

Felix

COMMENT



No sympathy for Theresa May

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Battle of Battersea

PAGE 24



week. The report also recommends the reintroduction of maintenance grants.

The Augar report, commissioned February 2018 as part of

uition fees should

be slashed and

repaid with less

interest over a

a wide-ranging review of higher education, recommended tuitions fees for domestic students should be capped at £7,500. Universities can currently charge up to £9,250 per year. In addition to this, the independent panel led by Philip Augar advised graduates should repay

student loans over 40 years and be charged less interest. At present, student debts accrue interest of up to 6.3% and are written off after 30 years.

Will a reduction in tuition fees help or hinder students? // Flice

government The should also reintroduce means-tested maintenance grants of at least £3,000

per year – a proposal that has been championed by outgoing Prime Minister, Theresa May. Treasury has warned that this could cost £6 billion per year. The national budget may also be hit by the report's recommendation that the government

Cont. pg 3

The Student Newspaper of Imperial College London



Tuition cuts a "shallow gesture" claims

FRIDAY, 7TH JUNE, 2019

FELIX

FELIX

NEWS

(cont.)

NEWS

should increase its finan-

cial contributions to make

up for the loss of universi-

ties' incomes as a result of

lower tuition fees. These

increased contributions

should, according to the

report, be focused on the

courses which are most

such as STEM subjects

- and those that offer

Universities Minister, Jo

Johnson, has expressed

doubts over the Treasury's

willingness to increase

higher education funding

saying the Augar report's

finances, imperil many

access". Education Sec-

retary, Damian Hinds,

recommendations

has dismissed

"destabilise

courses

progress

former

university

claims

and reverse

in widening

"better value".

However,

expensive to provide -

EDITORIAL

EDITORIAL

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SPORTS

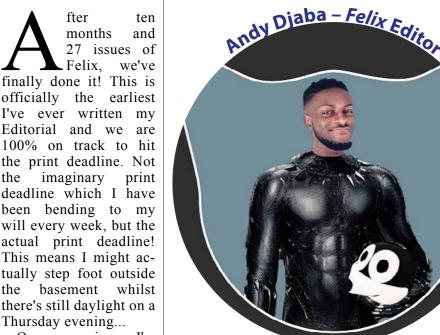
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We've finally done it!



Once again, drawing a blank when it comes to writing this

the pressure of needing

Island for the first time

then be surprised that Editorial. I think I need nobody stepped forward to couple up (is that what it's called?), is a whole No thanks to me, I might to submit in five minutes to get the creative juices separate matter. If, by add. flowing. I watched Love some miracle, a copy of Joanna, has conducted this issue of *Felix* makes | a thorough analysis of yesterday so I'm tempted its way to the island, read | last week's Augar report, to turn this whole Editoricarefully Sherif: Believe | which recommended a al into one big *Love Island* in your Barber! Failing reduction in tuition fees. meme but, if I'm honest, I that, invest in a bucket hat couldn't really see what | please. the hype is about. One

In keeping with the might seem at first glance thing I will mention, rest of this term so far, and time will tell if a though, is Sherif. To this week's issue of Felix arrive on the island with | is a slim one. 'Felix-lite' | timately benefit prospecno trim is one thing. To | if you will. However, | tive students or if it will

in widening access".

copy of next week's issue

Section of the week goes to the Music section. Head to page 14 for a double page spread, written by yours truly, on a festival I'm heading to next weekend on official *Felix* press business!

simply "reverse progress

This week's issue also sees the final Postgraduate feature of this academic year. I'm glad that we've been able to get this section of the ground this year and my only hope is that it continues to grow next year after I've handed over. As Ute's article addresses, there is still a long way to go before postgraduate students feel adequately represented and supported by the Union.

Be sure to pick up a of Felix for a roundup of the political uprising in Sudan (an issue that has been disappointingly under-reported by mainstream media outlets).



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that the Augar report's Marsden, has described Analysis recommendations will put universities into financial hardship as "scaremongering".

"Hinds has dismissed claims that the Augar report's recommendations will put universities into financial hardship

Shadow Minister,

as 'scare-

mongering'"

Education Gordon

the proposed cut to tuition fees as "a shallow gesture" that "will not resolve the

issues that affect pro-

spective students or our

institutions"

"Will not

resolve the

issues that

affect our

institutions"

Addressing the House

of Commons earlier

this week, Hinds said:

"Whatever decisions we

make about how best to

take forward recommen-

dations in this report, it's

vital that we support these

institutions to continue to

offer world-leading higher

education to students in

future."

Tuition cuts a "shallow gesture" claims Labour minister

Last year, Imperial College submitted three priorities to the Augar report's review panel. The College said any changes to financing must be sustainable and bridge the gap [estimated at £90 million for Russell Group universities alone] between existing funding for and the actual cost of providing "a world-leading STEM education", and should ensure higher education is accessible regardless of a student's financial circumstances. How far do the Augar report's recommendations meet

ISSUE 1724

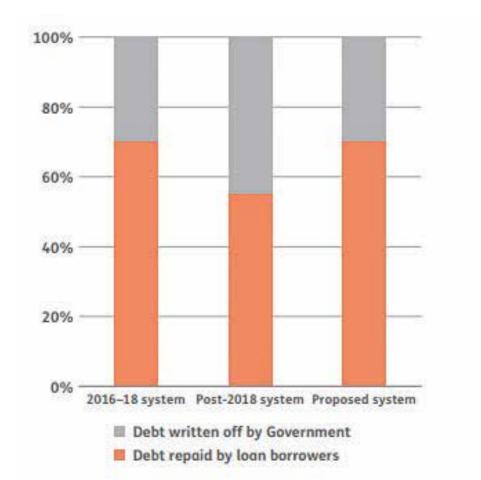
news.felix@imperial.ac.uk

Analysis by auditing firm KPMG revealed that UK universities spend 42% of their income on teaching – considerably less than higher education institutes in other countries. Managing estates, student services, and corporate and administrative costs account for 47%. The remaining 10% is used as a "margin for sustainability and investment" (i.e. money used to protect against future risk and to ensure services and standards can be maintained or improved). This MSI equates to an average of £1,000 per student – a figure the Augar report describes as "substantial" The report also notes that the higher education sector is "in a reasonably solid

The specialised equipment required for many STEM subjects means these courses are more costly to provide than many arts- or humanities-based degrees As a STEM-focused university, Imperial has less opportunity to subsidise more expensive courses with surplus from courses that cost less than £9,250 per student per year, as many other universities do. However, Imperial may be able to benefit disproportionately if the government decides to implement the recommendation that funding should be focused on "high-cost and high-value subjects" as part of the government's Industrial Strategy, which includes a pledge to increase spending on research and development from 1.7% to 2.4%. The Augar report states: "Our proposals ... are intended to encourage [STEM education] and are likely to result in more funding going to institutions with a strong research base."

The reintroduction of maintenance grants, which do not have to be paid back, will help those less able to cover their living costs but the benefits of the report's other suggestions - cutting tuition fees and interest rates while spreading repayments over a longer period – are less certain.

As Felix has previously reported, cutting tuition fees primarily benefits the highest-earning graduates. Two in five graduates earn less than £25,000 five years after graduating, meaning they fall below the threshold at which they have to start repaying their student debts, which, on average, amount to over £50,000. Even factoring in the additional ten years before the debts are written off, low-earning graduates are unlikely to see any significant change in the amount they pay back. Higher earners, who are already more likely to be able to pay off their debts in full, will pay back a lower total amount. An analysis by *The Times* estimates that the top 5% of earners would pay back £37,323 under the Augar report's recommendations, compared to £55,452 under the current system. Meanwhile, middle-earners on salaries of £30,000-£40,000 – who currently repay an average of £14,844 – would end up repaying £26,667.



The proportion of debt repaid by borrowers and the proportion written off by government, under recent loan systems and the proposed system // Augar report

£100.0br

Loan debt outstanding at financial year end for England // House of Commons Library

Imperial's magazine, formerly known as PHOENIX,

returns...with a twist!

If you are interested in Grime & Black British music, we want to hear from you!

What does Grime mean to you;

its size belies an issue

packed with the finest

hard-hitting journalism.

The issue of tuition fees is

far more nuanced than it

reduction in fees will ul-

Deputy Editor,

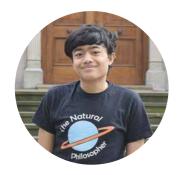


If you're interested, please email Felix@imperial.ac.uk

FELIX ISSUE 1724

COMMENT

comment.felix@imperial.ac.uk



No sympathy for Theresa May

While the media was full of coverage of a tearful moment in the Prime Minister's resignation speech, it's her victims who we should really be focusing on

COMMENT

Ansh Bhatnagar *Imperial College Labour Society President*

very stating clearly: it is a privilege, not a right, to hold the most powerful job in the United Kingdom. This shouldn't be a controversial statement, yet when Theresa May briefly broke down her veneer of stone-cold emotionlessness, the press immediately jumped onto it, making it headline news in the newspapers and spending hours upon end holding debates and discussing whether or not we should feel sorry for

This is symptomatic of media that treats politics like a pantomime, played on the grand stage of Westminster and detached from the real world. It is symptomatic of media that doesn't truly hold our politicians accountable and doesn't understand the human cost of the policies implemented by them. Before we even begin to wonder if we should feel sorry for a Prime Minister who was pushed around by a bunch of opportunist disaster capitalists from her backbenches, let's examine her record first.

Before stepping into Downing Street, May was the Home Secretary under David Cameron. As Home Secretary, she oversaw the 'hostile environment' policies that put migrants at risk, culminating in the deportation and denial of healthcare of lawful citizens of the Windrush generation. For this, the new Home Secretary Amber Rudd got sacked, while May continued her premiership in Downing Street. This was without a doubt an example of systemic racism: policies that disproportionately impact people of a certain ethnicity negatively; in this case, lawfully settled black Britons.

She also pushed forward the Snoopers' Charter, a large expansion of investigatory powers that, had it passed, would allow the state to further violate individual privacy. This was *after* the mass NSA/GCHQ surveillance revealed by Edward Snowden.

While in government,

and as head of it, she oversaw a rise in homelessness and in children living in temporary accommodation, with a UN special rapporteur denouncing the government for the scale of poverty in the UK. She oversaw the gradual privatisation of the NHS by contracting services out to private companies, creating a decline in healthcare standards as well as an increase in waiting times. She oversaw the cuts to disability benefits that subsequently led the Equality and Human Rights Commission to state that one in five disabled people have their human rights violated. Most shamefully of all, the hard-right austerity

agenda enacted by her government has been linked to 120,000 preventable deaths in a landmark UCL study.

This is without mentioning her government's inaction on climate change, which included going back on a promise to her Maidenhead constituents by passing a third Heathrow runway bill. It is without mentioning the continuation of immoral British foreign policy by arming Saudi Arabia, which is waging war in Yemen, and Israel, which is committing grave human rights violations in Palestine. It is without mentioning the sheer incompetence displayed by her and her chosen Brexit Ministers (David Davis and Dominic Raab) in the negotiations with the EU and with her own party, and the disenfranchisement of the millions of EU citizens living in

"Can we feel sorry for Theresa May? I'll let her record speak for itself"

the UK.

So, I ask: where was this emotion during the government's disgraceful response to the Grenfell more upset about being forced to resign from the most powerful job in the country, than she did about the human consequences of her policies? Theresa May will no doubt live a comfortable and indulgent life until the very end, but the same cannot be said for her victims, who are either dead or still suffering. Theresa May wasn't an especially evil or immoral person compared to those leaders who preceded her and those who will come after, but, like any other individual, she has always

To sum up: can we feel sorry for Theresa May? I'll let her record speak for itself.

had a choice.



Maybot_Do_Emotion// Guardian

disaster? Why did she feel

FELIX ISSUE 1724

COMMENT

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The UK's hidden opioid crisis

Comment writer **Calum Drysdale**, discusses potential solutions to the UK's terrible and invisible opioid crisis

COMMENT

Calum Drysdale
Comment Writer

he phrase 'opioid has the past had Teflon-like quality about it, like 'civil war' or 'theocracy'. These are terms used to describe distant news items. Fentanyl and oxycodone were intangible prob-lems. However, studies by the Organisation for Economic Co-operation and Development (OECD) show that while UK opioid use is still below that of the US, in daily doses per million of population, between 2013 and 2016 Britons increased their opioid consumption more than the citizens of any other country surveyed, excepting those from Israel or Slovakia. The effect of this has been around 2000 fatalities attributed to opioid painkillers every year, an increase of 41% over the last decade.

These lethal pills are not bought through the black market, at least not initially. Instead they are prescribed, usually by GPs, to non-surgical patients who turn to other means to acquire the drugs that they depend on once their prescription

runs out. A look across the Atlantic reveals the potential consequences of our current behaviour. In the US more than 130 people die every day from opioid overdoses, largely the consequence of overzealous prescription in the 1990s.

There is no quick-fix solution. Addicts are maligned as junkies looking to secure their next hit of temporary bliss. The reality is that painkiller addicts trying to live normal lives must turn to dealers for the pills they depend on for transient relief. Tragically, overuse of prescription opioids can cause a condition called hyperal-

gesia, a form of chronic pain. Long-term opioid users can find themselves locked in a cycle of agony from which the only relief is ever larger doses. In trying to provide relief doctors have only exacerbated the problem.

Any response to this growing crisis must be motivated first and foremost by compassion. Neither a tough response that promises to punish people for what has befallen them nor the hand-wringing displayed by Dave Thompson, Chief Constable of West Midlands Police, who refuses to follow the law on cannabis farms for fear of harming people's "life

chances", will help these victims.

Instead the UK should take a two-pronged approach. Firstly, GP appointments must be lengthened to enable GPs to address the root causes of patients' pain rather than resorting to prescribing opioids as a catch-all. Pharmacists should also only sell the exact number of pills required by the prescription, to avoid dependency or pills being sold.

Secondly, the Home Office should support Glasgow and other cities, with their plan to open 'shooting galleries' to help those whose lives have been destroyed by

opioids, by passing the necessary legal amendments. Shooting galleries would provide safe places for drug users to inject or ingest their own drugs, in regulated dosages, with medical staff in attendance. In Portugal these measures have successfully curbed fatal overdoses, the spread of HIV and hepatitis C. The government should be brave enough to break with the previous morally bankrupt policy and embrace data driven methods to avert an epidemic of addiction and broken lives..



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SCIENCE

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Xenon could be used to reduce traumatic brain damage, Imperial study finds

SCIENCE

Sânziana Foia

Science Editor

raumatic Brain Injury (TBI) is the leading cause of death and disability for people aged under 45 in developed countries. The first ever life-long study in mice has found that head injury effects can be halted by xenon gas. Following TBI, xenon prevented the mice from early deaths, improved their long-term cognition, and protected their brain tissue.

In TBI, a primary injury is first caused by the initial force from a fall or car accident, for example, and is followed by a secondary injury which develops in the minutes, hours and days afterwards. It is the secondary injury that is largely responsible for the mental and physical disabilities associated

with TBI - but there are currently no specific drug treatments that can be given after the trauma to stop TBI from developing. The only treatment available is supportive and rehabilitative. TBI patients who survive the injury have a reduced life expectancy and an in-

"TBI patients
who survive
the injury have
a reduced life
expectancy
and an
increased risk
of developing
Alzheimer's"

creased risk of developing Alzheimer's disease or other dementias later in life.

Now, researchers from

Imperial College London and Johannes Gutenberg University Mainz have found that the anaesthetic drug xenon, given shortly after a TBI, prevents early death and long-term cognitive impairment and even protects the brain tissue itself in mice. The xenon-treated mice had similar life expectancy, cognitive function, and brain tissue integrity to mice that had never sustained a TBI

Previously, the same team led by Dr Robert Dickinson and colleagues at Imperial's Department of Surgery and Cancer, showed that xenon limited early brain damage and improved long-term motor function in mice with TBI, but longer term effects were not yet investigated. Now for the first time, the effects of xenon over the whole lifespan of mice has been observed. in this study that was published in the British Journal of Anaesthesia.

Animals were

randomly allocated to one of three groups: TBI xenon, TBI control, and healthy control. Under general anaesthesia and long-acting pain relief, a controlled mechanical force was applied to the brains of the TBI control and TBI xenon groups. The healthy control group was given anaesthesia, but did not receive a TBI. The researchers gave xenon gas to one of these groups (TBI xenon group), while the other two received control gas for the same

"Key brain areas involved in cognitive functioning were damaged in the control TBI group. Xenon treatment prevented or significantly reduced this damage."

amount of time.

All three groups then underwent learning and memory tests at two weeks and 20 months after the injury. Time of death was recorded and the mice brain tissues were examined.

The researchers found that the TBI xenon group had the same life expectancy as the healthy control group which had not suffered a TBI. However, the TBI control group developed late-onset cognitive

damage. Xenon treatment shortly after TBI appeared to prevent this. The TBI control group were also observed to have damage in key brain areas involved in cognitive functioning. Xenon-treatment prevented or significantly reduced this damage.

Xenon prevented the loss of brain cells in the hippocampus (an area of the brain associated with learning and memory), and prevented degeneration of nerve fibres in the corpus callosum (which connects the two brain hemispheres). Xenon was also shown to reduce long-term brain inflammation that is believed to be involved in cognitive impairment in Alzheimer's Disease and other dementias.

According to the group, these findings are important as they could offer insight into new treatments for TBI patients, who currently do not have any specific drug treatments available.

Lead author of the study, Dr Rita Campos-Pires, from Department of Surgery & Cancer, said, "There is currently a huge gap in what treatment we can offer to patients who've suffered TBI - an injury which can impact all areas of their lives. Although xenon has not yet been tested for TBI in humans, our findings add to the growing body of evidence that suggests it could be used after head injuries to prevent secondary injury developing.

"Xenon appears to act in a variety of ways, but one of the most likely mechanisms to explain its protective effects on brain tissue is by inhibiting receptors in the brain known as NMDA receptors, that become over-activated following a brain injury."

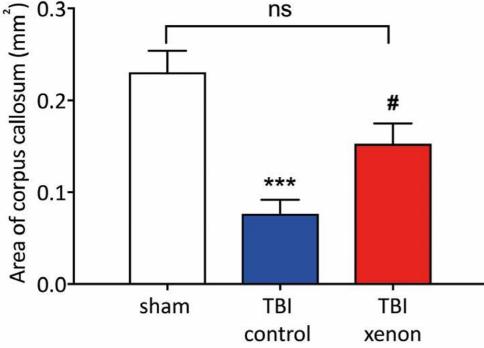
Dr Dickinson added: "We have looked at very long-term outcomes, up to 20 months after TBI in mice. This is very rarely done in animal studies and is equivalent to following up human TBI patients until their 80s. The finding that only a short treatment with xenon can have beneficial effects on cognition, survival, and brain damage almost two years later suggests that xenon might in future prevent cognitive decline and improve survival in human TBI patients."

Xenon is already used as a human general anaesthetic, is known to have few side effects and could be easily given via inhalation or to mechanically ventilated TBI patients in the intensive care unit.

Given xenon's safety

"There is currently a huge gap in what treatment we can offer to patients who suffered TBI"

profile - and today's findings - the researchers hope in the future to evaluate the effectiveness of xenon in human TBI patients.



The area of corpus callosum was significantly reduced in the TBI control group, but the xenon-treated group was not significantly different to the uninjured healthy control group // Robert Dickinson

APPROACHING

IMPERIAL COLLEGE SMASH BROS
TOURNAMENT



Saturday 15th June 1-6pm RSM G.01, South Kensington Campus

FELIX

Conference Monday 10th June.

Viewing

YouTube

Developers

Time: 6.00 PM BST

Twitch, Facebook and

hardware makers for PC are invited to participate in the PC Gaming Show. PC Gamer has revealed

that they are expecting a

lot of titles to showcase

during the two hour lives-

If you're excited by

stepping into the shoes of

a supervillain for a second

time, then the world's first

reveal of Evil Genius 2

will be right up your alley.

will also be revealing an

active has been working

stage and discuss the

upcoming Borderlands 3

in depth To coincide with

the upcoming release of

Borderlands 3, Border-

lands 2 will be receiving a

free DLC update to set the

Expect more informa-

tion from Paradox Inter-

active about Vampire: The

Masquerade - Bloodlines

2 and Age of Wonders:

stage for the sequel.

Planetfall.

Samsung

Gearbox will take the

on will be featured.

Rebellion

Developer

GAMES

Platforms:

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The Road to E3 2019: Everything we know so far and

The Electronic Entertainment Expo (E3) has always been one of the massive events in the video game industry for the announcement of new video game releases and consoles. E3 2019 takes place from 11th to 14th June in the Los Angeles Convention Center.

GAMES

Anthony Onwuli Games Editor

fficially, the expo runs for days. However, the E3 phenomena is more than just the LA convention. It encompasses all the announcements for new computer and video game releases, as well as the teasing of new video game hardware. From publishers announcing into their existing fran- cast to TechRadar: chises, revealing new IPs, 9:15am: Countdown to and giving fuel to the fans | EA PLAY

for their console wars. one could say E3 2019 lasts weeks, with many Fallen Order (Hosted by announcements for major | Greg Miller and Andrea series having already been Rene) made this week and more to be released next week.

Conference Date: Saturday 8th June.

Time: 5:15 PM BST

Viewing Platforms: YouTube and Twitch

For the EA Play livesthe next set of DLC as a tream, EA has sent a 20 (Hosted by Adam means of breathing life | breakdown of their broad- | Rank)

9:30am: Star Wars Jedi:

10:00am: Apex Legends (Hosted by Alex "Goldenboy" Mendez)

10:30am: Battlefield^{тм} V (Hosted by Julia Hardy and Adam Freeman (EA)) | Time: 9:00 PM BST.

11:00am: FIFA 20 (Hosted by Alex "Goldenboy" Mendez)

11:30am: Madden NFL

12:00pm: The Sims 4 (Hosted by Andrea Rene)



The Avengers Project is set to be delved into at E3 2019 // Square Enix | new Forza title.



Microsoft

Conference Date: Sunday

Viewing **Platforms**: Xbox One, Mixer.com, YouTube, Twitch

With the absence

of Sony at E3, but the internet rife with rumours of the PlavStation 5, the Xbox E3 Briefing would be the best opportunity for Microsoft to make waves this month with the announcement of the next generation of the Xbox, currently codenamed Project Scarlett. Industry insiders have suggested that if Microsoft does do an official annoucement for their next gen console, then there will be successors to both the Xbox One X and the Xbox One S.

Most likely though, it will be the Project xCloud which will be the hardware focus of this conference, as an answer to Playstation Now and the recently announced Google Stadia.

In terms of video game titles, we can expect more information and official annoucements for Halo Infinite, Gears 5 and a

"With the absence of Sony, and the internet rife with rumours of the Playstation 5"

Bethesda

Conference Date: Monday 10th June.

Time: 1.30 AM BST

Viewing Platforms: Twitch, YouTube, Twitter, Mixer and Facebook

A recent statement from Todd Howard has indicated that we will not be seeing Bethesda's new sci-fi IP, Starfield, nor Elder Scrolls VI at E3 this year. Not the biggest disappointment from Bethesda (that would be Fallout 76), but this does leave us to speculate on what Bethesda will be showing this year.

The most obvious options would be content updates to the Elder Scrolls Online and Fallout 76. Additionally,

we should expect more information about Doom

Sadly, it's unlikely that of Skyrim at this E3.

Devolver Digital

Conference Monday 10th June.

Time: 3.00 AM BST Viewing Twitch

Amongst the big name publishers, we have room to indie developers. Miami, Duke Nukem 3D: Sometimes

With some sequels being developed currently including The Talos 2 will be Principle 2. Sometimes Always Monsters as well receiving as some games releasing later on in 2019, Metal Wolf Chaos XD. My Friend Pedro, Serious Sam 4: Planet Badass, we're in for a conference filled with unexpected shenanigans and wacky

PC Gaming Show

we will get a new edition

Platforms:

Devolver Digital giving In case you don't know about this publisher, then some of the games that they have published in the past include: Hotline Megaton Edition, Always Monsters. The Talos Principle and Hatoful Boyfriend.

> "Borderlands a free DLC update to set the stage for the sequel."

expected to reveal more

unannounced title. New footage of Last Oasis as well as the projects that developer Tripwire Inter-

what we expect to see revealed

gaming monitors. The PCGaming Show is expected to have many more titles both announced and unannouced

information about their

Ubisoft

Date: Monday 10th June.

Time: 9.00 PM BST

Viewing Platforms: Twitch and YouTube

Ubisoft has recently teased what people should expect for their E3 conference and this includes updates to existing games and a celebrity showdown.

Current titles expected to make an apperance at E3 include For Honor, Six Siege Rainbow and Tom Clancy's The Division 2.

A tweet from the official Watch Dogs twitter account has confirmed that the third game in this franchise, titled *Watch* of Play broadcast last the best time for Square Direct.

Dogs Legion, will be appearing at E3. This game will be set in London. Rumours have it that you will be able to play as any of the NPCs in the new setting of London.

The focal point of this conference is likely to be Ghost Recon Breakpoint which has an October 2019 release, meaning that this game will likely get extensive attention during

Ubisoft has annouced that they are working on three brand new AAA titles, so it is possible that these three games could also be teased during their

Square Enix

Conference

Time: 2.00 AM BST

Viewing Platforms: Twitch and YouTube

short reveal for the Final Fantasy VII Remake, and after Square has been notably silent on the project for years, speculation has been fueled on

The Avengers Project,

Square Enix has

of Kingdom Hearts 3

a critical mode content

DLC, Kingdom Hearts

3: Re:MIND, slated for a

making an appearance at E3. Who knows, maybe, we might get a release which is currently being the Ubisoft briefing.

worked on by Crystal Dynamics and Edios-Montreal alongside direct involvement from Square Enix and Marvel Entertainement, will have an official annoucement at E3 2019, which so far has only had a small teaser in

Tuesday 11th June.

month teasing fans with a | Enix to do a reveal for the new scenario. Dragon Quest XI is

also releasing for the Switch later this year, so it might also be a part of the conference this year. whether this game will be | Additionally, we may get more info about *Dragon* Quest Builders 2 for the Nintendo Switch.

E3 will be host to many exciting annoucements inclduing the next chapter of Halo // Xbox

Nintendo

Conference Date: Tuesday 11th June.

Time: 5.00 PM BST

Viewing Twitch and YouTube

The June Nintendo Direct gave us a few details about been quite silent this the upcoming Pokemon year, with the release Sword and Shield for the Nintendo Switch. We in January, followed by can expect a full depth annoucement of several update in April. With the details pertaining to the first ever home console mainline Pokemon games

From Nintendo's big franchise. The Legend

games.felix@imperial.ac.uk

o Zelda and Mario, it is very unlikely that we will see anything about their next big mainline games. However, what we can expect is information about the Link's Awakening remake and Mario Maker 2.

There's some speculation on whether we will see another beloved franchise, Animal Crossing, during this year's E3 Direct, as the game does have a 2019 launch window.

Super Smash Bros Ultimate had it's most recent content update in April, where the first DLC Fighter, Joker from Persona 5, was added to the game. There are still four DLC fighters to be announced. Could we get a teaser of the second DLC fighter at E3? Possibly.

Other games which could make an apperance include Luigi's Mansion With Sony's State 2019 release, E3 would be during the Nintendo E3 3 and Fire Emblem Three Houses.

FELIX ISSUE 1724

FOOD

food.felix@imperial.ac.uk

"Shaken, not stirred" - Cocktails 101: A Guide for Dummies

Know your margaritas from your daiquiris? Want to save yourself the embarrassment of not understanding your date's order? Or perhaps just curious about the complexities of C_3H_5OH ? We've got you covered...

FOOD

Julia Dabrowska
Food Editor

xams are over... at least for the majority of us, and what better way to celebrate (or grieve if you've still got some coming) than with some tasty ethanol-containing beverages? Thankfully, summer means a chance to venture out of your comfort zone and try something more unique than your typical Union IPA or Jägerbomb, and it's not only for basic white girls – the cocktail. Here's a handy summary of a selection of the classics.

"Thankfully summer means a chance to venture out of your comfort zone and try something more unique than your typical Union IPA or Jägerbomb"

Dry Martini

The titular reference has to come first – I mean, who doesn't want to be James Bond? Preferably made with gin, but can

use vodka too. 4 parts Gin/Vodka, 1 part dry Vermouth (although ratios are debatable), and don't forget the olive!

Bloody Mary

Commonly consumed at brunch, this is a bit of a strange one (who mixes alcohol and tomatoes?). 3 parts Vodka, 6 parts tomato juice, and 1 part lemon juice, with a dash of Worcestershire sauce, Tabasco, and a pinch of salt & pepper. Nutritious?

Margarita

Ideal for summer due to its many fruity variations - strawberry, raspberry, or maybe mango or passion fruit? Mmmm. 2 parts Tequila, 1 each of Cointreau/Triple Sec and Sour Mix or lime juice, and don't forget to salt/sugar the rim of the glass.

Cuba Libre

A simple mixer with a name, this is low effort and high satisfaction if you want to greet your guests with something other than a beer can. 2 parts Cola, 1 part White Rum, and a dash of fresh lime juice and you're set.

Old Fashioned

Partially reserved for the posh, partially for those who enjoy whiskey (but who says that the two are mutually exclusive?). 2 parts Whiskey, 3 dashes of bitters, and a sugar cube, topped off with soda or water and garnished with orange.

Mojito

Probably the first cocktail you've ever ordered when aged 15, but

still a good staple. 4 parts White Rum, 3 parts lime juice, topped up with club soda, and a teaspoon of sugar and some mint for good measure.

"Partially reserved for the posh, partially for those who enjoy whiskey (but who says that the two are mutually exclusive?!)"

Daiquiri

A citrusy classic and Hemingway's supposed favourite drink – channel your inner author by sipping on this on a sunlit balcony (preferably in Cuba). 9 parts White Rum, 5 parts lime juice, and 3 parts syrup or half a teaspoon of sugar.

Gin & Tonic

Honestly, there isn't much to say about the G&T. Eponymous contents of this drink, mixed in your desired proportions, topped off with a lime and you're good to go.

Long Island Iced Tea

Easily one of the strongest cocktails which typically doesn't taste of alcohol (and you know what that means...). Equal parts of Vodka, Rum, Gin, Triple Sec and Tequila,

plus 2 parts lemon juice, and topped off with Cola. Add a lemon for good measure.

Piña Colada

The definition of summer in a glass (complete with pineapple, cocktail umbrellas and colourful stirrers). 3 parts pineapple juice, and 1 part each of cream of coconut and White Rum. Blend with ice for a frozen twist!

Sex on the Beach

Yes, this is in fact a cocktail, and a very good one at that, combining a lot of exoticness in one. 2 parts each of Vodka, orange juice and cranberry juice, and 1 part Peach Schnapps. And, you guessed it – an orange slice.

Negroni

Originating in Florence, this drink is one of Italy's many aperitifs striking that sweet/bitter balance. Equal parts Sweet Vermouth, Gin, and Campari. Add an orange for the summery vibe.

Whiskey Sour

Not going to lie, probably not one of the more confusingly named cocktails nor one of the better tasting ones. 3 parts Whiskey, 2 parts fresh lemon juice, with a part of syrup or a teaspoon of sugar.

Moscow Mule

Although Russia is a hot topic, this cocktail is anything but, adding a refreshing twist to a vodka cocktail. 1 part Vodka, 2-3 parts ginger beer, and a dash of lime juice.



Insta-worthy piña colada in Dubai // Emma Landry

Aperol Spritz

The epitome of summer and the perfect drink, in terms of aesthetics, flavour and the fact it is acceptable at any time of day (and a personal favourite if you couldn't tell). 3 parts Prosecco, 2 parts Aperol and 1 part soda. An orange is a must.

Rellini

Now we're getting into celebration territory; although the field is vast, this is arguably the best kind of bubbly cocktail (brunch anyone?). The most common peach version has 2 parts Prosecco and 1 part peach purée.

Cosmopolitan

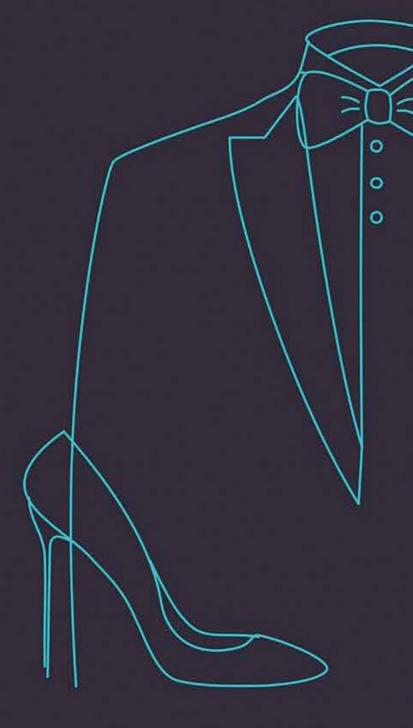
Not only for Carrie Bradshaw, this is a sweet (but not too sweet) vodka sour for those who love their vodka cranberries. 4 parts Vodka, 3 parts cranberry juice, and 1 part each of lime juice and Triple Sec.

Mai Tai

Tastes nothing like alcohol, yet guaranteed to look Insta-worthy; a decent deal for those basic white girls out there. 4 parts Rum (mix of white & dark in a 2:1 ratio), 1 each of Orange Curacao, lime juice and syrup. Commonly served with pineapple.

POSTGRADUATE BLACK TIE BALL

Music Baskerville Willy Meal Bowl Food Buffet & Welcome Drinks + Photographer



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Imperial College Symphony Orchestra



Milhaud, Ravel, & Gershwin 7:30 pm, Saturday 15th June Great Hall, Sherfield Building

FELIX

With the fifth year of Cambridge's Strawberries & Creem Festival right around the corner, Felix caught up with

MUSIC

Andy Djaba Editor-in-Chief

returns to Cambridge's rather than a big corpo-Haggis Farm on Saturday 15th June with its signature | what they feel is needed. line-up of house, hip-hop | We're just doing this for and R&B, and Noughties | everyone else like us." As throwbacks. to Felix, University Chris Jammer - the house, rap and R&B, and festival co-founder (who the eagle-eyed amongst you may recognise as a | itially seem like it would winner from E4's series pose a challenge, Chris Shipwrecked) – said the festival promises "the experience of a day out... not too far from London and it's just all about positivity and good vibes and throwback fun really, while remaining credible and current with | we're coming in trying to the music we're putting on". Felix investigates the our trustworthiness. When reasons why Strawberries | we're working with brands & Creem has become a and new people, just every College and associfirm fixture in the summer

Independent

festival calendar.

Curated by a small team of just seven young creatives, the one day event stays true to its ethos: "celebrate heritage,



co-founder, Chris Jammer //Instagram: @ChrisJammer | festival's journey from | lished ourselves enough

team consists of a mix of Cambridge University graduates, Cambridge locals and Anglia Ruskin University graduates. Chris told Felix: "We're trawberries a bunch of 25 year olds the really just having fun p-and-coming in- and putting something on dependent festival | that we'd want to go to, ration trying to impose Speaking | such, the festival is a real Cambridge | celebration of good vibes graduate and the hottest names in garage. Although having such a small team may inexplained to *Felix* why this has been a strength in running Strawberries & Creem: "In the festival industry, most festivals are owned by the same sort of people, whereas

champion future". The

we are independent so prove our brand value and getting across the vision of what you're doing and

The festival continues to go from strength to strength

industry.

Originally created five years ago as an end of year garden party celebration | really a stage with a few for the students of Cambridge, Strawberries & From there, we've gone Creem now successfully from strength to strength. provides the city with an Last year we did 10,000, exciting musical identity this year we're going to do that continues to expand 12,500." Chris also added annually. Detailing the



Strawberries & Creem Festival returns to Cambridge's Haggis Farm on Saturday 15th June // Strawberries & Creem

year to becoming one of us; that's a good sign of the UK's fastest growing | growth.' events, Chris explained: "In Cambridge Univer-

sity, they have something called May Week. When everyone finishes exams, ation has their own party. The May Balls, especially, actually if you're capable | are quite privileged - they of delivering that sort of cost a lot of money to go stuff." Strawberries & to, got to dress in black-Creem always shows true tie, that sort of thing; support for UK music so we wanted to put an and this enthusiasm has alternative in that space, been reciprocated by the delivering the music we wanted to listen to. Just challenge the make up of Ne-Yo collaborations – Cambridge University's this year's Strawberries & May Week a little bit. That | Creem promises a musistarted as a garden party but we called it a music festival and it was just toilets and a burger van.

iust 1000 guests in its first | that brands are coming to

"We grow every year"

Diverse Lineup

With the 2019 edition set to be topped by MOBO winner Stefflon Don - whose meteoric rise has seen her gain international success with French Montana, Tory Lanez, Jeremih, Sean Paul and cally diverse line-up. The rapper will be joined by UK pioneer Ms Dynamite, who was honoured with an MBE last year for her services to music, which count breakthrough hit 'Ms Dy-Na-Mi-Tee' and the 2002 Mercury Prize. Chris' excitement was "This year, we've estab- palpable as he told *Felix*:

"I'm really looking



The shift in line-up has led to an "interesting" shift in demographic // Strawberries & Creem

model and festival co-founder, **Chris Jammer**, for an exclusive interview.

forward to, first of all, having a female-led line-up, which was something that the festival industry has been criticised for before. Steff and Ms Dynamite were two best loved anthems. acts that we've wanted to Fresh talent is reprebook for a very long time and it's been timely for us that Ms. Dynamite started performing again and Steff's still within budget, just about."

MUSIC

"It was a hobby and then, when I left university, I thought, 'why not try and make this work full time'"

Representing the festival's signature throwback element and bringing carnival vibes to Cambridge, 'Beautiful Girls' hitmaker Sean Kingston

Lyttle, whose debut single 'Turn Me On' went on to become a club classic and one of Dancehall's sented in BBC Sound of 2019 nominee Mahalia, '079ME' artist B Young plus West London group WSTRN. Dancehall collective. The Heatwave. will bring their formidable Hot Wuk party, while a strong UK garage contingent sees Artful Dodger, Heartless Crew, Shola Ama and Sweet Female Attitude confirmed. With a performance from viral sensation Jimothy Lacoste scheduled, the festival's energy levels will remain high with sets from bass artist Flava D, as well house and techno selec-

will also headline, along-

side special guest Kevin

A proven track record Strawberries & Creem

wealth of respected acts perform in recent years, including Wiley. Chris told Felix: "We've got it right probably the last four out of five years; we've got Skepta just before he dropped 'Shutdown', J Hus just before he dropped Common Sense, Kano just before he dropped Made in the Manor, so they've always come to this festival with new material that was already popping." This year is no exception, with festival headliner Stefflon Don arriving with a plethora of songs in the charts at the moment

You never know who might show up

Finally, Strawberries & Creem has become renowned for attracting as Heidi, Eli & Fur and | a slew of surprise guests, wAFF, who head up | with 2018 counting over Strawberries & Creem's | 20 unannounced artists who performed on the day -including EO, AJ x Deno. Ambush and MC Versatile. Chris confirmed this, revealing to Felix: has become renowned for | "There are a hell of a lot its authentic and feel-good of special guests coming line-ups that have seen a to Strawberries & Creem

MS DYN SEAN KINGST **KEVIN LYTTLE WSTRN+B YOUNG+YOUNG T & BUGSEY** — FLAVA D+DARKZY JIMOTHY LACOSTE • ARTFUL DODGER — HEIDI → WAFF → ELI&FUR SNOOCHIE SHY . KENNY ALLSTAR + friends WARNING presents MOLLIE COLLINS & CARASEL THE HEATWAVE presents HOT WUK • CUPPY ANEK * ALISHA * HEARTLESS CREW SWEET FEMALE ATTITUDE * STAR ONE * WINDOW KID **CARDINAL SOUND * SHOLA AMA * LATE REPLIES** U LOOK . SABOTAGE . MORE SPEC

Strawberries & Creem 2019 full line-up // Strawberries & Creem

that aren't on our line-up. Historically, we've been and are available to buy quite good at getting people to come out on sets. Last year, we had the likes of Abra Cadabra, NSG, BBK – Shorty and Frisco came out. There's a lot to look forward to that isn't actually on the line-up. Just look at people who 2018 Festicket are featured with some of our headliners. I won't & UK Festival say any more than that."

To be a part of a festival with a very bright future ahead, visit the Strawberries & Creem website tickets start at just £45

"Strawberries & Creem was shortlisted for Awards"



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amongst last year's surprise guests // Strawberries

Skepta headlined Strawberries & Creem in 2015 // Strawberries & Creem

SUSTAINABILITY

Now available online http://felixonline.co.uk/categories/sustainability/artur.donaldson15@imperial.ac.uk

Flying regularly not crucial for success in academia

New study finds increased travel does not increase impact of research

SUSTAINABILITY

Artur Donaldson *Sustainability Editor*

cience is quite rightly celebrated for being an international enterprise, and academics often feel required or obliged to fly frequently and over long-distances in order to conduct their work or professional maintain relationships. But how important is long-distance travel to a scientific career, and how much do scientists contribute to climate change through their travels?

academics 30% of who surveyed by the Tyndall Centre felt an expectation to fly from their university. A new study at the University of British Colombia (UBC) suggests this pressure may not be rationally founded. Although academics who change affiliation found to have 40% more citations, academics who fly more frequently do not have a greater number of citations, nor do they have a greater number of co-authors per paper.

Attending conferences, undertaking fieldwork and teaching all contribute to the demand for travel by air, with 60% of demand coming from travel for conferences. In a sample of 705 academics at UBC, claims for air travel were made for 2.9 trips per person each year on average. Of these, 10% of trips were same-day returns, long-distance flights with only one overnight stay, or short-distance flights for which ground-based transport could be taken. Such trips have a high carbon footprint within a

short timeframe.

The scientific consensus on climate change is clear, and so are the impacts of flying. Aviation is the most environmentally damaging form of long-distance transportation. A single passenger travelling 100 km by plane is responsible for the production of over 20 kg ĈO,e in emissions, double that by road (10 kg) and seven times that of a passenger travelling by rail (3 kg) (see To the planet every journey matters below). This is despite the high seating efficiency of airlines thanks pre-booking systems, less rigorously imposed in rail and bus travel, and decades of optimization of aircraft design and operation. Emissions from aircraft also affect human health directly. For instance, emissions from aircraft increase near-surface ozone levels and atmospheric sulphate concentrations. While Ozone in the upper atmosphere blocks harmful UV frequencies, at the surface it results in respiratory diseases. Sulphate aerosols, though slightly reducing the greenhouse effect, have the potential to cause drought according to a briefing paper produced by the Grantham Institute at Imperial College.

Using, for the first time, written records (travel expenses) as opposed to self-reported statistics, which can suffer from limitations, researchers found no correlation in the sample between the h-index of academics and the distance flown, even when accounting for age of the academic and number of co-authors on each paper. Nor was there a correlation between number of citations per author per paper and distance

Perhaps flying helps to produce larger collaborations? This too also does not appear to be the case, the average number of co-authors per paper was no higher for academics who flew further. A significant correlation found was between emissions and salary. An possible explanation is that higher-earning senior researchers are frequently invited to give talks and more likely to afford to fly in higher class.

Acting to reduce air travel can come with economic and social co-benefits, including better perception of the scientific community.

Although academics are aware and often sympathetic to environmental issues, they are sometimes criticised for the knowledge-action gap on flight. A ten-year study of newspapers in four different countries, including the UK, found that a third of criticisms levelled at academics mentioned their flying behaviour.

Changes need not be costly. The lowest hanging fruit is to travel modestly. Economy class passengers cause almost three times lower emissions than business class, and four times lower than first class passengers. **Encoding** committments to use the lowest carbon means of transportation into grants could be an effective and easy strategy and set an example. Restrictions on class of seating is already included in some grants.

Given that reducing flying is desirable both for the environment and for

60% of flights were to attend conferences // Wikimedia

academics, the results of the research are welcome, especially since Green academics were found to be no less likely to fly than non-Green.

Air travel may not be totally elimintated. Some long-distance travel will be needed for instance for fieldwork. One should be cautious to limit opportunities for less secure researchers who already travel less. Academics who did not claim any air travel expenses were found to receive fewer citations. A limited amount

of air travel, used effectiely, may be beneficial. Above a certain threshold it is a case of diminishing returns

A cultural shift is needed, but the changes required already have a precedent. Awarding grants which encourage low carbon travel, video-conferencing and limit use of high class air travel are strategies which could be employed to help researchers give flight to their research without liberating greenhouse gases.

To the planet every journey matters

More fulfilling than jetting off in search of Love Island ...

Student holiday travel options compared

- Cheap, but costly for the environment
- Investing into carbon offset funds (e.g. carbonfootprint.com) reduces impacts where alternatives are not available

245

g CO₂e/person/km

- Car-pooling (e.g. BlaBlaBla or a friend who drives) can be cheap and fun!
- Coaches often cheap (e.g. London-Paris ~19€)
 ... and no weight

... and no weight restriction!

102 g CO₂e/person/km

- Travelling around Europe?
 Consider train.
- An Interrail pass which allows you travel by train anywhere in Europe cheaply and easily - just write on the ticket where you are going

28

g CO₂e/person/km



The ultimate trip of a lifetime

0 g CO₂e/person/km

WALK/CYCLE

Photos: Aircraft landing Maho beach — Davidjellis - Youtube, Pool It: U.S. National Archives, Bus: Flixbus - Flixbus.com, ICE to Frankfurt - Darkroom Daze - Flickr / Data: European Environment Agency, 2014. "Energy Efficiency and Specific CO2 Emissions."

CLUBS & SOCIETIES

felix.clubsandsocieties@imperial.ac.uk

Tribal Fusion Belly Dance - Gorgeous Vintage Combos

CLUBS & SOCIETIES

Sarah Lowe

Imperial College Belly Dancing Society Publicity Officer

s featured in previous editions of Felix this term, the Belly Dancing Society is currently hosting a series of summer workshops in a variety of belly dance fusion styles. The last workshop of term is now approaching, where we'll be exploring Tribal Fusion Belly Dance. Tribal Fusion is a western belly dance style originating in the '60s in San Francisco, USA, which fuses middle eastern belly dance with elements of flamenco, hip-hop, Kathak, Odissi, and a variety of folkloric dance styles from around When: 18:00-20:00, Tuesday 18th June

Where: Activity Space 1, Floor 1, Union Building

Tickets: £10 for members, £12 for non members – on the door or on the

Union website

the world. The combination of all these different dances makes for a very intricate and diverse dance style!

We've invited Catherine Taylor to give her workshop on "Gorgeous Vintage Combos" wherein we'll learn combos utilising Burlesque, Belly Dance and Tribal Fusion movements to channel our inner pinup - get your sass on in this fun and feisty workshop! As with all of our previous workshops, we welcome people of all levels (even if you've never danced before) to try out our classes they're always lots of fun!

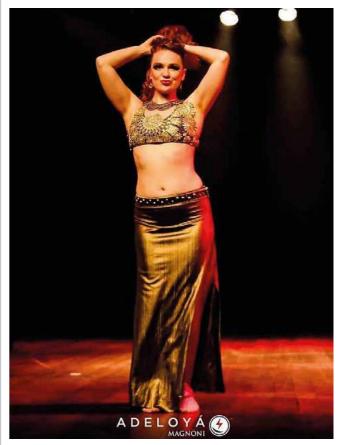
Catherine is a London-based performer and

teacher of Tribal Fusion, ITS and - under the pseudonym Vul Varine - Burlesque. She is known for her strong stage presence and innovative choreographies, as well as her engaging and approachable teaching style. She is a founding member of the Tribal Fusion troupe Curious Verses, director of the ITS troupe Sigma, and is co-organiser of highly popular cabaret show The Honeysuckle Revue. She was also an original member of the London Algerian Ballet, and has trained in Polynesian dance, Silvestre Technique and Orixa dance movement.

Unfortunately that's it

now for the belly dance society's classes this term. We'll be starting up again with a full timetable of Beginners, Advanced and Tribal Fusion classes in the Autumn term, so keep your eye on our activities come October – you can contact us in a variety of ways detailed below. We hope you all have lovely summers!

You can follow us on social media to keep up with us and our classes. We have Instagram: icu_belly_dance, Twitter: @ICUBelly, a Facebook page: ICbellydance and a YouTube channel: ICBellydance. We also have a lot of info on our website: so do check it out!



"Catherine is known for her strong stage presence and innovative choreographies" // Adeloya Magnoni

"Graduating in October 2019?"



All graduates from College will be contacted as part of the national Graduate Outcomes Survey. The responses to this Graduate Outcomes survey will be crucial in allowing current and future students to make informed choices and in helping us to evaluate and promote our courses.

Graduates will be contacted in September 2020. To support the survey, we are required to hold accurate contact details for you, including:

- · A personal email address
- At least one telephone number
- A postal address (this can be a parental/guardian address)

We would be very grateful if you could now review and update the details we currently hold about you via:

http://www.imperial.ac.uk/studenteservice

Wishing you every success in the future
The Careers Service
www.imperial.ac.uk/careers

POSTGRADUATE

Silwood: Imperial's Green Cupboard

POSTGRADUATE

Jessica-Lee Cole Silwood Park Union Welfare Representative

id you know **Imperial** has campus (read: farm) way out in the countryside? It's a whopping 20 miles from South Kensington. It But go outside and see is easily the most remote campus, but also the most | it pretty quick. The world beautiful (suck it SK). I isn't ending because your like to call it Imperial's R code won't work. The green cupboard. This is because, for me, it really does seem like Silwood is the Harry Potter under | at my desk, in the sun, and the stairs in the Imperial household – most of you don't know or care that we're here. We're not bitter in the slightest,

honest There are only a couple of downsides to living out here in the wilderness - like the fact that South Ken controls our heating, or that very few of the services provided for the London campuses make it all the way out here. However, despite the very few downsides, life is pretty great in the forest. Below are some of what I consider to be highlights of our idvllic lifestyle.



around all-damn-day. Our feathered friends provide us with all the animal interaction and fresh freerange eggs a person could need. When you're feeling down, the chickens are

always happy to see you (esp. if you have food).

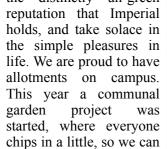
Your problems are less troubling in the forest.

I'm a drama queen. It's not my fault, just my natural reaction is one of overreaction. You can find postgraduate | me having a lie down after anything remotely distressing happens. Like a rich woman in the 1700s. some nature? I snap out of trees said so. I am writing this article that I have been procrastinating for weeks, a deer just ran out of the forest past my window. Life is good.

'There are cats!"

There is a gorgeous little ginger one who is all sunshine and light, his name is Mr Tinkles. There is also a black cat with cross-eyes; she is not so nice and incredibly demanding but loved nonetheless. Her name varies depending on who you ask – usually either all reap the fresh veggie Seitan, Salem, or Nigel. goodness. It's spring time These two are really in now so the veggies are charge of the campus, and just being seeded! If you we're all okay with that. find yourself on campus

sweet. We are really trying to distance ourselves from the distinctly un-green



there are roughly 200 people on campus. Now, that's not a whole lot of people. It's a massively different pace of life to London but here I know everyone's name. If you live in London, this might be a bit of an alien concept to you. Honestly, even at my old uni I knew the names of about 10% of my class. Maybe that says more about me, though, than anything else. The few students here are studying a wide variety of courses, ranging computational, coding-based courses to

I feel confident that when

I inevitably get lost in my

Life on the commune is and are itching to get your hands dirty, help is always ask someone for help and

community"

When everyone is here, are all here to learn. courses that go to the rainforest for most of the year.

where you could get such a wholesome

many of the academics on campus" // Alice Lawrence I feel very privileged

close-knit, but we are on very good terms wit

they will be nice enough to live here. There are to give it to me! very few places where you could get such a Silwood park is pretty notorious in the ecological wholesome and fulfilling community, and as such university experience. The pace of life is very different to London but that's honestly a good thing in my opinion, there's time to focus on what's important. If you want to come check out the campus for yourself, we are hosting a fully-fledged festival on the 3rd of August! You can find details here: bit. ly/Silfest19.

Please don't forget about us xx

very few places university



"As a supervisor,

Dominik is so generous

with his time. He always

finds a way to fit in a

meeting to discuss a

problem vou may be

having with research or

to write a letter of rec-

towards PG are good. meant to Imperial College Sticking to these promises PG Students this year? would be better.

POSTGRADUATE

Ute Thiermann GSU President

Hannah Jones GSU Events Officer

n the beginning of

my period as GSU

President, I had fre-

the Union's Managing Director, Jarlath O'Hara, and some of the Officer Rob Tomkies [Union President] and Alejandro Luy [Deputy President (Education)]. Damn, we had really good plans! For the first time, we would try to work together and orchestrate our efforts to work towards the needs of PG students. Maybe for the first time in many years, Union representatives have not only admitted that PG students are largely neglected by the Union, they went even further and promised that they would support us (the GSU) in our activities and strategies. The goal was that the Union should work with the GSU as their executive arm to address PG needs. Direct key contacts were identified for every GSU officer, as well as sub-committees set up to work together more effectively. We agreed on a timeline of actions and events, and the PG Black Tie Ball would be our highlight project to trial and optimise our cooperation. While the first few months were quite successful, with a full review of our GSU | flagship governance structure, the event, which had such

Union's efforts to hold promise, almost failed their promises have dras- to happen. Despite this tically declined over the last 6 months. On paper, sub-committees looked great, but words | to pull together as a team need to be put into action to turn into reality.

experience was the Union management's attitude regarding the PG Black Tie Ball. During the one (and only) meeting in 2019 concerning the ball, the officers and the Head of Student Voice & Communication reaffirmed their promises to turn the Black-Tie ball into a flagship event for PG students. Help with the marketing campaign and the organisation of the event and financial administration were all pledged. For the GSU, this was the first Ball; for the Union, one of many.

Counting on Union's support, aimed big and put plans in place to make the event happen. Unfortunately, we were left feeling underwhelmed by the support we were given. The promises that were made, for support with organisation and advertising, were left unfulfilled, with nobody from the Union even being involved. The Communications team declined to help with advertising until all the tickets for the Summer Ball, scheduled to happen three weeks after the Postgraduate event and mainly aimed at attracting Undergraduates, were sold. This, combined with poor advice from elected Officers, has meant the postgraduate

seeming abandonment from the Union, our GSU committee has managed to provide what looks to be a fantastic event. Most The most disappointing tickets have now been sold and we can be proud that, for the first time, we are bringing PG students from every campus and faculty together as one Imperial Postgraduate

> The people at the Union did have good intentions, and there has been help along the way that has been welcomed. What may have been underestimated is that for a change in long-lasting traditions, we need to fundamentally change the way we work. We need extra care, effort and allocation of resources to engage a community that has different needs to the Undergraduate population. We hope that, in the next academic year, the freshly elected Union officers will turn those promises into actions. Luckily, we have our PG representative Brooks starting as Deputy President (Education), so our hopes are up!



The Union's promises What Best Supervision

Get inspired by some of the nominations for the Student Academic Choice Award Winner for Best Supervision: Professor Dominik Weiss [Earth Science

and Engineering]

POSTGRADUATE

Ute Thiermann GSU President

like would nominate Professor Dominik Weiss from the Earth Science and Engineering department for the best supervision award. He is just a great guy and I am lucky to have him as my supervisor! I am coming towards the end of my PhD and I couldn't have done it

the software I use for my

calculations. My research

was supposed to focus on

experimental methods,

but because I was inter-

ested in computational

chemistry, he actively

encouraged me to develop

my skills in this area. He

without him. Dominik has always been there to support me throughout my PhD. He provides just the right amount of advice to push me in the right direction for Business, Energy and Industrial Strategy which without taking over or preventing me from provided useful insights to learning new things. He life outside of academia. is extremely open to col-He supported me when it looked like there would laborating with different people from all over the be funding issues, and did world, by both suggesting everything in his power to people to collaborate make sure I could do it. with, and by allowing us The most important thing though is that he to find our own collaborators. For example, he always puts us first before has helped me to collabthe research. He always orate with Gaussian, a wants us to have a good

> or a personal issue. Ultimately, he is no longer a supervisor, but a lifelong friend."

"Congratulations from all the PG community!"

went outside his comfort ommendation for a grant zone to learn this discivou might have applied pline with me, and how to for. Equally, if he needs apply it to environmental to set aside a whole day/ problems. This is a trait week to come down to of all great researchers the lab and help you, he and supervisors. He has will. He is always prompt now incorporated the at marking reports and discipline into other PhD giving feedback on drafts student projects. of papers. Even when he He encourages all his is out of the country on a students to explore areas visit to another institution outside of academia. He or on a well-earned break. regularly tells us about inhe will still be contactable. He also recognises where ternships he comes across which he thinks we will a problem is beyond his find interesting. I ended field of expertise and will up doing a 6 month internintroduce us to another ship at the Department academic at the college or beyond who is better suited

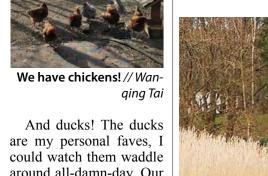
chemical technique). Bevond academic supervision, Dominik is a genuinely kind person who always looks to see the best in the situation - for example, even when our lab flooded, he was able to work-life balance. This see the brighter side and can often be forgotten joked about the opportuby PhD students like me | nity it presented to give it who get absorbed in their a good clean. He takes an research! His door is open interest in the lives of his regardless of whether you doctoral students outside want to discuss research of the college and is a pleasure to share a coffee with (and he always buys the coffees).

to help (I am currently on

a 9-week research trip at

the University of Valencia,

learning a new electro-







We grow our own food! // Paddy Vasey | code or whatever, I can

appreciated! "A sense of

we have guest speakers on a regular basis to enrich our university experience. Once a month the postdocs and PhDs host a social seminar, where they present their research over pizza and drinks. The size of the campus means that, not only is the student community close-knit, but we are on very good terms with many of the academics on campus, which promotes a really relaxed but driven learning environment. Most universities, find, have a clear divide between the students and the academics. Here, the

lines are less definite – we "We are all here to learn"

'There are experience"

18

Union Page





Wind Down Wednesdays Drink Outside The Box! Thank Goodness It's Friday

Get ready for the Summer Ball

The Summer Ball is only two weeks away. Before we roll out the red carpet, there are a couple of dates to take note of if you're attending the Ball or planning to transfer your ticket to someone else:

- 10 & 11 June transfer day for tickets (more information to be released)
- 20 & 21 June exchange ticket for wristband

If you bought a ticket, you will be able to collect it using your College card. You'll receive an email with all the information you need for the Ball next week.

If you're still haven't bought a ticket, see if you can snag one at **imperial**college**union**.org/**summerball**. We're almost sold out!

Take a break and relax

Don't forget to reward yourself with a little break from all your hard work this term with one of our weekly chilled events in Beit Bars:

Wind Down Wednesdays - FiveSixEight & Beit Lawn, 15:00 - 01:00 Chill out in the Quad on deck chairs, enjoy garden games and summer tunes every Wednesday afternoon.

Drink Outside the Box - FiveSixEight, 18:00 - 23:00

They say money doesn't bring happiness ... but it can buy you cocktails! Enjoy our delicious cocktails and mocktails every Thursday in May and June.

Thank Goodness it's Friday - FiveSixEight & Metric, 17:00 - 02:00 Wash away the stress of the exams with drinks and tunes each Friday, then turn things up with DJs playing in Metric from 9pm.

Join the Welcome Team

- Help new students move in
- Assist at stalls & events
- Give advice at the Info Points
- Meet new people from around the world

Student in 2019/20? Join the Welcome Team!

We'll train you, give you a t-shirt and reward you for being an amazing volunteer.

Sign up now: imperialcollegeunion.org/welcome-team



Your Union Events

Friday 7 June







imperialcollegeunion.org





Hangman

Ravenous vegans devour grass on Queen's Tower Lawn

HANGMAN

Negafelix

Editor-in-Chief

he Queen's Tower Lawn has been left in a state of dismay after a group of hungry vegans swarmed onto the field, devouring the majority of the grass.

The incident, which occurred last Monday, was said to have been a targeted strike by the Vegetarian & Vegan

Society (VegSoc), acting both in protest of poor vegan options, and out of sheer hunger. Eyewitnesses describe the event as being "like a horde of locusts, just like in the Ten Commandments, or whatever that movie was called."

Lois Riupérez, Chair of VegSoc, was defiant in his statement. "Yeah, we ate the grass," he proclaimed, "because there's nothing else for us to fucking eat out here! We had the salad bar and they took that from us, so now we're gonna eat all the goddamn grass here!"

The mass action was sparked following the demolition of the salad bar to make room for a new Business School cocktail bar, and the scrapping of the Meat-Free Mondays scheme proposed by Tania Auditoro, Deputy President (Pine Nuts & Lettuces). "This is none of my business," she said, trying to escape a Council meeting. "I tried my best but all these damn carnivores shut it down."

NegaFelix has been inundated with multiple complaints from students

following the event, drawing attention to the quality of the lawn. "It looks like a visual representation of my knowledge," said Sajid Johnson, final year Mechanical Engineering student, "patchy and lacking any kind of substance."

"All I wanted," wailed Samantha Ng, first year Mathematics, "was to sit on the grass with my diverse friendship group, just like in the prospectus! How am I meant to do that now? Imperial has sold me false dreams!"

Bureaucrat Supreme of



Oh look, the cows are out to graze // Wikimedia

the College, Candice Last, was said to be pleased with the outcome, claiming it to be firmly in line with the College's New Green Policy. "It's all about the

Benjamins, baby," she declared. "Those pesky vegans get their new food options, and I get my grass cut for free! It's a win-win for me-me!"



ARIES

This week you're a company and it's LGBT Pride month.

Better unveil that rainbow logo



TAURUS

This week you're Katie Hopkins.

You side with protestors against teaching homosexuality in schools. Your Islamophobia comes second only to your homophobia.



GEMINI

This week you talk about the exam after the exam outside the exam hall

You're a cunt



CANCER

This week you need to stop trying to make "Bev" happen, it's not going to happen!

It is what it is...



LEO

This week you go to the anti-Trump prtoest.

You throw a milkshake at him and are shot by his security detail.



VIRGO

This week you discover the ultimate limit of human endurance.

Turns out it's listening to someone from DesEng claiming their course is hard. Please put your crayons back in nose.



LIBRA

This week you're DPCS

Felix is short on content, but at least they're not desperate enough to beg for your article.



SCORPIO

This week you watch Love Island.

You are the reason the West is in decline



SAGITTARIUS

This week you charge \$999 for a monitor stand

Fortunately, you're Apple and people lap that shit up anyway



CAPRICORN

This week you have your last ever Imperial exam.

Joke's on you, retakes are in August



AQUARIUS

Tonight is the Union awards.

All these weeks of hangman for nought



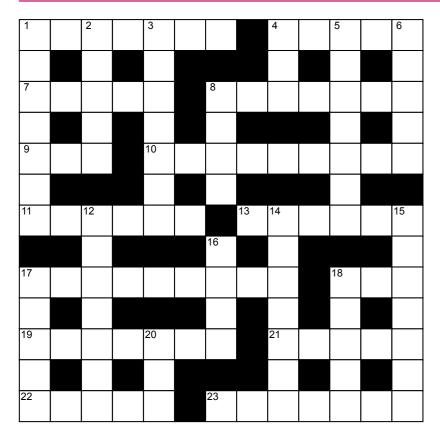
PISCES

This week you hand in your thesis.

Although your degree is complete, you will carry your PTSD with you for the rest of your life.

PUZZLES

fsudoku@imperial.ac.uk



SUDOKU

Fill all the boxes with a number between 1 and 9. A number can only appear once in a row/colum, and only once in each sub-box.

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

FUCWIT

1	Trollheim	222
2	DQ	218
3	Yeet Infection	214
4	Maxiane	206
5	O1G	188
6	Wooloomooloo	148
7	Big H's Boys	126
8	Rock, Flag & Eagle	108
9	Computer Magic	107
10	S. B. S.	95
11	Quizlamic extremists	87
12	Luncheon Pals	85

Send your solutions to *fsudoku@imperial*. *ac.uk* before Wednesday midday to take part in the leaderboard!

Points available

5
3
3
2
3
16

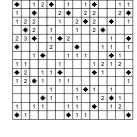
Across

- 1. I forgot what this clue is meant to be (7)
- 4. Brings a stethoscope to class (5)
- 7. Shift down a gear (5)
- 8. Current-carrying loop (7)
- 9. Came to an end in June (3)
- 10. The Spanish one was pretty bad (9)
- 11. Thankfully flows in pipes (6)
- 13. Dippy eggs are cooked this way (6)
- 17. Eurovision country in the Southern hemisphere (9)
- 18. Inferior (3)
- 19. Late afternoon (7)
- 21. Chilly Arctic home (5)
- 22. Contract muscles (5)
- 23. Greek hero a.k.a. Nobody (7)

Down

- 1. Makes an ass out of you and me (7)
- 2. High-maintenance (5)
- 3. Baby tree (7)
- 4. Spoil (3)
- 5. Frequency of waking up (7)
- 6. Just add Panna (5)
- 8. Rim of a sleeve (4)
- 12. Home of Clint Eastwood (7)
- 14. Bricks have this, glass does not (7)
- 15. Questionable (7)
- 16. Fulham Broadway premium night venue (4)
- 17. Pretty good at something (5)
- 18. Huge bucket for grain and missiles (5)
- 20. Solid water (3)

Last week's solutions





NONOGRAM

Colour in some of the squares to make a picture. Each number represents a block of consecutive black squares within that row/column. Each block needs to be separated by at least one white square.

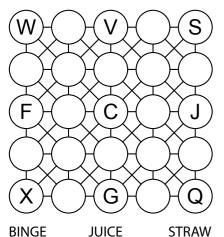
2	3	8	1	6	9	7	5	4
6	5	1	8	7	4	3	2	9
9	7	4	2	3	5	6	8	1
7	1	9	3	5	2	4	6	8
8	4	6	9	1	7	2	3	5
5	2	3	6	4	8	თ	1	7
4	6	2	5	9	1	8	7	3
3	9	5	7	8	6	1	4	2
1	8	7	4	2	3	5	9	6

GOGEN

DUNE

FOAM

Write letters into each circle to form the listed words. Letters can be linked by moving between adjacent cells horizontally, vertically or diagonally in any direction. You may use each letter in the alphabet only once.



QUIT

SLIT

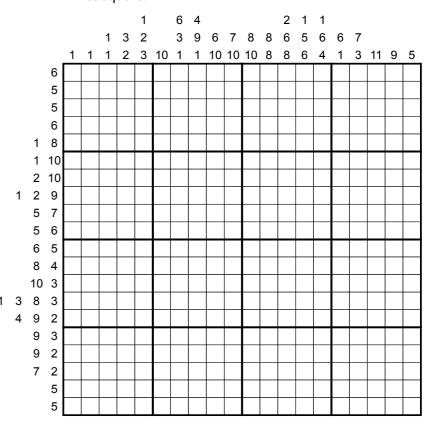
EXPORTING SHRINK

VARY

SHIKAKU

Divide the square into rectangles, such that each rectangle contains exactly one number. The numbers given represent the area of the containing rectangle.

	4		3		2		4
4	4			4			
	7						
			12			9	
10					3		5
	5	2	3				



SPORTS

sport.felix@imperial.ac.uk

Battle of Battersea

SPORTS

Mihai Vanea Sports Writer

aturday 25th May will be remembered as the day when the athletes of Imperial College came together one last time to compete in the LUCA Outdoors series, in the same fanatic spirit that has defined this club in the past few years and made it the LUCA Club of the Year

One of the first events was Shot Put, where Patricia Santos threw making 6.01m, question whether I should start going to the gym. Our award winning Women's Captain, Charlotte Barratt, and the Athletics Captain, Jack Mitchell, also took part, throwing 6.38m and 6.72m, respectively. Jack went on to take part in the Long Jump, where he registered 4.74m. In the same event, James Weller came third, jumping an impressive 5.32m

Our brave warriors dominated Men's Javelin, as Arthur Jurgenson won the event, followed closely by Greg Jones, who came second, making people wonder if Aeronautical Engineering students have an unfair advantage in this event. While Olivia Papaioannou came within a few inches from winning the event, she kept fighting throughout the day in three other track events.

One of the club's living legends, Raul Rinken, won the Discus, throwing an impressive 39.6m, while Nnaemeka Anyamele threw 30.15m to come fourth. Marta Van Ginkel and Maryna Voloshyna also took part, throwing 17.57m and 16.55m respectively.

Moving on to track, it has to be said, Imperial caused quite a lot of damage. In the 100m sprint, Will Fisher won his heat by running 12.03s. He also did the 200m in an impressive time of 24.70s. Alex Mundell absolutely crushed the 400m sprint, leaving her opponents four whole seconds behind and finishing the race in 61.41s. This race left a few people confused, as they taught she was running by herself. Alex also claimed third place in the 200m,

running an impressive 28.27s, reminding the other London universities that she's "tiny but mighty". The day saw Niki Faulkner take on the 400m race as well, running in heat 1 with mostly 100% fast-twitch muscle fibre boys that probably spend too much time in the gym. He did not disappoint, finishing the race in 53.38s, a time that makes any so-called "sprinter" pretty damn jealous.

One of the most exciting events was Men's 800m, which saw James Millett tactically win by a few inches. James let his UCL opponent dictate the pace throughout the race, only to bite in the last 20m, just like an oily snake. Millett took home the gold medal for the athletics championship and also won the 1500m gold medal, ranking him third in the LUCA Outdoors MVP standing. These two events made us realise James has got quite an extraordinary fan base among UCL students, as most of them where shouting "Go, Hugo! Go!"; very personal too, as they knew his middle name. Thomas Bayley



Fast start in the Men's 1500m // Geoff Lowe

and Fergus Johnson also took part in this race, clocking 4:14 and 4:42 respectively.

The 5000m saw a few Imperial athletes running twelve and a half laps in the scorching sun. Female Athlete of the Year, Georgia Curry, claimed gold after finishing the race in 17 minutes and 59 seconds; dabs were included. Alix Vermeulen came second with a time of 19:07 and Nina Rimsky finished in 23:44. The boys put up a good fight in the heath as well, with Joe Pomfret finishing fourth in 17 minutes and 22 seconds, followed closely by Mihaly Ormay, Matt Ryan, Jim Warren and Jack Teh. Yes, Matt, we know! You beat Jim.

"You guessed it, it's the steeplechase!"

Moving on to some water jump naughtiness... yaas. You guessed it, it's the steeplechase! Our orienteering pioneer, Mihaly Ormay, stormed the race, coming third with a time of 10:58. He was followed by Charlie McFadzean,

who finished the race in 11:02. The Club Captain, Fergus Johnson, also managed to clock an admirable time of 12:07, while veteran Lawrence Kar Tse finished the race in 14:37. The girls did not disappoint either. In the 2000m steeplechase, Chloe Baker came first, with an impressive time of 7 minutes and 43 seconds, placing her third in the league. She was followed by Alix Vermeulen, Olivia Papaioannou, Maryna Voloshyna and Marie Jones.

As the day came to an end, it was time for the race of all races, the one to decide all rivalries, the Medley Relay. Each university put up a team of three men and three women to run with a baton distances of 200m, 400m and 800m. This is the time to take out the big guns. As the race went on, students from every university were cheering and shouting their runners' names at all times, until one moment... The race was very close, UCL and King's were leading for most of the first four legs. James Millett managed to come par with them at the end of his leg, and then it happened. Alex Mundell got the baton and started

sprinting the first 200m just like in her previous race. Students from the other universities thought she wouldn't be able to keep it up, but they could have not been more wrong; not when you have an 800m specialist doing it. The UCL and King's crowds went silent as Alex kept increasing the gap between her and her opponent. Having put in this amazing performance, Imperial College retained their Medley Relay trophy for a second year in a row. Some people claimed that it was not fair, because the 800m legs were a lot more important than the shorter ones and it gave Imperial an unfair advantage. To those people, I have two statements: "Gold is gold!" and "Get better at running!".

That's all folks! This university athletics season saw **Imperial** College rank third overall, above King's, last year's champions. The Medley Relay trophy and the medals made our athletes pretty happy at the end of the day, some say too happy... and maybe that trophy should get cleaned before handing it over, probably with bleach.



Imperial jump well in the Women's 2km Steeplechase // Geoff Lowe