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THE STUDENT NEWSPAPER OF



Imperial academics talk Trump and climate change

PAGE 3 News

It's not rational to be scared of terror

PAGE 7 Comment

Archer, the show that keeps on giving

PAGE 16 Culture

The great age of 3DS

PAGE 18 Millennials



How to break up with someone (you met in Metric)

PAGE 22 Millennials

Telix ... E D I T O R I A



What a week



hat a week. Since last Friday, shit has hit the fan. Much like an evil mastermind in a superhero movie, Donald Trump has announced to the world his evil plan to fuck over the planet: quitting the Paris Agreement. The only differences are that he's as thick (but slightly more orange) as mustard, and that the rest of the world has gone fuck you back and is now probably conspiring to send him to deep space, leaving behind only the faintest Cheeto-dust trail as proof that he ever existed. Speaking of proof, Comey has started testifying which is bound to be the best thing to hit the screens since OJ Simpson's trial. The real question now is whether Trump gets impeached and flees the US first, or whether California beats him to it and goes rogue joining China.

Then on Saturday there were two terror attacks in London which left seven people dead, 48 people injured and thousands declaring themselves safe on facebook.

But no one probably remembers the attacks anymore anyway, because not only did they happen over the weekend when everyone was shit-faced, but we've also had to deal with the General Election, less than a week after the London Bridge and Borough Market incidents. (Also this is London and we don't' have time to care for other people.)

Meanwhile we have Theresa May going around making dirty confessionals, like that time she ran through a field of wheat. I mean, how can someone that dirty be trusted with the leadership of a country? And that's coming from me!

The thing that really pisses me off about the General Elections is that we need to get this paper to the printers by 11pm so there's no way in hell we can provide any insightful commentary (as per usual). Unless we wing it. Which we did consider. A couple times. I've just had the term 'hung parliament' stuck in my head all week. Like how hung? Frankfurter hung? Beer can hung? Baseball bat hung?

Back to my editorial though: Don't be too disappointed we're not covering the Election results. Just take this opportunity to read about all the other depressing shit that's happening in the world right now and unwind with one of out thickest editions in weeks.

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Friday 9 June 2017 felix.news@ic.ac.uk felixonline.co.uk/news : 3

NEWS. felix

Imperial academics on Trump and climate

The Grantham Institute spills the beans

Lef Apostolakis

ast week Trump declared to the world that he'd be pulling the US out of the Paris Agreement. Within hours, Elon Musk had resigned from the President's Board of Advisors, American states such as California went rogue and protested the move, vouching to uphold their commitment anyway, and world leaders expressed their disappointment and their determination to do their bit for the planet.

Surprisingly, Trump's war on sustainability seems to have united almost everyone else against him. The acting head of the US embassy in Beijing resigned over his country's withdrawal from the Paris climate change accord. France, Germany and Italy penned a joint letter condemning Trump's decision (Theresa May reportedly declined to co-sign the statement). By Monday over 1,000 mayors, governors and companies in the US had expressed defiance to Washington.

And yes, even North Korea called out the decision, branding it "short-sighted and silly".

Climate change is rightfully the hottest topic of discussion at the moment, so we talked

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to some of Imperial's leading scientists to see what they're making of this turn of events. And what better place to find them than the Grantham Institute.

The Grantham Institute does multidisciplinary research, engaging with staff and across College students interested in climate change. Jo Haigh is one of the institute's Co-Directors and has notably contributed to (and lead authored) several reports of the Intergovernmental Panel on Climate Change, and was more than happy to discuss recent developments. The Paris Accord was a triumph that not only surprised everyone at the time but keeps pleasantly surprising scientists across the globe.

"You can't imagine how fantastic it was, because previous to that we had the Copenhagen meeting which was such a disappointment," says Haigh. "We were all hoping there'd be a climate agreement and it got absolutely nowhere. This time round we were thinking if they can just agree on anything it will be so good. And not only did they have a unanimous agreement but they agreed to try and limit global temperature increase to less than two degrees above pre-industrial [levels] or preferably 1.5 degrees. This was signed up and agreed and then less than a year later it got ratified. I think this is the fastest any treaty has been ratified through the United Nations."

Paris Agreement The is based on voluntary contributions to reducing CO2 emissions. It has been criticised for not providing a legal framework for keeping the international community in check. Realistically, even if signatories fulfilled their pledges, we would be nowhere near hitting the two degree target. But that's not the point. (Besides, there are mechanisms for reassessing goals and moving action forward every five years). The success of the Paris agreement lies in the declaration of global intent to do something about climate change and the exit of a major player like the USA jeopardises the spirit of unity.

"The USA is estimated to be contributing nearly 20% of the world's CO2 emissions.

\\ The issue is that you need everyone to agree that we need to make an effort. That's why we have these big international agreements. We all need to play our part, which is why the US detaching is distressing \\

Pulling out is no minor event. The thought that the US wouldn't do anything to mitigate climate change is bad in itself but it could also be bad in the sense that other countries might think likewise – if they're not doing it, why would we bother – and the whole thing could unravel."

Alyssa Gilbert, Head of Policy and Translation at the Grantham Institute, agrees. "A lot needs to be done locally. The issue is that you need everyone to agree that we need to make an effort. That's why we have these big international agreements. We all need to play our part, which is why the US detaching

is distressing."

Gilbert's role bridges the work and knowledge of academic researchers and the action stakeholders who make decisions that impact the environment, such as NGOs and governmental bodies. Gilbert essentially ensures that the science is effectively communicated to the public and translated into policy. Which begs the question: What motivated Trump's decision? Was it a communication failure?

Gilbert doesn't think so.

"In no time in his speech about leaving the Paris Agreement did Donald Trump say anything skeptical about climate change. Whether that's because he's a climate skeptic remains to be seen but the bit of the story that's telling us what the science says about the world around us seems to have had quite a significant message delivery over time."

Indeed, not only has scientific evidence for global climate change been piling up over the last decades, some effects are frankly impossible to ignore, such as the very measurable one degree increase in average global temperatures since the beginning of the conversation.

Gilbert thinks climateskepticism is not really the issue anymore, instead the real challenge is in convincing people that

> urgent action



Fuck this guy // Gage Skidmore

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\\ But even with other countries picking up the slack, to mitigate climate change we will need to eventually zero carbon emission and to achieve that we will need global cooperation \\

needed. "Trump's decision to withdraw is really purely a political one. It's where most Republicans align themselves with," she says. How this antisustainability ideology works is unclear. It might as well be a communication failure. "It might be not being able to communicate with people outside our usual audiences but also not being able to make messages meet the value sets of different groups of people."

For now, Trump's inflammatory remarks are just that, and are unlikely to have immediate effects. Already many other countries have been turning green at surprising paces. India and China are making huge leaps in sustainable development. According to data from the Central Electricity Authority, India's solar contribution

to electricity generation increased by 81% in the last financial year.

Meanwhile China is considered a leader in solar expansion.
But even

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In the future, Haigh entertains a scenario where the American

government could face legal consequences as a result of

its inaction. "Legally the American government is required reduce to CO2, and somebody in the US c o u l dtake the government court because they're doing their legally

bound duty. There's also a possibility that poorer countries in the world could sue the US for loss and damage, because they're the one that are being harmed most by the actions of the polluters." Already a group of American teens and preteens are suing President Obama and various federal agencies for failing to protect the Earth's natural resources for future generations. Imagine the case they'd launch against Trump.

"I feel that Donald Trump has declared war on us and our planet," says Sir Brian Hoskins, Chair of the Grantham Institute. "I hope that the very positive actions in many US States, cities and companies and the support from the majority of its people will matter more."

Consent Matters pilot launched

Consent training could become

Consent training could become mandatory from October onwards

wo terms since consent training became a subject of contention amongst Imperial students, the Consent Matters pilot has finally been launched.

Consent Matters is an interactive course aiming at educating students on areas of sexual consent, communication and relationships, and bystander intervention. The creators of the course, epigeum, claim it "shows students how to seek consent, how to recognise it and how to identify situations where it can't be given."

Bringing Consent Matters to Imperial was an initiative spearheaded by ICU and supported and financed by College. Though discussions around the training course have been going on for two terms, the pilot is only now being launched due to difficulties with integrating it into blackboard.

DPW Emily-Jane Cramphorn

told felix that "putting it on blackboard means acquiring more anonymised data without students having to manually fill in a lot of the information themselves."

Unfortunately a series of unexpected difficulties with the integration of the course into blackboard and the staffing of the project has meant that the effort was abandoned and the

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As part of the pilot, 300 students representing a cross-section of the Imperial community were selected and invited to trial the training course. Though progress seems promising and Cramphorn herself has found the training very informative, she is cautious.

"I don't know how people will take it. I do think some people will ignore it and others will be resistant to it. Earlier in the year there was a lot of resistance and a lot of debate and if you look at other universities there has been a lot of backlash against consent training."

Many universities have made consent training mandatory (last October freshers at Oxford had to attend compulsory sexual consent workshops), yet students who protest the training remain, usually characterising such measures as patronising.

The pilot should yield feedback by August, meaning freshers in October might be welcomed by a compulsory training course before they take up their academic responsibilities. "Ideally we'll be able to launch it as part of the startup session in October," says Cramphorn. "We'll have a big media campaign around it and potentially make it compulsory. I know other people in the discussions are

\\ I don't know how people will take it, I do think some people will ignore it and others will be resistant to it \\

against this so we might have to discuss it further."

Cramphorn is referring to several student voices who protested the expenditure last November. During one of the first council meetings of the year Lloyd James, RCSU president, criticised the £5,000 College expenditure, and subsequently in a comment piece published in felix he said that "this purchase will contribute nothing to the student experience on campus," and referred to the funds that went into the licensing of Consent Matters as "£5,000 completely and utterly wasted". The RCSU General Committee also voted unanimously to condemn the expenditure, which they described as "a wasteful and ineffective method of informing students on the important issue of consent."

Either way, it's exciting to see College tackling consent and sexual violence, according to Cramphorn. "It does go hand in hand with the work we're doing with the catalyst fund which is moving more quickly. We're already training people to be sexual violence liaison officers and Consent Matters will only help to strengthen that project and make it an all encompassing project."

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Union awards ceremony honours volunteers

RCSU President boycotts event

Lef Apostolakis

onday saw the Union thank its volunteers at the annual

During the event, which is meant to showcase the best of Imperial College Union and its membership, 69 (wink) students were awarded colours, a further 19 were awarded outstanding service and a final five students were given fellowship. The awards are nominated, decided and awarded by students.

"From campaigning to innovation, sporting success to academic representation, community volunteering to live events, there is an unmatched depth and breadth of activities at Imperial College Union" said Union Managing director Jarlath O'Hara.

O'Hara, who came to Imperial from LSE last year, said he was excited to see the breadth of activities Imperial students were involved in. "A world leading student experience is about more than just academic achievement, it's about a broader balance education in which students have the opportunities to enjoy their free time, develop skills, preserve their well being and understand their learning in the wider context of society.

"Universities, employers and graduates all recognise that students with leadership experience gained through extra-curricular activities, are more desirable and more valuable than students who solely focused on their academic work and didn't' take a chance to develop themselves as fully rounded people."

Students were also recognised across nine categories. Campaign of the year was awarded to Medics of Imperial, a facebook page that highlights confessionals and tries to erase the stigma surrounding mental health. Community connections volunteer of the year was awarded to Antonia Evans for her outreach, bringing coding to school, and her involvement with Amnesty International's Write for Rights campaign.

Project of the year was awarded to Paediatrics Play team, which supports children at Saint Mary's Hospital. Contribution to College was awarded to Islamic Society for their Shake Break initiative, which offered students a time and place to chill, socialise and enjoy some free milkshakes. Mechanical Engineering and The Centre for Environmental Policy were recognised for their undergraduate and postgraduate representation respectively, and Abhijay Sood was awarded network rep of the year. The newly established City Varsity was crowned event of the year.

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Awards process \\

Last but not least, Iris Drone technologies were awarded for their innovation and enterprise. "Imperial is a catalyst for taking students' amazing ideas, and helping to support and nurture these life and sometimes world changing projects," said DPFS Rachel

Blythe. Founders Tristan Dell and Debesh Mandal, who had earlier this year been invited to speak at the Union's social entrepreneurship scheme, ACT Now, thanked the Union for the help they provided over the last two years and stressed the importance of support. "If you know anyone who does any enterprise social or otherwise I ask you to support them, because any little bit of



were concerned that "this

unfairly biased the awards

process towards those 'known

to' / friends of members of

the committee, and it went

against the spirit of an open,

level playing field provided

by an awards system with a

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support that you give them will help them on their way," said Mandal.

Notably absent were several RCSU committee members who received outstanding service awards. RCSU president Lloyd James told felix he boycotted the event. "I don't believe they were conducted in a fair and open manner and I believe Council was unfairly denied the opportunity to scrutinise the Awards process." James clarified that this was not an RCSU boycott and that other members were tied up in other obligations.

Union policy was updated earlier this year to allow nomination from the floor during Awards committee session. James told us he and other Council members

with an outstanding service award (again), and sat on the awards committee, disagreed. "The awards were conducted in the same way as it's my understanding they're done every year. No students were missed out because the out-of-date student union policy wasn't followed. It simply means that more students were able to be recognised for their hard work and dedication to the Union."

It should be noted that these awards are purely symbolic (with the exception of fellowship which comes with honorary life membership to the Union and is generally given out rarely). They aren't even accompanied by a Nando's voucher or curlyfries.

Council Chair Abigail de Bruin also disagreed. "I'm honestly disappointed that someone would take expired policy and use it to try and deny recognition for student volunteers. After all, that's primarily what the Union Awards are – a chance to say thank you and formally recognise the work of the most outstanding student volunteers. Personally I think what would have been much worse for the committee would be to have not awarded someone that they had noticed was missed."

Union President, Nas Andriopoulos, acknowledged that finding Union policies isn't the easiest thing, but he maintained that all procedures were done in accordance with policy. "If Lloyd has concerns with the way these few [the awards tabled in the meeting] were handled, he must also have a problem with how all Union Awards were deliberated on.

"If he has a problem with the committee's judgement, the Council Chair's, or my own actions I encourage him to pursue a formal complaint through this channel. Finally, if I were a student of Natural Sciences I would be frustrated to hear that my RCSU President has voted against awarding deserving members of our community, or attending the celebration of their achievements, without consulting his members first."

James told felix he does not intend to pursue this issue further this year, but he does intend to propose a revised Union Awards Policy next year that will prevent this from happening again.





It's not rational to be scared of terrorism

An anonymous writer thinks you should stop making this all about you

An ode to Shepherd's Bush

Tessa Davey really, really loves Shepherd's Bush, and she wants you to know why



very time there's a terrorist attack, the more skittish of my friends set about panicking. Marking themselves safe on Facebook, making dramatic social media posts, and generally creating the hysteria and alarm that follows a terrorist attack.

If a chemical weapon had been used, or if the numbers affected were large, then a response of this kind would be more logical. But your friends and family are far more likely to be killed on their commute than in an attack, and you don't wish everyone good luck on their travels every morning.

It's not rational to be paralysed by fear. You probably don't know one of the very few people who died: there are millions of

\\ Social media starts buzzing with hysteria, macabre fascination, and - face it - excitement \\

people in London. If you are affected, you have my earnest sympathies, but for the vast majority of people who won't personally know anyone who has been impacted by this recent spate of attacks, save your energy.

Social media starts buzzing with hysteria, macabre fascination, and – face it – excitement. Among the posts about prayers for London and Facebook safety checks, messages appear offering rooms to those who are stranded away from home. These posts – to friends – are entirely self-indulgent. Anyone in need of help will let you know, keeping their plight as private as they would like it to be. #RoomForLondon can help people who may not know anyone in the city, but posting on Facebook – reaching a small network of your friends – serves only to draw admiration. Demanding reassurance and declaring your benevolence

makes these attacks all about you.

We should talk about these attacks. We should honour the victims - their suffering is real and tragic and should not be in vain - but we should not pretend that they are anything other than what they really are: a drop in the ocean of people who die before their time, an outlying occurrence, a freak incident. We can't completely prevent attacks, but in a city where the situation was resolved within eight minutes, we don't need to lose our minds.

Perhaps I lack empathy, but I just don't get it. Did you previously lack the understanding that there was a very real threat? London is safer than just about any other large metropolitan area. The threat is real, but it is minuscule. You're entitled to be afraid; it's good to empathise with the victims and the families of the people who have died and suffered life-changing injuries. But don't act like we're in any more danger now, don't talk about how it could have been you because you passed through London Bridge on the tube three days earlier.

You are as safe as you always were, so stop acting like this changes anything.

've lived in various places all over London over the last eight years, but I always come back to Shepherd's Bush. It's not the geographical convenience or the relative cheapness that keeps me there, it's the fact that Shepherd's Bush feels like home.

I feel at home on the Green, with its gently undulating mounds. It's where I had my first kiss with a boyfriend, and where I've spent balmy summer evenings lying on the grass, drinking wine from the bottle and smoking until my lungs burned, musing with friends over ill-advised text messages to crushes.

I love Shepherd's Bush Market, that resists gentrification by having real community spirit. Hipster cafés



are springing up but they're embedded in the community, with local area at the heart of everything they do. You can just as likely get Mr. Falafel (reputed to be the best in London) as goat curry (both excellent choices) or you can visit the Polish sweet shop, the Australian store or the Lebanese bakery that all sit nestled next to a Caribbean

takeaway and a Nepalese restaurant, that never fail to make me hungry as I pass.

In the evenings, the streets fill with people talking, walking, and sitting in the cafés and restaurants. Where other parts of London become dark and deserted at night, the pavements of Uxbridge Road line with tables and people, light pouring out from every window. It's lively and vibrant around the clock, a mix of people from different countries, histories and classes.

When there was a stabbing on my street in 2009, the neighbours started a neighbourhood watch to make sure it didn't happen again. During the 2011 riots, people knocked on the door to make sure that we were safe at home, offering to drive and pick up anyone who was afraid to travel. When I was knocked off my bike by a careless minicab driver one evening last year, a dozen people rushed over to pull me to my feet and offer me seats and glasses of water. I've been to street parties where residents, whose families bought houses when they were dirt cheap after the war, ate sandwiches with young immigrant families, students, and trendy young professionals. Shepherd's Bush is somewhere that is truly a home to its residents, more than a temporary place that people pass through as they grind their way through life.

There is something for everyone in Shepherd's Bush, where it's crowded and cosmopolitan, and where everyone jostles for space without trying to push anyone else out. I love Shepherd's Bush because it doesn't feel like the rest of England, but it undeniably feels like the London I want to live in.



Defeating ISIS is impossible. Dealing with them is not



Charles Titmuss thinks that in order to combat terrorism, we must first understand its root causes

\\ Deportations and snapimprisonment of those willing to commit terrorist acts may not be the best course of action \\

he UK has been subjected to number of terrorist acts. At this point in time it is appropriate to mourn and honour the dead and remember that nothing can justify these acts. At the same time, it is important to look at this topic with nuance if we as a nation wish to solve this problem. Two questions need to be answered: what are the driving factors behind these attacks, and what can be done to reduce the impact that terrorism can have on our daily lives? The emphasis in this article will be on Islamist terrorism.



In order for terrorism to be enacted it is first necessary radicalise individuals. Radicalisation can take place for a whole range of reasons. The first requirement is often a sense of social and economic isolation and exclusion. This can take the form of relative poverty, or suffering from racism and discrimination. This leads to resentment and anger directed towards the society in which they are living, and is a critical primer to radicalisation. Interactions with extremist content on the

internet, as well as proximity to other people sharing the same views, can serve to entrench these feelings. These feelings then need to be inserted into a context to provide direction and purpose for their hatred. Islamism is rooted in Wahhabism or Jihadi Salafism, which preaches, amongst other things, that the West is fundamentally evil and must be destroyed in order to replace it with a version more in accordance with their ideas of absolute good. Proximate examples such as the Iraq war or bombing in Syria are often used in order to further justify the use of violence in accomplishing their goals.

Therefore, looking to the future, these attacks are likely to continue, for a range of reasons. Anger at certain elements of UK foreign policy is unlikely to dissipate. It has been cast, incorrectly, as a war on Islam by Islamist preachers and with the current instability in the Middle East, some form of UK military commitment to the region is likely for a long period of time.

Secondly, there is the presence of radical Sheikhs

\\ In a world of rising inequality, it is possible that these problems will only increase \\

and militant groups that preach hatred of the West. These personas are easy to access on the internet and often preach around the UK in order to recruit vulnerable people to their cause. Militant groups especially, but also some preachers, rely heavily on funding from states in the Middle East. A recent report commissioned by the Home Office looking into Saudi funding terrorist organisations was controversially buried as contained potentially diplomatically damaging information about Saudi activities. Qatar recently had diplomatic relations severed with several different Middle Eastern states over its role in funding this form of terrorism. The preaching of Wahhabi and Salafist Jihadi movements is also unlikely to go away any time soon.

The economic and social factors that begin the path to radicalisation will also prove difficult to remedy. In a world of rising inequality, it is possible that these problems will only increase, and lead to a greater amount of anger from those communities that do not feel the economic benefit and remain excluded from society. It is worth noting that these feelings of anger only make people vulnerable to extremism, and in no way justify extremist actions.

Having ascertained that this problem is not going away, what can be done to lessen the impact or even remedy it? Suggestions have been \\ A wedge must be driven between those who preach extremism and intolerance and the rest of society \\

made by all political parties. Personally I believe that a range of approaches are necessary in order to lessen the possible impact Islamic extremism can have on the UK.

Firstly, efforts need to be made to restrict Wahhabi and Salafist Jihadi movements and the funding that they receive. The repressed report should be published and acted upon to disrupt the powerful individuals that wish to spread violence around the world.

Secondly, more community policing and engagement is required. This is vital as it would help provide a counter narrative to that provided by extremist preachers, and help protect vulnerable individuals. A significant amount of radicalisation occurs within the community, and a wedge must be driven between those who preach extremism and intolerance and the rest of society. Deportations and snap-imprisonment of those willing to commit terrorist acts may not be the best course of action as this could serve

to radicalise more people, as well as reducing the time taken to commit attacks. The controversial Prevent programme must be fully funded, and better integrated into communities.

Funding for the security services should be increased, but their powers for surveillance should not. I am of the opinion that they possess the appropriate tools, but not the means. An emphasis on the role of the internet in radicalising individuals should be avoided. While it is a critical battleground, social media companies do not host that much extremist content, as



most has moved to places such as Telegram. A recent report by the BBC into IS militants found that a significant proportion were radicalised by local preachers.

I believe that these efforts would reduce the risk to the public. We must not descend into hysteria, we must remain calm and remember that this evil ideology will not defeat us.

comment. Telix

Trump can't ruin the environment by himself (even if he is trying)



Sara Hamilton thinks the withdrawal of the US from the Paris Agreement is not ideal, but the rest of the world can still try to make a difference

\\ The US stands alongside only two other countries worldwide in not supporting the deal \\

here's a lot one can say against Donald Trump, but thus far he has stuck to his word (or tried to a least). After doing his best to rid the US of 'bad hombres', last Thursday he proceeded to attack another of his enemies - the environment - by announcing the withdrawal of the US from the Paris agreement. The withdrawal process is expected to take four years, but has already invoked a large outcry from scientists everywhere. Read below for a full analysis for some of the questions and answers of what the deal is, why Trump pulled out and the repercussions this



What is the Paris Climate Deal?

The Paris Agreement is an agreement within the United Nations Framework Convention on Climate Change, signed in 2015 by 195 countries, which sets a global goal of keeping average global temperatures from rising 2°C, compared to pre-industrial levels, by the end of the century. Its aim is for countries to reduce their

greenhouse gas emissions as soon as possible. Trump referred to the deal as 'draconian', which hardly seems fair for an agreement that is, by definition, non-binding and in which each country plans its own contribution to the combined attempt to mitigate global warming.

\\ 61 US mayors
have said they will
work independently
to adopt the Paris
accord \\

Why is Trump pulling out?

Trump claims to have pulled out of Paris "In order to fulfil [his] solemn duty to protect America and its citizens". He has repeatedly dismissed climate change as a hoax, concocted by scientists and the Chinese (the blame has shifted between the two at different points in time) to undercut US manufacturing and his muchloved oil and gas industries. He did, at the same time, try to reassure us in his speech that he "still cares deeply about climate change". There's some Trump logic for you. As a result the US, the world's secondlargest emitter of greenhouse gases, stands alongside only two other countries worldwide in not supporting the deal - Syria, immersed in a civil war, and Nicaragua, which

believes the deal does not do enough for climate change.



What has the response been so far?

Trump's decision has proven

to be largely unpopular. According to the program on climate change communication, 69% of all Americans were in favour of remaining in the deal. Barack Obama, under whose administration the US spent years negotiating the Paris Agreement, has criticised this move as an abdication of US leadership on the global scale. 61 US mayors have said that they will work independently to adopt the Paris accord and sent a letter to Trump saying "If the president wants to break the promises made to our allies... we'll build and strengthen relationships around the world to protect the climate from devastating climate risks". The Pittsburgh mayor is a personal favourite. After Trump stated that he had been "elected to represent the citizens of Pittsburgh, not Paris" the mayor replied with the statement "we stand with the world and will follow the agreement". Furthermore, global business leaders such

as Elon Musk and leaders of companies such as Google, Apple and hundreds of others including major fossil fuel producers such as Exxon Mobil have urged Trump to stay in the Paris agreement, with Musk even quitting Trump's advisory board altogether

What will the withdrawal mean?

There is no doubt that Trump's withdrawal will make it more difficult for the world to reach the goals that it set out to achieve in the Paris Agreement, given that the US is the second-largest emitter of greenhouse gases, and has also been a leader in financing and providing technological expertise in carbon-reducing measures.

\\ The Environmental Agency's policies are still largely intact, so it looks like US citizens will at least be able to enjoy clean air until Trump decides that's a hoax too \\

Trump has said he is willing to "begin negotiations" for the US to rejoin the Paris Agreement, or a different climate agreement, on

different terms that are "fairer to the US", but it remains unclear what these are. In the meantime, the EU and China are expected to move forward as leaders in clean energy and the fight against climate change. On a lighter note, it is likely that the energy future of the US will not be as coal-filled as one could imagine, due to the falling prices of renewable energy technologies and the rising prowess of shale gas. The Environmental Agency's policies are, for the moment, still largely intact (sigh of relief), so it looks like US citizens will at least be able to enjoy clean air until Trump decides that that's a hoax too. All in all, this withdrawal

seems like just another indication of the scary way in which major world powers are looking inwards, rather than outwards, home rather than abroad, and looking to make their own countries prosper rather than considering international goals. It is now time for the rest of the world to rise up to the climate challenge, with or without the US. The Earth clock is ticking and the effects of carbon emissions don't care much for negotiation.



felixonline.co.uk/science felix.science@ic.ac.uk Friday 9 June 2017

felix ... s c I E N C E



Diesel pollution poses serious risk for asthma sufferers

Rachel Baxter explores new research conducted by Imperial researchers that identifies exactly how the diesel pollution that hangs in our air may be affecting our health

orty million British
people are living
in cities and towns
with illegally high
air pollution levels.
This alarming
statistic is in part due to diesel
exhaust, which according to
new research can directly
affect our lungs and make
respiratory conditions worse.

An international team of scientists led by Imperial College London's National Heart and Lung Institute recently found that diesel fumes directly stimulate nerves in our lungs leading to reflex actions like wheezing and coughing. This is bad news for sufferers of respiratory disorders like asthma as inhaling diesel exhaust could make these conditions more extreme.

The new study is the first to demonstrate exactly how particles from diesel exhaust affect the lungs by triggering nerve cells. When diesel is burnt it releases tiny nanoparticles called polycyclic aromatic hydrocarbons (PAHs), which easily enter our airways.

"It's essentially because of their small size that they can be inhaled," explains Lareb Dean, a PhD researcher from Imperial's National Heart and Lung Institute. "Inhalation is our primary interest as respiratory scientists - clearance mechanisms exist in the upper airways but because of their small size, density and shape, nanoparticles are able to go through the lungs and reach peripheral areas like the alveoli. Then we have these questions of whether they are able to translocate to other areas of the body."

Exactly how nanoparticles



like PAHs behave in the human body is of growing concern to scientists. "With things like asbestos we found out too late what the effect was," says Dean, "we need to do studies to carry out risk assessment for the potential effects of chronic exposure to other nanoparticles."

The new finding emphasises the need to address the worrying levels of air pollution in big cities in order to protect public health. "People with pre-existing lung disorders are most at risk," says Dean, "particularly people with asthma and COPD (chronic obstructive pulmonary disease), as well as people that are occupationally exposed to diesel fumes, like lorry drivers."

Lucy Gumbiti-Zimuto, a medical student at the University of Cambridge, has been suffering from asthma for the past 12 years. "I've had asthma since I was 10," she says, "I have noticed that when I come to London, or I've been in London for a few days especially, I get more asthmatic, develop a slight

cough and have to use my inhaler more often." UK air quality is currently very poor; in fact pollution levels in cities like London and Birmingham are technically illegal according to standards set out by the EU. The government recently

\\ My research, as well as the body of literature out there, has shown that increases in particulate matter like diesel exhaust leads to an increase in mortality risk \\

published new plans to tackle air pollution but these have been criticised for being too weak.

"I am concerned about high pollution as my asthma isn't that bad so people who have it worse must get really bad symptoms," says Gumbiti-Zimuto, "it worries me not only for my health but for everyone else's – it might cause increases in things like lung cancer."

"It concerns me," adds
Dean, "because my research,
as well as the body of literature out there, has shown that
increases in particulate matter
like diesel exhaust leads to an
increase in mortality risk. The
epidemiological evidence is
really robust."

As well as exacerbating conditions like asthma, PAHs are known to cause cancer. So why is diesel still being burnt? The government is under pressure to implement charges on diesel cars entering cities but is reluctant to do so having previously encouraged drivers to purchase them due to lower carbon dioxide emissions. To combat the issue, legal activist group ClientEarth will take the government to court to challenge its failure to effectively address the UK's air pollution crisis so far.

Ice, Ice Baby

act: Hot water
freezes faster than
cold water.
Once upon a time,
Erasto Mpemba was
making ice cream in
his cookery class. The sign of
a good scientist? He noticed
that the mix froze faster if it was
hot, rather than just eating it.

First observed in the 1960s, this experiment has been repeated many times since but, despite gallons of warm ice cream, a satisfying explanation remained elusive. As such, this phenomenon has remained a mystery – until now.

Time to get molecular: Water is H₂O – one oxygen and two hydrogen atoms held together by covalent bonds. The different water molecules are attracted to each other by hydrogen bonding. Now, Mr Xi Zhang has recently proposed that when the water molecules are pulled together by hydrogen bonding, their covalent bonds stretch, which stores energy. So, when the water is heated, and the water molecules move further apart, those same covalent bonds can relax, which releases energy. And releasing energy is the same as cooling.

This alternative cooling mechanism works in addition to normal cooling, and when you do the maths, that turns out to perfectly explain our ice cream mystery. It may seem counter-intuitive, but in a cocktail-party emergency you're better off sticking warm water in your ice cube tray.

This one was a bit too 'science' – don't worry, next week we're back to sex.

Another one of Mr Aran Shaunak's Little Bites of Science

Bionic Skin' could give robots the sense of touch

Sophie Protheroe discusses how robots are becoming increasingly humanoid, and how refining 3D printing is creating endless opportunities for new innovative technology

entering an age where robots are becoming more human, so are humans becoming increasingly attached to technology. Scientists have created a 3D printed 'bionic skin' which could give robots the sense of touch. This is a major step towards printing electronics onto human skin. Cyborgs, part human part machine, are no longer confined to science fiction.

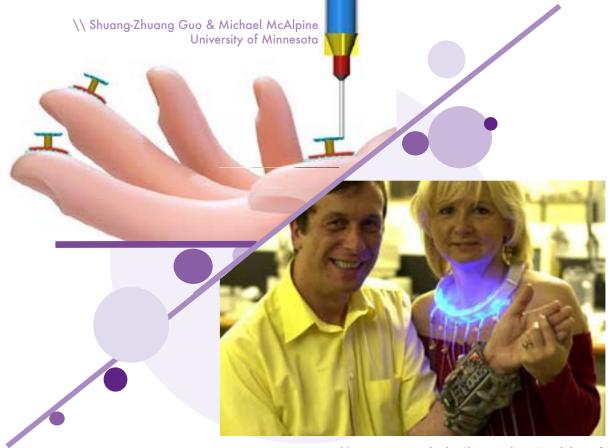
s we are

Researchers at the University of Minnesota have developed a revolutionary process for making stretchable electronic sensory devices using a unique, custom-built 3D printer. "A 3D printer is typically used to print hard plastic objects - we want to go beyond hard plastics to the realm of functional materials and devices, such as electronic and biological materials," explains lead researcher Michael McAlpine, an associate professor of mechanical engineering.

So far, the scientists have printed 3D touch sensors onto a model hand. The next step is to integrate these into

\\ 3D printed devices could become the tattoos of the 21st century \\

robots to give them a sense of touch. "You could integrate it into surgical robots. Instead of just observing the surgical



\\ Kevin Warwick, the "living cyborg" with his wife

tools on a monitor, you could actually give doctors a sense of touch, allowing them to do

more accurate surgery," says McAlpine.

The researchers also integrated a 3D printed sensory device onto real human skin and found that it was sensitive enough to measure pulse. This paves the way for 3D printing wearable health monitoring devices.

3D printed electronic devices could become "the tattoos of the 21st century", says Andy Miah, a fellow of the Institute for Ethics and Emerging Technologies, USA. Yet Miah is sceptical about their usefulness for daily life. "Having something stuck to you on a permanent basis

would be quite limiting," he says. However, there is more work to be done before devices can be 3D printed directly onto the human body. "One of the key things in being able to print on a real human hand is being able to track the small move-

\\ The researchers say the possible uses for 3D printed devices are endless \\

ments of the hand," explains McAlpine. "We're developing algorithms now that can track motion; I think we're close to being able to put this 3D printing device to practical use and we're pretty excited about it," he says.

The researchers say the possible uses for 3D printed devices are endless. They could be used by soldiers in the field to detect dangerous chemicals or explosives. They could be used to develop new therapies for people who have lost their sense of touch, such as leprosy sufferers.

"People wear smart watches on their wrist now and that gives them extra capabilities – you have the whole world's information on your wrist," says McAlpine. "Taking that a step further and integrating other types of devices directly on your body to achieve super-human capabilities, it's not really so science fiction anymore," he says.

Kevin Warwick, former Professor of Cybernetics at the University of Reading, supports the idea of enhancing human capabilities using technology. Warwick became the world's first cyborg when, in 1998, he implanted a microchip under the skin of his forearm which enabled him to remotely control devices in the room. Since then, he has been disappointed that other scientists have been reluctant to experiment with

\\ In the future, you could take the average person and give them an enhanced sense of touch\\

electronic implants. "Printing on top of the skin [as opposed to implanting under the skin] reduces the chance of potential medical problems and I do see it as an excellent, practical way forward for getting more people involved," he says.

The integration of technological devices with the human body is set to become more accessible in the future. Perhaps you'll be able to become a cyborg at the local tattoo parlour. Maybe you'll even be able to do it yourself. "You could take this tool with you, put a 3D printer in your backpack and print all kinds of cool 3D objects," says McAlpine.

felixonline.co.uk/culture culture.felix@ic.ac.uk Friday 9 June 2017

Telix ... CULTURE





Feverish Progress | Giacometti at the Tate Modern



Alberto Giacometti \\ Tate, The Estate of Alberto Giacometti (Fondation Giacometti, Paris and ADAGP, Paris), licensed in the UK by ACS and DACS, London, 2017



Lizzie Riach

Giacometti is on at the Tate Modern until 10th September

Tickets
Adult £18.50 (without donation £16.80)
Student £16.50 (witho3ut donation £15)

lberto Giacometti's work has always been close to my heart. He was central to the wider body of artwork that inspired me to do art for GCSE and A level. and I've based countless of my own pieces on his. Despite being known more for his extremely thinly sculpted figures, it was actually his drawing and paintwork that inspired the majority of my work. When I found out the Tate Modern was exhibiting him, I sincerely hoped that it would do his work justice, especially as it was his first large scale retrospective exhibition in the UK for

\\ By doing something a centimetre high, you are more likely to get a sense of the universe than if you try and do the whole sky\\

twenty years.

Giacometti (1901-1966) was a Swiss sculptor, painter, draughtsman, and printmaker, whose work mainly focused on the human form. As I walked into the exhibition, I was met with a very unusual sight. In the centre of the room were rows of busts on plinths, arranged into a square formation so that visitors could walk around them. These stylised depictions of heads hailed from all over Giacometti's life, from early naturalistic sculptures to minute versions. It was clear he held a lifelong fascination with the face, particuarly the eyes and their expression.

From there onwards, it became apparent that every room was laid out specifically to reflect his style and interests at different points in his life. The second room followed his extremely abstract surrealist work – bizarre sculptures involving stones and strings. Some take a

moment to work out, but they all have names that guide you along his train of thought. A piece titled Disagreeable Object cracked a few wry smiles due to being slightly phallic, and Composition (Man and Woman), had heads tilting to distinguish which head was which.

My favourite room was one holding a tiny collection of figures and heads - all encased behind glass with plenty of space to appreciate the beauty of each minuscule piece. There was one no bigger than the nail on my little finger, which led me to appreciate the craftsmanship and overwhelming attention to the most minute of details. To Giacometti the act of creating such diminutive work was just as much a philosophy as a display of skill; "by doing something a centimetre high, you are more likely to get a sense of the universe than if you try and do the whole sky."

His main works were showcased at various points - the famous walking man – a bronze larger-than-life figure chipped meticulously to the sheer core of the original. These stretched out people became synonymous to the post-war spirit in Europe, representing the alienation and anxieties that were rife throughout the nations. His works are deeply emotional - a personal favourite was one created shortly after his father's death. It was titled Woman with Her Throat Cut and looked less like a woman and more like some sort of insect. Despite its odd shape, there is no doubt of the pain and turmoil Giacometti was going through when he created it. His sculptures are not just interesting to look at, they make you feel.

His paintings complement his sculptures – the figures within them appearing small and lost in the surrounding frame. For some he would even paint a small box within the canvas itself, and then paint the figure inside it, to make it appear small and diminished in a similar way to his sculptures. His life models were always those closest to him – mainly his

brother Diego and his wife Annette. Despite reworking their features over and over again through intense scrutiny, Giacometti was rarely satisfied with the end result, claiming that his work lacked "likeness".

The exhibition ends with a video, showing his creative process and outlook on his artistic inspiration. It was clear he was transfixed with the human face in particular, and loved the way sculpting makes use of the hands in such a purposeful way. The exhibition itself lived up to my expectations, to say the least. Each room is very different. The mix of media - bronze, clay and plaster sculptures of all sizes alongside paintings carrying his distinct style made for a truly engaging show. By following the rise and progression of one of the most prolific and well-known artists of the 20th century, through times of struggle when he made housing decorations, to his late work and large scale bronze sculptures of the 60s, you leave with a wealth of knowledge of his work and character. Giacometti would've approved, "I don't mind whether the exhibition presents success of failures" he said of one of the exhibitions of his work during his life, "I have no requests, only to proceed feverishly." The show on at the Tate is testament to a life dedicated to exploration. This is a truly phenomenal collection of an artist who lived for his craft.



Union Page

Friday 9 June

Design an educational escape room



Would you like to try your hand at designing an educational escape room?

We are excited to present and advertise an opportunity which Imperial College Union have developed in collaboration with members of the Horizons department. The experience is the first of its kind in that you as students will work in teams to be in charge of designing an escape room puzzle.

We're offering 25 students the opportunity to attend a workshop on 17th and 18th July 2017 on designing an escape room. We'll put you into teams and skill you up!

The workshop will take place at South Kensington campus on 17th July and at the White City campus on 18th July where you'll visit the Advanced Hackspace and find out how you can use it to build puzzles. For more information visit:

imperialcollegeunion.org/escape-rooms

Officer Academy - 20 June

Attention Club Officers!

So, you've successfully secured your place on a committee, exams are coming to an end and Summer Ball is close (but yet so far away). Now what...?

Enter the 2017 Officer Academy!

This year's Officer Academy will provide you with the tools and knowledge to run your Club, Society or Project well, while providing useful tips to help you plan your year over the summer break. For more information visit:

imperialcollegeunion.org/OfficerAcademy2017

Summer Language Socials

We are looking to recruit a team of enthusiastic English speakers to help enhance the experience of those students taking the Centre for Academic English Pre-sessional English course. If you'd like to get involved visit:

imperialcollegeunion.org/summersocials

Imperial Plus are recruiting

Could you be a student trainer? Deliver ILM endorsed skills workshops to student volunteers at Imperial.

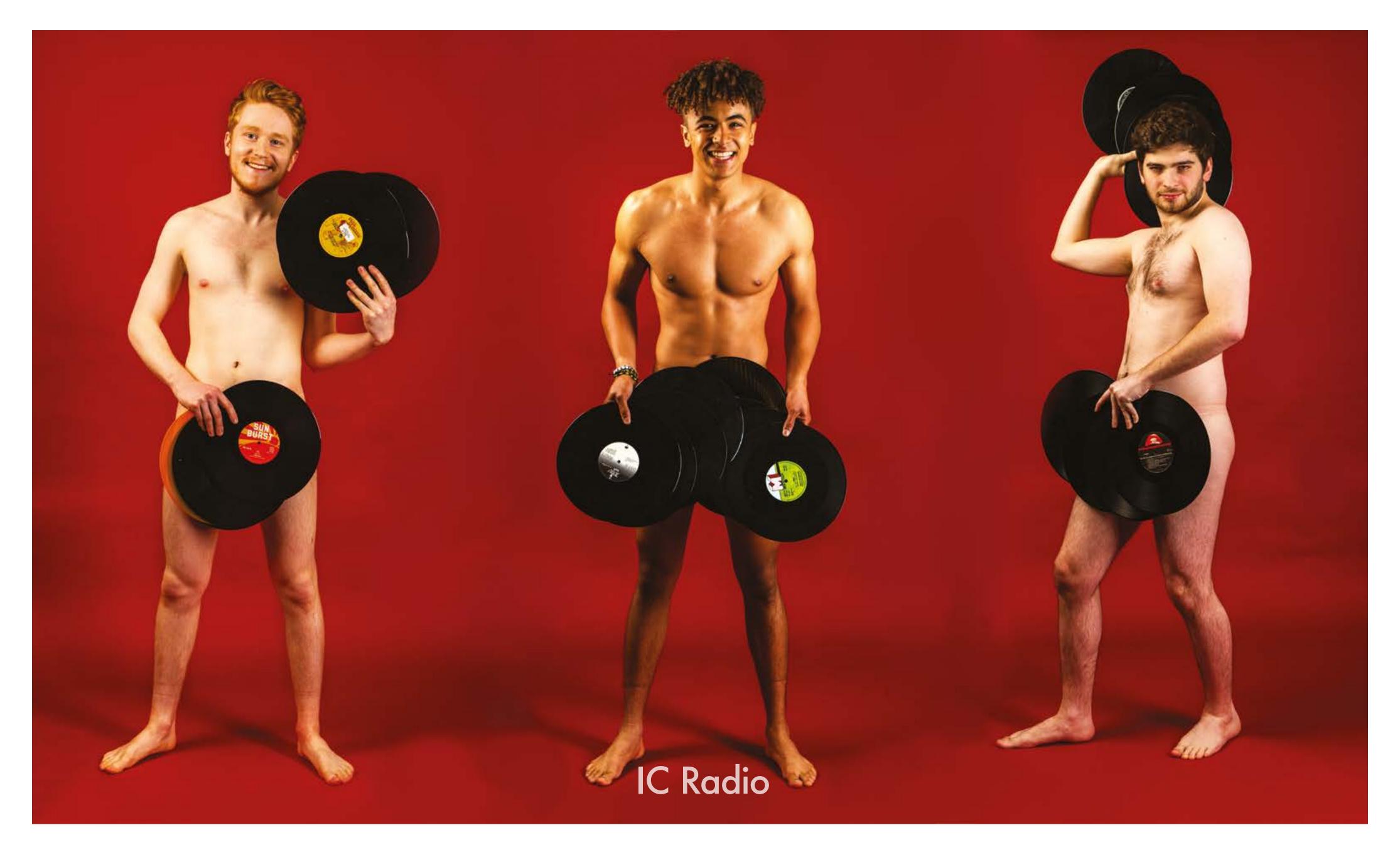
We are looking for enthusiastic students who are excellent communicators, confident public speakers, are well organised, reliable and can think on their feet. Gain experience of delivering workshops and develop your skills as a trainer by joining our team of Student Trainers for Imperial Plus. It's also a great opportunity to earn some extra cash!

Imperial Plus gives our 2,500+ volunteers the opportunity to develop transferrable skills through workshops delivered by Student Trainers. We ensure our Trainers benefit from the experience too by providing them with training and ongoing support. Applications close on Monday 5 June. Interviews will take place on Wednesday 21 June.

imperialcollegeunion.org/student-trainer







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elix culture





Death in Dreamland | Archer S8



A Private Dick in every sense of the word\\ FX \ Floyd County Productions



Anurag Deshpande



he ever popular action-spy-officewhatever comedy returns for yet another season; one that again opts to change the show's setting altogether. Given the show's relatively niche premise, and its ever-falling viewership, it's quite impressive that it has made it this far. It has even managed to be renewed through till a tenth season. Not that I'm complaining, given that I'm a huge fan of the series. Over the past few seasons, however, the creative fatigue has become

clear, with the show's creator, Adam Reed, being quite vocal that he'd like to move onto something different. It is no surprise then, that Reed uses season seven's cliffhanger to completely renew Archer's central premise, going even further than past efforts like Vice.

Season eight puts Archer in a coma, using his subconscious as an excuse to weave a season-long detective noir.

\\ While many of the characteristics of their non-coma counterparts, they could easily have been replaced with new ones \\

As a tribute to the passing of George Coe, voice of Archer's long-suffering butler Woodhouse, the series deals with a P.I. version of Archer attempting to solve the mystery of Woodhouse's death in 1950s LA. Opting for a shorter eight episode long season allows the telling of coherent season-long story, with tight pacing. The series fully commits to the theme and setting; gone are the hallmark anachronisms, and deliberately sliding timescale.

In fact, in many ways the series feels distinct from the rest of Archer. While many of the characters share the same characteristics of their non-coma counterparts, they could have easily been replaced with new ones. The season feels like a proofof-concept for an entirely different show. Actually, this proves to be a strength for a season, as Reed deftly combines the grasp the viewer has with characters' personalities with new, and deeper, backstories to build a robustly real world. This allows for subtle alterations to their behaviour, and prevents the fatigue that would be expected after eight seasons. As a result, one of the minor issues that had popped up around season five is also resolved. From that season onwards, the show had frequently resorted to just making the characters incompetent in order to generate laughs, something that is no longer necessary.

The refresh of setting also does much for the show's wit. In particular, the banter between characters feels a lot sharper and more tightly paced than it has been in recent seasons. The pacing in general is one of the highlights of this season. Momentum is never lost, and at no point did there seem to be any filler. Unlike previous seasons, every character and incident has some role to play in the overall arc.

In that sense, the show really undergoes a tonal shift. While it is certainly still a comedy, it now very much feels akin to something like Kiss Kiss, Bang Bang, or a more humorous version of The Long Goodbye. Accordingly, if you're just hoping for more of the same old Archer, you may be disappointed. However, for me this is a welcome change given how long the show has been going, and thematically I enjoyed this season far more than any that have come before. Visually, the series also gets much darker than anything it has covered before, and the show actually becomes quite serious at points.

That's not to say there aren't elements to find fault with,

course. Most glaringly, perhaps, are Archer's recurring WW2 flashbacks, that seem like they're building to some crescendo, whereas in reality they're just sort of there. This decision is particularly strange and egregious given how well Dr. Krieger's flashbacks are developed and integrated into the plot. Additionally, the resolution to the central mystery is both predictable and unsatisfying.

\\ It now very much feels akin to something like Kiss Kiss, Bang Bang, or a more humourous version of The Long Goodbye \\

Although, it is worth nothing that this is, perhaps, a conscious choice. Echoing Coe's passing, it is a reminder that death is often random and unsatisfying, and that in truth things in life don't have proper endings. In that sense, it is very much in the keeping with the spirit of noir.

On the whole, the season is an excellent renewal for Archer, even if it does so by moving away from some of the staples of the series. There's a lot to enjoy here, particularly for fans

of detective stories
or noir. However,
long-standing
fans may find
that it's not
quite what
they
expect
or
wanted
out of
Archer.



Beating your meat meant something different back then\\ FX \ Floyd County Productions

An Ode to Sense8

Lef Apostolakis

hree weeks ago I embarked on an emotional bingewatch of the 2015 Netflix original Sense8. Within two weeks I'd managed to watch the 23 near hourlong episodes of the first two seasons. Then a week later it was announced that sense8 would not be getting renewed, that episode 23 would be the last ever episode, and just like that I was heart broken. To the uninitiated, the series revolves around the lives of eight strangers who one day find themselves connected, reborn as one as sensates. They become a cluster of eight people sharing their lives, their existence; for all intents and purposes from that point onwards they are a single fundamental unit. That's the cornerstone of the title and this idea of interconnectedness is also its success.

If it sounds familiar it's because it is. Sense8 is the brainchild of the Wachowskis, directors of the Matrix and Cloud Atlas. All three of these pieces address in some way or another the human condition, our place in the universe and the nature of the glue that connects us. In a way sense8 feels like a philosophical sequel to Cloud Atlas (written by David Mitchell). Who can forget Somni-451 delivering her revelation? "Our lives are not our own. From womb to tomb, we are bound to others. Past and present. And by each crime and every kindness, we birth our future."

While Cloud Atlas explores the connections of human lives across time, sense8 toys with the same connections across space. The fact that Doona Bae (Somni-451) happens to play Sun Bak, a business woman/fighter from Seoul in Sense8 and one of the cluster's eight is far from serendipitous. A scene in season two that puts Sun in

a near death experience, causing every member of the cluster to experience agony, is possibly one of the most nerve-wracking and emotional scenes I've sat through.

Sense8 succeeds as a result

Just like Cloud Atlas,

of pandering to the ultimate fantasy - connection. We are alone in this world. No matter what, no one will ever be able to share our existence completely. No one will be able to fully understand our views, our feelings, or even something as simple as the meaning of turquoise. This is beautifully put by Lito and Capheus in a scene in season two where they are asked who they are by a journalist. "Who I am is exactly the same as who you are. Not better than, not less than. Because there is no one who has been or will ever be exactly the same as either you or me." The only force we have to mitigate the crippling loneliness that being human entails, is love, but in the world on this side of the screen love more often than not fails to break the barriers between humans. Behind the screen however, by dissolving this barrier that blocks human connection the Wachowskis get to titillatingly ask, what if we weren't alone? What would life be like if we could really truly connect with other people? Perhaps playing with this concept alone would have been enough to create great TV but the direction and production ensure the message is driven straight home. It's hard to describe exactly what the Wachowskis do, but they've undoubtedly create some of the most beautiful cinematic scenes I've ever sat through (and honestly the sex scenes are some of the steamiest and most breathtaking scenes I've ever seen).

Most importantly though they manage to really convey the feeling of a no-barriers connection between their main cast.



H8 to see you go \\Netflix

And that leads to another amazing consequence - empathy. The cluster is surprisingly diverse. A white straight American cop, an Icelandic DJ, a trans hacker, a Korean businesswoman/ underground fighter, a Kenyan bus driver, an Indian biochemist, a German thief and a Mexican gay action movie star. It is unlikely that anyone watching will fail to identify with at least one of the characters. But identifying with one of them means identifying with all of them.

You'll feel for Will losing his father just as much as you'll feel for Riley losing her family, for Sun taking the blame for her brother's embezzlement, for Capheus trying to find meds for his mother, for Kala getting married to a man she does not love, for Wolfgang extracting his revenge, for Nomi having her transness rejected and for Lito being called a faggot. Speaking of gender and sexual identity, this might be the first major mainstream production where I've felt some proper queer representation. Nomi and Lito aren't just trans and gay tokens. They're fully developed characters that happen to be trans or gay. This is not surprising given that Lana Wachowski started publicly addressing her transness in 2012, while Lilly Wachowski came out last year as a trans woman. But

\\ Speaking of gender and sexual identity, this might be the first major mainstream production where I've felt some proper queer representation \\

it's certainly refreshing and so very empowering as in some ways the queer characters are blessed with some of the healthiest and most beautiful relationships I've seen represented on-screen.

It's unclear what has led to the cancellation of the series. Many have blamed its outrageous budget (though at \$9 million per episode sense8 is on the same level as HBO's Westworld and cheaper than The Crown). In a recent interview with CNBC, Netflix CEO Reed Hastings said they just had too many hits in their hands. Sadly that seems to mean that if a title doesn't prove to be a mega-hit it doesn't stand a chance. Maybe a petition will give Sense8 a second wind. Until then all that's left to say is farewell. You'll be missed. You took us to places we never thought we could be taken and gave many of us the representation we only dreamed we could get. Thank

18 felixonline.co.uk/millennials millennials.felix@ic.ac.uk Friday 9 June 2017

Telix ... MILLENNIALS

The great age of the 3DS



he 3DS has been
the go-to portable
games machine of
its time, testified by
the sales of over 65
million units, and
is a shining example of how
to make a perfect handheld
console. Its only other
portable rival, the Playstation
Vita is as good as dead these

\\ Nintendo's anthropomorphised golden boy \\

days, and mobile games don't even come close to meeting the phenomenon that is the 3DS. It has a large and stable fanbase and its market dominance has been absolute for the past few years.

Things weren't always successful however, and early reception was poor to put it politely. When it first came out, all the way back in 2011, it's major selling point was that it packed the 3D without the need for 3D-glasses. There weren't really any great games on it at the time and the 3D tidbit was all Nintendo had going for it. Due to this, it was overshadowed by other consoles at the time and for a long time, bought units lay

forgotten in dark bedroom corners collecting dust.

To combat this, Nintendo decided to change their marketing strategy. They slashed the price so much, people claimed they were digging their own grave. They also stopped focusing on the 3D gimmick and started to work on actually making good games. Slowly but surely, the 3DS rose from its former position until it became Nintendo's anthropomorphised golden boy. Arguable even more so than the Wii U when it was released.

For a portable console you can take anywhere, the 3DS has an insanely large collection of games. There is literally something for everyone with family friendly, light hearted games like Animal Crossing and hardcore games like Monster Hunter for the more serious gamer. Nintendo also played into nostalgia quite heavily by reintroducing old games such as Ocarina of Time and breathing fresh life into their old franchises like Fire Emblem: Awakening, the first entry of the series on the 3DS, breaking records and bringing in new fans. The games aren't just pocket sized versions of the main console games, they are fresh and

engaging experiences that stand in a league of their own.

At the end of the day, there's basically a shit-ton of games you can play on the 3DS and regardless of which game you get, it's almost certainly going to be good. With just over 1000 titles, there are multiple opportunities for you to entertain yourself. Another quality which makes the 3DS so great is the fact



that it has backwards compatibility, unlike some other consoles *cough* Playstation 4! *cough*. The ability to play old games is one of the main reasons the "PC Master Race" is a thing. On the 3DS, you can play any of the games released on the DS so that's a further 2000 more games you can play. On the eShop, Nintendo have also started releasing old games

to buy and download so you can even enjoy games from literally 20 years ago.

The 3D feature isn't commonly used these days, and in fact, no one really talks about it anymore. But once you're able to adapt to it, it's actually really amazing. Cut scenes and battle sequences are brought to life and literally jump out at you. It makes all the surreal worlds and adventures all the more engaging and impressive; definitely worth the extra battery drain.

Unfortunately all great things must come to an end and the same is true for the 3DS. People predict that it has another year or so to go before Nintendo decide to move on. What comes next is anyone's guess. A lot of people are looking at the Switch as the successor, which could be possible, but right now, it's still too early to tell. Maybe we'll get a slimmer version of the Switch in the future because at the moment, it's a little too big and clunky and not exactly pocket size. On the other hand, we could get a console that's a sequel to the 3DS. What's unique about the 3DS and the DS is that they both have dual screens, so trying to adapt the gameplay of certain titled

to the single-screened Switch would take some work. Only Nintendo can answer these questions, it's just a matter of when; maybe E3 will reveal some secrets.

Having said that, I still believe the 3DS is a worth-while investment. You still have access to a large variety of games which stand their ground for the next couple of years. With portability, you also have the freedom of gaming wherever you are, even when you should be paying attention in a lecture. The 3DS isn't just the portable console of its generation, it's

\\ With just over 1000 titles, there are multiple opportunities for you to entertain yourself \\

a platform for gaming across the ages and a means to play many beloved titles from more than three decades of gaming history while on the move. Friday 9 June 2017 millennials.felix@ic.ac.uk felixonline.co.uk/millennials





MILLENNIALS



Fire Emblem: Awakening

The Fire Emblem series was on its way out and it looked like only a miracle could save

the franchise. And indeed a miracle

happened, and its name was Awaken-

ing. This sequel combined features

everything to make it suitable

from old games while streamlining

for newcomers. It is an amazing

turn-based, tactical game with a

gameplay that gets you thinking

ics are addicting and personally I

think Awakening is the perfect game

to bring in new fans and remind old

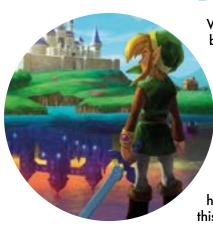
players why they love the series so much.

and a well-written story that keeps you engrossed. It's battle mechan-

I know all this talk has probably whetted your gaming appetite, so next I've prepared a list of recommendations of what you should be playing on the 3DS. (If you don't see *Pokémon* it's because I've played and talked about it to death and maybe it's time to move on)

The Legend of Zelda: A Link Between Worlds

With Ocarina of Time and Majora's Mask being remakes of old titles, A Link Between Worlds was the first original Zelda title on the 3DS and boy, did it deliver. It is an amazing production that is lovingly crafted with nostalgia from previous games and built to perfectly fit the specifications of the 3DS. It makes a great use of the 3D and has enough new features to make it look exquisite. While most Legend of Zelda games are a little more hardcore and are for the serious gamers, this game reminds you to have fun again and marvel at beautiful sceneries.



\\ Nintendo

\\ Ichijinsha

Super Smash Bros. Super Smash Brothers is one the most popular fighting game franchises of all time and one which everyone has heard of. The fact that its latest entry was released on the 3DS makes it all the better. The newest addition to the Smash Bros family introduces several new players and stages, while taking the series to new heights and reworking its competitive edge. Admittedly, there's not much in single player mode so this is a game best served to multiple people. Just make sure they're on the same level of skill as you, otherwise it quickly becomes you losing immediately and

watching the other players fight for half an

Mansion:

Dark

Luigi's

Moon



\\ Bandai Namco

Phoenix Wright: Dual Destinies

One-half detective game and one-half visual novel, Dual Destinies tells the story of defence attorney Phoenix Wright and his subordinates Apollo and Athena (I'm not kidding, these are the characters' actual names) as they get involved in all sorts of adventures in the name of justice. This game is a good entry point into the series as no prior knowledge is necessary. It's a bit light on action but it's worth playing if you're a wannabe detective, animé fan, someone who likes jokes and/or a hawk-enthusiast (Play the game, it'll make



\\ Capcom

Professor Layton and the Azran Legacy

This is the sixth entry in the Professor Layton series, but one that's written so you can enjoy it with no prior knowledge of the others. Professor Layton is a series that is less about frantic button mashing and more about using your head to solve puzzles and move the story forward. This game features a rich world, full of colourful characters, and offers lots of things to do and even more player choice regarding in what order you do them. If you want to take things easy and like to actually think before you jump, this is the game for you.



It'd be a disservice not to mention a Mario game on this list but I'm going to go with a spin-off title as opposed to a main series game. This game will make you laugh as you control Mario's lesser known, skinnier and younger brother Luigi and basically become a ghostbuster. Beyond that, it has a nice multiplayer mode as well as some cool features that make this a fun enjoyable experience. It's nice to see Luigi stand on his feet and be resourceful in taking down ghosts as opposed to playing second fiddle to Mario like he usually does.

\\ Next Level Games

felixonline.co.uk/millennials millennials.felix@ic.ac.uk Friday 9 June 2017

E3 2017 | What to expect



Expos are where the fun is at! \\ Sergey

he biggest gaming event of the year and is right around the corner; all the biggest gaming companies will be taking the stage to announce their plans for the upcoming year and showcase brand new games and consoles.

First up of the big three is Microsoft, and they are in the most interesting position of all the companies attending. Unlike Sony and Nintendo, who have definite plans and large releases coming soon, Microsoft is in a rather unique, and arguably precarious, position. In 2016, Microsoft shone the spotlight on four major franchises on Xbox: Halo, Gears of War, Scalebound and Tomb Raider. However, soon afterwards,

\\ Sony stole the show in 2015 and 2016 \\

Halo 5: Guardians and Gears of War 4 both received rather lukewarm receptions. Tomb Raider was only a timed exclusive on Xbox and released on the PS4 the following year. Most surprisingly, Scalebound was

cancelled and completely scrapped. Therefore, all their previous showrunners underperformed in some way, which leaves Microsoft with very little to show this year in terms of established franchises.

However, they have a potential ace-in-the-hole: Project Scorpio, their new 4K console, and the most powerful gaming console ever produced. It's likely they will sell the Scorpio as much as they can but they need to double down on the games. The only games we know of that may be given a definite release date are Forza Motorsport 7, which should show off the Scorpio's 4K visuals spectacularly; Crackdown 3, which has been stuck in development for years on end; and Sea of Thieves, Rare's new multiplayer pirate game. This leaves them with a significant amount of room to (hopefully) surprise and exceed expectations.

Sony stole the show in 2015 and 2016, and going into E3 this year it is difficult to see how they can top their previous showings. They have a track record for surprising and delighting fans with their announcements, which include the return of The Last Guardian, the Shenmue III

Kickstarter, and the Final Fantasy 7 Remake. This year they still have a wealth of titles to show off. Hideo Kojima's Death Stranding is sure to make an appearance, and after the two great, very cryptic trailers we've received so far it would be great to see more of the world Kojima wants to create. As the game is very early in its development it's highly unlikely



we will see any gameplay, though that would make it all the more exciting.

There is also the new Spider-Man game from Insomniac, which we saw very briefly last year. Insomniac are known for producing fun, frantic games and definitely have both the skill and pedigree to do the wallcrawler justice, and another good Spider-Man game is long overdue.

God of War and The Last of Us Part II are likely to be Sony's frontrunners, and both are hotly anticipated. God of War features an older Kratos with a son, and after killing the pantheon of gods in the previous games, this is set in the realms of Norse mythology. The Last of Us Part II is the direct sequel to Naughty Dog's critically acclaimed The Last of Us, and the trailer indicated that Ellie and Joel would be on the hunt for members of the Fireflies.

Finally, Nintendo are in a great place with the release of the Switch, and their Digital Event will focus on upcoming games. Their showrunner is of course Super Mario Odyssey, likely the most highly anticipated Switch game; we'll find out more about the gameplay mechanics and stages, and it will also be playable on the show floor.

Splatoon 2 and Arms will also be present and playable at the tournament this year; both will be heavily featured and are evidence of Nintendo's push towards esports. Splatoon 2 in particular has a lot of hype behind it due

to the warm reception of the original, and this looks to be taking the franchise in the right direction. Xenoblade Chronicles 2 will also make an appearance after its brief announcement trailer

\\ Nintendo are in a great place with the release of the Switch, and their **Digital Event will** focus on upcoming games \\

previously, likely showing off gameplay, and after the critical acclaim the original received it should have a great showing

Finally, the Mario and Rabbid crossover game likely the worst-kept secret of this year's E3 - will also be announced and detailed, along with details on the Zelda DLC packs, Virtual Console and Nintendo's plans for their Online Services.

Lazy food edition | Chilled rice pudding with

berry compote

Are you close to passing out from the lack of ventilation in the library? Are you tossing and turning in bed lamenting the passing of spring anf the lack of an AC? Do your friends describe you as a rice enthusiast? Well we might just have what you need.

'm back you fools and to celebrate let me share a story from my childhood. When I was in elementary school, our teacher used to teach us different 'life hacks' based on science - she said. One of the most memorable things she ever said was that it's better to drink a hot drink (hot tea) when it's hot outside, if you want to cool down. I don't want to say that this is bullshit, but it never quite worked for me. And frankly, you cannot convince me that having a hot drink will make you feel better than having some ice cream in a flaming hot day.

I'd normally make some chilled treat or other but as you might have noticed, the fact that I have so much revision *cough* learning *cough* to do now means I cannot lose too much precious time even with eating. And because I truly, deeply believe at this point of frantic revision that I don't need sleep and/or that you can live on coffee, I have found myself at a culinary block which I have resorted to solving with one of my favourite Italian 'things': covfefe. I am sure that you've had a covfefe at least a couple times but you might not be familiar with this particular name.

The covfefe is going to solve your enormous need for coffee and your cravings for

sweets and you will not feel particularly guilty for having a break as this one has, in my opinion, very few chances of turning into another let's-watch-all-of-Orangeis-the-new-black-in-one-go incident. Basically, you just make a nice-healthy-huge cup of coffee and while it is still hot, you take spoons of ice cream and you eat them at the same time with the coffee. I have friends who just put ice cream in the coffee and then eat it, but I think that's disgusting. The special taste of covfefe comes exactly from the combination of very cold ice cream and hot coffee consumed at the same time - just before the ice cream melts into your mouth, taking care of any potential minor burns.

And if you want to feel fancy - fancier than downing an ice cream tube - and if you have enough time now and you've finished your exams, or if you want to procrastinate with cooking if you still have work to do, here Í am, presenting you with the most impressive rice pudding you can imagine!... Though the truth is I've been way too lazy to cook anything more complex than this over the past month. Instead I've succumbed to being a lazy-ass student who uses restaurants and deliveries as their main sources of nutrition.





Regardless, my rice pudding brings all the boys to the yard. For real it's the shit.

Ingredients

For the pudding

1.5l semi-skimmed milk1 vanilla pod, seeds only250g pudding rice2 tbsp brown sugar200 ml double cream

For the compote

700g mixed berries
100g caster sugar
½ tsp sea salt
1 vanilla pod, seeds only
juice of 1 lemon
1 tbsp cornflour

Place the milk and the vanilla seeds in a pan over medium heat. While stirring constantly, add the rice and

\\ You cannot convince me that having a hot drink will make you feel better than having some ice cream in a flaming hot day\\

simmer for 25 minutes or until it is tender – yes, this is the best way to work those flabby arms since you haven't gone to the gym once in the past month. Depending on the density of the mixture, you might need to add some extra milk. And muscle.

Add the brown sugar and keep stirring. Remove from the heat and, after it cools a bit, refrigerate for at least 30 minutes.

In a separate bowl, whip the double cream and mix it with the cooled pudding. Refrigerate for another hour (at least).

For the compote, place

200mL of water and all the ingredients (except the cornflour) into a pan and bring to boil. Simmer for 10-15 minutes.

In a separate bowl, whisk the cornflour with 2 tbsp of cold water (it should have the consistency of a paste). Slowly add the paste to the berry compote and keep stirring over low heat until it thickens. Stir for 2-5 more minutes and then remove from the heat.

Serve the cold rice pudding in some fancy bowls or glasses and top with fruit compote. It should be enough for 4-6 servings, but I know you will eat it all in one go when you've got dem cravings only some mushy white ricey goodness can satisfy. I won't mention sharing it with others. That's just blasphemous.

P.S. I missed you, but my lovely exams have been keeping me busy:)

Andrada Balmez

The unwelcome guest

broken up with.

Spread the love

Keep saying you want to open up the relationship. Tell them, "I just don't think that there's

a finite amount of love that I can give". Unless you're poly,

in which case you're probably

already so used to communicat-

ing that this whole thing really

Keep pushing for a threesome

either oblige or refuse, which

situation. Once they agree to

the threesome, have the threesome, and then dump them

immediately after because you

think they're cheating on you

with the other person.

Cool things

twice a week. And always

make their tea wrong.

you can use later. It's a win-win

with their hot best friend. They'll

ought not to be a problem.

Make them really unwelcome in your space. If they're

allergic to cats, get a cat. If they're not allergic to cats, get

maybe your pet will end up being a social media star and

you can be a full time YouTuber. Then you'll definitely be

a mean cat that likes to bite. It sounds like a lot of effort but

MILLENNIALS

Use all the clichés

They will have never heard them before

because they are Imperial students and it's

unlikely that they will have had an extensive

love life. But flip them round for clarity. You

don't still want to be friends, it really is them,

not you. You did mean to hurt them, and you will love again soon you're sure.







How to dump someone (you met in Metric and subsequently fell in love with)

Everyone knows breaking up is horrible. We're here to make the process better for you (although probably worse for the other person)

Lef Apostolakis & Tessa Davey

Friday 9 June 2017

ou were weak. Despite our foolproof guides on how to have a one night stand (in Metric), 'How to have a one night stand (in Metric)', and how not to fall in love with someone (from Metric), 'How not to fall in love with someone (from Metric)', you went ahead and fell in love with someone (from Metric) and now you've been stuck in a relationship with them (someone you met in Metric) for months. Somehow, this relationship still sort of revolves around Metric. Congratulations, you're trash. But, just like a gastrobug, it's run its course, and more importantly, summer is nearly here and you want to bang some hotties in a hostel in Indonesia as you travel around trying to find yourself. Or, it's your final year, and you're ready to Gold Rush. You can't do that with a relationship, or a gastrobug. So you want out. But how?

You have two options

Obviously the grown up thing to do is sit them down and have a conversation with them, but you're not ready for that. You're a pathetic excuse for a human being, and you forgot to pack your spine when you were moving into halls. You've chosen to go down the route of making them break up with you. Nice job.

Be a dick

Piss off their housemates so much that their friends insist that they break up with you. Force their hand. Tommy and Gina never back down. Unfortunately it could backfire, and you could be coerced into getting a love pad. Avoid at all costs.

Prove their triends right

They were warned by their friends about you, now it's time to prove them right. Spread rumours about your own infidelity. Then lie, say you've been cheating on them for months. Lying to them is kinder than being honest with them: they've taken such a toll on your appearance and street cred that no one could possibly want you, and of course there's not someone else. All you want really is to sit at home in your underwear eating Ben and Jerry's straight from the carton and masturbating over that hot girl from Biology's

Instagram. Why can't you just be alone?!

down Forget your anniversary, their birthday, maybe even their name for a second there. Keep reminiscing about things you didn't do with them. "Remember when we went to M&M World? Oh wait no that wasn't with you". Ask them how many siblings they have at least

Smother them with love

Give them so much love that they can't even cope. Be there every waking hour with a compliment. Be there in their sleep. Be ever present, oppressive with love and undesired affection.

Be extremely clingy

Change their contact name on your phone to "The One". Show them. Look proud. You're trying to freak them out with emotional prox-

Create false intimacy by sharing false secrets

Like maybe tell them about that time you killed your ex's dog, because they were spending too much time together. That could be them. You could be like Alex in Fatal Attraction. Only your bond is important...

Get a tattoo of their name on your body

edly. Show their friends. Show their mum. Don't tell them it's not a real tattoo, it's a transfer tattoo, obviously. You're not an idiot, you don't really love them. There's only space for one man on your skin and that's Jon Bon Jovi. You ain't gonna live forever, so this relationship needs to die. Now.

Swamp their social media

This is for the ones who've stood their around. Start taking loads of photos of them sleeping and post them on Facebook, Caption them, "I wish you were here. Closer, Inside me." Yeah we don't know either, you freak.

you cheating on them (possibly using the one to throw their drink in your face at a something like "You said she was fat and drink thrown in your face.

The fake cheat

Manufacture a scenario where they find friend finder app). If they're not the snoopy type you'll have to get creative. Pay somerestaurant in front of your partner, saying ugly!". Hopefully you'll shortly get another

Just ghost them If they persist, change your number. If they show up at your flat or your department, move house, transfer universities, burn off your fingerprints and start a new life in suburban Spain. You're Alex Macgee now. Embrace it.

final choice

If they resist breaking up with you despite all these measures, you need to do something drastic. The fact alone that they still want to be with you means they're a sociopath and you need to end this relationship fast.

It's time to talk about your feelings. Just do it somewhere public. Maybe on a bus. Right as they're getting Or, fake your own

Let us help

Failing all that, send them this flowchart from felix. You're welcome.

ghosting you! It's your life, how

could they do such a thing?!

The high stakes play

It's now or never, book a really extravagant holiday six months in the future. Once there's no chance that you'll get your money back, it's almost guaranteed that you will break up. Hopefully, by the time you're ready to hit Hawaii you'll be single and ready to mingle.

The reverse ghost Constantly call and text them, and ask why they're not calling you back. Feign being ghosted. Demand to know why they're

The long game
It's all backfired, and they're even more in love with you now. Stop trying, you're clearly meant to be. If you don't manage to kill your relationship, marriage probably will, so get out there and start shopping for engagement rings. The sooner you get this over with, the sooner you can get divorced and finally be free. You might need a child or two to drive them away but that's what boarding schools

imity. You'll know you've succeeded if you can see the terror in their eyes. If not, escalate.





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We're all a bunch of boozy drug addicts

Theo Welwyn

very single one of us has as some point been lectured about the dangers of cocaine, Adderall, and heroin. Take them once and it might not be long before you're finding an excuse to take them again. Regardless of whether it's the oh-so-good high or a few too many nights out one week, you can easily stumble from a 'managed' habit into an addiction without realising it. The risk of addiction and its woes are hammered home by our parents and teachers in school, and most of us enter University holding an oath never to touch 'those bad drugs'. Financial destitution, a septum on permanent leave, and those "This is your brain on drugs" PSAs haunt our thoughts at the mention of Class As. Yet despite this oath (however long it remains intact throughout our years at University), many of us become addicts in our first week here. Our drug of choice? Alcohol.

With Summer imminent, excuses today become as common as much: BBQs, lads' holidays, and epic trips to find yourself in Southeast Asia are all socially convenient ways of fuelling your addiction. An addiction borne of the almost unlimited freedom gifted to us as freshers, having moved out from under the watchful eyes of our parents and landed a seemingly astronomical stipend from the Government. After waving goodbye to our parents on move-in day, it is mere hours

before we are taking advantage of the newly affordable shot-racks in Metric. From that day forward, grotesque quantities of alcohol are consumed on a near-nightly basis at pre-drinks sessions and in the Union at circles. Friends' hair is held up as they chunder into a toilet, if they're feeling particularly conscientious, or onto the pavement if not. During freshers' week, blacking out before you make it to the club becomes a great ice

drug which left them in such a state, you would be concerned, yet we regularly drink booze in the name of fun.

For a lot of people, rampant alcoholism, like other drug use, is confined to a soon-tobe-nostalgic experimental phase, filled with embarrassing Facebook pictures of those four months you committed to growing your hair out, or that Bob Marley lyric you had tattooed on your left ankle. University is

laugh at, and other things that will go on to shape who we are as people for the rest of our lives. In the same fashion, our over indulgence in alcohol can continue past our Uni days, with all the health risks that entails. Just a threeyear stint of alcohol abuse is seen as a rite of passage in students' lives, but we would be horrified at the thought if it were another recreational

Alcohol is a drug. It is

a depressant, resulting in slurred speech, reduced cognitive ability, focus, perceptual disturbances, and slowed reactions. Most people drink it to relax and employ their reduced inhibitions by throwing shapes and attempting to chat potential partners up on a night out, yet at higher doses its depressant effects are felt in full force. I'm sure I don't need to say more about the consequences of overindulging; many of us have experienced them ourselves. Most of us are also aware of its toll on society. In 2014, there were nearly 9,000 alcohol-related deaths in the UK. Drinking makes up 10% of the UK burden of disease and death, ranking it third in lifestyle risk factors, after smoking and obesity. Even moderate use can have health effects, from weight gain to reduced exercise performance, while heavy use can lead to serious health risks such as cirrhosis of the liver and oesophageal varices, which can cause you to literally spew blood. I'm not advocating prohibition, all I'm saying is that its uses and

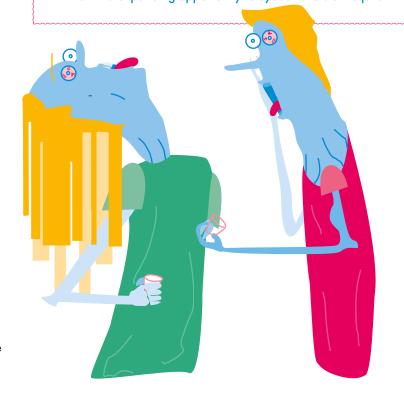
risks should be considered as thoroughly as they are for other drugs.

I like a drink as much as the next person. Alcohol is

\\ Just a threeyear stint of alcohol abuse is seen as a rite of passage in students' lives, but we would be horrified at the thought if it were another recreational drug \\

deeply embedded in many that gives fair consideration to toll on our health and our economy.

If it wasn't for higher education, Rich and Geoffrey wouldn't have had the mind expanding opportunity to eyeball shots of Tequila



breaker rather than a worrying harbinger of nascent alcoholism. If someone told you they regularly took a

about testing our limits and defining our boundaries. It's often where we invent our identity. We all do things we will later look back on and

cultures as a gastronomic pleasure and social enabler. It is this long cultural history, combined with the incredible lobbying power of the Goliath alcohol industry that exempts alcohol from being included in drug awareness talks, or most recently, the **Psychoactive Substances** Act 2016, which saw other formerly legal highs banned. In a society that prioritises science as a means of knowing the world, we need an evidence-based drugs policy all substances based on their health risks. As long as we continue to ignore the facts, substance abuse will take its









RISIS

Dear Chris,

Yesterday one of my houesemates bought me flowers. Big woop I know. Only my girlfriend came over and saw them and got really jealous (she's a dom top).

My housemate only got them because they were reduced to something like 50p but this innocent gesture has now sparked a diplomatic incident.

I'm pretty sure the girlfriend is going to 'surprise' me with a massive bouquet tomorrow (obviously hers have to be bigger) which is great, only I'm actually allergic to flowers. Also I'm afraid she might hurt my housemate. Maybe set fire to our flat. Out of love.

Suggestions?

Best,

Viv

Damn,

Nothing makes my day like advice on how to deal with a good dom top. I have to say, I don't know who you are Vivien but it sounds like you're loving it. And you should. Being in a relationship with a dom top is like having to care for a chocolate covered puppy. That's also covered in nails. Some of which carry hepatitis. But if you can navigate straight to the gooey centre you'll never want out again.

So let's see. Your daddy is jelly. Good. That's the hallmark of every healthy relationship! It sounds like she's gonna be getting you a really big bouquet tomorrow. It will probably be packing some pollen-heavy flowers, just to make you suffer. But we both know that's what you really want from this relationship anyway so let's not make a big deal out of it. All you have to do is fill your fragile body with

antihistamines and persist. Make sure from now on, whenever your alpha is in the same space as your offending housemate you explicitly scorn them. Maybe spit on them in passing. This should calm things down for a while.

Now on to the rest of your life: milking it. This is your opportunity to get all those things you always wanted but couldn't justify the cost of. All you have to do is pretend you're getting minor gifts from random friends or admirers and your dom top will immediately try to... well top them. A second hand scarf will turn into a new summer wardrobe, an open mic night will turn into Lady Gaga tickets and a tamagotchi will turn into an actual puppy.

Next stop: gimp life.

Big luv, Chris xxxx

HOROSCOPES



This week you decide you hate student volunteers.



This week you quit drinking beer 'cos every time you taste it, all you can think of is running through fields of wheat.



This week you wake up and realise you slept through Thursday and failed to vote. This is all your fault. Oh well.



This week you trade your union colours for a Nando's voucher. Cheeky.



This week you're Sport Imperial and you're wondering if you're gonna get one more shout out in felix before the end of term. Maybe.



This week you get drunk with a bunch of scientists from your lab and wake up the next day with five emails offering you PhDs. You didn't even have to suck anyone off. You think.



This week you decide to apply tactical voting to your exams. You go to two out of three. Resits will be fine.



This week you're felix and you don't have any material on the election because you go to print right as the polls close. This is clearly a silencing attempt by The Man.



This week you decide to go on a diet consisting entirely of curly-fries. If you can't get a beach bod you'll at least have a bod as wide as a beach.



This week you decide to grow a soul patch to match your soul-searching Southeast Asia summer plans. Congratulations. You're officially trash.



This week you ask felix to break up with your significant other. Sorry Phil. This isn't working out. It's you. You stupid fuck. Delete my number. Sara.



This week you're Donald Trump. People are wondering why you want to fuck the planet. What they don't know is that you've already purchased Mars and can't wait to put it on the real estate market.







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If you suddenly find yourself in **financial difficulties** or experience an unexpected change in circumstances, you may be eligible to apply for **emergency financial help** through the Student Support Fund.

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Friday 9 June 2017 sport.felix@ic.ac.uk felixonline.co.uk/sport



Telix

Keeping Track of Imperial's Cross Country & Athletics Club

aturday the 27th of May saw the final event in the London Universities and Colleges Athletics (LUCA) outdoors championship take place. The series of three athletics meets between the London universities had previously visited St. Mary's and Woodford athletics tracks, and the destination for the final was Battersea's Millennium Arena.

The warm but windy day began with a 1-2 for Imperial in an excellent women's 1500m led home by Kate Olding in a time of 4:57.16, closely followed by Sarah Johnson in 5:03.29 and Ophélie Meuriot finishing 5th in 6:11.17.

The men's race saw some good performances too, with Fergus Johnson (4:54.13) and Duncan Hunter (4:58.90) competing in the first heat, and Duncan Ingram (5:01.51) and Lawrence Tse (5:48.01) running in the second.

Meanwhile, five Imperial athletes competed in the long jump; David Fong leapt 5.94m – enough to finish 2nd on the day – with multi-eventer Hunter jumping 4.49m and Jack McKeon 4.22m. In the women's event, Zhen Wang-Koh flew 2.99m and Meuriot reached 2.84m shortly after her 1500m. Wang-Koh later went on to clear 1.20m in the high jump.

In the 100m sprints, Imperial's Paul Guillon ran 12.83, with Stefan Renstrom finishing in a rapid 12.21, and Hunter running an impressive 13.07 after his 1500m and long jump. Hunter and Guillon then went on to run the 200m in times of 26.86 and 26.01 respectively. Not satisfied with two sprint events, Guillon next ran the notoriously difficult 400m to post an impressive 56.20.

In the even more difficult women's 400m hurdles, Jenny Lea ran 1:36.16, despite having never jumped over a hurdle before! She also hopped, skipped and jumped valiantly in the triple jump.

With the sun beating down on the Battersea track, a water station was set up for the longest event of the day – the 5000m. In her third of six events, Ophélie Meuriot finished strongly to run 23:55.77, just ahead of Catherine Spurin's 24:14.17.

In the men's event, McKeon

\\ In the even more difficult women's 400m hurdles, Jenny Lea ran 1:36.16, despite having never jumped over a hurdle before \\

posted a new personal best of 18:04.92 despite the heat, gusts on the back straight of the track, and suspect water delivery from his teammates.

McKeon then went on to



compete in the 800m, running 2:28.71, just behind Duncan Ingram's 2:27.58, finishing 3rd and 2nd respectively in the second heat. Imperial's future athletics captain Max Thorp earlier posted a speedy 2:10.46 to finish 5th in the first heat.

In the women's 800m, women's captain Alex Mundell ran extremely well to finish 3rd in 2:24.16

Next was the turn of the spectators' favourite – the steeplechase. This event involves hurdling five large barriers (91.4cm for men) per

lap over two or three km, with water jumps to contend with each lap too. A crowd typi-

cally gather around the water jump, with plenty of splashes and tumbles occurring during each race. Representing Imperial in the men's race was Duncan Ingram, who went

\\ Some of the most exciting races of the day were the relay races \\

on to finish in 12:31.00 after a surge in pace on the penultimate lap to ensure he was not lapped by the eventual winner!

Over in the field events, Athletics Captain Raul Rinken came 2nd in the shot put, throwing 10.47m, while James Davis reached 7.70m and multi-eventer Ingram threw 5.86m. Davis and Ingram also competed in the javelin, with throws of 26.81m and 20.04m respectively. Davis also entered the discus, throwing 17.69m, while Rinken won the event by over 7m with a huge throw of 36.38m.

In the women's events Liv Papaioannou came 5th in shot put with 7.21m, ahead of Mundell with 5.79m. Both Papaioannou and Mundell also threw the javelin along with Meuriot, with Papaioannou finishing 3rd with 23.91m, ahead of Mundell's 15.88m, and Meuriot's 8.50m. Meuriot's final event was the discus, in which she threw 9.45m.

Some of the most exciting races of the day were the relay races. Imperial's 4x100m teams finished in 48.84 and 63.82, and the men's 4x400m team came home in 4:19.19.

In the medley relay, a special event which has 200m, 400m and 800m legs and both men and women competing in one event, Imperial assembled a strong team enough team to podium; finishing 3rd in 7:49.55.

As the event was the 3rd and final meet of the series, medals were presented for the highest points scored in each discipline over the course of the championship.

Overall, bronze medals went to Women's Captain Alex Mundell for 800m and our medley relay team, silver medals to next year's Athletics Captain Max Thorp for 800m, Liv Papaioannou for javelin, David Fong for long jump, and Athletics Captain Raul Rinken for shotput and gold medals to Kate Olding for the 1500m and Raul for discus.

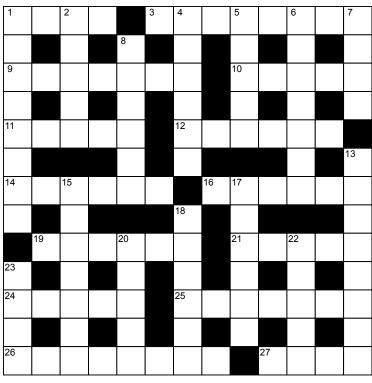
In the final standings, Imperial managed a respectable 4th place out of all the competing universities and colleges, behind UCL, King's and LSE.

Special thanks go to Imperial's Matt Douthwaite and Shiv Patel for all their hard work and dedication in organising the championships.



Fergus Johnson

felixonline.co.uk/puzzles puzzles.felix@ic.ac.uk Friday 9 June 2017



Across

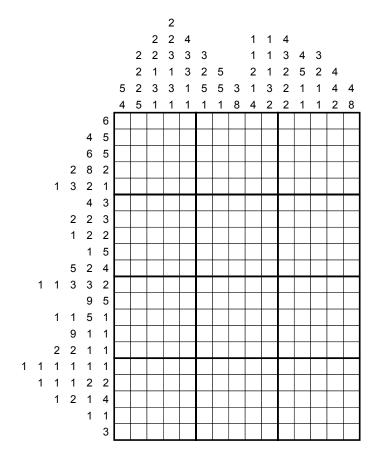
- 1. Depend (4)
- 3. Pre-dinner drink (8)
- 9. Fishing vessel (7)
- 10. Floating markers (5)
- 11. Classical language (5)
- 12. Large gun (6) 14. Boil slowly (6)
- 16. Light wind (6) 19. Thrifty (6)
- 21. Thigh bone (5)
- 24. Exaggeratedly masculine (5)
- 25. Indistinct (7)
- 26. Pacts (8)
- 27. Leg joint (4)

Down

- 1. Unpitying (8)
- 2. Minimum (5)
- 4. Robbery at sea (6)
- 5. Red-breasted bird (5)
- 6. Duo (7)
- 7. Ado (4)
- 8. Quick look (6)
- 13. Bring back (8)
- 15. Marvel (7)
- 17. Rubbish (6)
- 18. Recess (6)
- 20. Old coin worth four pence (5)
- 22. Lament (5)
- 23. Fail to include (4)

	25		16		11		25		11		16		12	
25	23	9	14	13	3		26	14	1	7	3	15	1	9
	9		7		23		14		23		19		18	
²² P	⁸ A	23	15	18	⁸ A	11	1		9	⁸ A	20	1	9	3
	²² P		⁸ A		1		21		4				3	
24	⁸ A	12	²² P	⁸ A	9	4	3		1	24	14	⁸ A	21	⁸ A
	13		3				7		25		21			
5	25	18	23	1	10	17		3	10	10	25	21	9	25
			25		20		²² P				21		3	
15	⁸ A	19	13	18	17		⁸ A	⁸ A	18	13	5	⁸ A	18	6
	26				19		18		3		1		18	
26	14	25	21	9	4		⁸ A	18	3	11	⁸ A	15	1	9
	1		1		25		P		23		2		13	
2	20	⁸ A	9	6	25	17	25		15	⁸ A	20	20	3	19
	⁸ A		6		20		15		23		25		18	

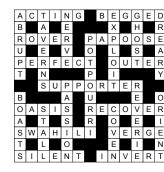
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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16	17	18	19	20	21	22	23	24	25	26				
						Р								



3	•	•	•	•	•	•	•	•	3
•	•	1	•	•	1	0	•	•	3
3	•		2	•	2	2	•	1	•
2	2	2	2	•	•	•	1	•	2
2	2	2	•	2	• 2	3	2	•	1
• 2	•	• 3	• 2	•	•	•	•	•	• •
• 3	• 1	•	• 1	• 2	•	•	• 2	• 2	• •
•	•	• 3	• 2	•	•	• 2	• 2	• 3	• •
3		2	3	2		3	2	•	

Solutions

Send in your solutions to fsudoku@imperial.ac.uk before midday Wednesday to get your score added to our leaderboard. Make sure you include the name/team name that you'd like us to use!





FUCWIT

Leaderboard Anonymous

451

	446
Schrödingers Cat Strikes Back	
Willie Rush	382
The Czechmates	374
Sneezing Pandas	341
Les Nuls	328
Guinea Pigs	239
•	214
	192
	192
,	180
	170
Kenny Wangler, Cunnyfangler	
	126
	122
Luncheon Pals	117
THE Crystallographer	110
Civeng Eating	99
Whale and Male	93
Yellow Fever	92
Slyther Inc	84
The Couple on the Train	77
One in a M1riam	75
Chemical Brethren	70
Puzzled	62
Grand Day in Cullercoats	55
The Mystical Spankyman	53
Salmon ft. Kanye	45
The Drama Llamas	43
RollEEEr	40
The Ultimate Fucwit	38
	36
Big Mahmoud	
Christo, Jay and Erkin	36
Rising Tsar	36
Dairylea Dunkers	30
Dat Boi	30
Computer Magic	24
Pseudo-coup	24
Lube Lords	23
Pintos-13	21
Bananana	20
Les Baguettes	18
Cherry Dude	15
Poulet	15
Hillary Killed Harambe	14
Manny	12
Puzzle Snuggle Cuddle Couple	12
Shusie-Q	12
The Indoor Sundial	12
G. Hackman	10
Sting Like a Butterfly	9
Pollux	7
Did HP use Google?	ć
Mr Dick Tingler	6
The Erudites	ć
Too gay 2 f(x)	6
Wadeelightful	6
Crosswordy McCrosswordface	e 5
Singed Potato	6 6 2
Karet Slat	3

Points Available 21 Crossword 6 Codeword 6 Nonogram 6

Slitherlink