 29 ANSWERS



JAN 29 ANSWERS

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COURTESY KRAZYDAD.COM

ACROSS

1- Small dam
5- Pickling solution
10- Oscar Madison, for one
14- Cross inscription
15- Breed of duck revered for its feathers
16- Shredded
17- Grump
18- Diciembre follower
19- Scottish Gaelic
20- Agree
22- Opposite of subtraction
24- AKA
25- Valuate
26- Attire
28- Red fluorescent dye
32- Medicinal amount
35- Menu words
37- Seaport in NE Italy
38- LAX posting
39- Have a feeling about
41- Freight weight
42- Tree limb
45- Wow
46- Actor Auberjonois
47- Law of Moses
48- Neighbourhood
50- Inn
54- Floor worker
58- Fully
61- Separable component
62- Sportscaster Albert
63- Cowboy display
65- Pianist Gilels
66- It transforms carbon dioxide into oxygen
67- European wheat
68- Nerve network
69- The ___ the limit!
70- Eagle's home
71- Keep it, to an editor

DOWN

1- Good witchcraft
2- Sign up
3- Teheran native
4- Enclosure formed by the ribs
5- Ale, e.g.
6- Oysters ___ season
7- Brainstorms
8- Squares
9- Wear down
10- Felt hat
11- Actress Petty
12- Estimator's phrase
13- "It's ___ real"
21- Mex. neighbour
23- Got it
25- Skilled
27- Impetuous
29- Locale
30- Desktop picture
31- Hawaiian goose
32- It's outstanding
33- Other, in Oaxaca
34- German river
36- Actress Alicia
37- Change direction
40- Stately aquatic bird
43- Indigenous inhabitants
44- Blacken
46- Oakland outfit
49- DDE's command
51- Vice ___
52- Take the honey and run
53- U-Haul competitor
55- "Network" director
56- Best of the best
57- Sublease
58- CPR experts
59- Stool pigeon: var.
60- Deuce topper
61- Speck
64- Certain Ivy Leaguer